



WILLIAMS ARCHITECTS
824 Baronne Street
New Orleans, Louisiana 70113
(504) 566-0888

**PROJECT: Multi-Sport Venue in Eastern New Orleans and Lower Ninth Ward
4290 Almonaster Avenue,
New Orleans, LA 70126**

ADDENDUM NO. 3

OPSB Project No. ITB 26-FAC-0053

February 2, 2026

TO: New Orleans Public Schools/Bidders

This Addendum forms a part of the Contract Documents and modifies the Project Manual – Volume 1 and 2, and Drawings dated November 6, 2025. Clarifications and revisions noted below are in response to the project solicitation posted on January 5, 2026.

Owner Clarifications: n/a

Bidder Clarifications:

1. Requesting prior approval for substitution request for LED area/site lighting by multiple manufacturers.
Response: The lighting fixtures outlined in the attached submittal have been approved as equal to the lighting in the contract documents.
2. Premier Polysteel was approved as a manufacturer for the bike racks in addendum #2. Will these bicycle racks have a galvanized finish per the specifications? Or is the standard Polysteel coating acceptable?
Response: Specification section 2.2.C states Steel Finish: powder coating.
3. Please verify that the Owner will be contracting and paying for all site testing and inspections.
Response: The contractor shall contract and pay for site testing and inspections.
4. Spec section 042200 references burnished CMU, but nothing is mentioned if the burnished CMU should be sealed after it is installed and washed. The water repellent included in the manufacturing process and put into the mortar is not enough for our region. It is highly recommended that the walls should be sealed after installation with a product like Prosoco Blok-Guard.
Response: Specification section 042200 – Concrete Unit Masonry (Burnished); 2.8 – Sealers and section 3.7 – Installation; D. – Sealer, are provided to specify concrete masonry wall protection.
5. Substitution request Rockfon for the acoustical ceilings.
Response: Rockfon has been provided as an acceptable manufacturer under specification section 2.3.A.1 - Manufacturers.

Architect/Consultant Clarifications:

1. Civil Sheet C30 - Overall Jointing Plan has been provided for clarification.



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Attachments:

WKA Lighting Substitution Form
WKA Lighting Submittal for Prior Approval
Rockfon Substitution Form

Specification Revisions:

042200 - Concrete Unit Masonry (Burnished)
095113 - Acoustical Panel Ceilings

Drawing Revisions:

C30 – Overall Jointing Plan

End of Addendum No. 3

CSI Form 1.5C

SUBSTITUTION REQUEST (During the Bid Period)

Project: MULTI-SPORT VENUE IN EASTERN NEW ORLEANS - LOWER NINTH WARD Substitution Request Number: _____
 To: WILLIAMS ARCHITECTS From: WKA LIGHTING
 Date: 6-16-25
 A/E Project Number: WA-523012 / MS-1323-1088
 Re: LIGHTING PRIOR APPROVAL Contract For: CAPITAL IMPROVEMENTS
 Specification Title: LED INTERIOR/EMERGENCY LIGHTING Description: LIGHTING
 Section: 265719 Page: 1 Article/Paragraph: 1.1
 Proposed Substitution: WKA LIGHTING
 Manufacturer: VARIOUS/SEE ATTACH Address: 301 PLAUCH ST. SUITE A Phone: (504) 733-0301
 Trade Name: COOPER Model No.: VARIOUS - SEE ATTACH H&D

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: WKA LIGHTING
 Signed by: Rich [Signature]
 Firm: WKA LIGHTING
 Address: 301 PLAUCH STREET SUITE A
HARRAH, LA 70123
 Telephone: (504) 733-0301

A/E's REVIEW AND ACTION

- ☒ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Jeff Lambert
Jeffery Lambert, PE (YKH)

Date: 02/02/26

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____



Transmittal

Wells Keown Associates
301 Plauche St
Harahan LA 70123
Phone: (504) 733-0301
From: Rich Hayes

Project Multi-Sport Venue - Eastern New Orleans &
Lower Ninth Ward

Quote# WK25-45367

Location New Orleans LA
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input checked="" type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Type	MFG	Part
F1	Lumark	PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM10-[FINISH]-BC
F1B	Lumark	PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM218-[FINISH]-BC
F1C	Lumark	PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM390-[FINISH]-BC
F1D	Lumark	PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM490-[FINISH]-BC
F2	Optec Lighting Inc.	OLPA1-080SP-UNVL-[CCT]-5W-PT-[FINISH]/ RSS-4-11-15-T*-[FINISH]-BC
F4	Startek Lighting America	HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
F5	The Smart Lighting Co.	FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2
F6	Startek Lighting America	HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
F7	Vista Professional Lighting	1054KM-[FINISH]-WF-[CCT]-B-MV-010
FA	Metalux	24FPSL2SCT3
FB	Metalux	4SNX-51SL-LW-UNV-L840-CD1-PAF-U
FC	Halo Commercial	HC420D010 HM40525840 41WDH
X1	Beghelli	BBX-SE-HO-BLK
X2	Beghelli	PXRSAAT

Project		Catalog #		Type	
Prepared by		Notes		Date	



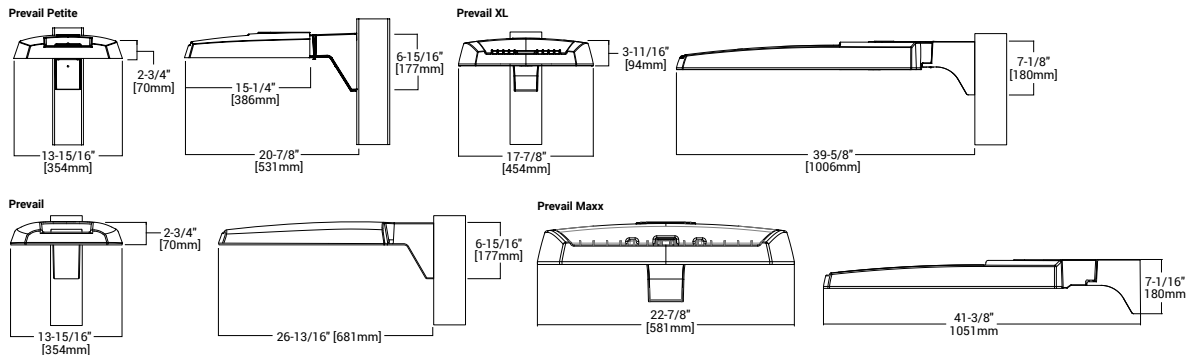
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details



NOTES:
1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Lumark

Prevail LED

Area / Site Luminaire

Product Features



Product Certifications



Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless



Job Name:

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-
[FINISH]/ SSS-5-7-30-DM10-[FINISH]-BC

Notes:

Type:

F1

WK25-45367

Lumark

Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Color Temperature	Driver	Voltage	Distribution	Mounting	Color
PRV-P =Prevail Petite BAA-PRV-P =Prevail Petite BAA Compliant ³ TAA-PRV-P =Prevail Petite TAA Compliant ³	C10 =(1 LED) 4,900 Nominal Lumens C15 =(1 LED) 8,900 Nominal Lumens C20 =(1 LED) 9,800 Nominal Lumens C25 =(1 LED) 11,800 Nominal Lumens	740 =70CRI, 4000K 750 =70CRI, 2700K 727 =70CRI, 3000K 730 =70CRI, 3000K 750 =70CRI, 5000K 8540 =85CRI, 4000K	D =Dimming (0-10V)	UNV =Universal (120-277V) H =High Voltage, 347-480V 8 =480V ⁵ 9 =347V DV =DuraVolt (277-480V) ^{5,6}	T2 =Type II T3 =Type III T4 =Type IV T5 =Type V	SA =QM Standard V =Versatile Arm MA =QM Mast Arm FMA = Fixed Mast Arm ²⁷ WM =QM Wall Mount Arm ADJA =QM Adjustable Arm-Wall Mount ²⁸ ADJA =Adjustable Arm-Pole Mount ²⁹ ADJS =Adjustable Arm-Slipfitter, 3" vertical tenon ²⁹ SP2 =Adjustable Arm-Slipfitter, 2 3/8" vertical tenon ^{27, 29}	BZ =Bronze AP =Grey BK =Black DP =Dark Platinum GM =Graphite Met =Metallic WH =White
PRV =Prevail BAA-PRV =Prevail BAA Compliant ³ TAA-PRV =Prevail TAA Compliant ³	C15 =(1 LED) 7,100 Nominal Lumens C25 =(2 LEDs) 13,100 Nominal Lumens C40 =(2 LEDs) 17,100 Nominal Lumens C60 =(2 LEDs) 20,000 Nominal Lumens						
PRV-XL =Prevail XL BAA-PRV-XL =Prevail XL BAA Compliant ³ TAA-PRV-XL =Prevail XL TAA Compliant ³	C75 =(4 LED) 26,100 Nominal Lumens C100 =(4 LED) 31,000 Nominal Lumens C125 =(4 LED) 36,000 Nominal Lumens C150 =(6 LED) 41,100 Nominal Lumens C175 =(6 LED) 48,600 Nominal Lumens						
PRV-M =Prevail Maxx BAA-PRV-M =Prevail Maxx BAA Compliant ³ TAA-PRV-M =Prevail MaxxTAA Compliant ³	C200 =(9 LED) 48,000 Nominal Lumens C225 =(9 LED) 56,000 Nominal Lumens C250 =(9 LED) 65,000 Nominal Lumens C275 =(9 LED) 73,000 Nominal Lumens						


Options (Add as Suffix)	Accessories (Order Separately) ^{28, 29}
7030=70 CRI / 3000K CCT ⁷ 7050=70 CRI / 5000K CCT ⁷ CC-Coastal Construction finish ¹⁰ HSS=House Side Shield ⁸ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right 10K=10KV/10KA UL 1449 Fused Surge Protective Device 20MSP=20KV MOV Surge Protective Device 20K=20KV UL 1449 Fused Surge Protective Device HA=50°C High Ambient Temperature ⁹ PR=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ FADC=Field Adjustable Dimming Controller ²⁰ MS/DIM-L08=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height ^{12, 13} MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting Height ^{12, 13} MS/DIM-L40=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting Height ^{12, 13}	PRVSA-XX=Standard Arm Mounting Kit ²² PRVMA-XX=Inast Arm Mounting Kit ²² PRVWM-XX=Wall Mount Kit ²² PRV-ADJX-XX=Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit ²² PRVXL-ADM-XX=Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX=Standard Arm Mounting Kit ²⁸ PRVXLM-XX=Inast Arm Mounting Kit ²⁸ PRVXLWM-XX=Wall Mount Kit ²⁸ PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁸ PRV-XL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁸ PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height ^{12, 14} SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting Height ^{12, 14} SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting Height ^{12, 14, 27, 28} WPS2XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12, 15, 17} WPS4XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12, 15, 17} WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ^{12, 15, 17} WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{12, 15, 17} (See Table Below)=LumenSafe Integrated Network Security Camera ^{16, 19}	MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238=Tenon Adapter from 3" to 2-3/8" PRV-COB-FDV=Full Drop Visor ²³ PRVXL-COB-FDV=Full Drop Visor ¹⁸ HS/VERD=House Side Shield Kit ^{4, 24} VGS-F/B=Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE=Vertical Glare Shield Kit, Side ²⁴ OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V OA/RA1021=NEMA Photocontrol - 347V OA/RA1027=NEMA Photocontrol - 480V FSIR-100=Wireless Configuration Tool for Occupancy Sensors ²⁵ WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) ²⁶

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WPV350010EN for additional support information.
3. Only product configurations with these designated preforms are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](http://www.domestic-preferences.com) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
4. Standard 4000K CCT and 70CRI.
5. 480V not to be used with ungrounded or impedance grounded systems.
6. Duravolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.sigflury.com/duravolt for more information.
7. Use dedicated IES files on product website for non-standard CCTs.
8. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package.
9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package.
10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
11. If Duravolt (DV) is specified, use a photocoat that matches the input voltage used.
12. Controls system is not available in combination with a photocontrol receptacle (PR & PER) or another controls system (MS or SPB). Option not available with Duravolt (DV) voltage option.
13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).

16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with Wavelength system and software and requires system components to be installed for operation. See website for more Wavelength application information.
17. Replace XX with sensor color (WH, BZ, or BK).
18. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
20. Replace XX with paint color.
21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
22. Not for use with PRV-XL or PRV-M configurations.
23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P.
24. Must order one per LED/Lighting when ordering as a field-installable accessory (1, 2, 4, 6 or 9).
25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
26. Requires 7-PIN NEMA twistlock photocoupler receptacle (PR & PER7) option. The WOLC-7 cannot be used in conjunction with other control systems (MS or LWR). Operates on 120-347V input voltages.
27. Only for use with PRV-M configurations.
28. Only for use with PRV-XL configurations.
29. Fixed for PRV-M.
30. Cannot be used with PR7 or other motion response control options

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul		
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card	V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	E=Ethernet Networking

Stock Ordering Information

Product Family ¹	Light Engine	Voltage	Distribution
PRVS =Prevail	C15 =(1 LED) 7,100 Nominal Lumens C25 =(2 LEDs) 13,100 Nominal Lumens C40 =(2 LEDs) 17,100 Nominal Lumens C60 =(2 LEDs) 20,000 Nominal Lumens	UNV =Universal (120-277V) 347 =347V ²	T3 =Type III T4 =Type IV
PRVS-XL =Prevail XL	C75 =(4 LED) 26,100 Nominal Lumens C100 =(4 LED) 31,000 Nominal Lumens C125 =(4 LED) 36,000 Nominal Lumens C150 =(6 LED) 41,100 Nominal Lumens C175 =(6 LED) 48,600 Nominal Lumens		

NOTES:

1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRVS configurations C15, C25, C40 or C60.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

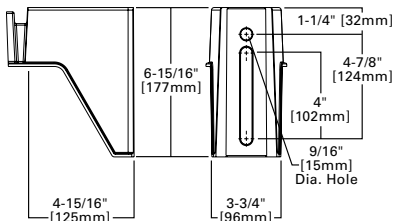
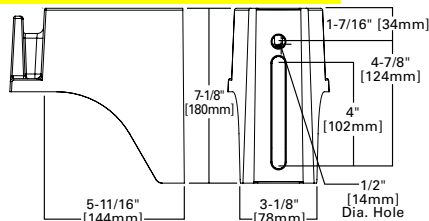
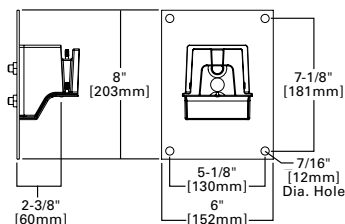
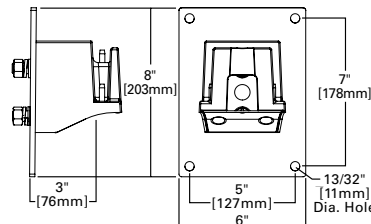
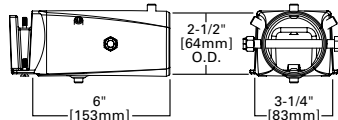
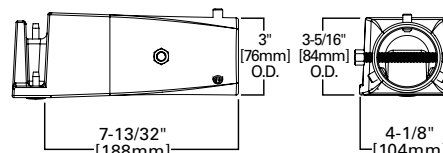
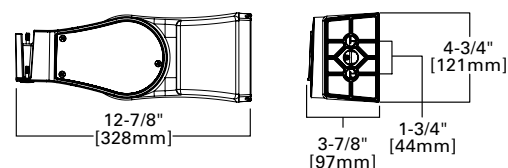
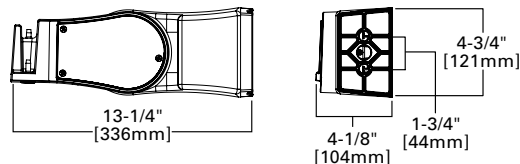
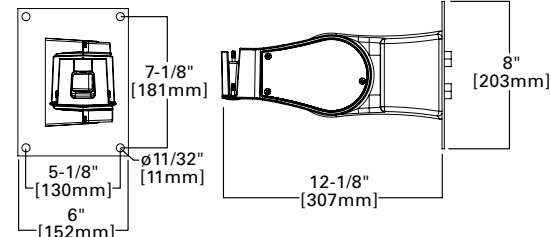
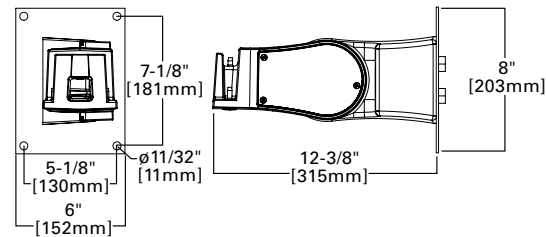
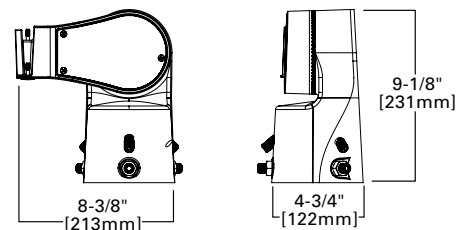
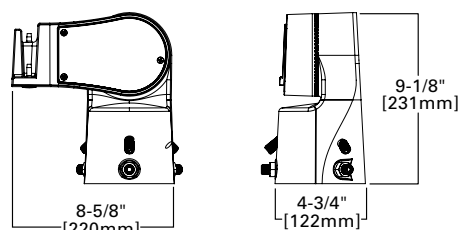
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Notes:

Type:**F1**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV & PRV-P)****SA=QM Pole Mount Arm (PRV-XL)****WM=QM Wall Mount Arm (PRV & PRV-P)****WM=QM Wall Mount Arm (PRV-XL)****MA=QM Mast Arm (PRV & PRV-P)****MA=QM Mast Arm (PRV-XL)****ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)****ADJA=Adjustable Arm Pole Mount (PRV-XL)****ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)****ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)****ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)****ADJS=Adjustable Slipfitter 3 (PRV-XL)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

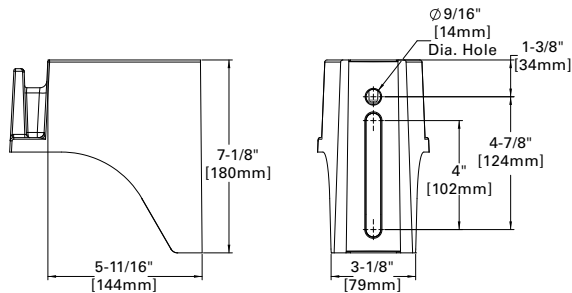
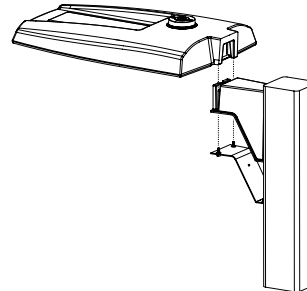
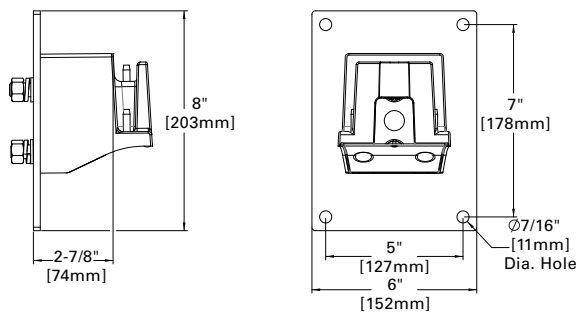
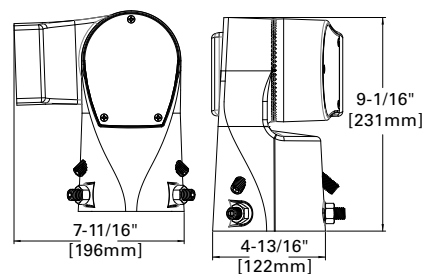
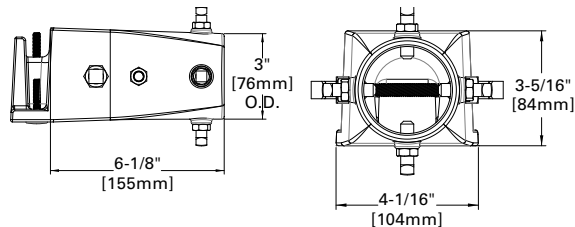
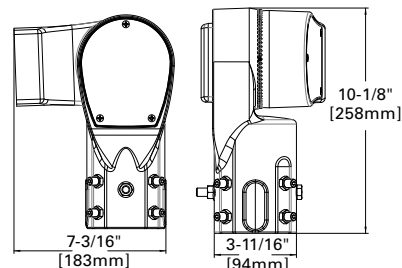
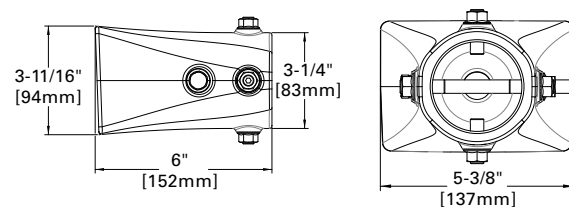
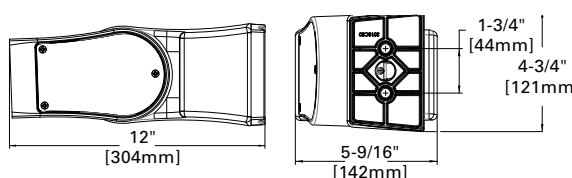
Catalog Number:

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Notes:

Type:**F1**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV-M)****Versatile Mount System****WM=QM Wall Mount Arm (PRV-M)****ADJS=Adjustable Slipfitter (PRV-M)****MA=QM Mast Arm (PRV-M)****SP2=Adjustable Slipfitter 2-3/8" (PRV-M)****FMA=Fixed Mast Arm (PRV-M)****DM=Direct Pole Mount Arm (PRV-M)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:


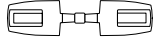

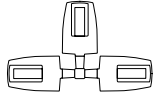
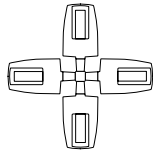
PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM10-[FINISH]-BC

Notes:**Type:****F1**

WK25-45367

Lumark**Prevail LED****Mounting Details****Mounting Configurations and EPAs**

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

						
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

PRV-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)



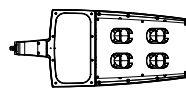
PRV-C15
(7,100 Nominal Lumens)



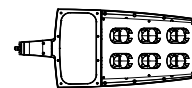
PRV-C25/C40/C60
(13,100/17,100/20,000
Nominal Lumens)



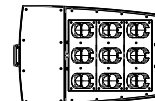
PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



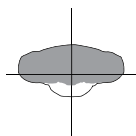
PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



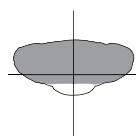
PRV-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)

**Optical Distributions**

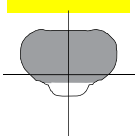
T2
(Type II)



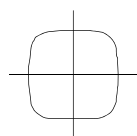
T3
(Type III)



T4
(Type IV)



T5
(Type V)



■ = Distribution with House Side Shield (HSS)

□ = Optical Distribution

Product Specifications**Construction**

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected.

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Lumark

Prevail LED

Energy and Performance Data

[View PRV-P IES files](#)

[View PRV IES files](#)

[View PRV-XL IES files](#)

Product Family		Prevail Petite				Prevail				Prevail XL					Prevail Maxx			
Light Engine		C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275
Power (Watts)		35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588
Input Current @ 120V (A)		0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90
Input Current @ 277V (A)		0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06
Input Current @ 347V (A)		0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70
Input Current @ 480V (A)		0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808
NOTES: 1. For 3000K, 5000K or HSS data, refer to published IES files.																		

Lumen Maintenance		
Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Lumen Multiplier	
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Sensor Color Reference Table (SPBx)	
Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

FADC Settings	
FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumark

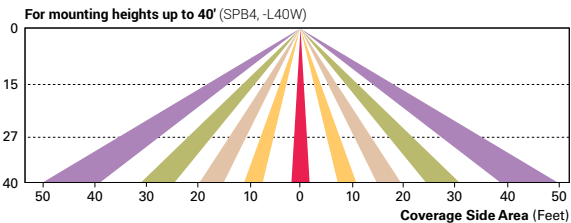
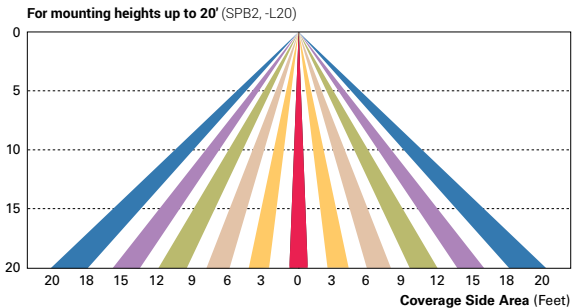
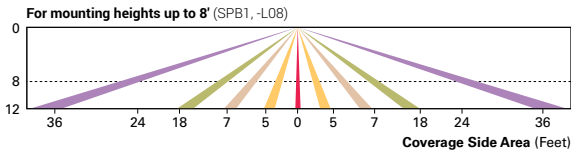
Prevail LED

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacles.

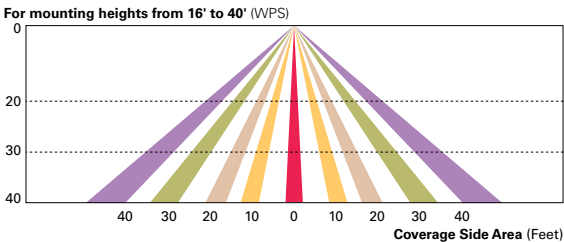
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/ SSS-5-7-30-DM10-[FINISH]-BC

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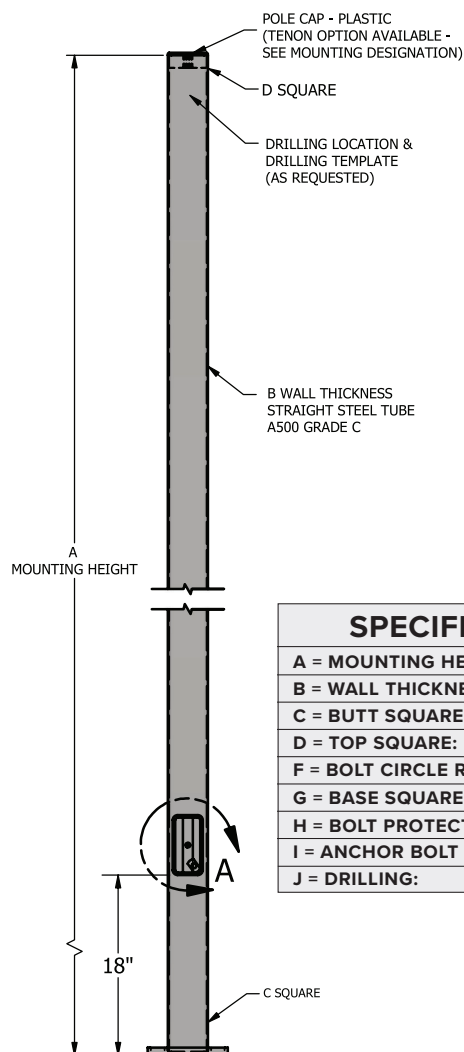
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WK25-45367

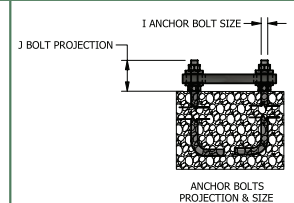
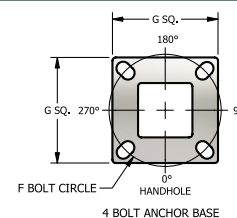
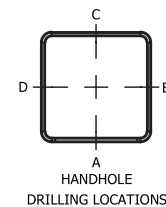
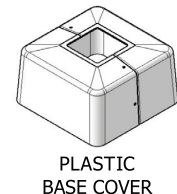
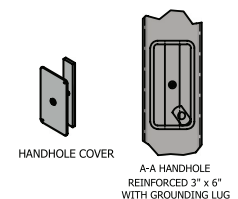
UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 7 GA.
C = BUTT SQUARE: 5"
D = TOP SQUARE: 5"
F = BOLT CIRCLE RANGE: 10" - 12"
G = BASE SQUARE: 11"
H = BOLT PROTECTION: 4" ± 1/4"
I = ANCHOR BOLT SIZE: 1" X 36" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE****HANDHOLE****2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 5 07 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 5 07 20	43.36	33.03	25.65	20.18	16.03	12.80	10.23
SSS 5 07 25	29.61	21.92	16.43	12.36	9.27	6.86	4.95
SSS 5 07 30	21.40	15.10	10.58	7.25	4.71	2.73	1.16

Project		Catalog #		Type	
Prepared by		Notes		Date	



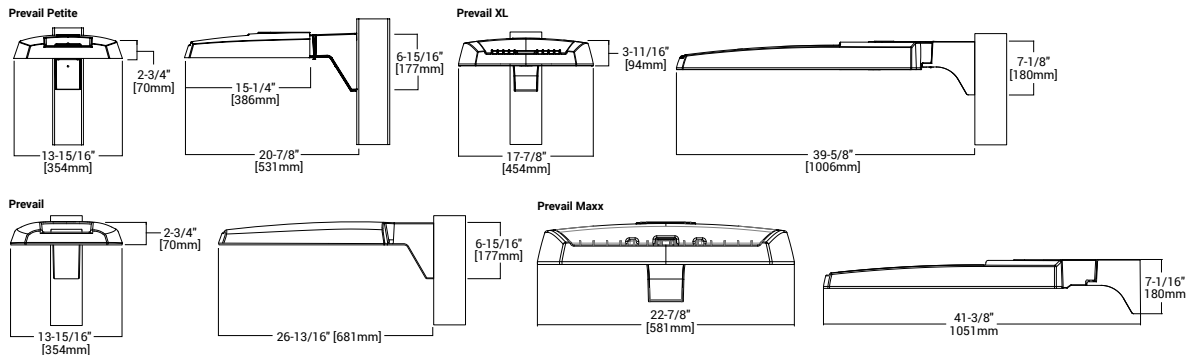
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details



NOTES:
1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Lumark

Prevail LED

Area / Site Luminaire

Product Features



Product Certifications



Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Lumark

Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Color Temperature	Driver	Voltage	Distribution	Mounting	Color										
PRV-P =Prevail Petite BAA-PRV-P =Prevail Petite BAA Compliant ³ TAA-PRV-P =Prevail Petite TAA Compliant ³	C10 =(1 LED) 4,900 Nominal Lumens C15 =(1 LED) 6,900 Nominal Lumens C20 =(1 LED) 9,800 Nominal Lumens C25 =(1 LED) 11,800 Nominal Lumens	740 =70CRI, 4000K 727 =70CRI, 2700K 730 =70CRI, 3000K 750 =70CRI, 5000K 8540 =85CRI, 4000K	D =Dimming (0-10V)	UNV =Universal (120-277V) H =High Voltage, 347-480V 8 =480V ⁵ 9 =347V DV =DuraVolt (277-480V) ^{5,6}	T2 =Type II T3 =Type III T4=Type IV T5 =Type V	SA =QM Standard Versatile Arm MA =QM Mast Arm FMA = Fixed Mast Arm ²⁷ WM =QM Wall Mount Arm ADJA-WM =Adjustable Arm-Wall Mount ²⁹ ADJA =Adjustable Arm-Pole Mount ²⁹ ADJS =Adjustable Arm-Slipfitter, 3" vertical tenon ²⁹ SP2 =Adjustable Arm-Slipfitter, 2 3/8" vertical tenon ^{27,29}	BZ =Bronze AP =Grey BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White										
PRV =Prevail BAA-PRV =Prevail BAA Compliant ³ TAA-PRV =Prevail TAA Compliant ³	C15 =(1 LED) 7,100 Nominal Lumens C25 =(2 LEDs) 13,100 Nominal Lumens C40 =(2 LEDs) 17,100 Nominal Lumens C60 =(2 LEDs) 20,000 Nominal Lumens																
PRV-XL =Prevail XL BAA-PRV-XL =Prevail XL BAA Compliant ³ TAA-PRV-XL =Prevail XL TAA Compliant ³	C75 =(4 LED) 26,100 Nominal Lumens C100 =(4 LED) 31,000 Nominal Lumens C125 =(4 LED) 36,000 Nominal Lumens C150 =(6 LED) 41,100 Nominal Lumens C175 =(6 LED) 48,600 Nominal Lumens																
PRV-M =Prevail Maxx BAA-PRV-M =Prevail Maxx BAA Compliant ³ TAA-PRV-M =Prevail MaxxTAA Compliant ³	C200 =(9 LED) 48,000 Nominal Lumens C225 =(9 LED) 56,000 Nominal Lumens C250 =(9 LED) 65,000 Nominal Lumens C275 =(9 LED) 73,000 Nominal Lumens																
Options (Add as Suffix)			Accessories (Order Separately) ^{28,21}														
7030 =70 CRI / 3000K CCT ⁷ 7050 =70 CRI / 5000K CCT ⁷ CC =Coastal Construction finish ¹⁰ HSS =House Side Shield ⁴ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right 10K =10kV/10kA UL 1449 Fused Surge Protective Device 20MSP =20kV MOV Surge Protective Device 20K =20kV UL 1449 Fused Surge Protective Device HA =50°C High Ambient Temperature ⁹ PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ FADC =Field Adjustable Dimming Controller ²⁰ MS/DIM-L08 =Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8" Mounting Height ^{12,13} MS/DIM-L20 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 8" - 20" Mounting Height ^{12,13} MS/DIM-L40 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 21" - 40" Mounting Height ^{12,13}			SPB1 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8" Mounting Height ^{12,14} SPB2 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8" - 20" Mounting Height ^{12,14} SPB4 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21" - 40" Mounting Height ^{12,14,27,28} WPS2XX =WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7" - 15" Mounting ^{12,15,16,17} WPS4XX =WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15" - 40" Mounting ^{12,15,16,17} WLS2XX =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7" - 15" Mounting ^{12,15,16,17} WLS4XX =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15" - 40" Mounting ^{12,15,16,17} (See Table Below)=LumenSafe Integrated Network Security Camera ^{16,19}					PRVSA-XX =Standard Arm Mounting Kit ²² PRVMA-XX =Mast Arm Mounting Kit ²² PRVWM-XX =Wall Mount Kit ²² PRV-ADJA-XX =Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX =Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX =Standard Arm Mounting Kit ²⁸ PRVXLSMA-XX =Mast Arm Mounting Kit ²⁸ PRVXLWM-XX =Wall Mount Kit ²⁸ PRV-XL-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁸ PRV-XL-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁸ PRV-M-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon					MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238 =Tenon Adapter from 3" to 2-3/8" PRV/COB-FDV =Full Drop Visor ²³ PRVXL/COB-FDV =Full Drop Visor ¹⁸ HS/VERD =House Side Shield Kit ^{4,24} VGS-FVB = Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE =Vertical Glare Shield Kit, Side ²⁴ OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A =WaveLinx Outdoor Control Module (7-PIN) ²⁶				
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1993 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.designlights.org website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Standard 4000K CCT and 70CRI. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. Use dedicated IES files on product website for non-standard CCTs. 8. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package. 9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package. 10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 11. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 12. Controls system is not available in combination with a photocontrol receptacle (PR & PER7) or another controls system (MS or SPB). Option not available with DuraVolt (DV) voltage option. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 17. Replace XX with sensor color (WH, BZ, or BK). 18. Only available in PRV-XL configurations C75, C100, C125, C150, or C175. 19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9). 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR & PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Operates on 120-347V input voltages. 27. Only for use with PRV-M configurations. 28. Only for use with PRV-XL configurations. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options																	

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul		
L=LumenSafe Technology	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card	V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	E=Ethernet Networking

Stock Ordering Information

Product Family ¹	Light Engine	Voltage	Distribution
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V ²	T3=Type III T4=Type IV
PRVS-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens		
NOTES: 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. 2. Only available in PRVS configurations C15, C25, C40 or C60.			

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

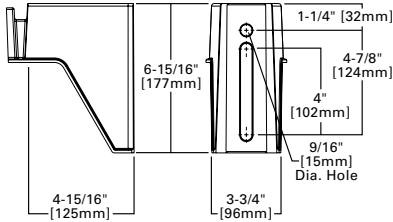
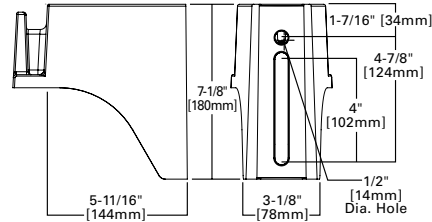
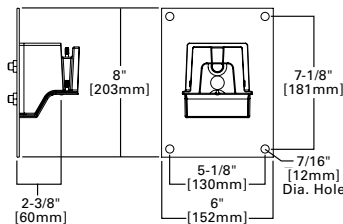
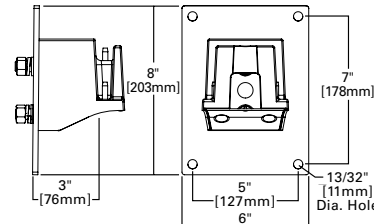
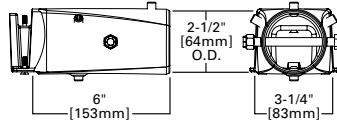
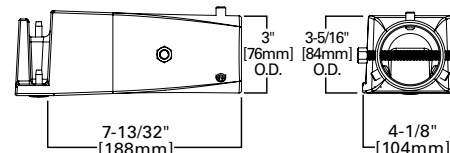
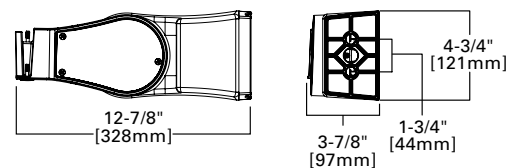
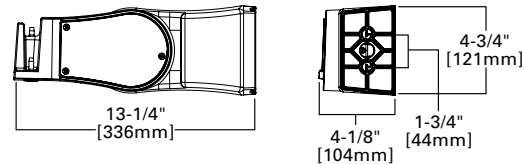
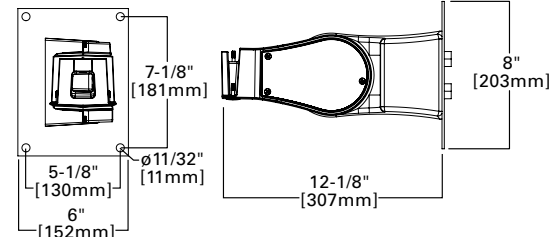
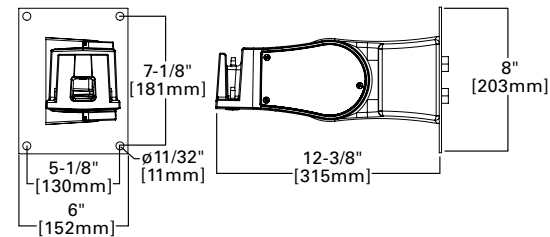
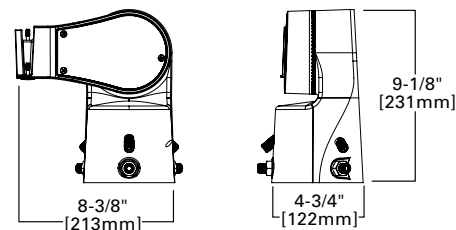
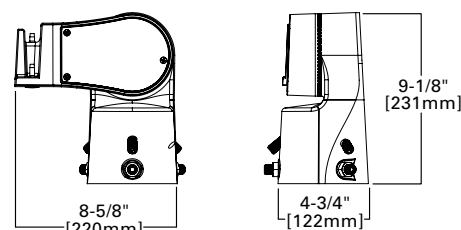
Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
SSS-5-7-30-DM218-[FINISH]-BC

Notes:

Type:**F1B**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV & PRV-P)****SA=QM Pole Mount Arm (PRV-XL)****WM=QM Wall Mount Arm (PRV & PRV-P)****WM=QM Wall Mount Arm (PRV-XL)****MA=QM Mast Arm (PRV & PRV-P)****MA=QM Mast Arm (PRV-XL)****ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)****ADJA=Adjustable Arm Pole Mount (PRV-XL)****ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)****ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)****ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)****ADJS=Adjustable Slipfitter 3 (PRV-XL)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

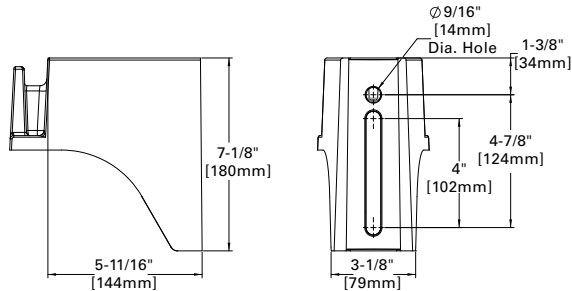
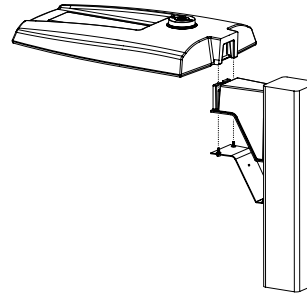
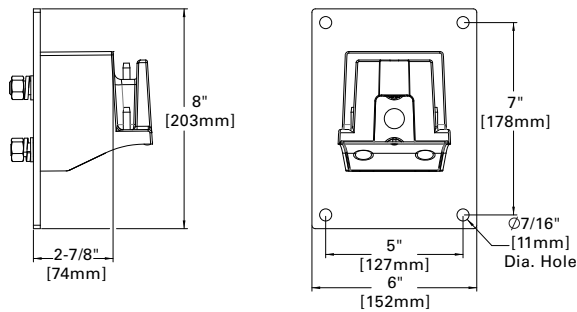
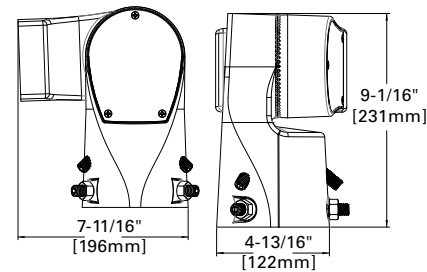
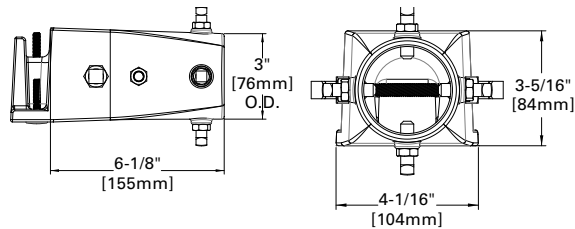
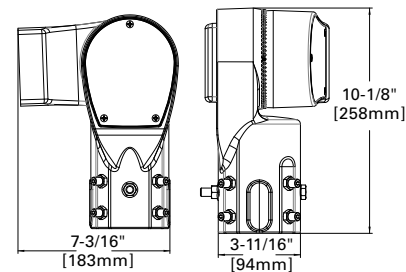
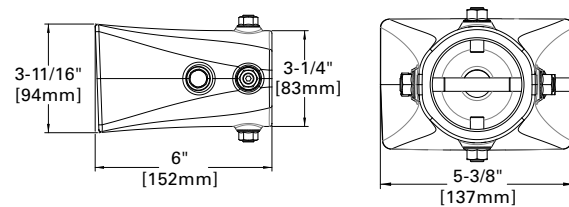
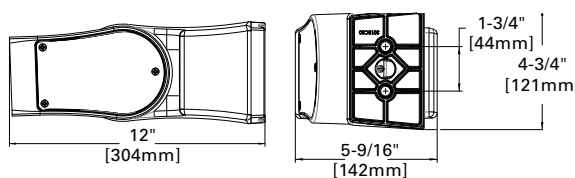
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SSS-5-7-30-DM218-[FINISH]-BC

Notes:

Type:**F1B**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV-M)****Versatile Mount System****WM=QM Wall Mount Arm (PRV-M)****ADJS=Adjustable Slipfitter (PRV-M)****MA=QM Mast Arm (PRV-M)****SP2=Adjustable Slipfitter 2-3/8" (PRV-M)****FMA=Fixed Mast Arm (PRV-M)****DM=Direct Pole Mount Arm (PRV-M)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:



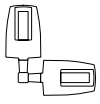
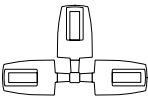
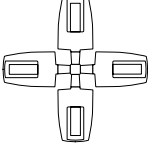
PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/SSS-5-7-30-DM218-[FINISH]-BC

Notes:**Type:****F1B**

WK25-45367

Lumark**Prevail LED****Mounting Details****Mounting Configurations and EPAs**

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

						
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

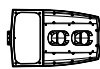
PRV-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)



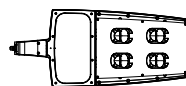
PRV-C15
(7,100 Nominal Lumens)



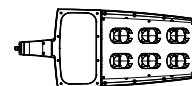
PRV-C25/C40/C60
(13,100/17,100/20,000
Nominal Lumens)



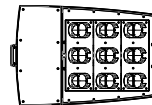
PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



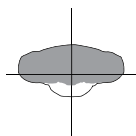
PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



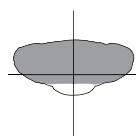
PRV-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)

**Optical Distributions**

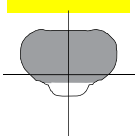
T2
(Type II)



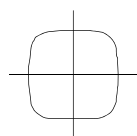
T3
(Type III)



T4
(Type IV)



T5
(Type V)



■ = Distribution with House Side Shield (HSS)

□ = Optical Distribution

Product Specifications**Construction**

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected.

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Lumark

Prevail LED

Energy and Performance Data

Power and Lumens

[View PRV-P IES files](#)

[View PRV IES files](#)

[View PRV-XL IES files](#)

Product Family		Prevail Petite				Prevail				Prevail XL				Prevail Maxx				
Light Engine		C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275
Power (Watts)		35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588
Input Current @ 120V (A)		0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90
Input Current @ 277V (A)		0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06
Input Current @ 347V (A)		0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70
Input Current @ 480V (A)		0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumark

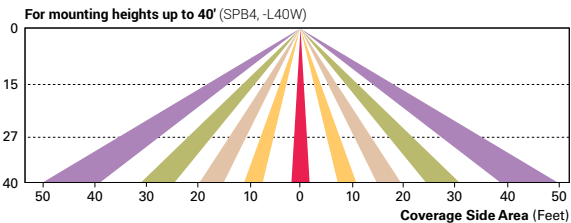
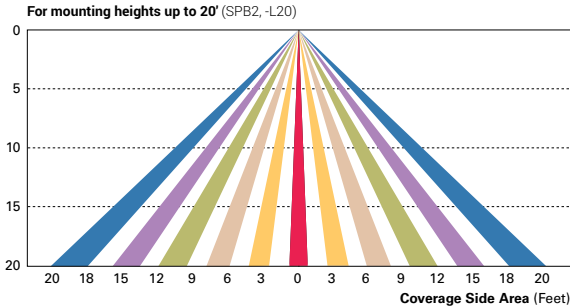
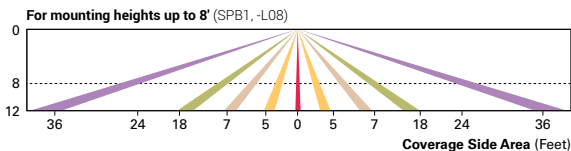
Prevail LED

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacles.

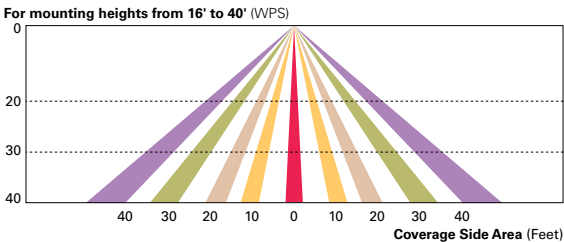
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
 SSS-5-7-30-DM218-[FINISH]-BC

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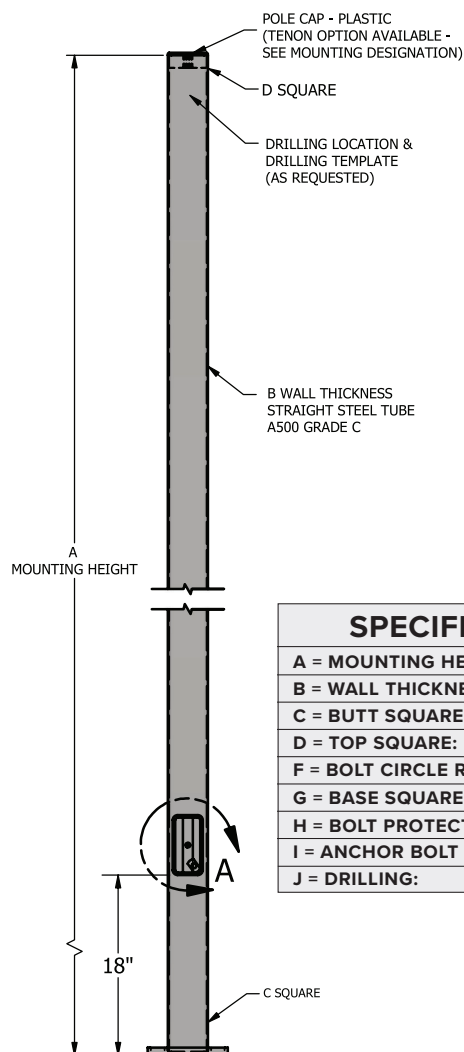
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WK25-45367

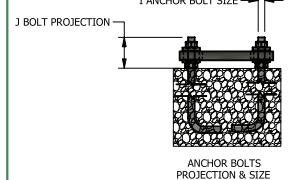
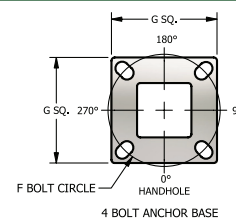
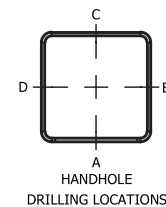
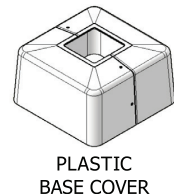
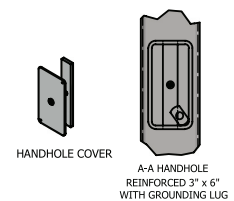
UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 7 GA.
C = BUTT SQUARE: 5"
D = TOP SQUARE: 5"
F = BOLT CIRCLE RANGE: 10" - 12"
G = BASE SQUARE: 11"
H = BOLT PROTECTION: 4" ± 1/4"
I = ANCHOR BOLT SIZE: 1" X 36" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**PLASTIC
BASE COVER**HANDHOLE****2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 5 07 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 5 07 20	43.36	33.03	25.65	20.18	16.03	12.80	10.23
SSS 5 07 25	29.61	21.92	16.43	12.36	9.27	6.86	4.95
SSS 5 07 30	21.40	15.10	10.58	7.25	4.71	2.73	1.16

Project		Catalog #		Type	
Prepared by		Notes		Date	



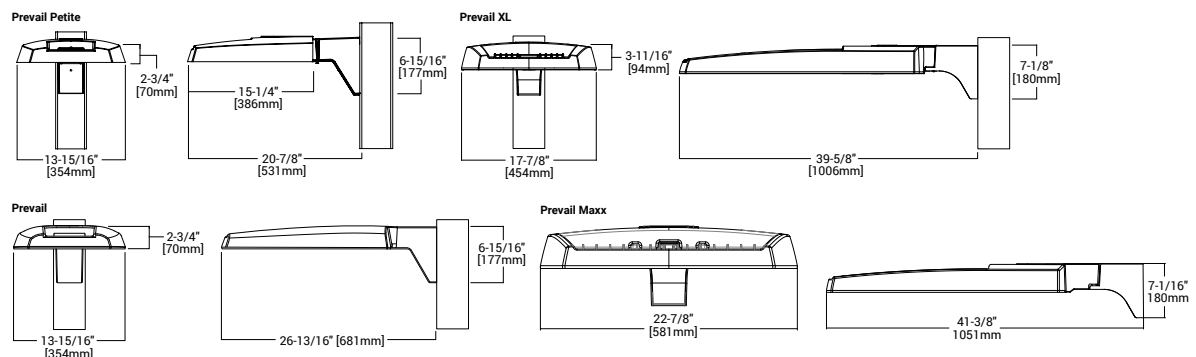
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details



NOTES:
1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Lumark

Prevail LED

Area / Site Luminaire

Product Features



Product Certifications



Connected Systems

- WaveLinX PRO Wireless
- WaveLinX LITE Wireless

Lumark

Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Color Temperature	Driver	Voltage	Distribution	Mounting	Color										
PRV-P=Prevail Petite BAA-PRV-P=Prevail Petite BAA Compliant ³ TAA-PRV-P=Prevail Petite TAA Compliant ³	C10=(1 LED) 4,900 Nominal Lumens C15=(1 LED) 6,900 Nominal Lumens C20=(1 LED) 9,800 Nominal Lumens C25=(1 LED) 11,800 Nominal Lumens	740=70CRI, 4000K 727=70CRI, 2700K 730=70CRI, 3000K 750=70CRI, 5000K 8540=85CRI, 4000K	D=Dimming (0-10V)	UNV=Universal (120-277V) H=High Voltage, 347-480V 8=480V ⁵ 9=347V DV=DuraVolt (277-480V) ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=QM Standard Versatile Arm MA=QM Mast Arm FMA= Fixed Mast Arm ²⁷ WM=QM Wall Mount Arm ADJA-WM=Adjustable Arm-Wall Mount ²⁹ ADJA=Adjustable Arm-Pole Mount ²⁹ ADJS=Adjustable Arm-Slipfitter, 3" vertical tenon ²⁹ SP2=Adjustable Arm-Slipfitter, 2 3/8" vertical tenon ^{27,29}	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White										
PRV=Prevail BAA-PRV=Prevail BAA Compliant ³ TAA-PRV=Prevail TAA Compliant ³	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens																
PRV-XL=Prevail XL BAA-PRV-XL=Prevail XL BAA Compliant ³ TAA-PRV-XL=Prevail XL TAA Compliant ³	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens																
PRV-M=Prevail Maxx BAA-PRV-M=Prevail Maxx BAA Compliant ³ TAA-PRV-M=Prevail MaxxTAA Compliant ³	C200=(9 LED) 48,000 Nominal Lumens C225=(9 LED) 56,000 Nominal Lumens C250=(9 LED) 65,000 Nominal Lumens C275=(9 LED) 73,000 Nominal Lumens																
Options (Add as Suffix)			Accessories (Order Separately) ^{28,21}														
7030 =70 CRI / 3000K CCT ⁷ 7050 =70 CRI / 5000K CCT ⁷ CC =Coastal Construction finish ¹⁰ HSS =House Side Shield ⁴ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right 10K =10kV/10kA UL 1449 Fused Surge Protective Device 20MSP =20kV MOV Surge Protective Device 20K =20kV UL 1449 Fused Surge Protective Device HA =50°C High Ambient Temperature ⁹ PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ FADC =Field Adjustable Dimming Controller ²⁰ MS/DIM-L08 =Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8" Mounting Height ^{12,13} MS/DIM-L20 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 8" - 20" Mounting Height ^{12,13} MS/DIM-L40 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 21" - 40" Mounting Height ^{12,13}			SPB1 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8" Mounting Height ^{12,14} SPB2 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8" - 20" Mounting Height ^{12,14} SPB4 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21" - 40" Mounting Height ^{12,14,27,28} WPS2XX =WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7" - 15" Mounting ^{12,15,16,17} WPS4XX =WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15" - 40" Mounting ^{12,15,16,17} WLS2XX =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7" - 15" Mounting ^{12,15,16,17} WLS4XX =WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15" - 40" Mounting ^{12,15,16,17} (See Table Below) =LumenSafe Integrated Network Security Camera ^{16,19}					PRVSA-XX =Standard Arm Mounting Kit ²² PRVMA-XX =Mast Arm Mounting Kit ²² PRVWM-XX =Wall Mount Kit ²² PRV-ADJA-XX =Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX =Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX =Standard Arm Mounting Kit ²⁸ PRVXLSMA-XX =Mast Arm Mounting Kit ²⁸ PRVXLWM-XX =Wall Mount Kit ²⁸ PRV-XL-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁸ PRV-XL-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁸ PRV-M-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon					MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238 =Tenon Adapter from 3" to 2-3/8" PRV/COB-FDV =Full Drop Visor ²³ PRVXL/COB-FDV =Full Drop Visor ¹⁸ HS/VERD =House Side Shield Kit ^{4,24} VGS-FIB =Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE =Vertical Glare Shield Kit, Side ²⁴ OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A =WaveLinx Outdoor Control Module (7-PIN) ²⁶				
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1993 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.designlights.org website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Standard 4000K CCT and 70CRI. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. Use dedicated IES files on product website for non-standard CCTs. 8. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package. 9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package. 10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 11. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 12. Controls system is not available in combination with a photocontrol receptacle (PR & PER7) or another controls system (MS or SPB). Option not available with DuraVolt (DV) voltage option. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. 17. Replace XX with sensor color (WH, BZ, or BK). 18. Only available in PRV-XL configurations C75, C100, C125, C150, or C175. 19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9). 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR & PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Operates on 120-347V input voltages. 27. Only for use with PRV-M configurations. 28. Only for use with PRV-XL configurations. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options																	

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul		
L=LumenSafe Technology	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card	V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	E=Ethernet Networking

Stock Ordering Information

Product Family ¹	Light Engine	Voltage	Distribution
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V ²	T3=Type III T4=Type IV
PRVS-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens		
NOTES: 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. 2. Only available in PRVS configurations C15, C25, C40 or C60.			

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

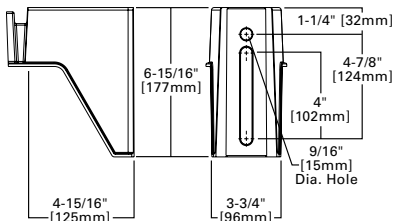
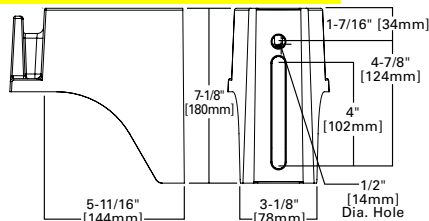
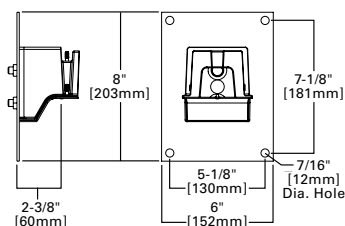
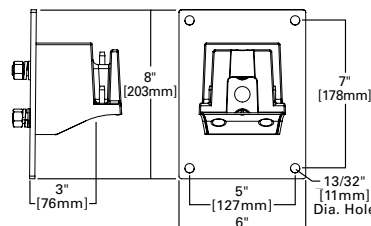
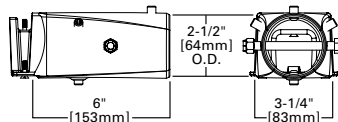
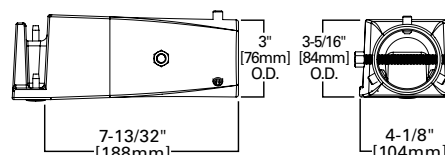
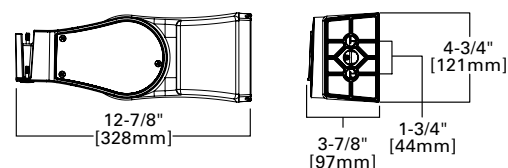
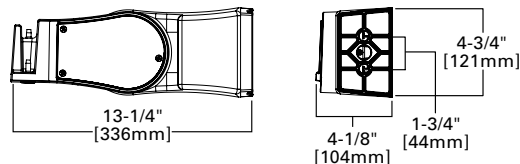
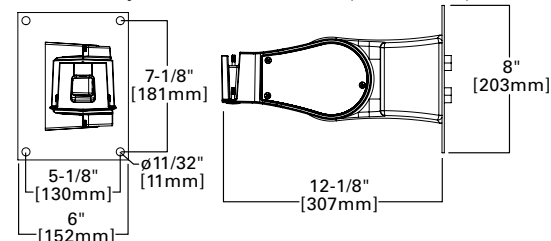
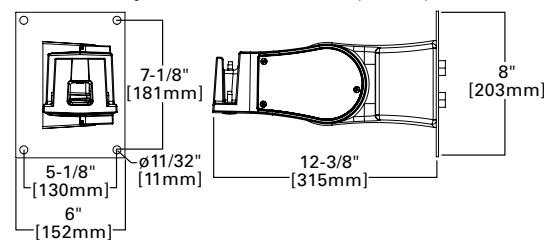
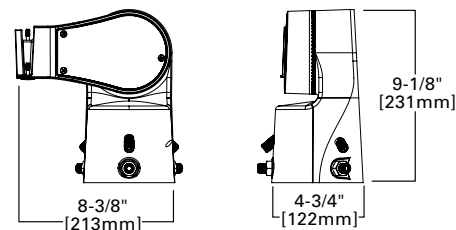
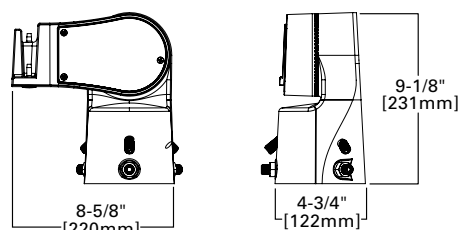
Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
SSS-5-7-30-DM390-[FINISH]-BC

Notes:

Type:**F1C**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV & PRV-P)****SA=QM Pole Mount Arm (PRV-XL)****WM=QM Wall Mount Arm (PRV & PRV-P)****WM=QM Wall Mount Arm (PRV-XL)****MA=QM Mast Arm (PRV & PRV-P)****MA=QM Mast Arm (PRV-XL)****ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)****ADJA=Adjustable Arm Pole Mount (PRV-XL)****ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)****ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)****ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)****ADJS=Adjustable Slipfitter 3 (PRV-XL)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

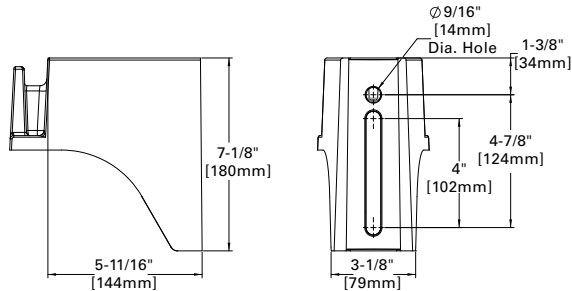
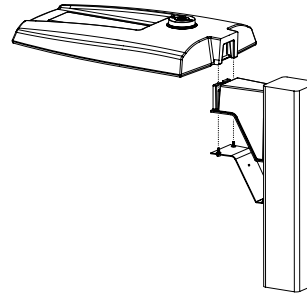
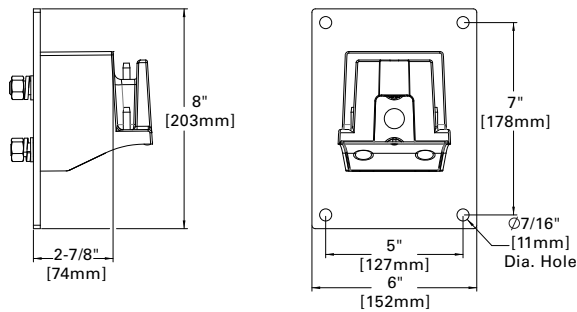
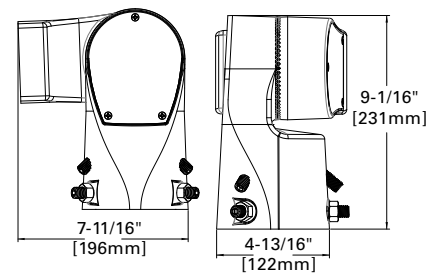
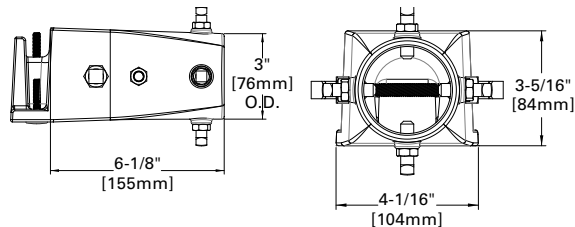
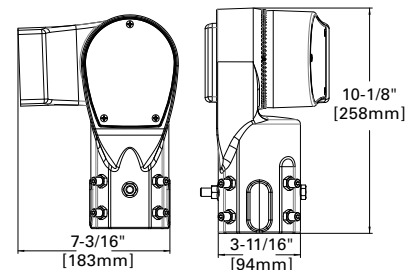
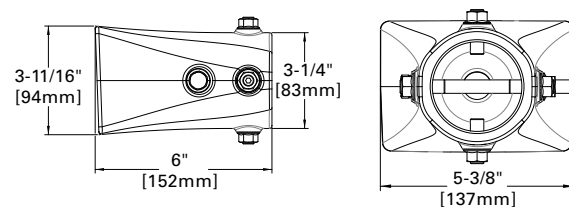
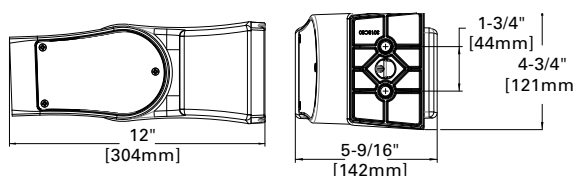
Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
SSS-5-7-30-DM390-[FINISH]-BC

Notes:

Type:**F1C**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV-M)****Versatile Mount System****WM=QM Wall Mount Arm (PRV-M)****ADJS=Adjustable Slipfitter (PRV-M)****MA=QM Mast Arm (PRV-M)****SP2=Adjustable Slipfitter 2-3/8" (PRV-M)****FMA=Fixed Mast Arm (PRV-M)****DM=Direct Pole Mount Arm (PRV-M)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:


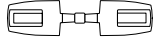

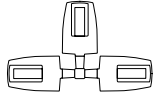
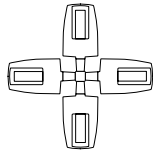
PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/SSS-5-7-30-DM390-[FINISH]-BC

Notes:**Type:****F1C**

WK25-45367

Lumark**Prevail LED****Mounting Details****Mounting Configurations and EPAs**

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

						
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

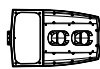
PRV-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)



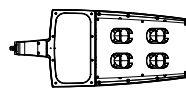
PRV-C15
(7,100 Nominal Lumens)



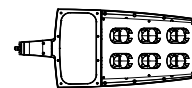
PRV-C25/C40/C60
(13,100/17,100/20,000
Nominal Lumens)



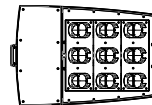
PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



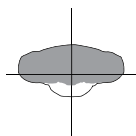
PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



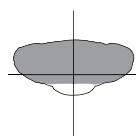
PRV-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)

**Optical Distributions**

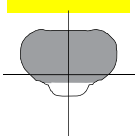
T2
(Type II)



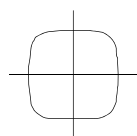
T3
(Type III)



T4
(Type IV)



T5
(Type V)



■ = Distribution with House Side Shield (HSS)

□ = Optical Distribution

Product Specifications**Construction**

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected.

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Lumark

Prevail LED

Energy and Performance Data

Power and Lumens

 View PRV-P IES files

 View PRV IES files

 View PRV-XL IES files

Product Family		Prevail Petite				Prevail				Prevail XL					Prevail Maxx			
Light Engine		C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275
Power (Watts)		35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588
Input Current @ 120V (A)		0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90
Input Current @ 277V (A)		0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06
Input Current @ 347V (A)		0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70
Input Current @ 480V (A)		0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumark

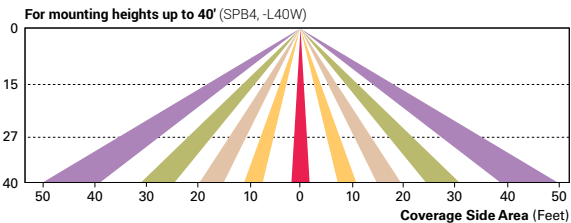
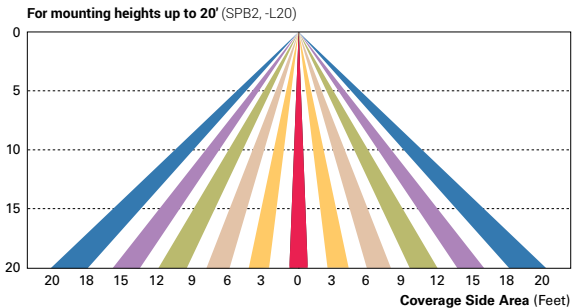
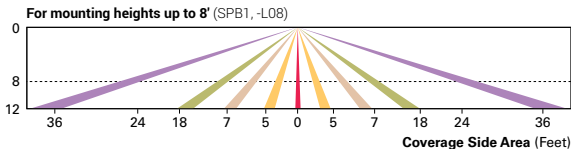
Prevail LED

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacles.

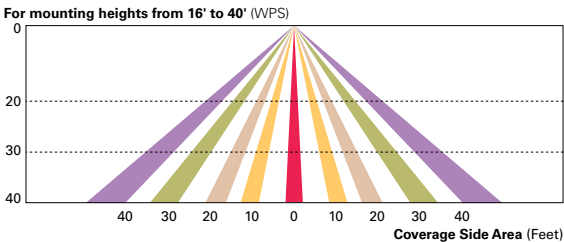
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
 SSS-5-7-30-DM390-[FINISH]-BC

Notes:

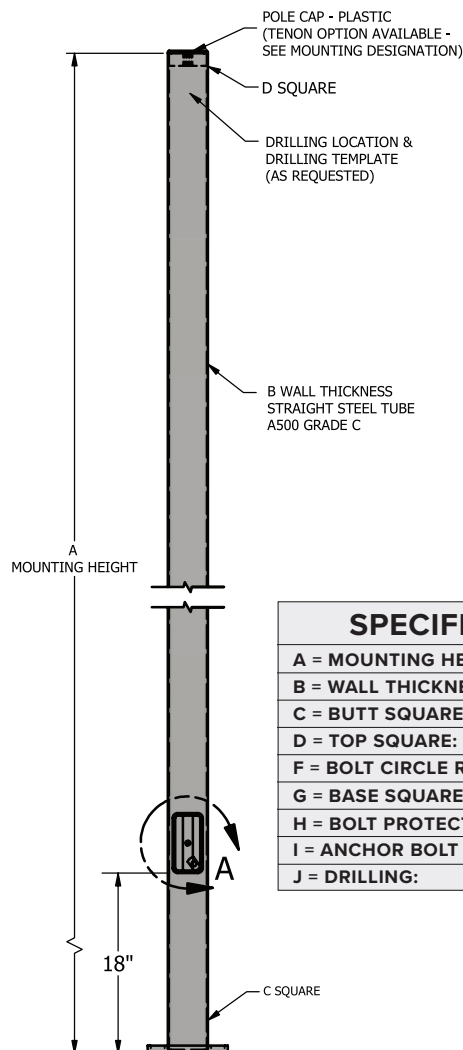
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WK25-45367

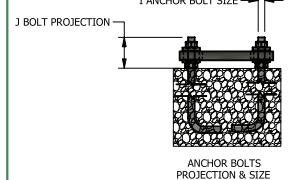
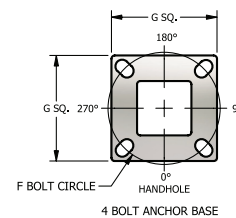
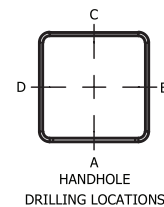
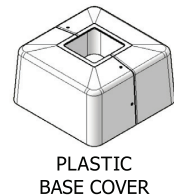
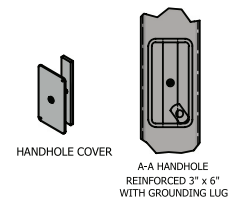
UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 7 GA.
C = BUTT SQUARE: 5"
D = TOP SQUARE: 5"
F = BOLT CIRCLE RANGE: 10" - 12"
G = BASE SQUARE: 11"
H = BOLT PROTECTION: 4" ± 1/4"
I = ANCHOR BOLT SIZE: 1" X 36" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE****HANDHOLE****2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 5 07 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 5 07 20	43.36	33.03	25.65	20.18	16.03	12.80	10.23
SSS 5 07 25	29.61	21.92	16.43	12.36	9.27	6.86	4.95
SSS 5 07 30	21.40	15.10	10.58	7.25	4.71	2.73	1.16

Project		Catalog #		Type	
Prepared by		Notes		Date	



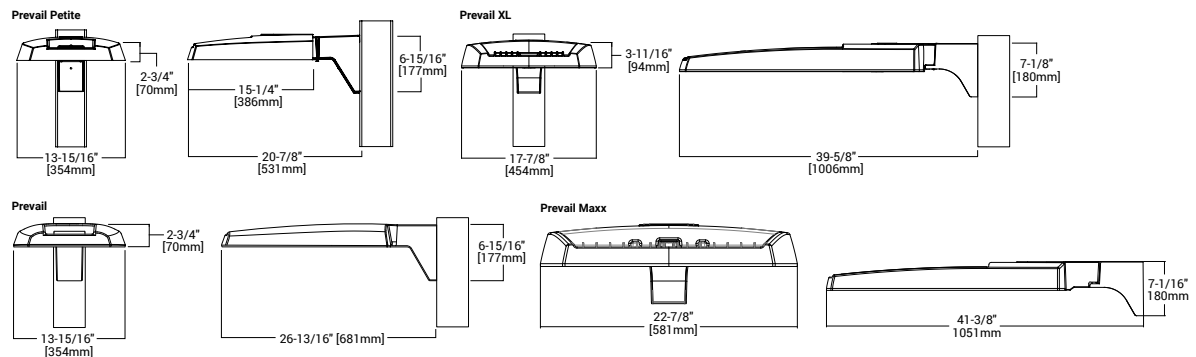
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details



NOTES:
1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Lumark

Prevail LED

Area / Site Luminaire

Product Features



Product Certifications



Connected Systems

- WaveLinX PRO Wireless
- WaveLinX LITE Wireless

Lumark

Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Color Temperature	Driver	Voltage	Distribution	Mounting	Color										
PRV-P=Prevail Petite BAA-PRV-P=Prevail Petite BAA Compliant ³ TAA-PRV-P=Prevail Petite TAA Compliant ³	C10=(1 LED) 4,900 Nominal Lumens C15=(1 LED) 6,900 Nominal Lumens C20=(1 LED) 9,800 Nominal Lumens C25=(1 LED) 11,800 Nominal Lumens	740=70CRI, 4000K 727=70CRI, 2700K 730=70CRI, 3000K 750=70CRI, 5000K 8540=85CRI, 4000K	D=Dimming (0-10V)	UNV=Universal (120-277V) H=High Voltage, 347-480V 8=480V ⁵ 9=347V DV=DuraVolt (277-480V) ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=QM Standard Versatile Arm MA=QM Mast Arm FMA= Fixed Mast Arm ²⁷ WM=QM Wall Mount Arm ADJA-WM=Adjustable Arm-Wall Mount ²⁹ ADJA=Adjustable Arm-Pole Mount ²⁹ ADJS=Adjustable Arm-Slipfitter, 3" vertical tenon ²⁹ SP2=Adjustable Arm-Slipfitter, 2 3/8" vertical tenon ^{27,29}	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White										
PRV=Prevail BAA-PRV=Prevail BAA Compliant ³ TAA-PRV=Prevail TAA Compliant ³	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens																
PRV-XL=Prevail XL BAA-PRV-XL=Prevail XL BAA Compliant ³ TAA-PRV-XL=Prevail XL TAA Compliant ³	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens																
PRV-M=Prevail Maxx BAA-PRV-M=Prevail Maxx BAA Compliant ³ TAA-PRV-M=Prevail MaxxTAA Compliant ³	C200=(9 LED) 48,000 Nominal Lumens C225=(9 LED) 56,000 Nominal Lumens C250=(9 LED) 65,000 Nominal Lumens C275=(9 LED) 73,000 Nominal Lumens																
Options (Add as Suffix)			Accessories (Order Separately) ^{20,21}														
7030 =70 CRI / 3000K CCT ⁷ 7050 =70 CRI / 5000K CCT ⁷ CC =Coastal Construction finish ¹⁰ HSS =House Side Shield ⁴ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right 10K =10kV/10kA UL 1449 Fused Surge Protective Device 20MSP =20kV MOV Surge Protective Device 20K =20kV UL 1449 Fused Surge Protective Device HA =50°C High Ambient Temperature ⁹ PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ FADC =Field Adjustable Dimming Controller ²⁰ MS/DIM-L08 =Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8" Mounting Height ^{12,13} MS/DIM-L20 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 8" - 20" Mounting Height ^{12,13} MS/DIM-L40 =Dimming Motion and Daylight Sensor, IR Remote Programmable, 21" - 40" Mounting Height ^{12,13}			SPB1 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8" Mounting Height ^{12,14} SPB2 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8" - 20" Mounting Height ^{12,14} SPB4 =Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21" - 40" Mounting Height ^{12,14,27,28} WPS2XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7" - 15" Mounting ^{12,15,16,17} WPS4XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15" - 40" Mounting ^{12,15,16,17} WLS2XX =WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7" - 15" Mounting ^{12,15,16,17} WLS4XX =WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15" - 40" Mounting ^{12,15,16,17} (See Table Below)=LumenSafe Integrated Network Security Camera ^{16,19}					PRVSA-XX =Standard Arm Mounting Kit ²² PRVMA-XX =Mast Arm Mounting Kit ²² PRVWM-XX =Wall Mount Kit ²² PRV-ADJA-XX =Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX =Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX =Standard Arm Mounting Kit ²⁸ PRVXLSMA-XX =Mast Arm Mounting Kit ²⁸ PRVXLWM-XX =Wall Mount Kit ²⁸ PRV-XL-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁸ PRV-XL-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁸ PRV-M-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon					MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238 =Tenon Adapter from 3" to 2-3/8" PRV/COB-FDV =Full Drop Visor ²³ PRVXL/COB-FDV =Full Drop Visor ¹⁸ HS/VERD =House Side Shield Kit ^{4,24} VGS-FIB =Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE =Vertical Glare Shield Kit, Side ²⁴ OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A =WaveLinX Outdoor Control Module (7-PIN) ²⁶				
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1993 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.designlights.org website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Standard 4000K CCT and 70CRI. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. Use dedicated IES files on product website for non-standard CCTs. 8. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package. 9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package. 10. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 11. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 12. Controls system is not available in combination with a photocontrol receptacle (PR & PER7) or another controls system (MS or SPB). Option not available with DuraVolt (DV) voltage option. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 17. Replace XX with sensor color (WH, BZ, or BK). 18. Only available in PRV-XL configurations C75, C100, C125, C150, or C175. 19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9). 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR & PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Operates on 120-347V input voltages. 27. Only for use with PRV-M configurations. 28. Only for use with PRV-XL configurations. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options																	

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul		
L=LumenSafe Technology	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card	V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	E=Ethernet Networking

Stock Ordering Information

Product Family ¹	Light Engine	Voltage	Distribution
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V ²	T3=Type III T4=Type IV
PRVS-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens		
NOTES: 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. 2. Only available in PRVS configurations C15, C25, C40 or C60.			

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

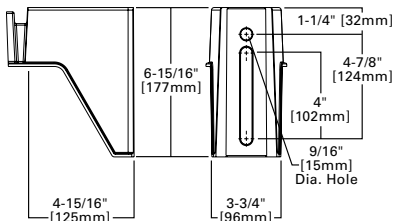
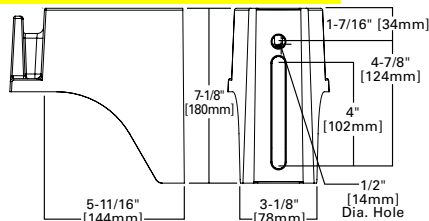
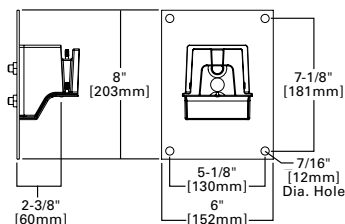
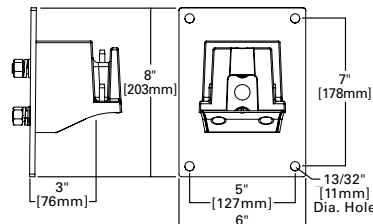
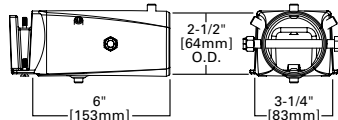
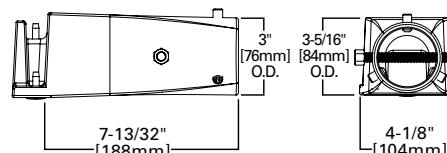
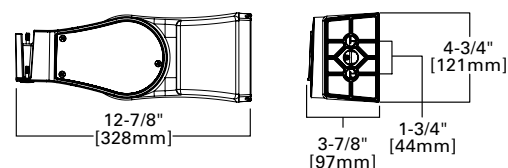
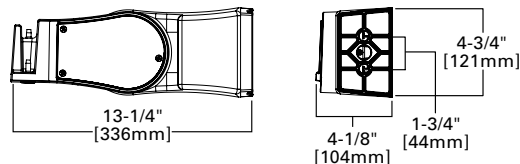
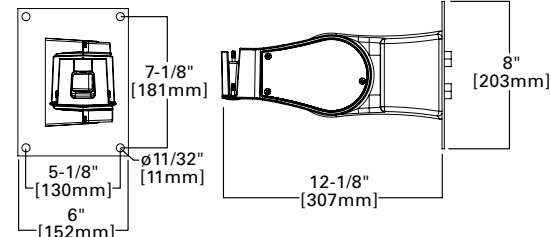
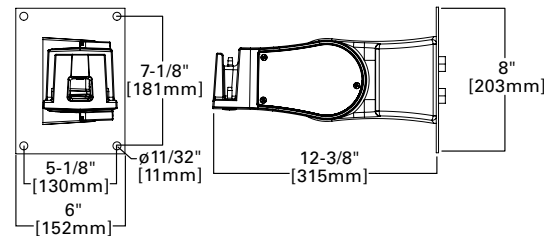
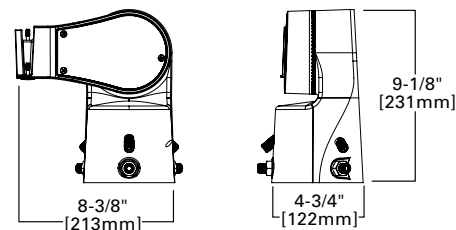
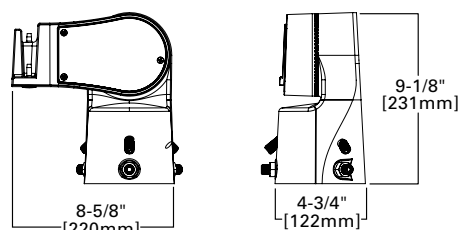
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SSS-5-7-30-DM490-[FINISH]-BC

Notes:

Type:**F1D**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV & PRV-P)****SA=QM Pole Mount Arm (PRV-XL)****WM=QM Wall Mount Arm (PRV & PRV-P)****WM=QM Wall Mount Arm (PRV-XL)****MA=QM Mast Arm (PRV & PRV-P)****MA=QM Mast Arm (PRV-XL)****ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)****ADJA=Adjustable Arm Pole Mount (PRV-XL)****ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)****ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)****ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)****ADJS=Adjustable Slipfitter 3 (PRV-XL)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

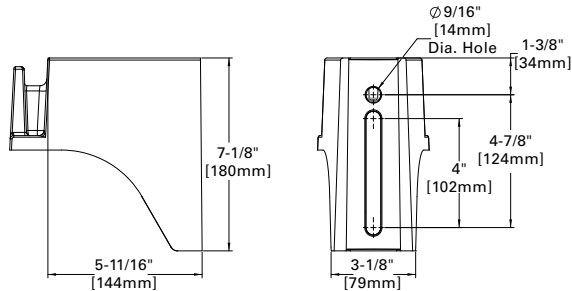
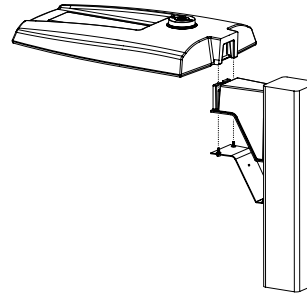
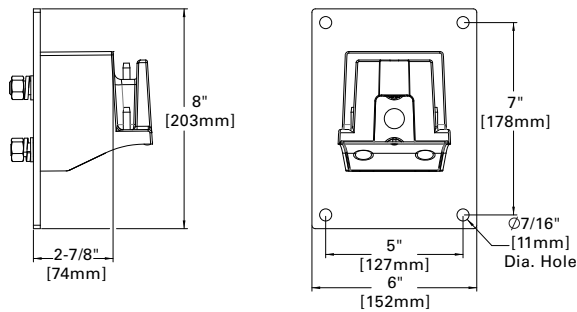
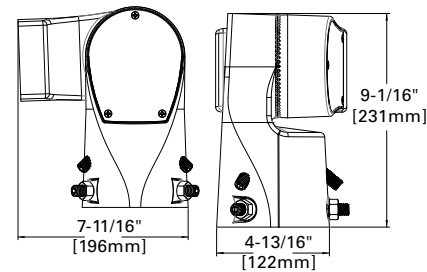
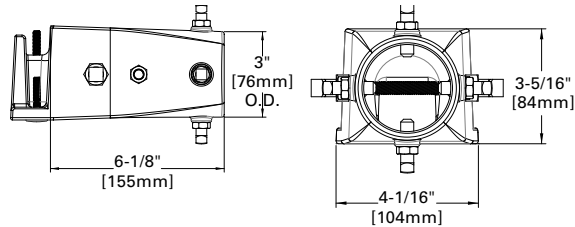
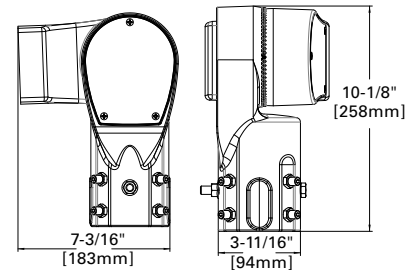
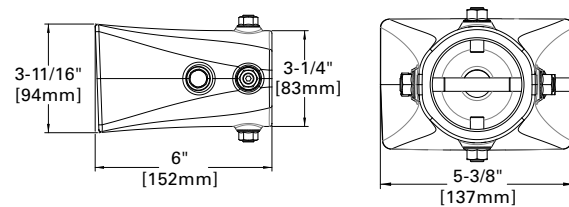
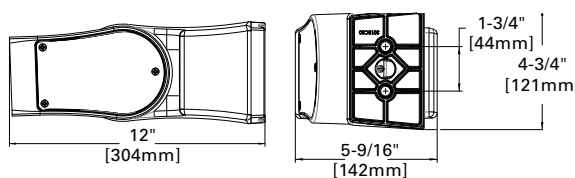
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SSS-5-7-30-DM490-[FINISH]-BC

Notes:

Type:**F1D**

WK25-45367

Lumark**Prevail LED****Mounting Details****SA=QM Pole Mount Arm (PRV-M)****Versatile Mount System****WM=QM Wall Mount Arm (PRV-M)****ADJS=Adjustable Slipfitter (PRV-M)****MA=QM Mast Arm (PRV-M)****SP2=Adjustable Slipfitter 2-3/8" (PRV-M)****FMA=Fixed Mast Arm (PRV-M)****DM=Direct Pole Mount Arm (PRV-M)**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:


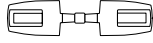

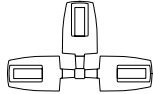
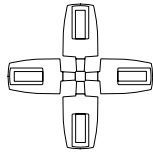
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SSS-5-7-30-DM490-[FINISH]-BC

Notes:**Type:****F1D**

WK25-45367

Lumark**Prevail LED****Mounting Details****Mounting Configurations and EPAs**

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

						
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

PRV-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)



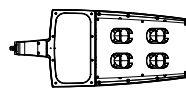
PRV-C15
(7,100 Nominal Lumens)



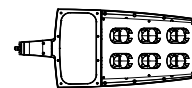
PRV-C25/C40/C60
(13,100/17,100/20,000
Nominal Lumens)



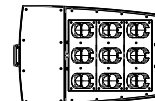
PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



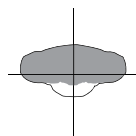
PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



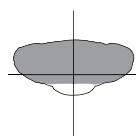
PRV-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)

**Optical Distributions**

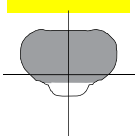
T2
(Type II)



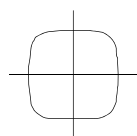
T3
(Type III)



T4
(Type IV)



T5
(Type V)



■ = Distribution with House Side Shield (HSS)

□ = Optical Distribution

Product Specifications**Construction**

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected.

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Lumark

Prevail LED

Energy and Performance Data

Power and Lumens

 View PRV-P IES files

 View PRV IES files

 View PRV-XL IES files

Product Family		Prevail Petite				Prevail				Prevail XL					Prevail Maxx			
Light Engine		C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275
Power (Watts)		35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588
Input Current @ 120V (A)		0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90
Input Current @ 277V (A)		0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06
Input Current @ 347V (A)		0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70
Input Current @ 480V (A)		0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumark

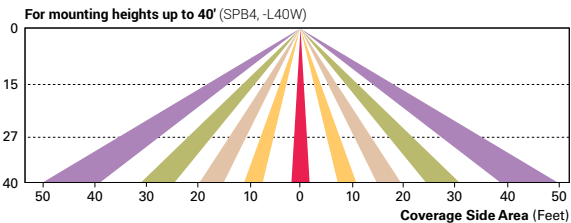
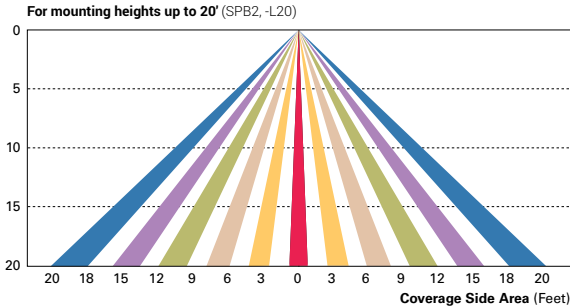
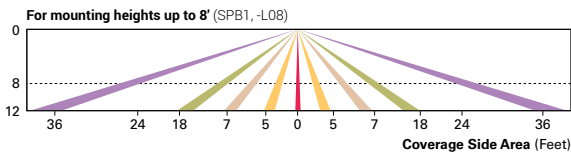
Prevail LED

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacles.

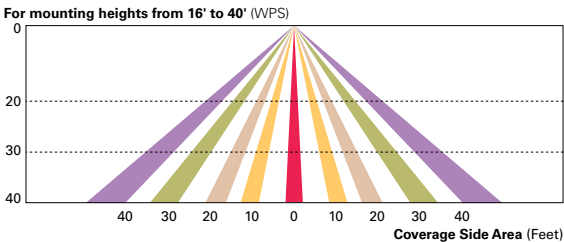
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

PRV-XL-C75-7[CCT]-D-UNV-T4-SA-[FINISH]/
 SSS-5-7-30-DM490-[FINISH]-BC

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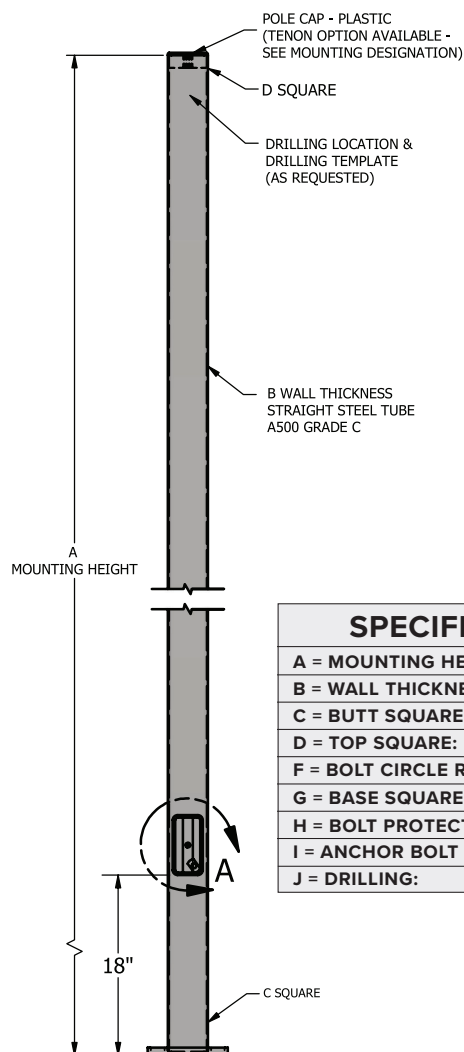
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WK25-45367

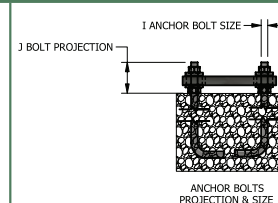
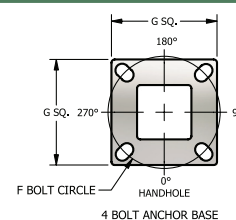
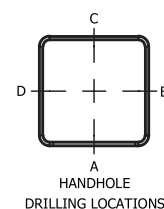
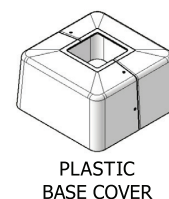
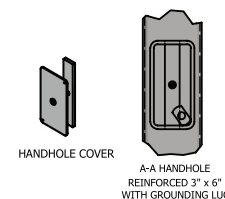
UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 7 GA.
C = BUTT SQUARE: 5"
D = TOP SQUARE: 5"
F = BOLT CIRCLE RANGE: 10" - 12"
G = BASE SQUARE: 11"
H = BOLT PROTECTION: 4" ± 1/4"
I = ANCHOR BOLT SIZE: 1" X 36" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**PLASTIC
BASE COVER**HANDHOLE****2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 5 07 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 5 07 20	43.36	33.03	25.65	20.18	16.03	12.80	10.23
SSS 5 07 25	29.61	21.92	16.43	12.36	9.27	6.86	4.95
SSS 5 07 30	21.40	15.10	10.58	7.25	4.71	2.73	1.16

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

OLPA1-080SP-UNVL-[CCT]-5W-PT-[FINISH]/ RSS-4-11-15-T*-[FINISH]-BC

Notes:**Type:****F2**

WK25-45367



Catalog:

Project:

Type:

OLPA1 General Area & Walkway Series

The OLPA1 series offers stunning lighting fixtures with versatile mounting options to elevate any space. Its elegant curves and seamless mounting assembly create a sophisticated look that blends with any decor. With a variety of mounting styles, OLPA1 series is the perfect choice to create a beautiful and functional environment.

With a wide range of light distributions and color temperature options, the OLPA1 is an excellent choice for pedestrian walkway and other general area lighting where style is a must. The OLPA1 can transform the appearance of outdoor spaces such as office building entryways, hospital and clinic walkways, university campus plazas or parkways creating a pleasant experience for occupants.

**FEATURES**

- Smooth, low profile design can be used in 8-20' height applications
- Easy installation, one latch to access power switch
- Die-cast low-copper-alloy aluminum
- Patented microstructure low-glare lens with multiple distribution patterns
- Standard Color Temperature: 3000K, 4000K, & 5000K
- CRI = 80 Standard
- Lumen output from 5,000-19,500
- Full Cutoff
- Versatile mounting options
- Operating Temperature = -40°C (-40°F) to 40°C (104°F)
- High-Performance LEDs
- Lumen Maintenance: L90 = >50,000 hours at up to 50°C ambient
- Long-life durable powder-coat finish available in 4 standard colors
- IP65 Rated (Wet-listed)

**ELECTRICAL SPECIFICATIONS**

- Power Input: 120-277V
- Power Factor: >0.95
- Efficacy: Up to 130 LPW
- Surge Suppression: 4kV Standard, Additional 10kV or 20kV Optional
- Power Selectable
- THD <15%
- Control Options: 0-10V Dimming; Bluetooth Motion/Ambient Sensors and Controls

TESTS & CERTIFICATIONS

- ETL (UL1598)
- CSA (C22.2 No. 250.0)
- ROHS Compliant
- Meets DLC 5.1 and DLC 5.1 Premium¹

WARRANTY

- 5-year Warranty (Parts or Replacement)
- Other Warranty options available. Please consult factory.

1. Not all versions of this product may be DLC Premium qualified or DLC qualified.
 Please check the DLC Qualified Products List to confirm which versions are qualified.

Optec LED Lighting

13040 West Lisbon Road, Unit 400 | Brookfield, WI 53005

888-743-5220

www.optecled.com

Rev 7 10212024

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

OLPA1-080SP-UNVL-[CCT]-5W-PT-[FINISH]/ RSS-4-11-15-T*-[FINISH]-BC

Notes:

Type:**F2**

WK25-45367



OLPA1 General Area & Walkway Series



Performance & Specifications

Distribution	Model/Wattage	Lumens - 80CRI (See note below)			Ratings		
		3000K	4000K	5000K	B	U	G
Type 2 Rectangular	OLPA1-040	5204	5375	5457	2	0	2
	OLPA1-060	7719	7976	8099	3	0	3
	OLPA1-080	9361	9683	9835	3	0	3
	OLPA1-100	13136	13565	13770	3	0	3
	OLPA1-120	15367	15882	16128	3	0	3
Type 3 ASymetrical	OLPA1-150	18399	19042	19350	4	0	3
	OLPA1-040	5127	5260	5325	1	0	1
	OLPA1-060	7603	7802	7900	2	0	1
	OLPA1-080	9256	9627	9675	2	0	1
	OLPA1-100	13136	13565	13770	2	0	2
Type 3 Rectangular	OLPA1-120	15367	15882	16128	2	0	2
	OLPA1-150	18399	19042	19350	3	0	2
	OLPA1-040	5794	5473	5313	2	0	2
	OLPA1-060	8603	8123	7882	3	0	3
	OLPA1-080	10475	10971	9653	3	0	3
Type 4 Rectangular	OLPA1-100	14611	13810	13409	3	0	3
	OLPA1-120	17137	16175	15694	3	0	3
	OLPA1-150	19649	18496	17918	4	0	3
	OLPA1-040	5191	5315	5377	2	0	2
	OLPA1-060	7699	7885	7978	3	0	3
Type 5 Concentrated	OLPA1-080	9361	9730	9773	3	0	3
	OLPA1-100	13104	13414	13569	3	0	3
	OLPA1-120	15328	15700	15886	3	0	3
	OLPA1-150	18207	18672	18905	4	0	3
	OLPA1-040	5957	6111	6187	2	0	1
Type 5 Wide	OLPA1-060	8849	9079	9193	3	0	1
	OLPA1-080	10802	11405	11292	3	0	1
	OLPA1-100	11265	11553	11695	3	0	1
	OLPA1-120	17627	18088	18316	3	0	2
	OLPA1-150	21081	21657	21942	4	0	2
	OLPA1-040	5397	5470	5486	2	0	1
	OLPA1-060	8008	8117	8143	3	0	1
	OLPA1-080	9742	10172	10190	3	0	1
	OLPA1-100	13619	13801	13843	3	0	1
	OLPA1-120	15946	16165	16215	3	0	1
	OLPA1-150	18221	18533	18543	4	0	2

Note: All lumen values above are based off of 80 CRI. Lumen values are obtained from 3rd party testing to IESNA LM-79 Standards.
Use the following lumen multiplier to compare to 70CRI: 30K=1.078, 40K=1.034, 50K=1.036

Wattage	120V	208V	240V	277V	347V	480V	Wattage	120V	208V	240V	277V	347V	480V
40	.27	.15	.13	.12	.09	.06	100	.56	.32	.28	.25	.21	.15
60	.35	.20	.18	.15	.12	.09	120	.64	.37	.32	.28	.26	.19
80	.48	.27	.24	.21	.17	.13	150	.75	.43	.38	.32	.31	.23



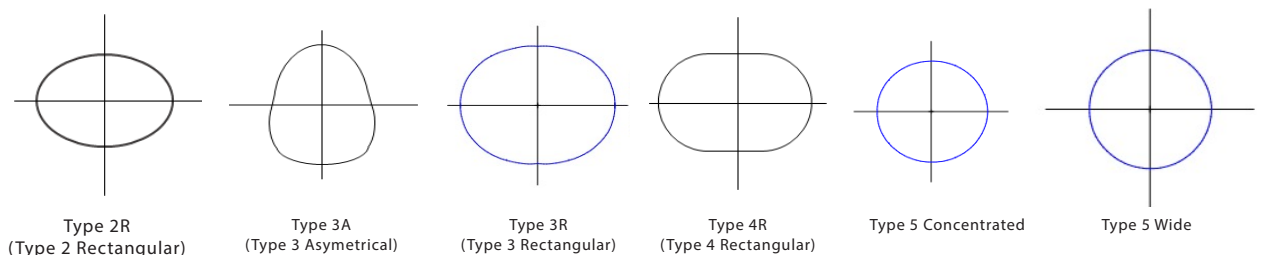
OLPA1 General Area & Walkway Series

Ordering Information

EXAMPLE: OLPA1-080SP-UNVL-40-5W-PS-NA-(Options)

OLPA1						
Series	Wattage	Voltage	CCT/CRI	Distribution	Mounting	Finish
OLPA1= Optec LED Parking & Area Light	080SP= 40-60-80W ¹	UNVL = 120-277V	30 = 3000K (80 CRI) 40 = 4000K (80 CRI) 50 = 5000K (80CRI) SCT=Selectable Color Temp ⁴	2R=Type 2 Rectangular 3A= Type 3 Asymetrical 3R = Type 3 Rectangular 4R= Type 4 Rectangular 5C = Type 5 Concentrate 5W = Type 5 Wide	PT=Pole Top Twin Arm Mount PS=Pole Side Mount Round ⁵	WH = White BZ = Dark Bronze BL = Black NA = Natural Aluminum CF = Custom Finish
	150SP= 100-120-150W ²	UNVH = 347-480V				
OPTIONS			CONTROLS/SENSORS		ACCESSORIES	
SPD10 = 10kV Surge Suppressor SPD20 = 20kV Surge Suppressor EM = Emergency Battery Backup EMC=Emergency Battery Backup - Cold Weather			Controls: WCM = Wireless Fixture Controller, Mesh Network Sensors: OS= Ambient/Occupancy Sensor, DIP switch controllable ³ TW=Twist Lock Photocell RCB7 = Receptacle Base 7 Pin ZGBS = Zhaga Receptacle Base BT =Ambient/ Occupancy Sensor, Bluetooth ³ WMOS = Wireless Mesh Occupancy Sensor/controller, Bluetooth ³ HBL = High Bay Lens, 20-40ft Mounting Height		SQ=Square Mount Pole Adapter ⁶ WG = Wire Guard HS = House Side Shield WAM=Wall Mount Bracket ⁷	
Ordering Footnotes: 1. 080SP=Selectable Power 40W, 60W, 80W; factory set upon request 2. 150SP=Selectable Power 100W, 120W, 150W; factory set upon request 3. Includes Low Bay Lens, 8-20' mounting height 4. SCT=Selectable Color Temperatures 4000K, 5000K 5. PS is standard for round poles. To fit square poles order SQ Square Mount Pole Adapter listed under accessories. 6. SQ=use this adaptor for square poles and wall mounts 7. WAM=Order with SQ square mount pole adaptor						

PHOTOMETRIC PERFORMANCE



Optec LED Lighting

13040 West Lisbon Road, Unit 400 | Brookfield, WI 53005

888-743-5220

www.optecled.com

Rev 7: 102124

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

OLPA1-080SP-UNVL-[CCT]-5W-PT-[FINISH]/ RSS-4-11-15-T*-[FINISH]-BC

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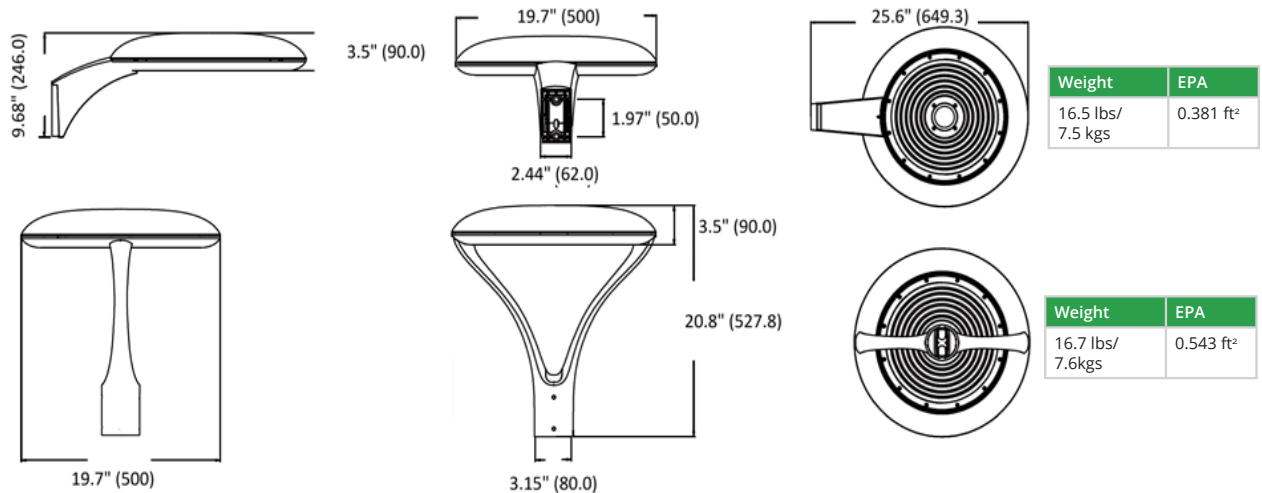
Type:**F2**

WK25-45367



OLPA1 General Area & Walkway Series

WEIGHTS & DIMENSIONS



Post Top Twin Arm Mount



Post Top Twin Arm Mount w/House Side



Pole Side Mount Round



Wall Mount Bracket with Square Mount Pole Adaptor



Wire Guard

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

OLPA1-080SP-UNVL-[CCT]-5W-PT-[FINISH]/ RSS-4-11-15-T*-[FINISH]-BC

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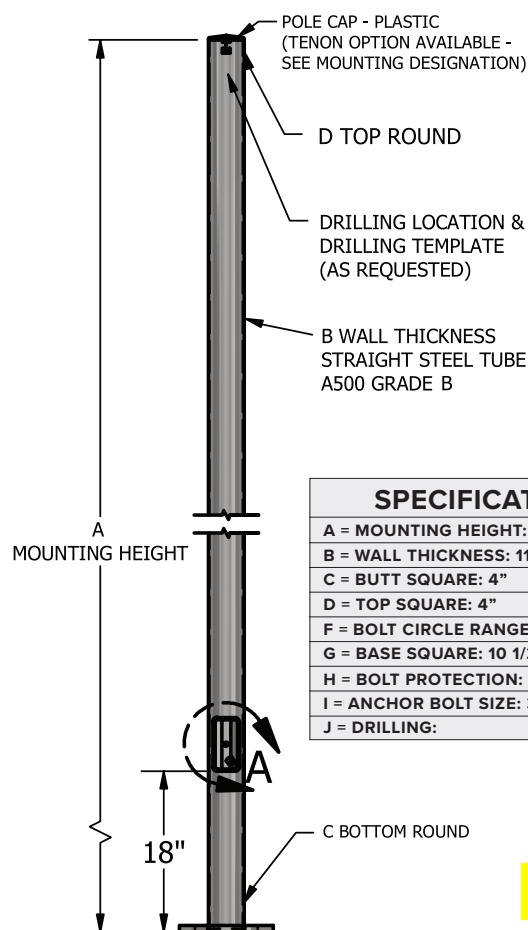
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WK25-45367

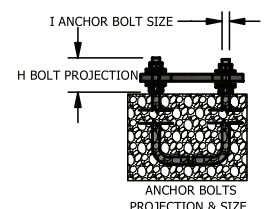
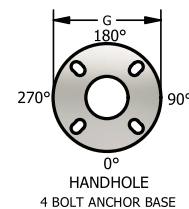
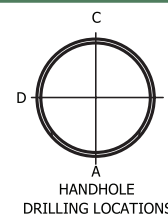
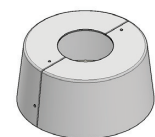
UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

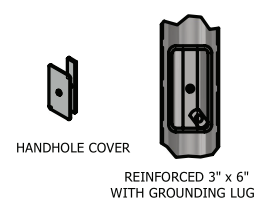
JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 11 GA.
C = BUTT SQUARE: 4"
D = TOP SQUARE: 4"
F = BOLT CIRCLE RANGE: 7 1/2" - 8 1/2"
G = BASE SQUARE: 10 1/2"
H = BOLT PROTECTION: 3 1/2 ± 1/4"
I = ANCHOR BOLT SIZE: 3/4" X 20" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**

PLASTIC
BASE COVER

HANDHOLE

15'

2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST**ROUND STRAIGHT STEEL POLE RSS 4 11 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
RSS 4 11 10	29.60	22.40	18.00	14.60	11.90	10.10	7.30
RSS 4 11 12	24.20	18.20	14.40	11.60	9.30	7.90	5.80
RSS 4 11 14	20.00	14.90	11.70	9.30	7.30	6.10	4.50
RSS 4 11 16	13.20	9.60	7.40	5.70	4.40	3.60	2.60
RSS 4 11 18	10.80	7.70	5.70	4.30	3.10	2.60	1.70
RSS 4 11 20	8.80	6.00	4.30	3.00	2.00	1.60	0.90
RSS 4 11 25	4.70	2.60	1.40	0.40	0.00	0.00	0.00

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

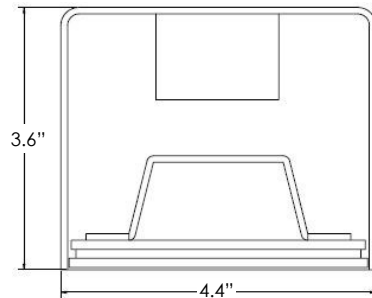
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Notes:

Type:**F4**

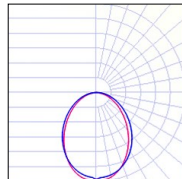
WK25-45367

**HYDRO BEAM DIRECT**

Type:	
Project:	
REP/Agent:	
Order #:	

**DIMENSIONS****FEATURES**

- ★ 2', 3', 4', 6' and 8' individual units
- ★ Fixtures can be linked together for continuous rows
- ★ Efficacy up to 125 lm/W
- ★ Soft diffused direct lighting
- ★ Outdoor powder coat finishes available in white, black silver and bronze
- ★ Premium finishes also available
- ★ 0-10V dimming is standard
- ★ Dim to 10% of output current is standard
- ★ 90 CRI (R9 50min) available
- ★ CA Title 24 / JA8 installation compatible
- ★ Wet Location rated
- ★ IP66
- ★ Impact Protection Rating (IK10)

DISTRIBUTION

SD= SatinIce Diffuse

LUMEN PACKAGES

Based on 3500K CCT. Other CCT available.

MODEL	LUMENS	INPUT WATTS	Lm/W
HYDRO-4-1000-SD-35K	4,000	36	110
HYDRO-8-1000-SD-35K	8,000	67	120





HYDRO BEAM DIRECT

Type:	
Project:	
REP/Agent:	
Order #:	

HYDROD					
SERIES	LENGTH	LUMENS PER FOOT	DISTRIBUTION	CCT	CRI
HYDROD	2= 2FT	350= 350 LPF	SD= SatinIce Diffuse	30K= 3000K	80= 80
	3= 3FT	500= 500 LPF		35K= 3500K	90= 90 (R9 50 min)
	4= 4FT	750= 750 LPF		40K= 4000K	
	6= 6FT	1000= 1000 LPF		50K= 5000K	
	8= 8FT	XXX= Custom LPF			
	xx= Run Length Sxx= Symmetric Run Length	600 LPF			

FINISH	MOUNTING	VOLTAGE	ELECTRICAL
STANDARD PW= Powder Coat White PB= Powder Coat Black PS= Powder Coat Silver PBR= Powder Coat Bronze PREMIUM RALxxx= Powder Coat RAL xxx PSFx= Prem Stock Finish CUSTOM PO= Powder Other See pg. 10 for standard and premium options.	SURFACE MOUNTS* SM(T)= Surface Mount (Top-fed power) SM(E)= Surface Mount (End-fed power) SM(S)= Surface Mount (Side-fed power) WALL MOUNTS WM= Wall Mount ARM= Arm Wall Mount MM= Mullion Mount RM= Rotational Mount (Not Available in Continuous Run) STEMS WITH CANOPY KITS STEMWxx= Stem White, xx" STEMBxx= Stem Black, xx"	U= 120-277	1C= Single Circuit MC= Multiple Circuits (multiple switch legs across run length) EC= Emergency Circuit (separate power drops for EC fixtures)

* 4G Vibration Certified

OPTIONS
BATTERIES #EMB10= 10W EM Battery (# indicates quantity)
SURGE PROTECTOR SRG= Surge Protector
SENSORS MLR= Motion Sensor Large Range**

**Motion sensor option removes dimming ability

EXAMPLE: HYDROD-40-750-SD-35K-80-PW-SM(E)-U-1C-1EMB10

HYDRO BEAM
DIRECT

CONTINUOUS RUN



Continuous runs are configured with 2', 3', 4', 6' and 8' sections up to 50' in total length.

		Total Length																																							
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
# of Sections	2	1			1								1								1							1								1					
	3		1		1		1		1		1		1		1		1		1		1			1		1		1		1		1		1		1		1			
	4			1			1			1					1					1			1			1		1			1			1		1			1		
	6					1			1	1		2		1			1	3				1			1	1				1			1	1				1			
	8							1			1		1	1	1	2	1		2	2	2	2	2	3	2	2	3	3	3	3	3	3	4	3	3	4	4	4	4	4	5

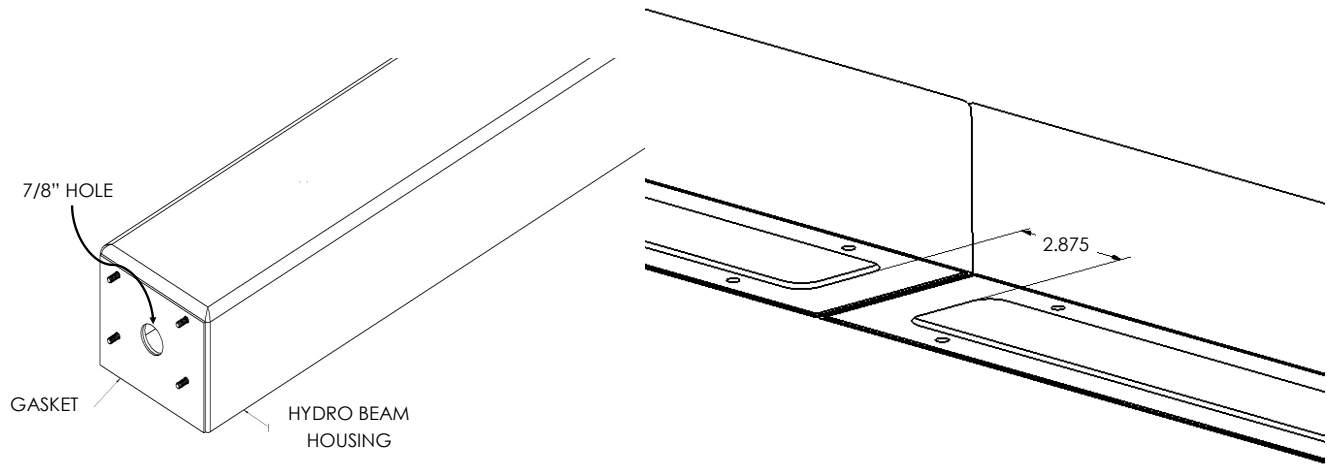
Sxx (Symmetric Run)

The construction of Sxx (y') is to build with equal length fixtures. The xx indicates the run length. The y' indicates the fixture length used to create the run. Please indicate this on your P.O. when placing your order.

S12 (2')	2'	2'	2'	2'	2'	2'
S12 (3')	3'	3'	3'	3'		
S12 (4')	4'	4'	4'			
S12 (6')	6'	6'				

LINKING

Typical continuous run installation shown below.



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

Type:**F4**

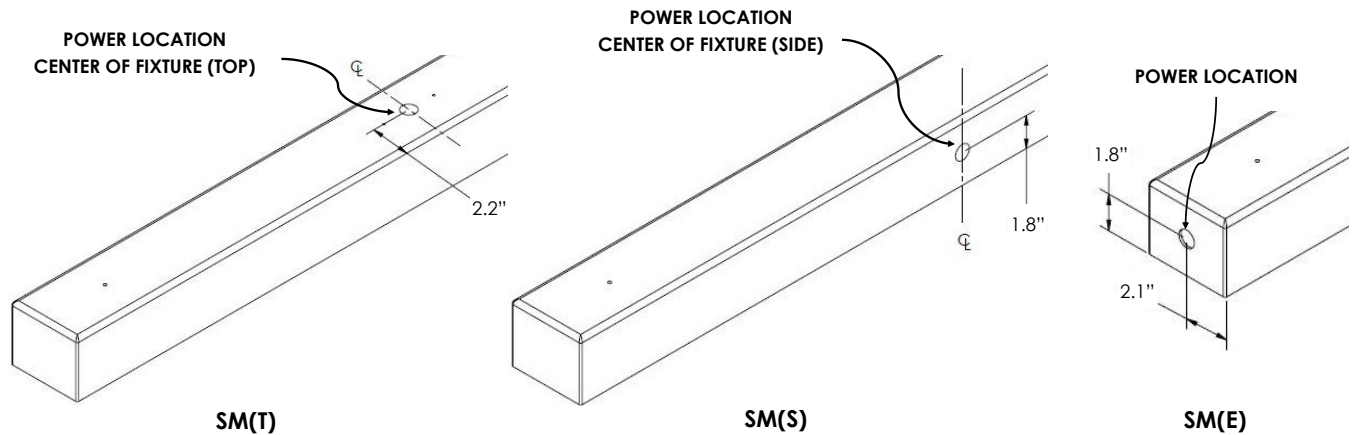
WK25-45367

HYDRO BEAM DIRECT

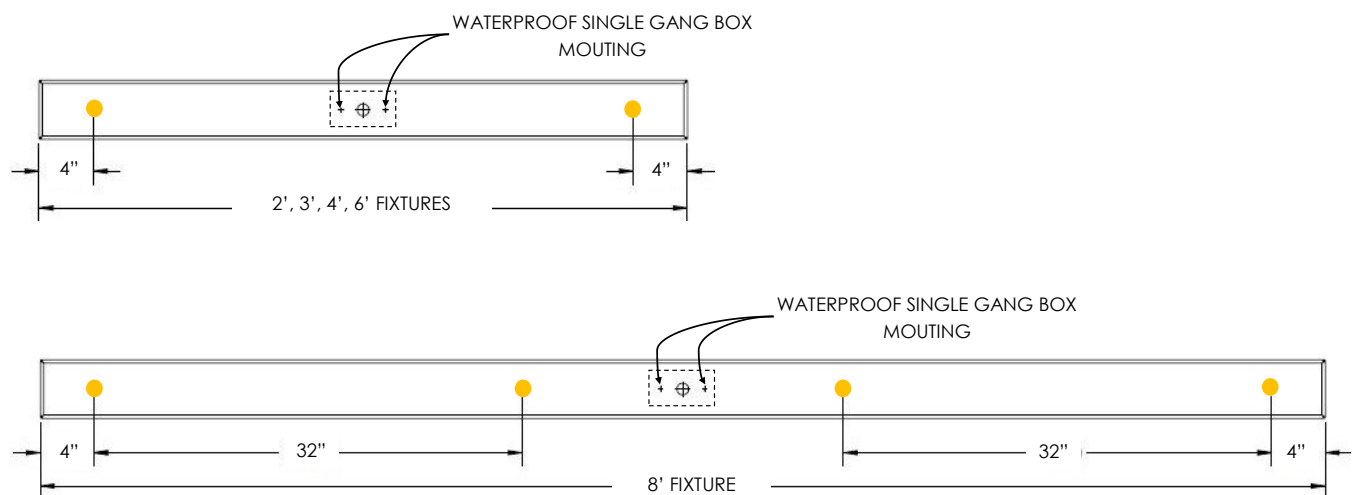
MOUNTING OPTIONS

**SM(X) - Surface Mount (Top, End, or Side - fed power)**

Power to be fed through one (1) 7/8" hole created in the top—SM(T), side—SM(S), or end—SM(E) of the lighting fixture. Hole can accommodate 1/2" conduit. Lighting fixture is to be wired with UL listed wet location fittings per NEC requirements, supplied by others.

**MOUNTING LOCATIONS—SM(T)**

Mounting locations (●) vary between SM(T) option and others due to length and power location. Views below show top of fixtures.



NOTE: Hole size at mounting locations is Ø.266".

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower
Ninth Ward
Architect: WILLIAMS & ASSOCIATES,
ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-
80-[FINISH]-SM(T)-U-1C

Notes:

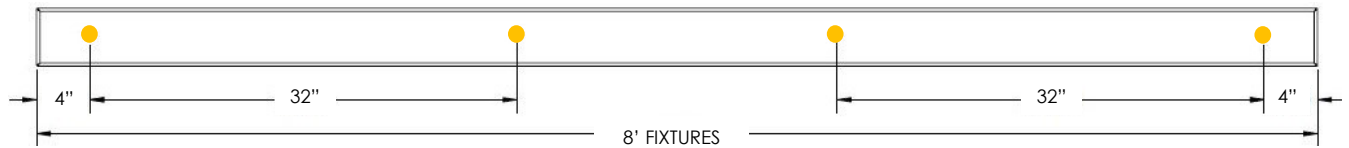
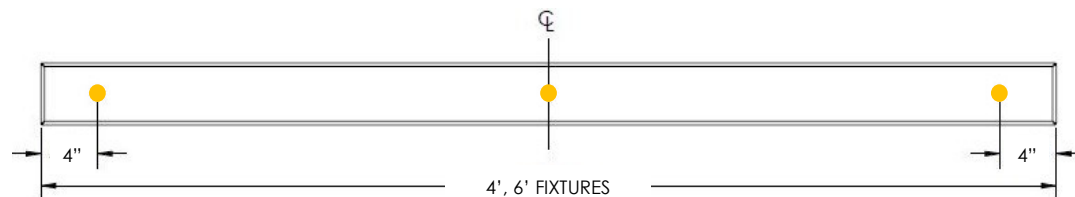
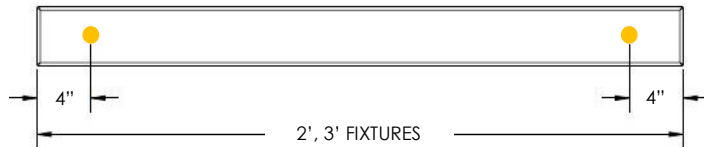
Type:**F4**

WK25-45367

HYDRO BEAM DIRECT

**MOUNTING LOCATIONS—SM(S) & SM(E)**

The number of mounting locations (●) increase as fixtures get longer. Views below show top of fixtures.



NOTE: Hole size at mounting locations is Ø.266".

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
Notes:

Type:**F4**

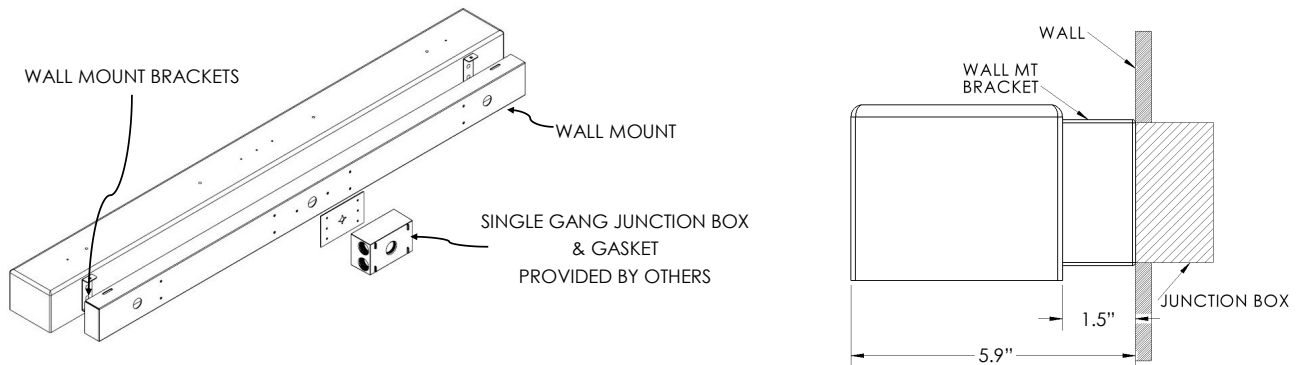
WK25-45367

HYDRO BEAM DIRECT

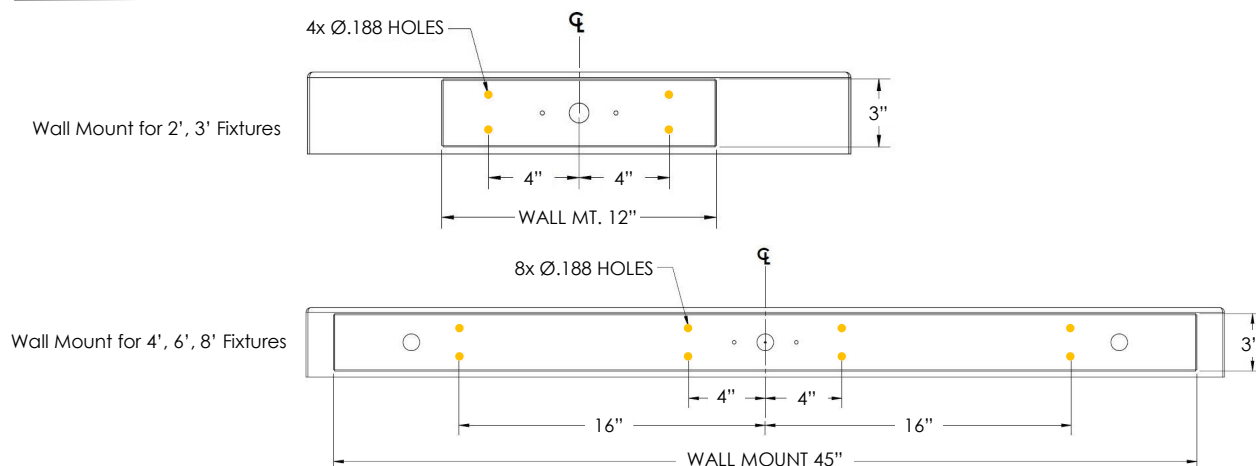
MOUNTING OPTIONS CONTINUED



WM - Wall Mount

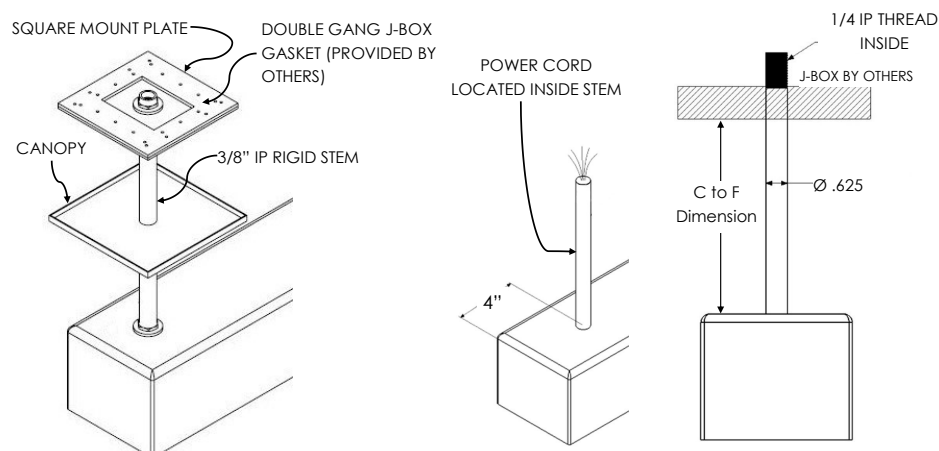


MOUNTING LOCATIONS—WM



STEMXxx - Stem Mount with Canopy

When ordering, please specify stem mount length ("xx" indicates stem length). See table below for stem lengths available. Please also specify the color of the stem ("X" indicates stem color). Stem mounts can be ordered in white (STEMW) or black (STEMB).



Stem Lengths		
STEMX(xx) (C to F)	STEMX(xx) (C to F)	STEMX(xx) (C to F)
6"	24"	60"
8"	27"	66"
9"	30"	72"
12"	36"	78"
15"	42"	84"
18"	48"	90"
21"	54"	96"

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

Type:**F4**

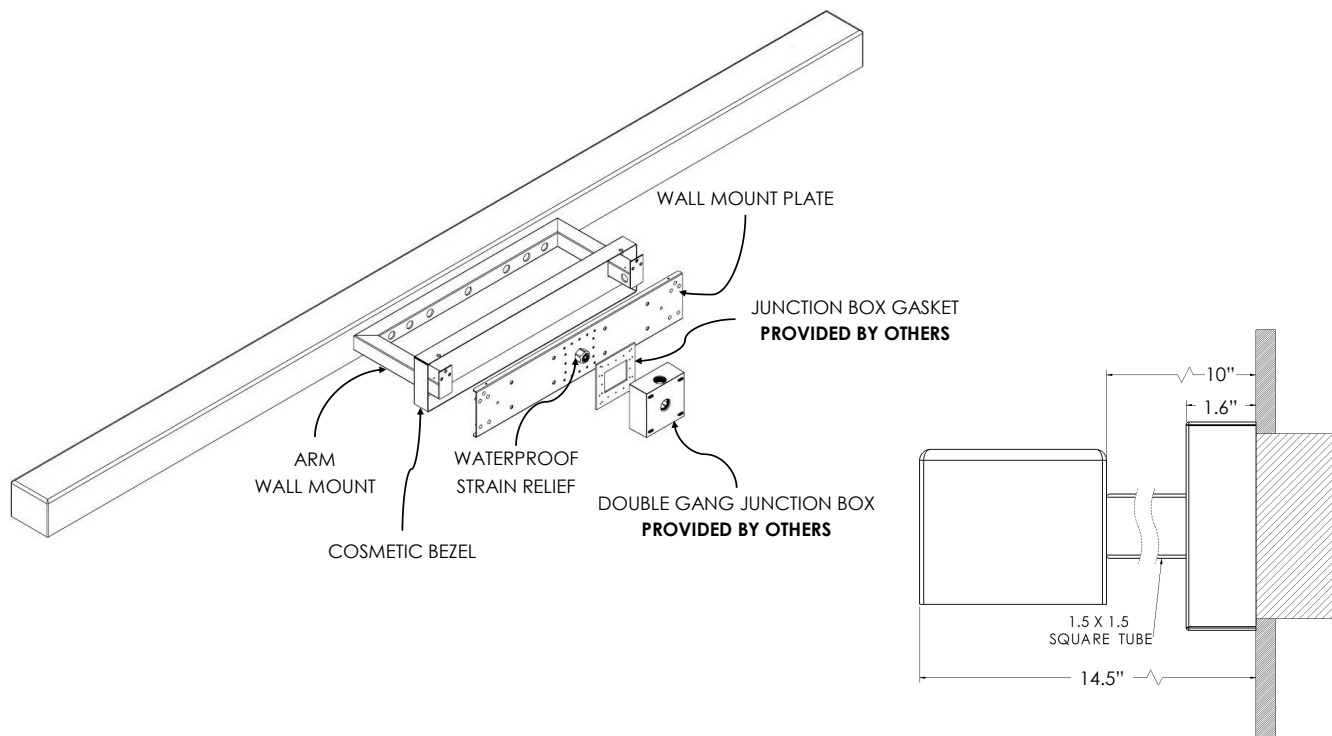
WK25-45367

HYDRO BEAM DIRECT

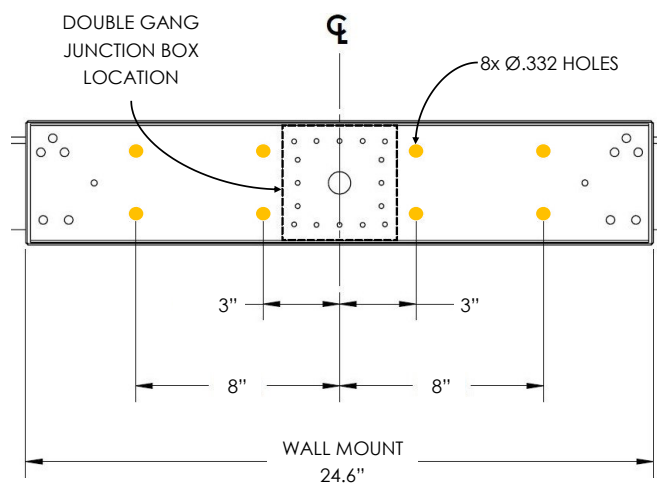
MOUNTING OPTIONS

ARM (Arm Wall Mount)

STARTEK
 LIGHTING AMERICA



MOUNTING LOCATIONS—ARM



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

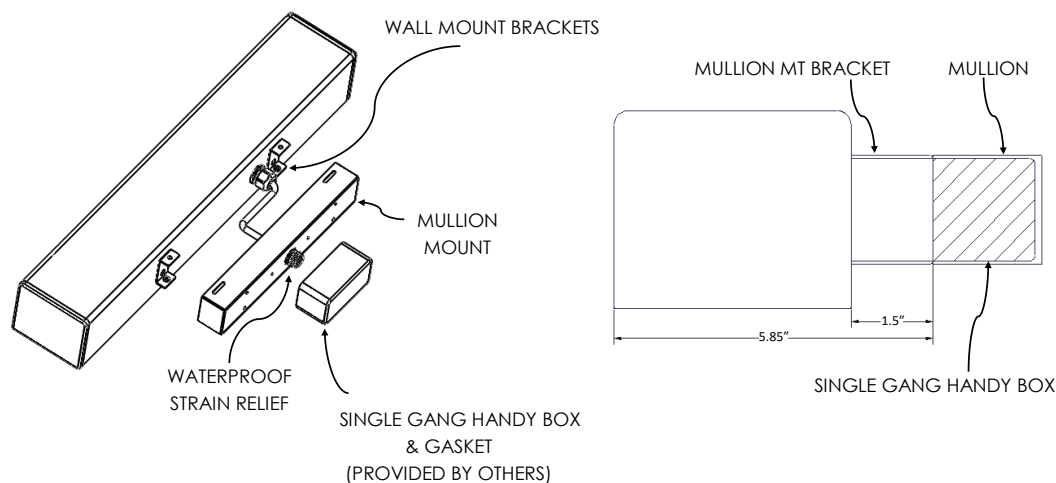
Type:**F4**

WK25-45367

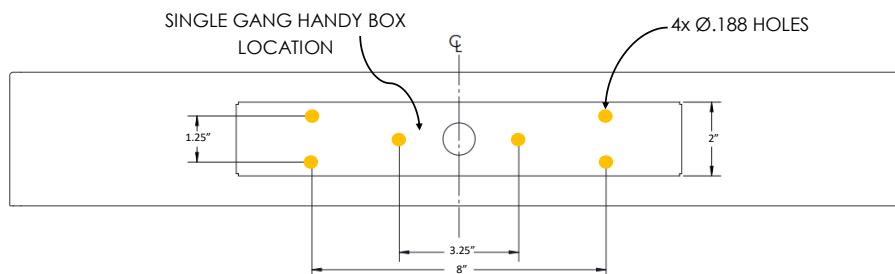
HYDRO BEAM DIRECT

MOUNTING OPTIONS

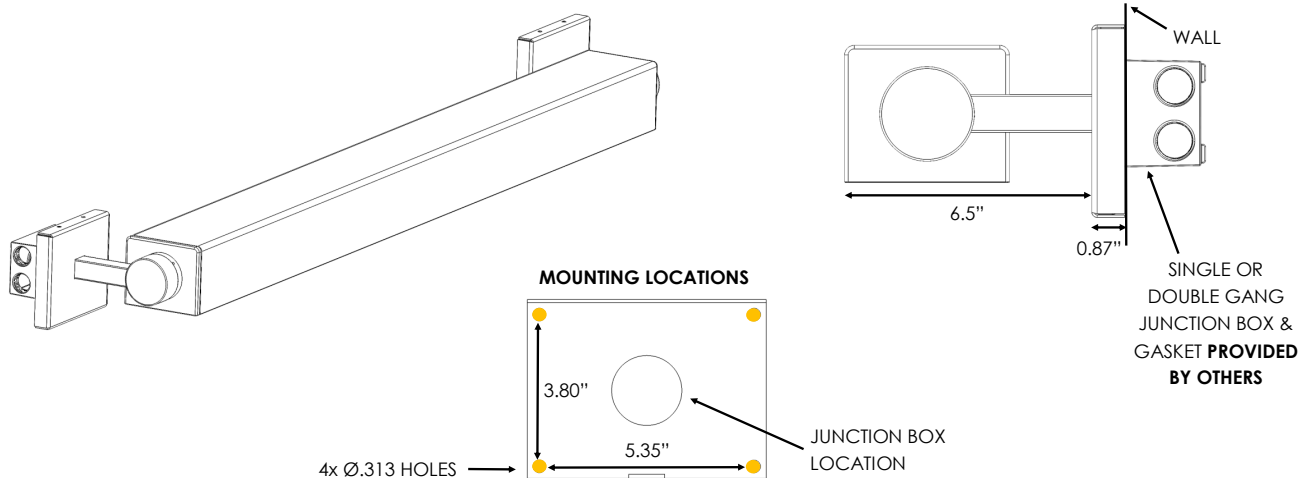
MM (Mullion Mount)



MOUNTING LOCATIONS—MM



RM - Rotational Mount

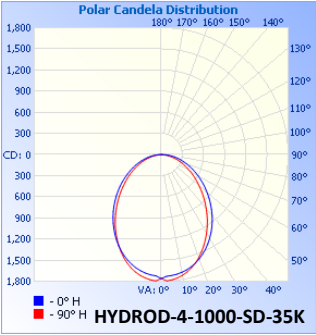


HYDRO BEAM DIRECT



PERFORMANCE

HYDROD-X-1000-SD (80+ CRI)



Model	Lumens	Watts	LPW
HYDROD-4-1000-SD-30K	4000	37	107
HYDROD-4-1000-SD-35K	4000	36	110
HYDROD-4-1000-SD-40K	4000	36	112
HYDROD-4-1000-SD-50K	4000	35	115

Model	Lumens	Watts	LPW
HYDROD-8-1000-SD-30K	8000	68	117
HYDROD-8-1000-SD-35K	8000	67	120
HYDROD-8-1000-SD-40K	8000	66	122
HYDROD-8-1000-SD-50K	8000	64	125

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
 Notes:

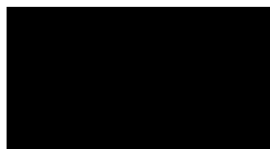
Type:**F4**

WK25-45367

HYDRO BEAM DIRECT

**FINISHES****STANDARD FINISHES**

WHITE MINI TEXTURE



BLACK MINI TEXTURE

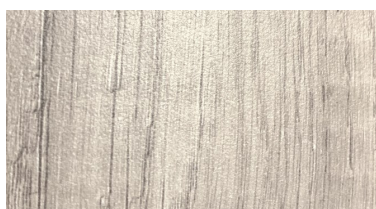


SILVER

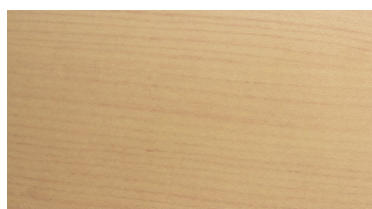


BRONZE

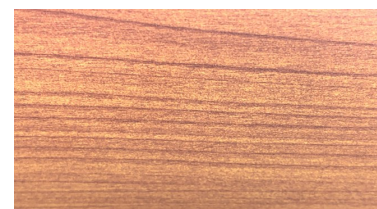
Custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

PREMIUM STOCK FINISHES

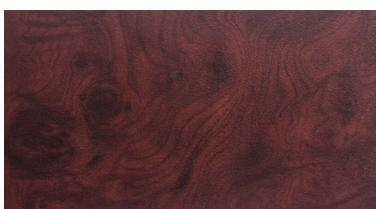
PSF001 (WOOD#1)



PSF002 (WOOD#2)



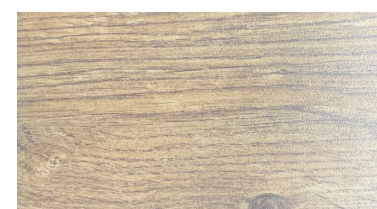
PSF003 (WOOD#3)



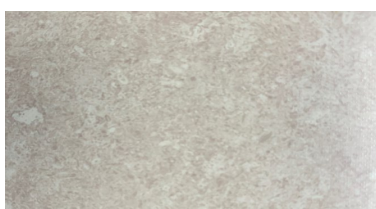
PSF004 (WOOD#4)



PSF005 (WOOD#5)



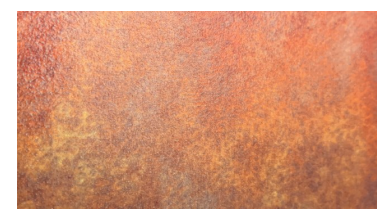
PSF006 (WOOD#6)



PSF007 (STONE #1)



PSF008 (STONE #2)



PSF009 (METAL #1)

NOTE: A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

All other custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
Notes:

Type:**F4**

WK25-45367

HYDRO BEAM DIRECT



SPECIFICATIONS

Housing

Nominal 3.6" x 4.4" x 0.090 thick aluminum housing

Color

Colors for the housing are available in a powder coated white, black silver and bronze. Consult factory for custom colors.

Luminaire Length

2', 3', 4', 6' or 8' lengths are available for a single stand-alone section. Using contractor provided conduit, sections can be joined to form longer rows up to 50'.

Lensing

0.125" Thick Impact resistant outdoor (F1) rated polycarbonate lensing.

Source

Variable lumen packages are available in four color temperature options (3000K, 3500K, 4000K and 5000K) — all within 3 MacAdam ellipses.

Certification

Intertek cETLus Wet Location Listed, RoHS (Restriction of Hazardous Substances) and Buy American Act Compliant.

Battery

Bodine battery providing up to 1200lm(10W) for 90 minutes. UL924 listed, Class 2 compliant. Meets Title 20 CEC (California Energy Commission) efficiency standards.

Environment

Suitable for dry, damp, and wet locations.

Operating temp.: -40°C to +50°C
-40°F to +122°F

Dimming Driver

Osram Optotronic Outdoor LED Driver allows tunable output currents to achieve infinite configurations of output. UL Class P recognized. 0-10v interface can be wired as Class 1 or Class 2 circuit.

Packaging

Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

WARRANTY

5-year limited warranty. Complete warranty terms can be located at:

https://starteklightingamerica.com/wp-content/uploads/2019/11/Hydro_Beam_Warranty.pdf

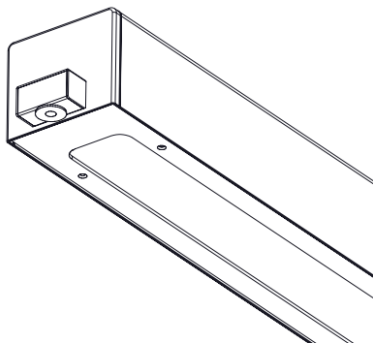
Note: Actual performance may differ as a result of installation environment and final application.

All values are design or typical values, measured under laboratory conditions, at 25°C (77°F) .

CONTROL

Sensor

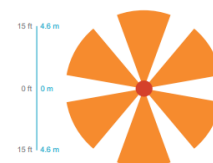
VERTEX Fixture Integrated Occupancy Sensor with Dimming Photocell. Ideal for standalone or network lighting control applications. Its ultra-small footprint enables seamless integration into an indoor or outdoor luminaires without disrupting aesthetics or requiring additional mounting space. Its versatility allows for mounting at various heights up to 15ft detecting major and minor motion movement.

**COVERAGE PATTERNS****Motion Sensor Large Range**

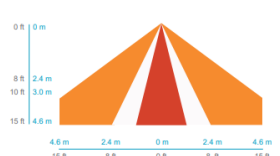
- Optimized full coverage from 8 ft - 15 ft (2.4 m - 4.5 m) mounting heights
- Reliable detection of large motion (e.g. pedestrian walking traffic)
- 1.3 x's mounting height equals approximate detection range



TOP VIEW



SIDE VIEW

**Specification**

Input Rating : 3.3V-5V(Voltage), 5mW (Mega Power)

Environmental Specification : -10°C - 70°C (Std. Operating Temp.), -40°C - 70°C (LT Operating Temp)

Output Rating : Not Applicable

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

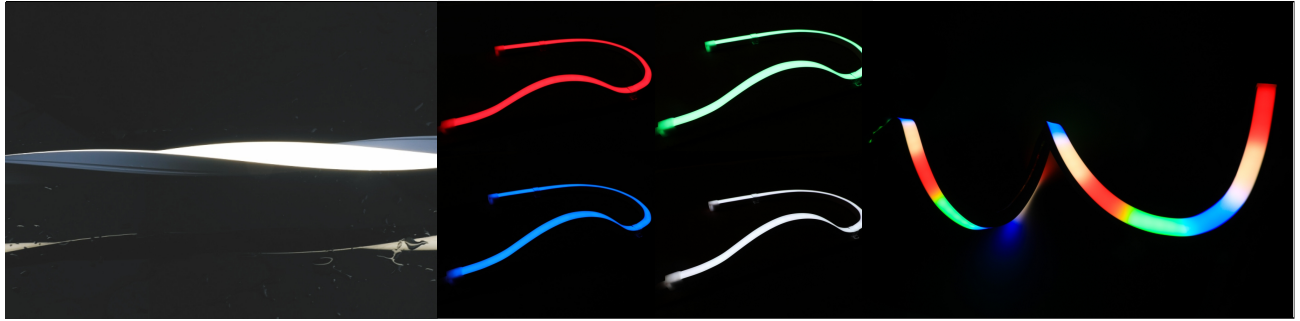
Notes:**Type:****F5**

WK25-45367



Dual Bend LED Neon Strip

Neon SERIES | Free-Cutting Dual Bend



Application

This dual-bending LED Neon Strip is designed for decorative and ambient lighting in hotels, restaurants retail, showroom, bar and any commercial application where you want your space to stand out.

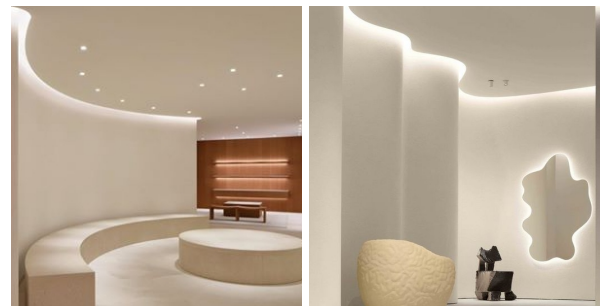
Features

- Dual-bend performance to fix many plane, curved, and complex irregular structures at will
- White, CCT-tunable, RGB, RGBW, SPI RGBW (IC in UCS8904) and DMX RGBW (IC in TM5 12AC) options are available for wide versatility
- 4.27 watts per foot
- On-site cuttable and assembly for fast and flexible customization operation, with end cap sealed by gluing process.
- Customized length with overall appearance in the same size by die- casting process
- Dimmable available with PWM signal
- Silicon extrusion technology is an advanced process resulting in a high grade appearance, soft bend flexibility, strong impact resistance and high weather resistance
- Up to 50,000h LED lifespan and 5 year warranty
- IP67 waterproofing for indoor or outdoor usage.

FNS

Introducing The Smart Lighting Company's newest upgrade to LED Tape technology! Our Dual Bend Neon Strip FNS Series is a high-performance lighting in a compact form designed to fix many plane, curved and complex structure irregularities. This top and side bending strip is cuttable on site and is IP67 rated for indoor or outdoor wet locations.

Easily customizable with options for free-cutting, this is available in Static White, Tunable White, RGB and RGBW. The FNS is dimmable, and compatible with most ELV and TRIAC dimmers. The FNS is capable of many different applications and can be fabricated to the specifications of your project.



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:**Type:****F5**

WK25-45367



FNS - LED Neon Strip

Specifications and Performance

	STATIC WHITE	TUNABLE WHITE	RGB	RGBW	SPI RGBW	DMX RGBW
Watts per Foot	4.27	4.27	4.27	4.27	4.27	4.27
Max Run Length	16.4ft	16.4ft	16.4ft	16.4ft	16.4ft	16.4ft
Cuttable (factory cut only)	Free-cutting	Free-cutting	2.46"	2.46""	2.46""	2.46""
Lumens per Foot	286lm	280lm	310lm	158lm	93lm	91lm
Lumens per Watt	90lm/w	72lm/w	220lm/w	220lm/w	220lm/w	220lm/w
LEDs Per Foot	67	67	/	/	/	/
Input Voltage	24vdc					
Beam Spread	120°					
CRI	80, 90					
LED Lifespan	L70 ≥50,000 @ Tc ≤ 65					
Dimming	PWM					
Dimensions	0.79"x 0.79"					
CCT	2700k, 3000k, 4000k, 5000k, 6000k, TW, RGB, RGBW, SPI RGBW, DMX RGBW					
Operating Temp	-4°F to 113°F (-20°C to 45°C)					
Ambient Temp	-4°F to 140°F (-20°C to 60°C)					
Environment	IP67					
Warranty	5 Year				3 Year	
Certifications	CE, UL, RoHS,					



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:

Type:**F5**

WK25-45367



FNS - LED Neon Strip

NEON SERIES ORDERING INFORMATION

Ordering

Example: FNS-DB-xxK-xxL-24VDC

Part No.	Style	Color Temp		Length		Voltage	
FNS	DB Dual -Bend	27	2700k	16	16.4ft	24	24vdc
		30	3000k	CU	Custom Length <small>see pg.2 for available cutting lengths</small>		
		35	3500k				
		40	4000k				
		50	5000k				
		60	6000k				
		TW	Tunable white				
		RGB	RGB				
		RGBW	RGBW				
		SRGBW	SPI RGBW				
		DRGBW	DMX RGBW				

Mounting Accessories

FNS-A-SMB Surface mount**FNS-A-SK** Ceiling mount**FNS-A-PCC** Suspended Mount**FNS-MB**

Mounting Bracket (2 pieces)

FNS-AL-SCH

Aluminum Channel 39.37" length (1M)

FNS-AL-FDBCH

Aluminum Flexible Channel 39.37" length (1M) Max Run is 196"/roll



Wiring and End Cap Accessories

FNS-RPF Rear Power Feed 11.8" (300mm) leads**FNS-SPF** Side Power Feed 11.8" (300mm) leads**FNS-BPF** Bottom Power Feed 11.8" (300mm) leads**All power feeds include a front cap and an end cap***FNS-ERF-EK** Extra Rear Feed Endcap Kit Extra**FNS-ESF-EK** Side Feed Endcap Kit Extra**FNS-EBF-EK** Bottom Feed Endcap Kit

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:

Type:**F5**

WK25-45367



FNS - LED Neon Strip

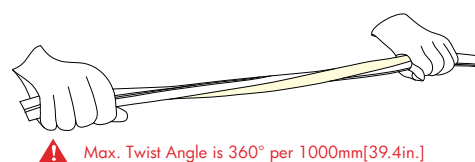
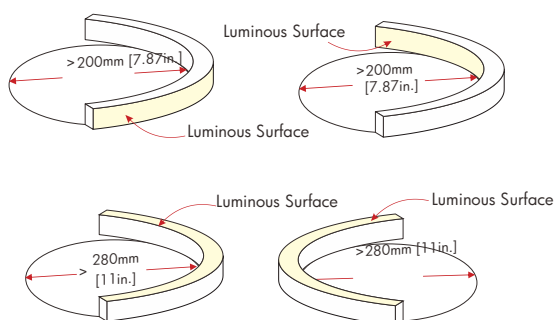
NEON SERIES ORDERING INFORMATION

Recommended Power Supplies



Dimmable with 0-10v, ELV, MLV, TRIAC

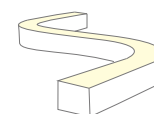
Item Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable	Dimensions
PS-TSLC-UNV-24V-30WDHV2	30W	30W / 3W	100-277V AC	24V DC	Yes*	6.49"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-60WDHV2	60W	60W / 6W	100-277V AC	24V DC	Yes*	7.4"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-96WDHV2	96W	96W / 9.6W	100-277V AC	24V DC	Yes*	8.66"L x 3.6"W x 1.61"H
PS-TSLC-UNV-24V-288WDHV2	288W (3 x 96W)	288W / 28.8W	100-277V AC	24V DC	Yes*	11.85"L x 4.25"W x 1.8"H



Can be top-bend



Can be side-bend



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:**Type:****F5**

WK25-45367



FNS - LED Neon Strip

Specifications and Performance

Part No.	Style	Dimension	Max. Run Length (La) & Max. Shipping Length	Strip Increment (L1)	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
FNS	White	W0.79xH0.79in.	16.4ft. (Power fed on one side) & 98.4ft.	Free-cutting to be any length	SMD 2835	[36LED/ft.]	IP67 [Vet] & IK07	Ta: -4~113°F	50,000h (White/CCT/RGB/RGBW), 36,000h (SPI RGBW/DMX RGBW) (L70@ Tc≤149°F Tc is the temp. of LED pin.)	5 years (White/CCT/RGB/RGBW), 3 years (SPI RGBW/DMX RGBW)
	CCT					[73LED/ft.]				
	RGB									
	RGBW									
	SPI RGBW 16 pixels/3.28ft. & 4 points/pixel		16.4ft. (Power fed on one side) & 32.8ft.	2.46in.	SMD 4040	96LED/M [29LED/ft.]				
	DMX RGBW 16 pixels/3.28ft. & 4 addresses/pixel					96LED/M [29LED/ft.]				

Photoelectric Parameters

Part No.	Style	Power ±10%	Operating Voltage	Finished Product CCT/ Wavelength	IP67 CRI80, 4000K		IP67 CRI90, 4000K		Beam Angle
					Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
FNS	White	4.27W/ft.	24VDC	2700K±120K 3000K±150K 3500K±300K 4000K±300K 5000K±400K 6000K±500K	286lm/ft.	67lm/W	250lm/ft.	58lm/W	120°
	CCT			2700-6000K CCT-Tunable	2700K:134lm/ft. 6000K:146lm/ft. Mix:280lm/ft.	63lm/W 68lm/W 67lm/W	2700K:115lm/ft. 6000K:128lm/ft. Mix:244lm/ft.	54lm/W 60lm/W 57lm/W	
	RGB			R:620-630nm G:518-528nm B:460-470nm	R:27lm/ft. G:55lm/ft. B:12lm/ft. Mix:94lm/ft.	\	\	\	
	RGBW			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:21lm/ft. G:58lm/ft. B:12lm/ft. W:67lm/ft. Mix:158lm/ft.	\	R:21lm/ft. G:58lm/ft. B:12lm/ft. W:54lm/ft. Mix:146lm/ft.	\	
	SPI RGBW 16 pixels/3.28ft. & 4 points/pixel			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:11lm/ft. G:39lm/ft. B:7lm/ft. W:36lm/ft. Mix:93lm/ft.	\	R:11lm/ft. G:39lm/ft. B:7lm/ft. W:30lm/ft. Mix:88lm/ft.	\	
	DMX RGBW 16 pixels/3.28ft. & 4 addresses/pixel			R:620-630nm G:518-528nm B:460-470nm W:2700-6500K	R:8lm/ft. G:37lm/ft. B:7lm/ft. W:39lm/ft. Mix:91lm/ft.	\	R:8lm/ft. G:37lm/ft. B:7lm/ft. W:33lm/ft. Mix:85lm/ft.	\	



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

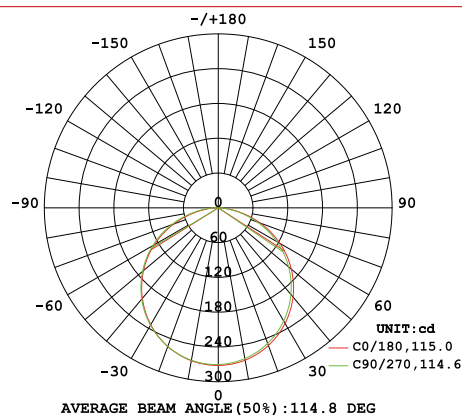
Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

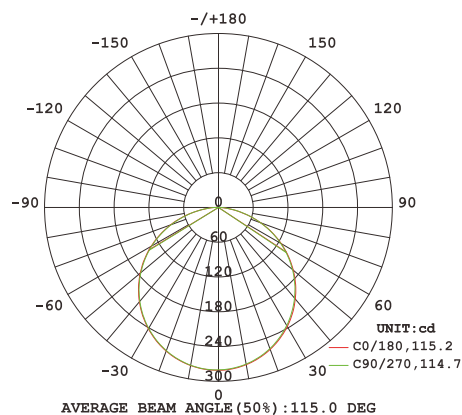
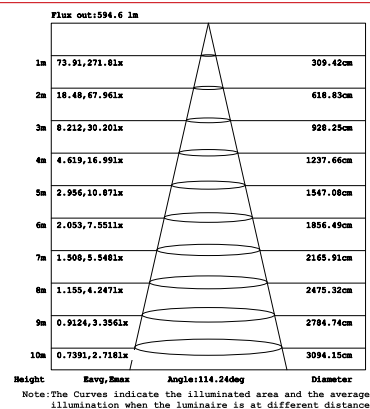
Notes:

Type:**F5**

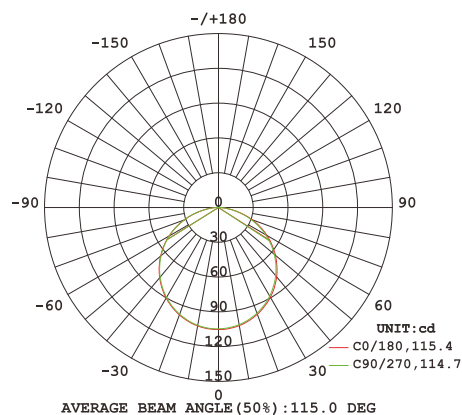
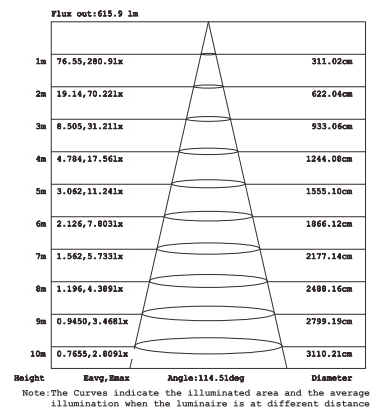
WK25-45367

**FNS - LED Neon Strip****Light Distribution**

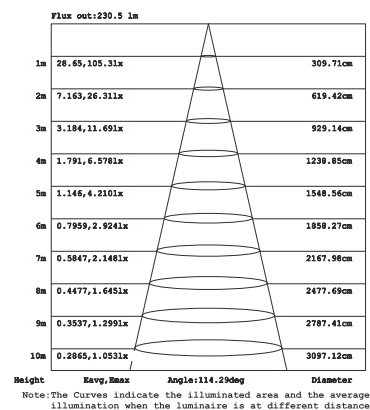
White, 3000K, CRI90



CCT, 2700+6000K, CRI90



RGB



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:

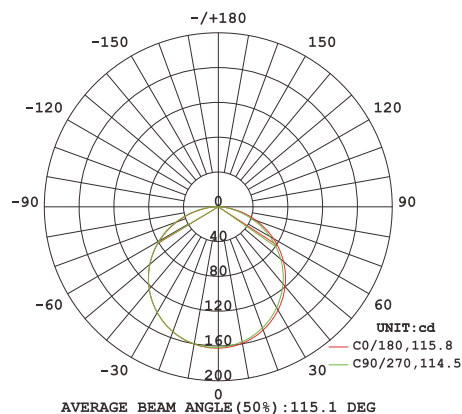
Type:**F5**

WK25-45367

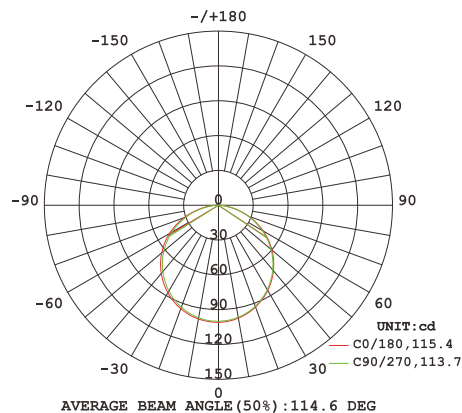
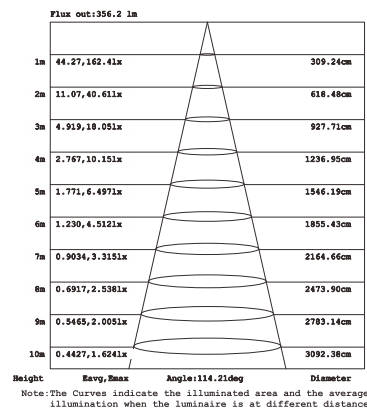


FNS - LED Neon Strip

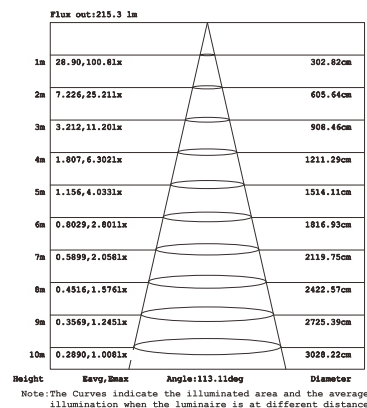
Light Distribution



RGBW, 4000K, CRI90



DMX RGBW, 4000K, CRI90



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

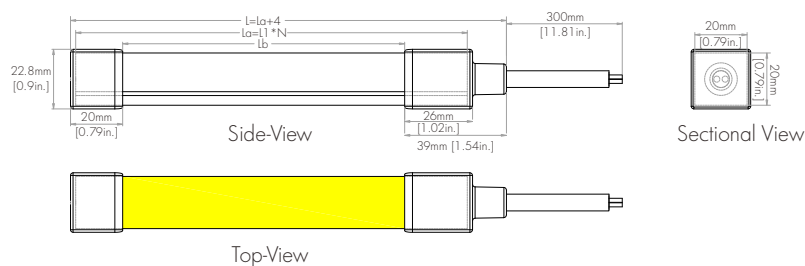
FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:**Type:****F5**

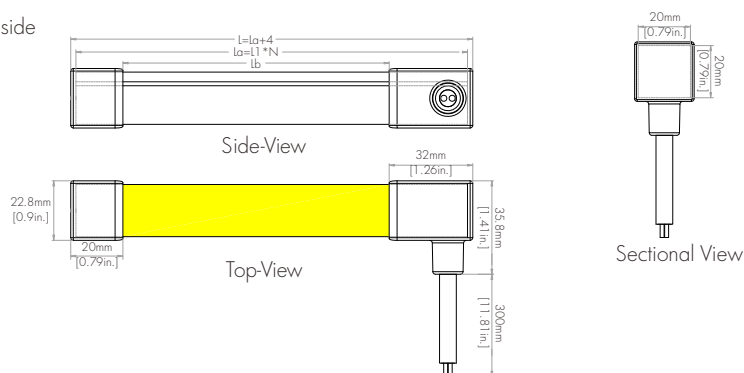
WK25-45367

**FNS - LED Neon Strip****Diagram & Dimensions - Endcap sealed by gluing process**

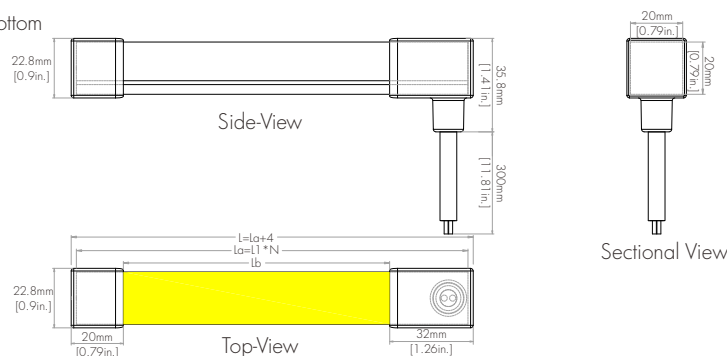
Power entry from the tail



Power entry from the side



Power entry from the bottom



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

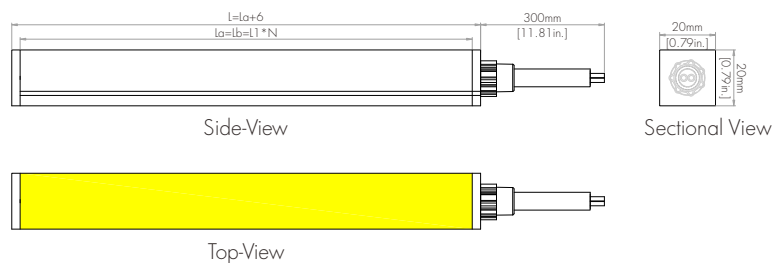
Notes:

Type:**F5**

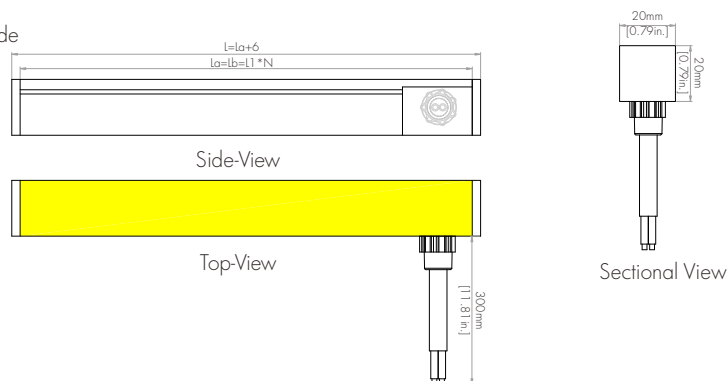
WK25-45367

**FNS - LED Neon Strip****Diagram & Dimensions - Endcap sealed by die-casting process**

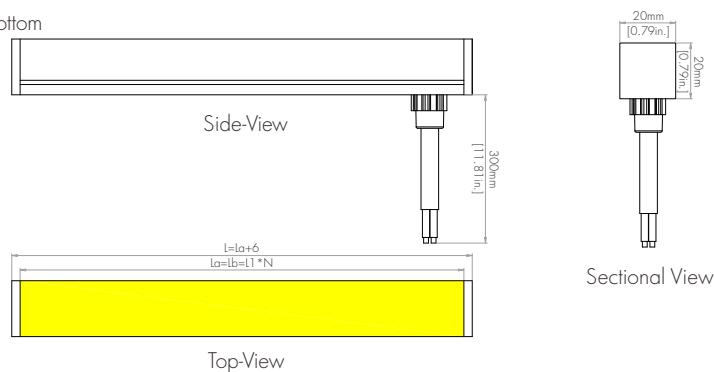
Power entry from the tail



Power entry from the side



Power entry from the bottom



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:

Type:**F5**

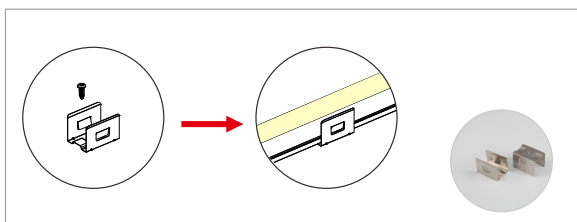
WK25-45367



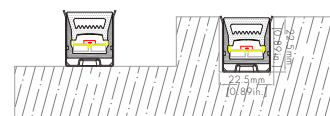
FNS - LED Neon Strip

Installation

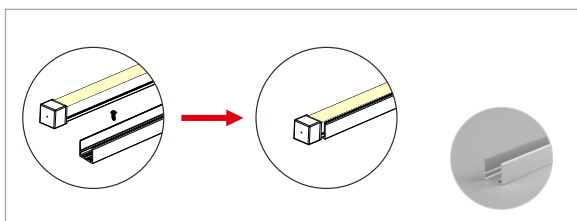
Option 1: Fixed by bracket.



The groove size is shown as below



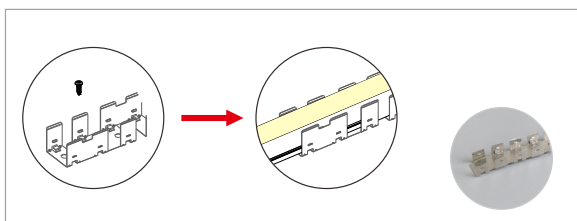
Option 2: Fixed by aluminum channel.



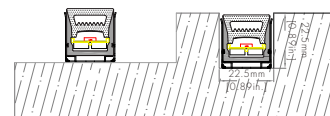
The groove size is shown as below



Option 3: Fixed by bendable bracket.



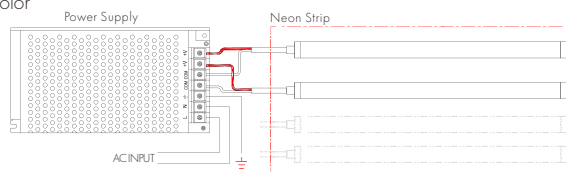
The groove size is shown as below



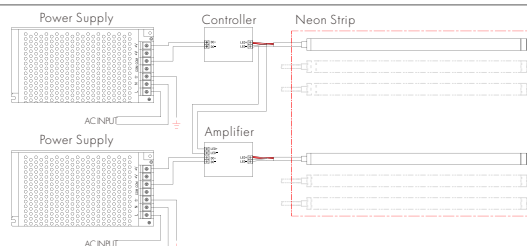
Note: It can also support surface & recessed mounting by gluing process.

Connection

Non-Dimming Status for White Color



Dimming Status for White Color



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

FNS-DB-RGBW-[LENGTH]-24 FNS-AL-FDBCH PS-TSLC-UNV-24V-[WATTAGE]DHV2

Notes:**Type:****F5**

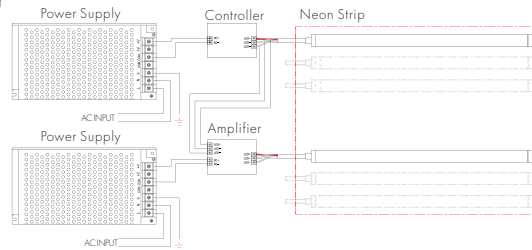
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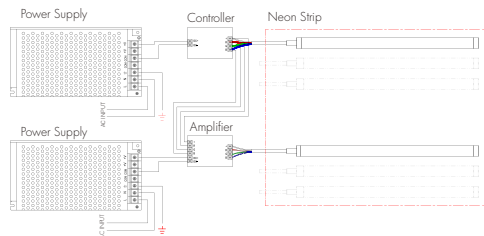
FNS - LED Neon Strip

Connection

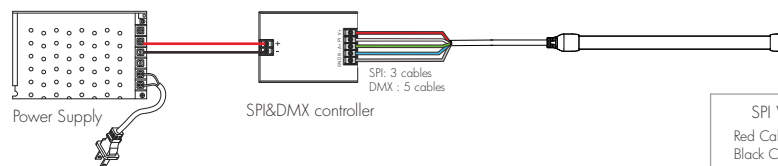
Dimming Status for CCT-Tunable Color



Dimming and tuning status for RGB/RGBW



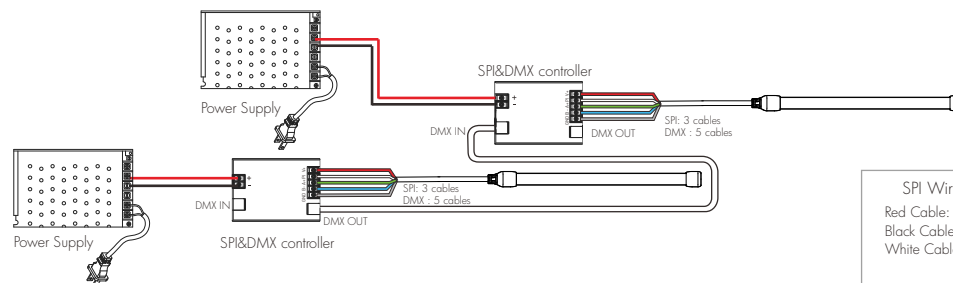
Dimming and tuning status for SPI/DMX RGB/RGBW (option 1)



SPI Wiring
Red Cable: +24V
Black Cable: GND
White Cable: DI

DMX Wiring
Red Cable: +24V
Black Cable: GND
Green Cable: A
Blue Cable: B
White Cable: PI

Dimming and tuning status for SPI/DMX RGB/RGBW (option 2)



SPI Wiring
Red Cable: +24V
Black Cable: GND
White Cable: DI

DMX Wiring
Red Cable: +24V
Black Cable: GND
Green Cable: A
Blue Cable: B
White Cable: PI

Important notice for wiring: the linkable connection must be form DI/PI to Do/PO strictly following the arrow printing on connector. It cannot be connected in reverse, otherwise the product will not work.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

Type:**F6**

WK25-45367



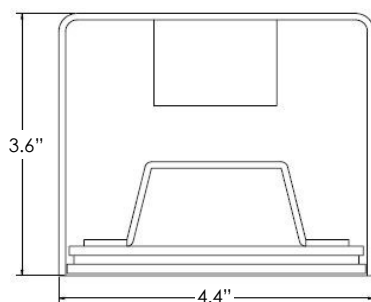
HYDRO BEAM DIRECT



Type:	
Project:	
REP/Agent:	
Order #:	



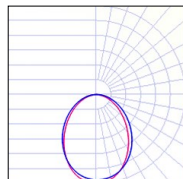
DIMENSIONS



FEATURES

- ★ 2', 3', 4', 6' and 8' individual units
- ★ Fixtures can be linked together for continuous rows
- ★ Efficacy up to 125 lm/W
- ★ Soft diffused direct lighting
- ★ Outdoor powder coat finishes available in white, black silver and bronze
- ★ Premium finishes also available
- ★ 0-10V dimming is standard
- ★ Dim to 10% of output current is standard
- ★ 90 CRI (R9 50min) available
- ★ CA Title 24 / JA8 installation compatible
- ★ Wet Location rated
- ★ IP66
- ★ Impact Protection Rating (IK10)

DISTRIBUTION



SD= SatinIce Diffuse

LUMEN PACKAGES

Based on 3500K CCT. Other CCT available.

MODEL	LUMENS	INPUT WATTS	Lm/W
HYDRO-4-1000-SD-35K	4,000	36	110
HYDRO-8-1000-SD-35K	8,000	67	120





HYDRO BEAM DIRECT

Type:	
Project:	
REP/Agent:	
Order #:	

HYDROD					
SERIES	LENGTH	LUMENS PER FOOT	DISTRIBUTION	CCT	CRI
HYDROD	2= 2FT	350= 350 LPF	SD= SatinIce Diffuse	30K= 3000K	80= 80
	3= 3FT	500= 500 LPF		35K= 3500K	90= 90 (R9 50 min)
	4= 4FT	750= 750 LPF		40K= 4000K	
	6= 6FT	1000= 1000 LPF		50K= 5000K	
	8= 8FT	XXX= Custom LPF			
	xx= Run Length Sxx= Symmetric Run Length	600 LPF			

FINISH	MOUNTING	VOLTAGE	ELECTRICAL
STANDARD PW= Powder Coat White PB= Powder Coat Black PS= Powder Coat Silver PBR= Powder Coat Bronze PREMIUM RALxxx= Powder Coat RAL xxx PSFx= Prem Stock Finish CUSTOM PO= Powder Other See pg. 10 for standard and premium options.	SURFACE MOUNTS* SM(T)= Surface Mount (Top-fed power) SM(E)= Surface Mount (End-fed power) SM(S)= Surface Mount (Side-fed power) WALL MOUNTS WM= Wall Mount ARM= Arm Wall Mount MM= Mullion Mount RM= Rotational Mount (Not Available in Continuous Run) STEMS WITH CANOPY KITS STEMWxx= Stem White, xx" STEMBxx= Stem Black, xx"	U= 120-277	1C= Single Circuit MC= Multiple Circuits (multiple switch legs across run length) EC= Emergency Circuit (separate power drops for EC fixtures)

* 4G Vibration Certified

OPTIONS
BATTERIES #EMB10= 10W EM Battery (# indicates quantity)
SURGE PROTECTOR SRG= Surge Protector
SENSORS MLR= Motion Sensor Large Range**

**Motion sensor option removes dimming ability

EXAMPLE: HYDROD-40-750-SD-35K-80-PW-SM(E)-U-1C-1EMB10

HYDRO BEAM
DIRECT

CONTINUOUS RUN



Continuous runs are configured with 2', 3', 4', 6' and 8' sections up to 50' in total length.

		Total Length																																						
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
# of Sections	2	1			1								1								1								1							1				
	3		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
	4			1			1			1					1					1			1			1		1				1		1				1		
	6					1			1	1		2		1			1	3				1			1	1				1			1	1				1		
	8							1			1		1	1	1	2	1		2	2	2	2	2	3	2	2	3	3	3	3	3	4	3	3	4	4	4	4	4	5

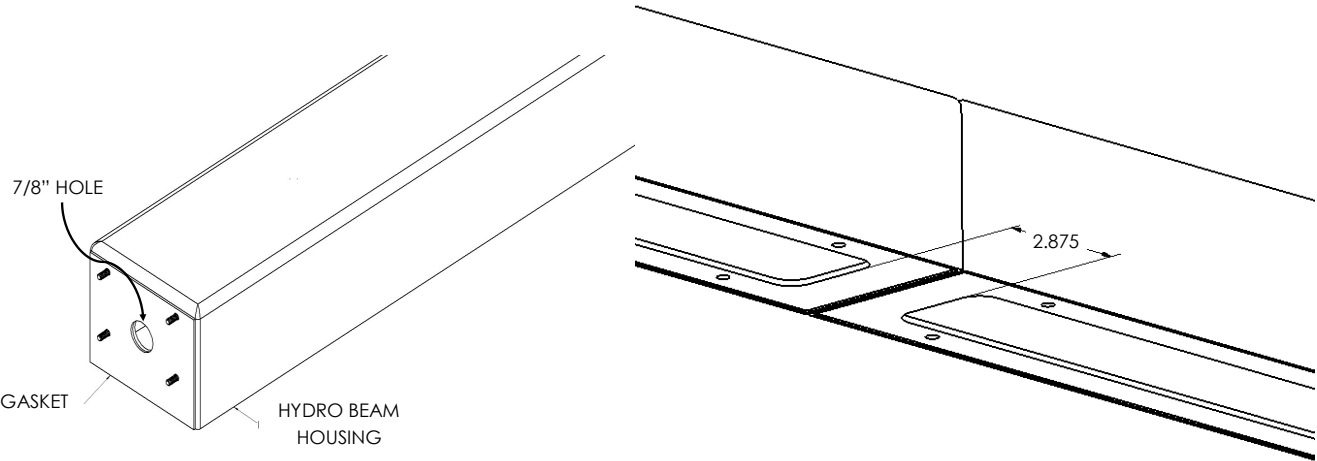
Sxx (Symmetric Run)

The construction of Sxx (y') is to build with equal length fixtures. The xx indicates the run length. The y' indicates the fixture length used to create the run. Please indicate this on your P.O. when placing your order.

S12 (2')	2'	2'	2'	2'	2'	2'
S12 (3')	3'	3'	3'	3'		
S12 (4')	4'	4'	4'			
S12 (6')	6'	6'				

LINKING

Typical continuous run installation shown below.



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

Type:**F6**

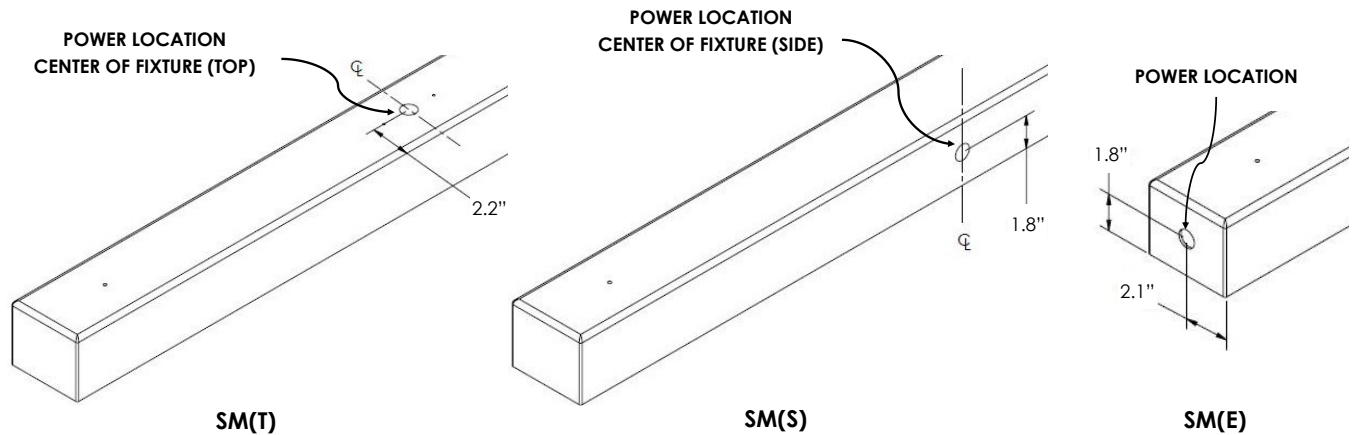
WK25-45367

HYDRO BEAM DIRECT

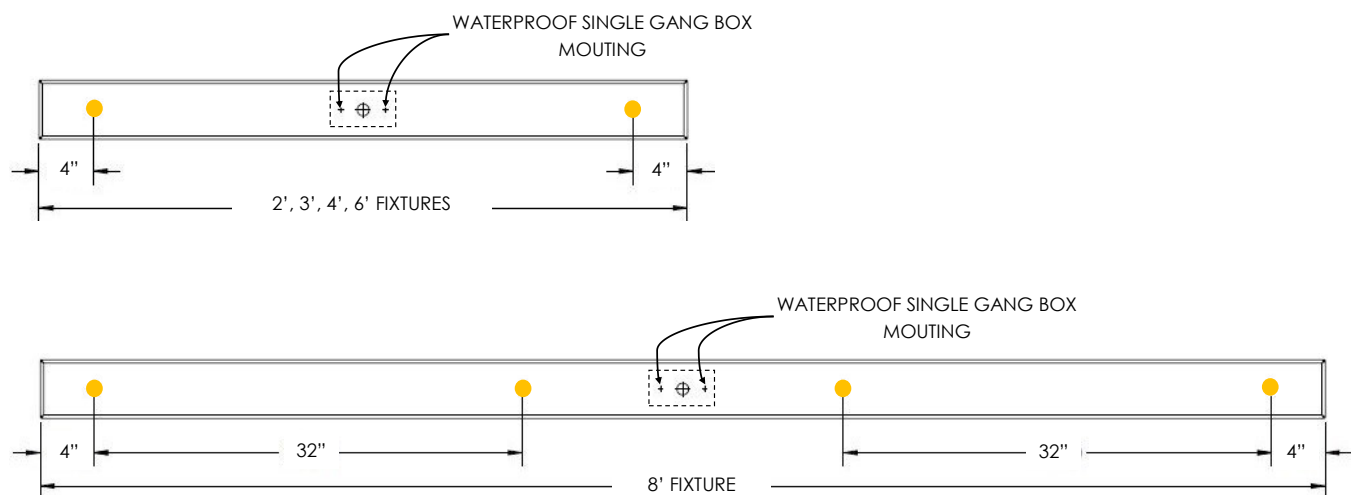
MOUNTING OPTIONS

**SM(X) - Surface Mount (Top, End, or Side - fed power)**

Power to be fed through one (1) 7/8" hole created in the top—SM(T), side—SM(S), or end—SM(E) of the lighting fixture. Hole can accommodate 1/2" conduit. Lighting fixture is to be wired with UL listed wet location fittings per NEC requirements, supplied by others.

**MOUNTING LOCATIONS—SM(T)**

Mounting locations (●) vary between SM(T) option and others due to length and power location. Views below show top of fixtures.



NOTE: Hole size at mounting locations is Ø.266".

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower
Ninth Ward
Architect: WILLIAMS & ASSOCIATES,
ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-
80-[FINISH]-SM(T)-U-1C

Notes:

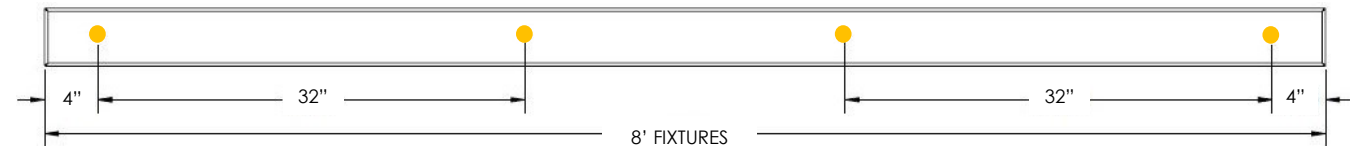
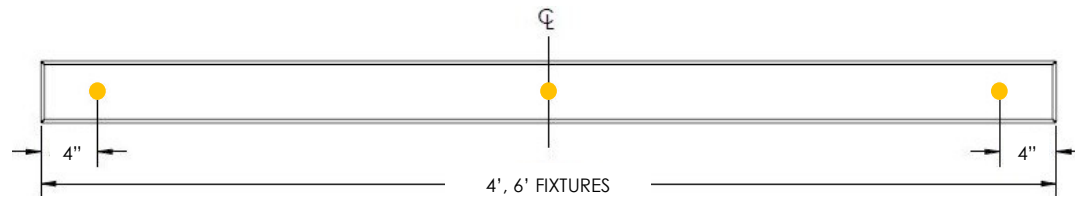
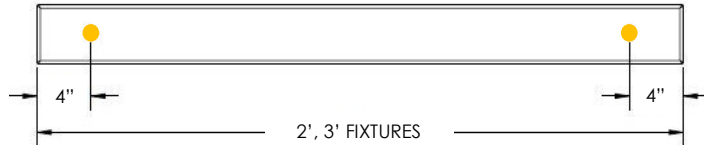
Type:**F6**

WK25-45367

HYDRO BEAM DIRECT

**MOUNTING LOCATIONS—SM(S) & SM(E)**

The number of mounting locations (●) increase as fixtures get longer. Views below show top of fixtures.



NOTE: Hole size at mounting locations is Ø.266".

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
Notes:

Type:**F6**

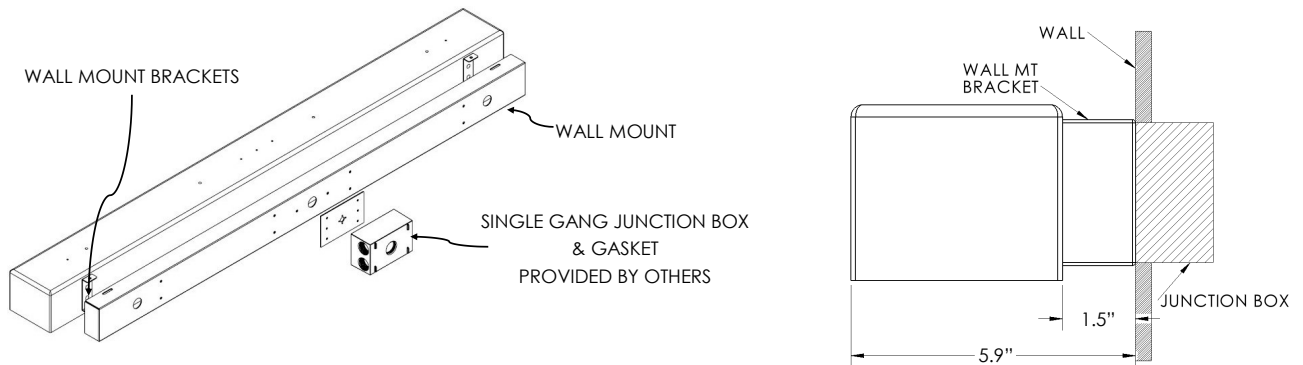
WK25-45367

HYDRO BEAM DIRECT

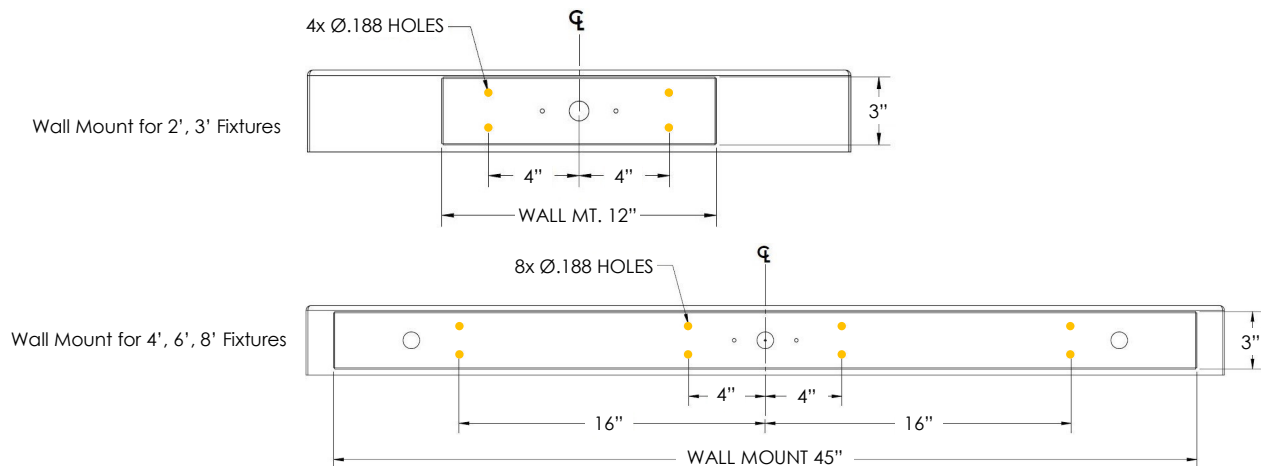
MOUNTING OPTIONS CONTINUED



WM - Wall Mount

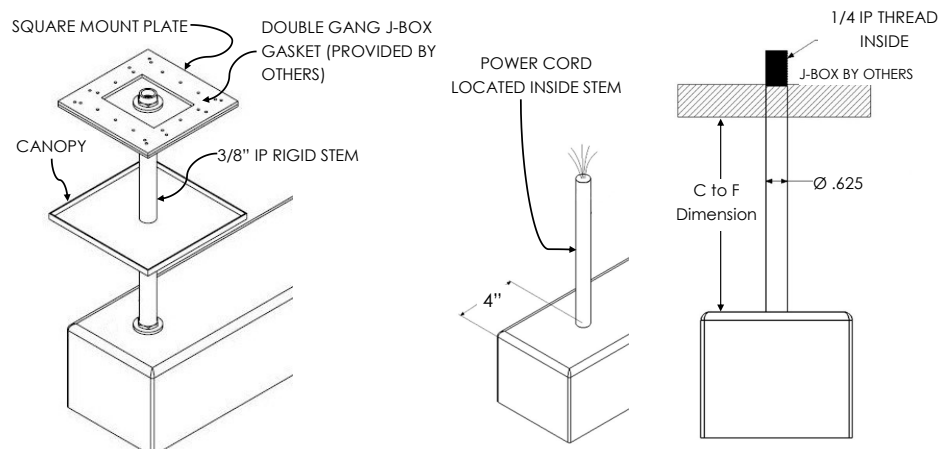


MOUNTING LOCATIONS—WM



STEMXxx - Stem Mount with Canopy

When ordering, please specify stem mount length ("xx" indicates stem length). See table below for stem lengths available. Please also specify the color of the stem ("X" indicates stem color). Stem mounts can be ordered in white (STEMW) or black (STEMB).



Stem Lengths		
STEMX(xx) (C to F)	STEMX(xx) (C to F)	STEMX(xx) (C to F)
6"	24"	60"
8"	27"	66"
9"	30"	72"
12"	36"	78"
15"	42"	84"
18"	48"	90"
21"	54"	96"

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

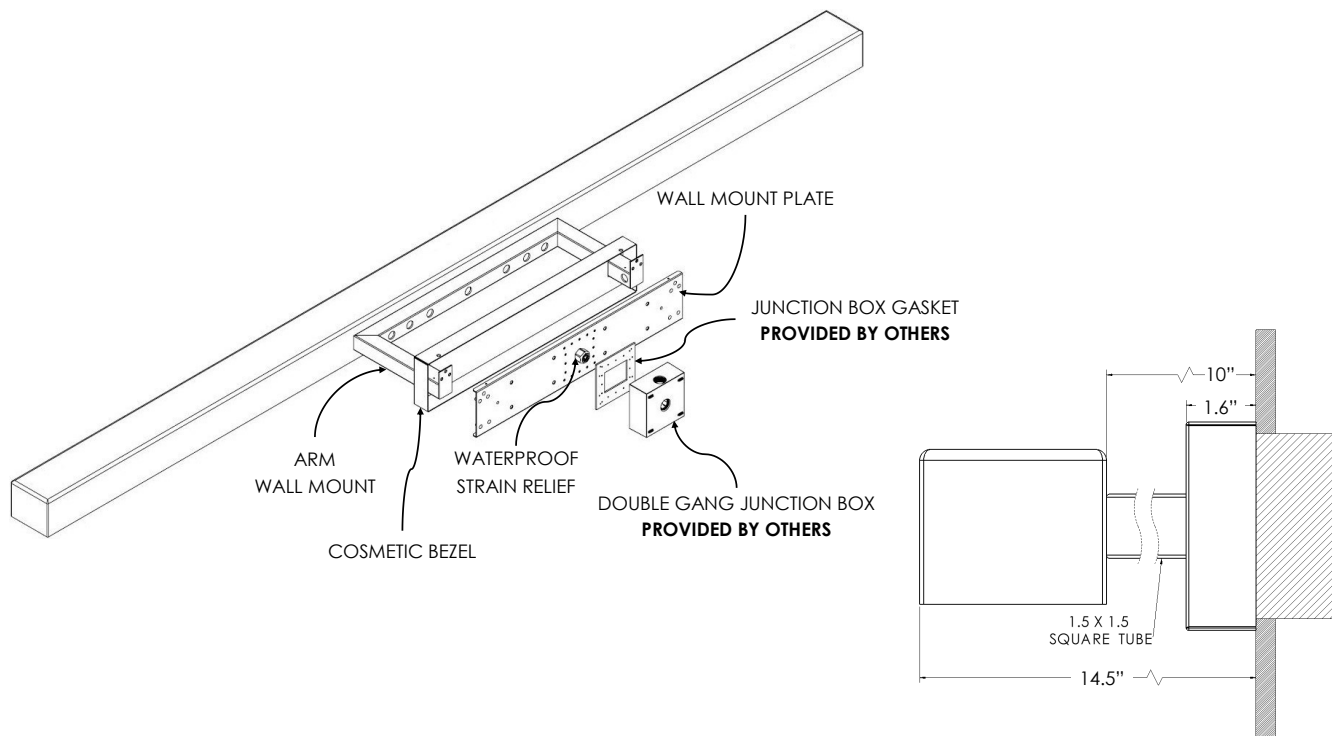
Type:**F6**

WK25-45367

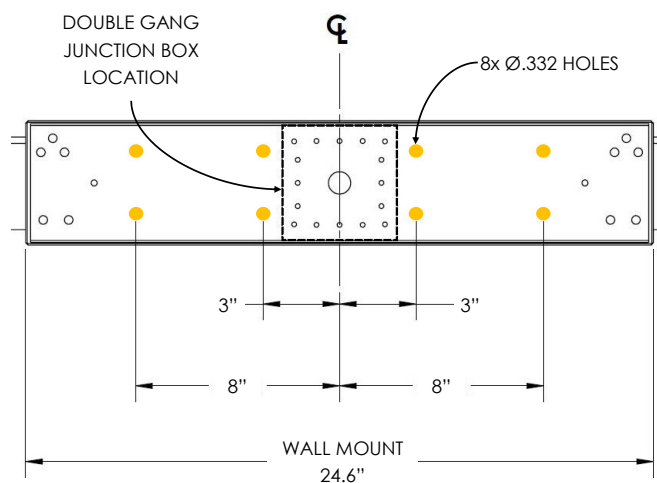
HYDRO BEAM DIRECT

MOUNTING OPTIONS

ARM (Arm Wall Mount)



MOUNTING LOCATIONS—ARM



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C

Notes:

Type:**F6**

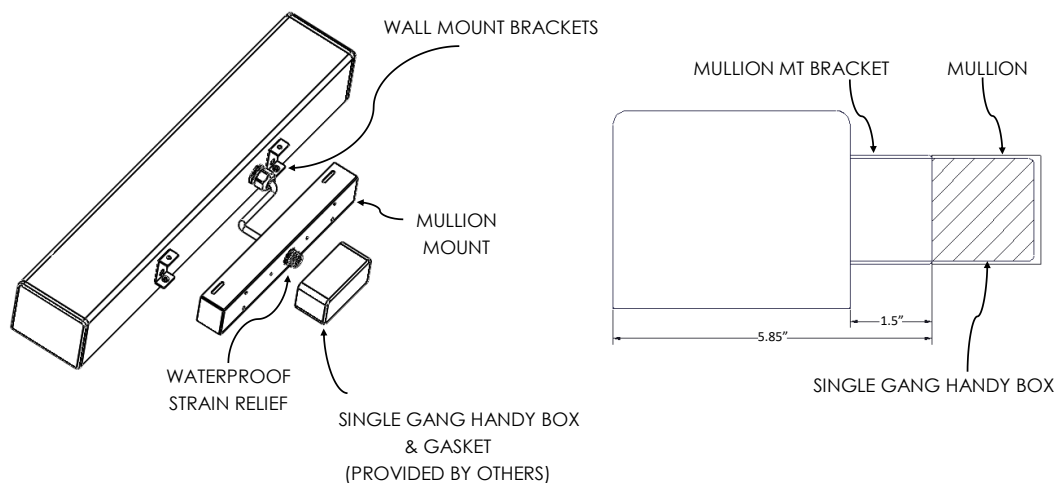
WK25-45367

HYDRO BEAM DIRECT

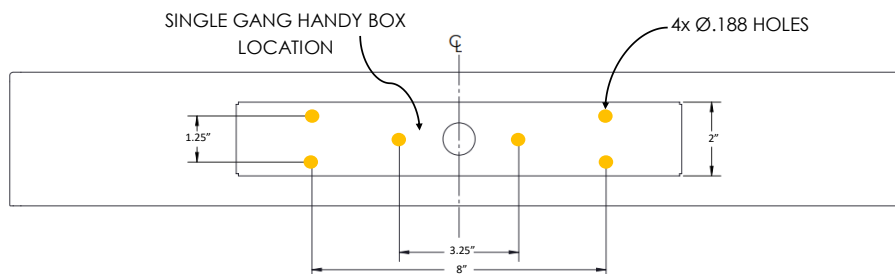
MOUNTING OPTIONS



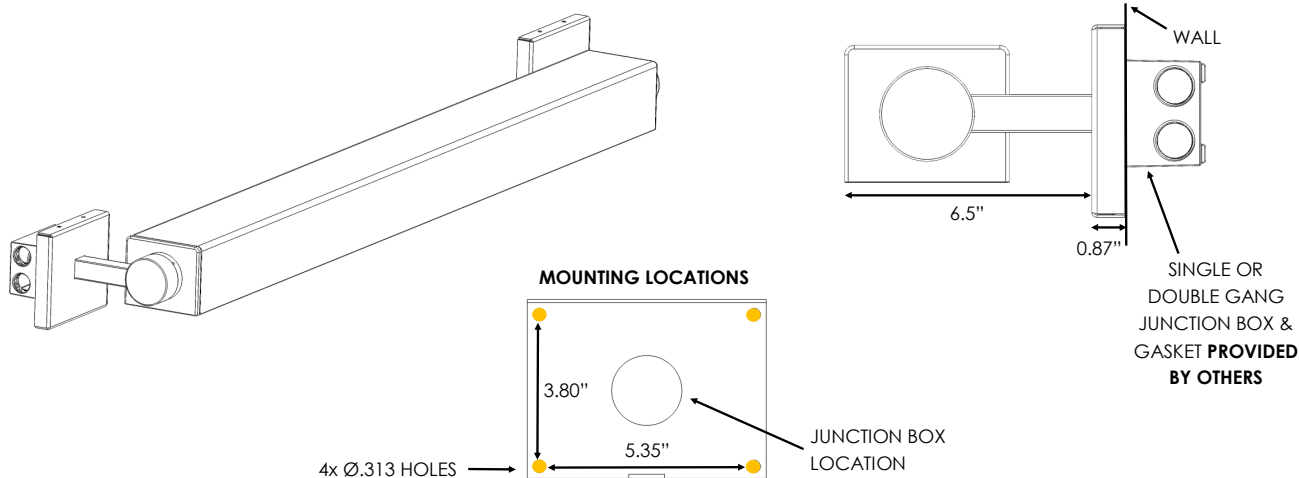
MM (Mullion Mount)



MOUNTING LOCATIONS—MM



RM - Rotational Mount

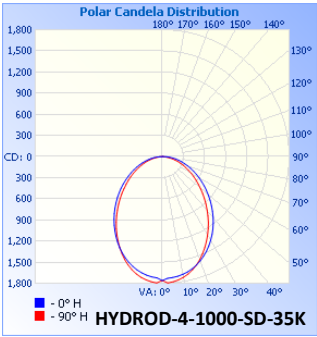


HYDRO BEAM DIRECT



PERFORMANCE

HYDROD-X-1000-SD (80+ CRI)



Model	Lumens	Watts	LPW
HYDROD-4-1000-SD-30K	4000	37	107
HYDROD-4-1000-SD-35K	4000	36	110
HYDROD-4-1000-SD-40K	4000	36	112
HYDROD-4-1000-SD-50K	4000	35	115

Model	Lumens	Watts	LPW
HYDROD-8-1000-SD-30K	8000	68	117
HYDROD-8-1000-SD-35K	8000	67	120
HYDROD-8-1000-SD-40K	8000	66	122
HYDROD-8-1000-SD-50K	8000	64	125

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
 Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

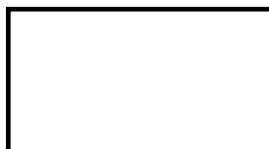
Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
 Notes:

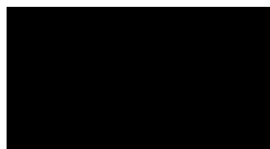
Type:**F6**

WK25-45367

HYDRO BEAM DIRECT

**FINISHES****STANDARD FINISHES**

WHITE MINI TEXTURE



BLACK MINI TEXTURE

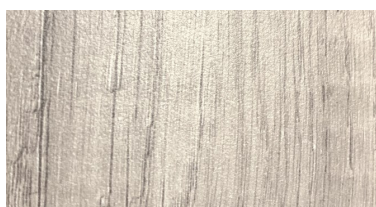


SILVER

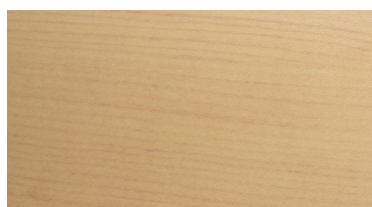


BRONZE

Custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

PREMIUM STOCK FINISHES

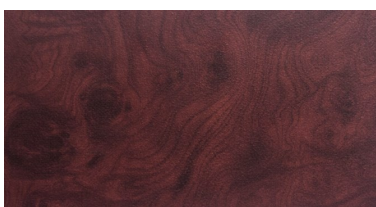
PSF001 (WOOD#1)



PSF002 (WOOD#2)



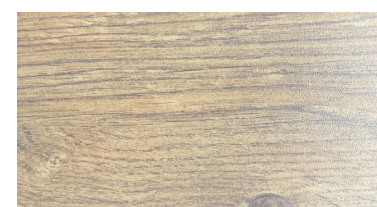
PSF003 (WOOD#3)



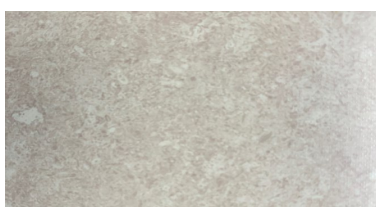
PSF004 (WOOD#4)



PSF005 (WOOD#5)



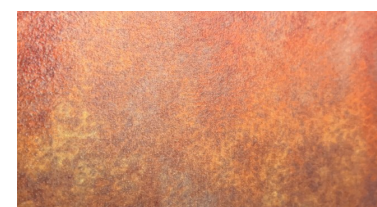
PSF006 (WOOD#6)



PSF007 (STONE #1)



PSF008 (STONE #2)



PSF009 (METAL #1)

NOTE: A minimal impact to lead times will apply to products specified with Premium Stock Finishes (PSF). It is not to be assumed that these finishes are stocked in our warehouse, but rather, are readily available to us for your project.

All other custom finishes (PO) will incur a set up fee and will add an extended lead time to your project.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HYDROD-[LENGTH]-600-SD-[CCT]-80-[FINISH]-SM(T)-U-1C
Notes:

Type:**F6**

WK25-45367

HYDRO BEAM DIRECT



SPECIFICATIONS

Housing

Nominal 3.6" x 4.4" x 0.090 thick aluminum housing

Color

Colors for the housing are available in a powder coated white, black silver and bronze. Consult factory for custom colors.

Luminaire Length

2', 3', 4', 6' or 8' lengths are available for a single stand-alone section. Using contractor provided conduit, sections can be joined to form longer rows up to 50'.

Lensing

0.125" Thick Impact resistant outdoor (F1) rated polycarbonate lensing.

Source

Variable lumen packages are available in four color temperature options (3000K, 3500K, 4000K and 5000K) — all within 3 MacAdam ellipses.

Certification

Intertek cETLus Wet Location Listed, RoHS (Restriction of Hazardous Substances) and Buy American Act Compliant.

Battery

Bodine battery providing up to 1200lm(10W) for 90 minutes. UL924 listed, Class 2 compliant. Meets Title 20 CEC (California Energy Commission) efficiency standards.

Environment

Suitable for dry, damp, and wet locations.

Operating temp.: -40°C to +50°C

-40°F to +122°F

Dimming Driver

Osram Optotronic Outdoor LED Driver allows tunable output currents to achieve infinite configurations of output. UL Class P recognized. 0-10v interface can be wired as Class 1 or Class 2 circuit.

Packaging

Sustainably manufactured outside cardboard box and biodegradable, protective poly-foam luminaire inserts.

WARRANTY

5-year limited warranty. Complete warranty terms can be located at:

https://starteklightingamerica.com/wp-content/uploads/2019/11/Hydro_Beam_Warranty.pdf

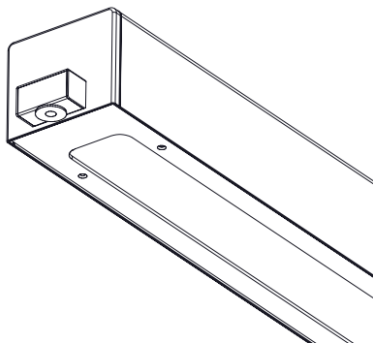
Note: Actual performance may differ as a result of installation environment and final application.

All values are design or typical values, measured under laboratory conditions, at 25°C (77°F) .

CONTROL

Sensor

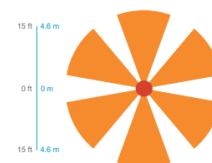
VERTEX Fixture Integrated Occupancy Sensor with Dimming Photocell. Ideal for standalone or network lighting control applications. Its ultra-small footprint enables seamless integration into an indoor or outdoor luminaires without disrupting aesthetics or requiring additional mounting space. Its versatility allows for mounting at various heights up to 15ft detecting major and minor motion movement.

**COVERAGE PATTERNS****Motion Sensor Large Range**

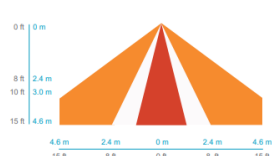
- Optimized full coverage from 8 ft - 15 ft (2.4 m - 4.5 m) mounting heights
- Reliable detection of large motion (e.g. pedestrian walking traffic)
- 1.3 x's mounting height equals approximate detection range



TOP VIEW



SIDE VIEW

**Specification**

Input Rating : 3.3V-5V(Voltage), 5mW (Mega Power)

Environmental Specification : -10°C - 70°C (Std. Operating Temp.), -40°C - 70°C (LT Operating Temp)

Output Rating : Not Applicable



MODEL **1054KM** | Specification Sheet
Commercial Series • Linear Floodlight • LED

TYPE: MODEL:
PROJECT:

PRODUCT FEATURES



Wattage	52 or 72 W
Voltage	120 – 277 VAC
Lumens	4791-8391 Delivered Lumens
Distribution	NEMA type [H x V]: 7x7 (WW), 7x4 (WG), 7x4 (NS), 7x5 (MF), 7x7 (WF), 7x5 (AS)
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	80 CRI min.
Dimming	0-10V or Phase Cut (TRIAC/ELV-120VAC only) available
Driver	Multi-Volt 120-277VAC with tri-modal dimming capabilities
Dimensions	48" W x 8 1/2" H x 3" D



ORDERING INFORMATION

EXAMPLE: 1054KM-B-MF-27-A-MV-PCT-GS

MODEL	FINISH	DISTRIBUTION	COLOR TEMP	LUMENS	VOLTAGE	DIMMING	ACCESSORIES
1054KM					MV		

MODEL	FINISH				DISTRIBUTION					
1054KM	B	Black	BR	Architectural Brick	G	Verde	WW	Wall Wash		
	Z	Architectural Bronze	LZ	Light Bronze	P	Pewter	WG	Wall Grazer		
	DZ	Dark Bronze	SB	Special Bronze	M	Mocha	NS	Narrow		
	GT	Granite	GG	Glossy Gray	OF	Olde Finish	MF	Medium Flood		
	W	White	R	Rust			WF	Wide Flood		
			HG	Hunter Green			AS	Asymmetric		
			WB	Weathered Bronze						
			WI	Weathered Iron						
			GM	Graphite Metallic						
COLOR TEMPERATURE	DELIVERED LUMENS		VOLTAGE	DIMMING		ACCESSORIES				
27	2700K		A	4000 (min.)	MV	Multi Volt	ND	Non Dimming	GS	Internal Glare Shield
30	3000K						010	0-10V	VR	Polycarbonate Lens
35	3500K						PCT	Phase Cut (TRIAC/ELV-120VAC only)		
40	4000K									
50	5000K									



PROFESSIONAL
OUTDOOR LIGHTING

www.VistaPro.com • email@vistapro.com • Fax: (888) 670-VISTA (8478)
1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478)
Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

Page 1 of 3
REV 02.11.25

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

1054KM-[FINISH]-WF-[CCT]-B-MV-010

Notes:

Type:

F7

WK25-45367



COMMERCIAL
OUTDOOR LIGHTING

MODEL 1054KM | Specification Sheet

Commercial Series • Linear Floodlight • LED

SPECIFICATIONS

HOUSING:

Extruded aluminum body with die-cast aluminum end caps and mountings. Optic and driver compartment environmentally sealed. Housing aimable utilizing Vista's patented Infinity Knuckle.

FINISH:

Powder coat finish available in Black, Architectural Bronze, Dark Bronze, Granite, White, Architectural Brick, Light Bronze, Special Bronze, Glossy Gray, Rust, Hunter Green, Weathered Bronze, Weathered Iron, Graphite Metallic, Verde, Pewter, Mocha and Olde Finish. Custom Powder coat finishes available on request.

REFLECTOR:

Specular or semi-specular extruded aluminum optics anodized and bright dipped for maximum reflectivity.

LENS:

4mm (.164") thick tempered and beveled clear glass. Permanently affixed and sealed to the optics housing with RTV silicon. Masked frit opening (black only) available.

ACCESSORIES:

Internal Glare Shield **GS**.
Polycarbonate Lens **VR**.

WIRING:

Prewired with 150° C-rated wire.
Electrical wires are routed through the right-side facing Infinity Knuckle.

MOUNTING:

Infinity Knuckle – Die-cast, copper-free aluminum, stainless steel stem with 1/2" NPT thread. A fully sealed spherical grommet allows for precise aiming and retention.

CERTIFICATIONS | STANDARDS | COMPLIANCE:

- UL Certified for wet locations (USA & Canada) | (UL)
- Ingress Protection Rating: **IP66**
- Buy American Act (**BAA**)
- Build America, Buy America Act (**BABA**)

LED:

Mid-power linear LED driven at 1000mA or 1400mA.
4000+ or 6400+ Lumens delivered (1000+ or 1600+ per lineal foot).
52 or 72 Watts (13W or 19W per lineal foot).

COLOR TEMPERATURE:

2700K, 3000K, 3500K, 4000K or 5000K CCT White.

COLOR RENDERING:

80 CRI minimum

OPTICS/AIMING:

NEMA defined floodlight optics with wide lateral throws – extruded aluminum.

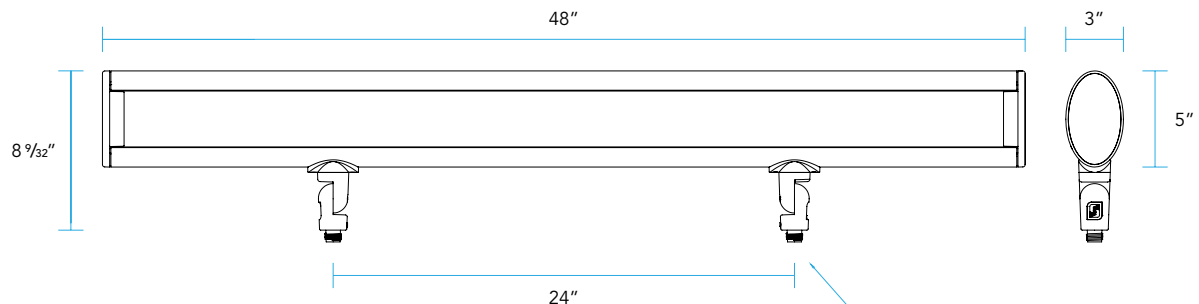
DRIVER:

Multi-Volt MV 120V-277V equipped with tri-modal dimming capabilities.
Start up/Operating Temperature: -10°C to +50°C.
Non-dimmable, 0-10V and Phase Cut (TRIAC/ELV-120VAC only) options available.

LIGHT DISTRIBUTION:

Wall Wash (NEMA 7H x 7V), Wall Grazer (NEMA 7H x 4V),
Narrow (NEMA 7H x 4V), Medium Flood (NEMA 7H x 5V),
Wide Flood (NEMA 7H x 7V), Asymmetric (NEMA 7H x 5V)
distributions available.

DIMENSIONS

**NOTE:**

Electrical wires are routed through the right-side facing Infinity Knuckle.



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Page 2 of 3
REV 02.11.25



COMMERCIAL
OUTDOOR LIGHTING

MODEL **1054KM** | Specification Sheet
Commercial Series • Linear Floodlight • LED

DELIVERED LUMENS PACKAGE SPECIFICATIONS

BEAM SPREAD	A	B
Wall Wash WW	52 Watts 5335 Lumens	72 Watts 7232 Lumens
Wall Grazer WG	52 Watts 6122 Lumens	72 Watts 8391 Lumens
Narrow NS	52 Watts 4791 Lumens	72 Watts 6792 Lumens
Medium Flood MF	52 Watts 5989 Lumens	72 Watts 8155 Lumens
Wide Flood WF	52 Watts 5099 Lumens	72 Watts 7123 Lumens
Asymmetric AS	55.5 Watts 5990 Lumens	72 Watts 8191 Lumens

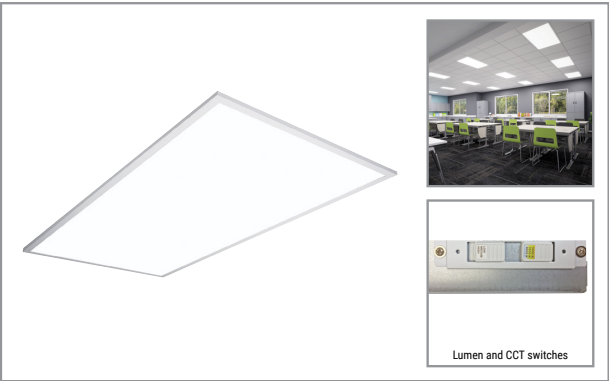


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REV 02.11.25

Project		Catalog #		Type	
Prepared by		Notes		Date	




Metalux

FPS LED

LED Edge Lit Panel with Selectable Lumens and CCT

Typical Applications
• Offices • Education • Healthcare • Retail

- 
Interactive Menu
 - Order Information page 2
 - Photometric Data page 3
 - Product Warranty

Product Certification

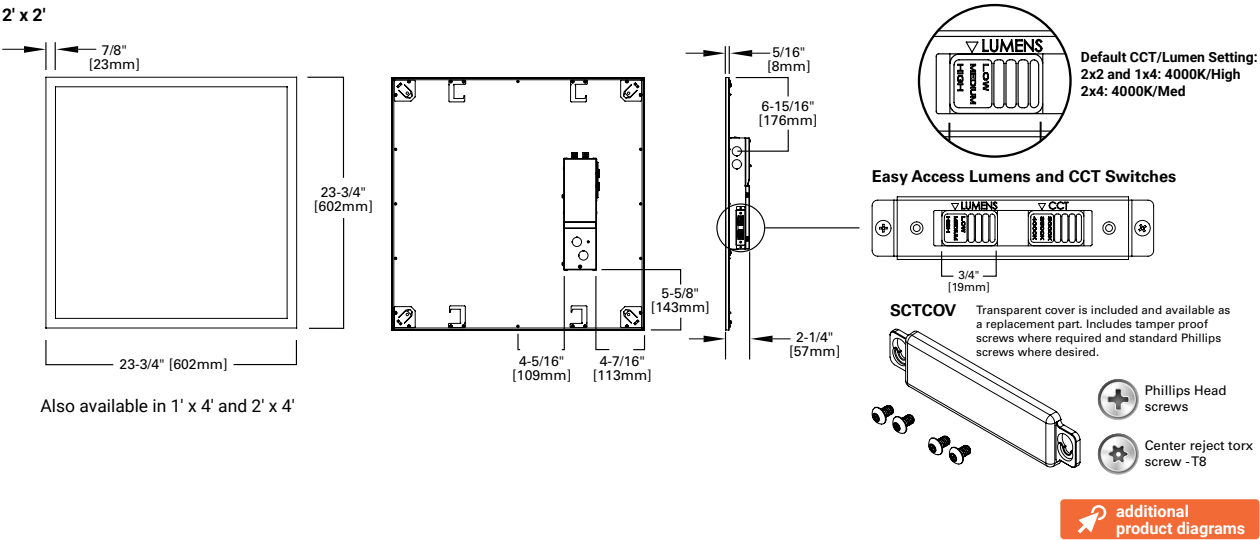


Product Features



Top Product Features

- Ultra-thin approx. 2 inch height fits in shallow plenums with room to spare
- Simple switch to adjust lumens, watts and CCT on site as desired
- Switch tamper cover included
- Projected lumen maintenance based on TM21 testing standards is L87 > 60,000 hours
- 1x4, 2x2, and 2x4 sizes available, all rated for direct insulation contact (IC rated)



Metalux

FPS LED

Ordering Information/Performance

Default CCT/Lumen Setting: 2x2 and 1x4: 4000K/High
2x4: 4000K/Med

		Low	Medium	High
24FPSL2SCT3	4000K	27.2W 3180lm 117LPW	40.2W 4620lm 115LPW	56.3W 6300lm 112LPW
	3500K	27.2W 3150lm 116LPW	40.2W 4550lm 113LPW	56.3W 6250lm 111LPW
	3000K	27.2W 3100lm 114LPW	40.2W 4500lm 112LPW	56.3W 6200lm 110LPW
14FPSL1SCT3	4000K	18W 2070lm 115LPW	27W 3100lm 115LPW	36.3W 4100lm 113LPW
	3500K	18W 2040lm 113LPW	27W 3050lm 113LPW	36.3W 4050lm 111LPW
	3000K	18W 2000lm 112LPW	27W 3000lm 111LPW	36.3W 4000lm 110LPW
22FPSL2SCT3	4000K	15.2W 1750lm 115LPW	21.6W 2460lm 114LPW	31W 3500lm 113LPW
	3500K	15.2W 1720lm 113LPW	21.6W 2420lm 112LPW	31W 3440lm 111LPW
	3000K	15.2W 1700lm 112LPW	21.6W 2400lm 111LPW	31W 3400lm 110LPW

Options

Catalog	Description	Example	Notes
EL7W ⁽¹⁾	7W EM Pack, Installed	24FPSL2SCT3-EL7W	Remote Indicator/Test Switch
EL10W ⁽¹⁾	10W EM Pack, Installed	24FPSL2SCT3-EL10W	Remote Indicator/Test Switch
EL14W ⁽¹⁾	14W EM Pack, Installed	24FPSL2SCT3-EL14W	Remote Indicator/Test Switch
A3/8-4/18GDIM	6' Length, 3/8" Cable, 2 Wire, 2 Dimming Leads, Ground	24FPSL2SCT3-A3/8-4/18G DIM	

Notes: (1) Factory installed with remote test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. Battery option increases total height by 1 inch.

Shipping Data

Fixture Size	Pallet Size	Units per Pallet
1' x 4'	52" x 49"	48
2' x 2'	53" x 49"	40
2' x 4'	53" x 49"	20

Metalux

FPS LED

Regress Frame Ordering Information

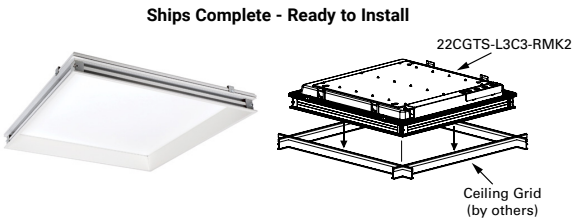
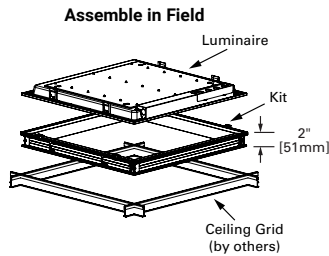
Field Assembly Kit

Regress Mount Kit

Catalog No.	Description	UPC	Size
RMK2-14-W	1x4 Regress Mount Kit	080083288021	1x4
RMK2-22-W	2x2 Regress Mount Kit	080083287185	2x2
RMK2-24-W	2x4 Regress Mount Kit	080083288007	2x4

Factory Installed with Luminaire

Catalog	Description	Example
-RMK2	1x4, 2x2 or 2x4 assembled together with luminaire. Ships as one unit – Regress frame and Fixture	22FPSL2SCT3-RMK2



Accessories

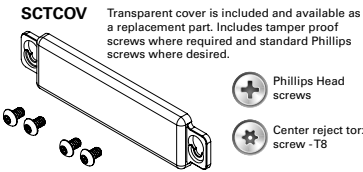
Drywall Frame Kit

Catalog	UPC	Size
DF-24W-U	662401232970	2x4
DF-22W-U	662401232963	2x2
DF-14W-U	662401232949	1x4

Surface Mount Kit

Catalog	UPC	Size
FPXSURF24	080083867400	2x4
FPXSURF22	080083867387	2x2
FPXSURF14	080083867424	1x4

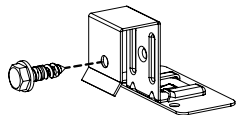
Note: Use surface kit to suspend 2x4 and 1x4.



Ceiling Retention

Catalog	UPC
FPEQ	080083802685

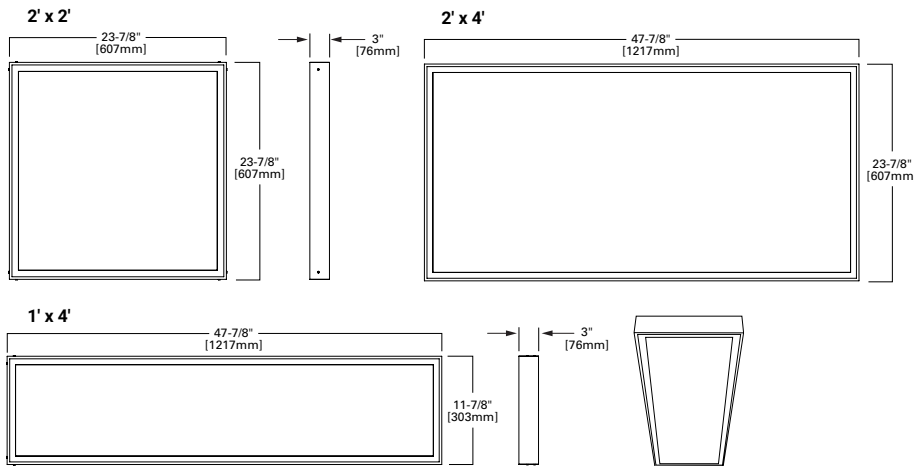
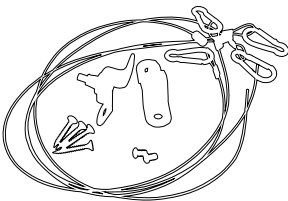
Required by some local codes. Order one set for each fixture (Four clips per kit)



Suspension Kit

Catalog	UPC
FPSUS24-B	080083876686
FPSUS24	080083258895

Mounting height from ceiling
Min. = 7-1/4" [184mm]
Max. = 27" [286mm]



**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:
24FPSL2SCT3

Notes:

Type:

FA

WK25-45367

Metalux**FPS LED****Product Specifications****Construction**

- Narrow aluminum bezel is tightly held to code gauge steel back plate
- Seamless corners to maximize the light emitting surface with a refined finish

Mounting

- Integral grid clips and separate suspension clips provided for installation flexibility
- Junction box constructed of code gauge galvanized steel with an easy access hinged door
- Multiple Trade size KO provided and JBox is suitable for up to 12AWG wiring
- Topside KO for use with MWS
- Stock luminaire is less than 2 inches for use in shallow plenum or low ceiling spaces
- Surface or suspension mounting kits available. Direct suspension of 2x2 only. 2x4 and 1x4 suspend with the surface mount kit.
- Factory installed flexible cable with dimming leads options available

Warranty

- Five-year limited warranty.

Controls

- Standard UNV 120-277V driver with 0-10V dimming to 10% standard
- Compatible with field installed wireless controls available for either Wavelinx or LumaWatt Pro

Electrical

- 3000K/3500K/4000K at minimum 80 CRI and three lumen options
- Projected lumen maintenance based on TM21 testing standards is L87 > 60,000 hours
- Complies with FCC Class B rating for use in residential spaces
- Installed Flex options available

Optical Shielding

- Light guide with specialized features to optimize light extraction
- White frost lens with smooth pattern for uniform illumination
- Scratch and impact resistant lens

Regress Frame

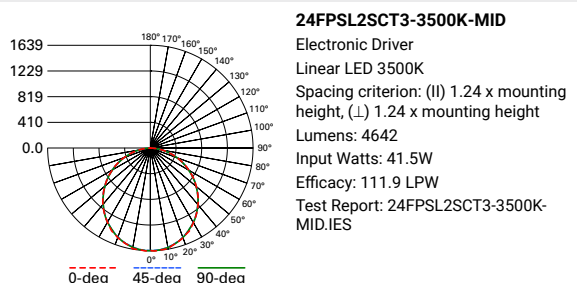
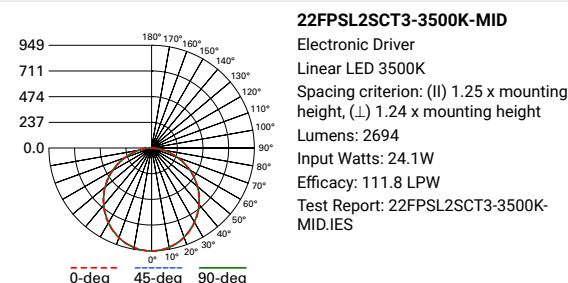
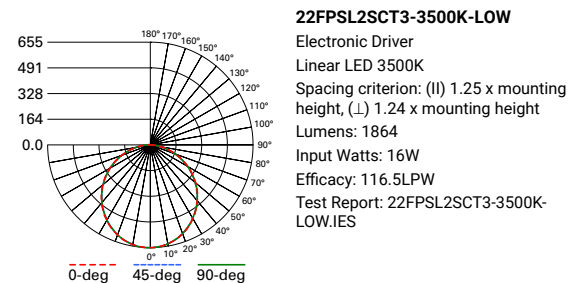
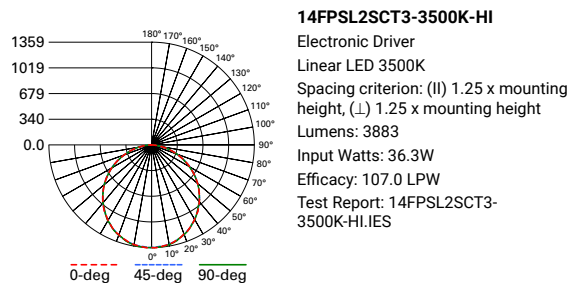
- Factory installed option available for ship complete, single unit to speed install. See fixture ordering logic
- Fits CGTS, CGT, FPS, and FP. Consult factory for additional luminaire choices
- Extruded aluminum frame with miter corners at 2" nominal height
- Regress kit does not alter design or construction of luminaire
- Accessory kit also available

Compliance

- Indoor luminaires are cULus listed for 25C ambient environments
- IC rated for direct insulation contact
- RoHS compliant
- Damp location listed
- IESNA LM-79 and LM-80 standards compliant
- DesignLights Consortium qualified and classified for DLC Standard
- Meets IP5X rating from the room side with no modification needed
- Fixture is rated for NSF/ANSI standard 2 - Light fixture for Splash Zone and Non-Food Zone

Emergency Battery Options

- 120V-277V integral emergency battery pack comes in 7-watts, 10-watt, or 14-watts
- Constant power to the LED system for controlled, predictable discharge
- Remote test switch/indicator light
- Min. 90-minute backup period for code compliance

Photometric Data
[View IES files](#)


**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

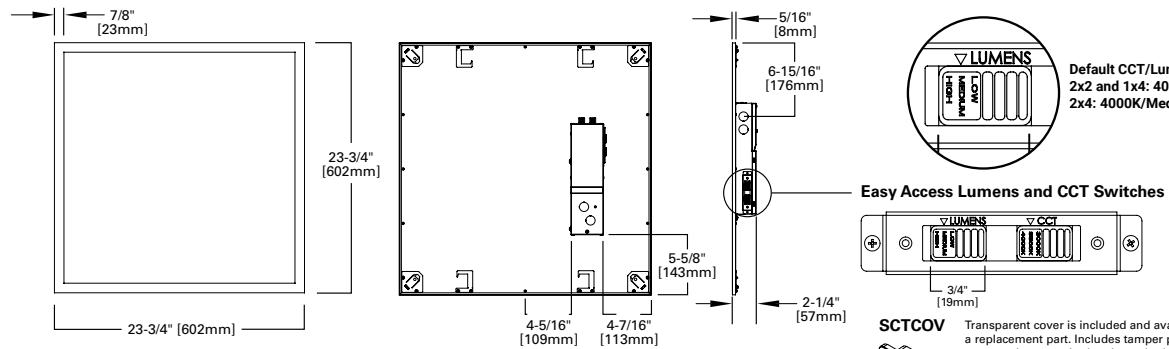
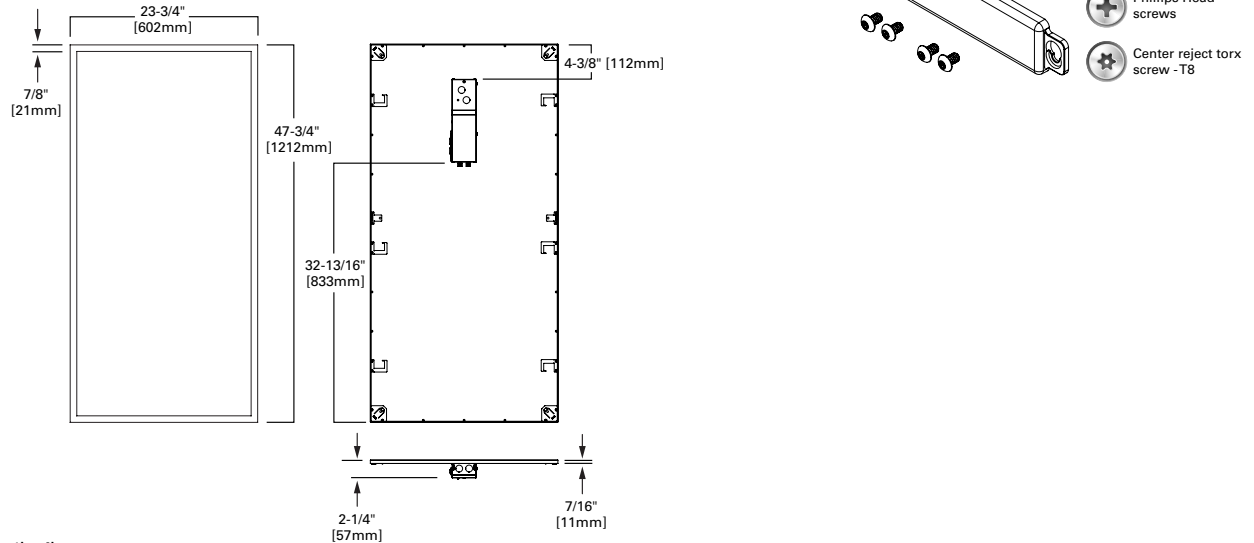
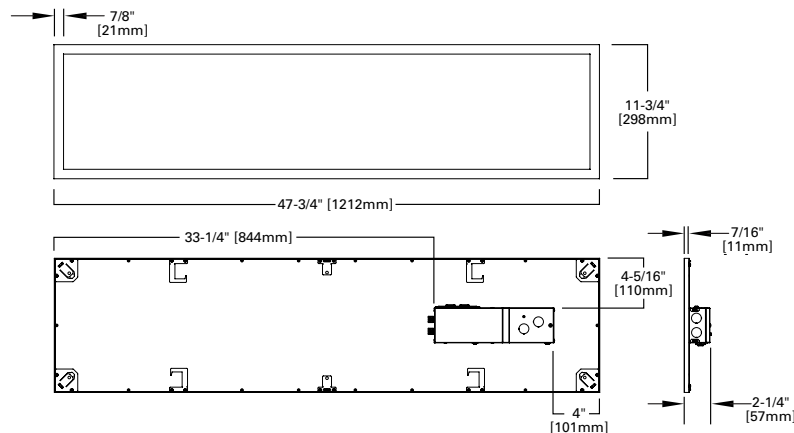
Catalog Number:
24FPSL2SCT3

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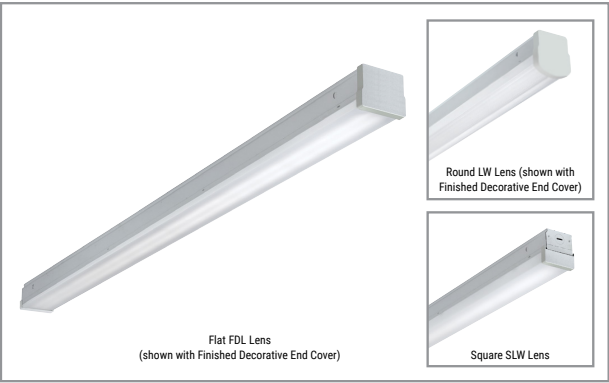
Type:

FA

WK25-45367

Metalux**FPS LED****Dimensional and Mounting Details****2' x 2'****2' x 4'****1' x 4'**

Project		Catalog #		Type	
Prepared by		Notes		Date	




Metalux

SNX Lensed

Flat, Round and Square Lens Linear LED Striplight

Typical Applications

Commercial • Cove • Warehouse/Distribution • Retail • Industrial • General Aisle or Open Areas • Utility/Storage Rooms



Interactive Menu

- Order Information [page 2](#)
- Photometrics [page 4](#)
- Energy and Performance Data [page 5](#)
- Control Solutions [page 10](#)
- Product Warranty

Product Certification








Product Features












Top Product Features

- Standard (SL) and High lumen/High Efficacy (HL) packages
- Three (3) CCT and Lumen selectable options available
- Up to 21,000 lumen and 174 LPW
- General, Narrow or Wide distributions
- Decorative end cover and multiple finishes provide a polished look
- Integral factory installed controls option allows more energy savings
- Captive lens, electrical, and channel cover assembly
- Tool-less channel cover and electrical assembly
- Options to meet Buy American and other domestic preference requirements


Dimensional Details


End View - Round Lens

End View - Square Lens

End View - Flat Lens

Finished Decorative End Covers


[additional product diagrams](#)



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December 10, 2024 1:59 PM

Submitted On: Jun 16, 2025
1/10
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Metalux

SNX Lensed

Order Information SAMPLE ORDER NUMBERS: 4SNX-48SL-LN-UNV-L835-CD1-U or 8TSNX-180HL-SLW-UNV-EL7W-L840-CD2-U

Domestic Preferences ⁽¹⁾	Length		Series
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	2=2 ft.	4=4 ft.	8T=8 ft. SNX=Commercial LED Striplight ⁽²⁾

Standard Nominal Lumen Packages ⁽³⁾					
2 ft		4 ft		8 ft	
SL3 ⁽²⁵⁾	SL3 ⁽²⁵⁾	60SL	SL3 ^{(5), (25)}	114SL ⁽⁵⁾	
19SL	20SL	63SL	40SL	120SL ⁽⁵⁾	
23SL	22SL	67SL	44SL	126SL ⁽⁵⁾	
25SL	26SL	74HL	52SL	134SL ⁽⁵⁾	
30SL	31SL	81HL	62SL	148HL ⁽⁵⁾	
40HL	33SL	84HL	66SL	162HL ⁽⁵⁾	
44HL	37SL	87HL	74SL	168HL ⁽⁵⁾	
47HL	41SL	90HL	82SL	174HL ⁽⁵⁾	
	45SL	93HL	90SL	180HL ⁽⁵⁾	
	48SL	100HL	96SL	186HL ⁽⁵⁾	
	51SL	104HL	102SL ⁽⁵⁾	200HL ⁽⁵⁾	
	57SL				

SL denotes standard lumen output. HL denotes high lumen output.
Additional LEDs to obtain lumen package.
SL3=Low/Med/High output (see performance table for lumen package).

Lens	Voltage ⁽⁴⁾	Color Temp / CCT	Drive Type ⁽⁷⁾	No. of Drivers
Round LC=Clear Lens LN=Semi-Frost Lens - Narrow LW=Full Frost Lens - Wide Square SLW=Square / Frost Lens - Wide Flat FDL=Flat Frost / Diffuse Lens	UNV=Universal Voltage 120-277V 347=347V 480=480V ⁽⁹⁾	CCT Select ^{(6), (23)} CC83=Switchable CCT, 80CRI, 35/4/5000K CC93=Switchable CCT, 90CRI 35/4/5000K CCT/CRI L830=3000K, 80 CRI L835=3500K, 80 CRI L840=4000K, 80 CRI L850=5000K, 80 CRI L930=3000K, 90 CRI L935=3500K, 90 CRI L940=4000K, 90 CRI L950=5000K, 90 CRI	CD=0-10V Dimming Driver (10%-100% Dimming) HCD=0-10V Dimming Driver (1%-100% Dimming) SD=Step-dim (Bi Level) 5LTD=DALI Driver ⁽⁸⁾ LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming ⁽¹⁴⁾	1=1 Driver 2=2 Drivers ⁽⁵⁾

Options			Knockouts	Paint Finish	Packaging
Emergency ^{(9), (10)} EL7W=7-watt 120V-277V emergency battery pack ⁽¹¹⁾ EL10W=10-watt 120V-277V emergency battery pack ⁽¹¹⁾ EL14W=14-watt 120V-277V emergency battery pack ⁽¹¹⁾ EL10WSD=10W emergency battery pack with self-diagnostic installed ^{(11), (15)} EL14WSD=14W emergency battery pack with self-diagnostic installed ^{(11), (15)} GTR2=Bodine Generator Transfer Relay ⁽¹³⁾ ETRD=Emergency Transfer Relay with dimming control ⁽¹³⁾	Wiring ^{(14), (15)} PI/CP1=Plug in and cross over plug in options ⁽²²⁾ PC6/120=(NEMA 5-15P) 6 ft. Cord with NEMA Straight Plug PC6/277=(NEMA L7-15P) 6 ft. Cord with NEMA Twist Plug C6(1)=1 Circuit, 6 ft. Cord no Plug C3(1)=1 Circuit, 3 ft. Cord no Plug	Sensor ^{(10), (25)} [Blank]=No Sensor WLS (formerly WAB)=WaveLinx LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked ⁽⁸⁾ WPS (formerly WAA)=WaveLinx PRO Wireless Sensor, Occupancy w/ photocell, Networked ⁽⁸⁾ WLS4=WaveLinx LITE, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ^{(21), (23), (8)} WPS4=WaveLinx PRO, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ⁽²⁴⁾ Sensor Location MID=Mid-row	[Blank]=Clean Channel FKO=Full Side KOs	[Blank]=Standard White PAF=Painted after fab. (White) BLK=PAF Black ⁽¹⁷⁾ GRY=PAF Gray ⁽¹⁷⁾	U=Unit Pack

Accessories (Order Separately) ⁽¹⁶⁾				
AYC-CHAIN/SET-U=(2) 36" Chain Hanger (Use 1 set per fixture) SCF=Fixed Stem Set (Specify Length) ⁽¹⁹⁾ SCS=Swivel Stem Set (Specify Length) ⁽¹⁹⁾ SCA=Adjustable 48" Stem Set ⁽¹⁹⁾ EYE-CHAIN/SET-B=Eye Bolt Chain (Use 1 set per fixture) WG-SNX/SN-2FT-B-PK=2ft Wire Guard WG-SNX/SN-4FT-B=4ft Wire Guard A-1-B/SPACER-B=Spacer 1-1/2" to 2-1/2" from ceiling (Use 2 per fixture) ⁽¹⁹⁾ TOGGLE=Single Toggle No. 2 (Specify Length) ⁽¹⁹⁾ Y-Toggle-10-2PK=(2) Y-Toggle Cable Kits at 10FT long GRP-SNF-U=Gripper Hanger CLC-SNLED-EXT-B=SN/SNX Long Row Aligner Extension ANGLBKT-SNX=Wall hanger, Angle bracket, 1 pair (Use 1 set per fixture)	Round Replacement Lenses SNX-LENS-LW-2FT-U=Replacement Lens 2 ft, Full Frost SNX-LENS-LN-2FT-U=Replacement Lens 2 ft, Semi Frost SNX-LENS-LC-2FT-U=Replacement Lens 2 ft, Clear SNX-LENS-LW-4FT-U=Replacement Lens 4 ft, Full Frost SNX-LENS-LN-4FT-U=Replacement Lens 4 ft, Semi Frost SNX-LENS-LC-4FT-U=Replacement Lens 4 ft, Clear	Square Replacement Lenses SNX-SQLENS-SLW-2FT-U=Replacement Lens 2 ft, Full Frost SNX-SQLENS-SLW-4FT-U=Replacement Lens 4 ft, Full Frost	Flat Replacement Lenses SNX-Flat Lens-FDL-2FT-U=Replacement Lens 2 ft, Full Frost SNX-Flat Lens-FDL-4FT-U=Replacement Lens 4 ft, Full Frost	Finished End Cover ⁽²⁰⁾ DECOEND-RND PK=(2) Full end caps, SNX w/ Round Lens DECOEND-FDL PK=(2) Full end caps, SNX w/ Flat FDL Lens DECOEND-SLW PK=(2) Full end caps, SNX w/ Square Lens

Notes: (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. (2) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to [www.designlights.org](#) for details. (3) Nominal lumen values. See table for value and fixture length. (4) 347/480V max ambient temp 40C. (5) Requires two drivers. (6) SL3 must be ordered in conjunction w/CCT Select. CC83 or 93 default setting is 4000K and Medium output. (7) 2ft with Sensor limited to CD and HCD drivers only. (8) For a complete listing of Fifth Light products, visit [www.cooperlighting.com](#) (9) 4 ft and 8 ft only. (10) When ordering sensor or EBP option, specify UNV (for 120 or 277V), 347 or 480V. (11) Factory installed with integral test switch/indicator. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7-700 lumens). IES-format photometry for luminaire under emergency operation available. (12) EL10WSD and EL14WSD not available with 347V. (13) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 include 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120 or 277V when ordering GTR2. (14) Consult tech support on numerous options for this feature. (15) Most common C&P shown. Must specify location for cord. All "end" locations will be on the end with sensor installed. (16) Integral Mid-Row sensor does not apply for ZW-SVPD3. (17) Black or gray fixture and lens ends. Refer to Finish multiplier table for performance. (18) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. (19) Order 2 per fixture. (20) Finished Deco end cover cannot be used with ZW end mount sensor or over any end mount fitting. (21) WLSx provided in separate enclosure. (22) For more information on PI/CP1 options, refer to [022341-pl-10w-cooperlighting.com](#) (23) Not available in Mid-Row Configuration. (24) Consult Marketplace Options- Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at [www.lutron.com](#) (25) Selectable Lumens or Selectable CCT not compatible with WaveLinx Sensor options.

Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx system pages for additional details and compatibility. (B) Consult WaveLinx Lite system pages for additional details and compatibility.

Stock is available in the following catalog numbers:

Catalog Number	Description	Replaces Up To	Selectable CCT	Voltage	Selectable Lumens	Watts	UPC	DLC Product ID
4SNX-SL3-LW-UNV-CC83-CD1-U	4' Single Lens	2-T8 32W, 1-T5HO 54W	3500K-5000K	120-277V	2000-6100	17/33/51	080083265107	S-VF0RKS
8TSNX-SL3-LW-UNV-CC83-CD2-U	8' Single Lens	4-T8 32W, 2-T12 75W	3500K-5000K	120-277V	4100-12000	34/67/101	080083265114	S-7FC8RS

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

4SNX-51SL-LW-UNV-L840-CD1-PAF-U

Notes:

Type:

FB

WK25-45367

Metalux

SNX Lensed

Product Specifications

Construction

- Die-formed cold rolled steel channel and cover
- Convertible end plate for continuous row alignment
- Tool-less channel/wireway cover and captive electrical assembly
- Groove for Tong Hanger
- Surface, wall, pendant or stem mount capable. See available mounting options.

Controls

- Standard with 0-10V dimming driver (10% standard, 1% optional)
- Integrated WaveLinX sensor options provide wireless individual fixture control and enable code compliance, increased energy savings, grouping of fixtures, and connection to WaveLinX control systems
- DALI 2.0 and step-dimming available
- For motion control, reference sensor locations for both end and middle of the row applications

Emergency Battery Pack Option

- Optional 120V-277V integral emergency battery pack available in 7W or 14W
- 90-minute backup period for code compliance
- Generator transfer options available

Electrical

- Long-life LED system with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K or 5000K with CRI of 80 standard or optional 90 CRI
- Three CCT select option available for 80 or 90CRI in warm to cool color temps, see ordering logic
- Lumen select option available in full, medium or low brightness, see performance table and ordering logic
- Electronic drivers available for 120-277V, 347V and 480 applications
- Operating temperature of -20°C to 50°C
- Default CCT/Lumen setting is 4000K and Med Power

Finish

- Standard baked white enamel finish with multi-stage, iron phosphate pretreatment. Baked white enamel finish is standard
- PAF option for added rust protection
- Other paint finishes available: Black (BLK) and GRAY (GR)

Shielding

- Offered with acrylic lens and molded lens cap
- Flat lens with LED diffuse blend (FDL) for general distribution is recommended option
- Round lens offered in three distributions: Clear with linear ribs (LC), semi-frost for narrow distribution, and frost for wide distribution (LW)
- Square frost lens option for wide distribution (SLW) is available

Compliance

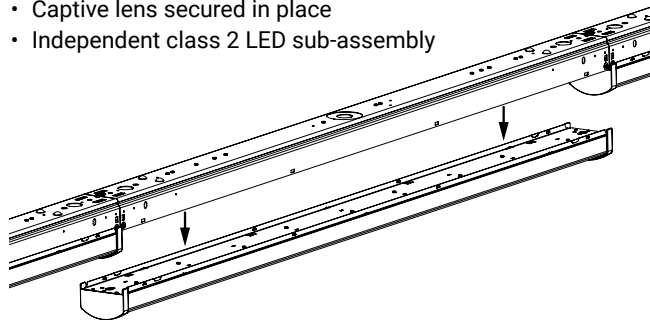
- cULus Listed for damp locations
- RoHS compliant
- Complies with IESNA LM-79 and LM-80 standards
- NEMA 410 compliant (drivers)
- State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium (refer to www.designlights.org)
- Suitable for closet use when installed to NEC 410.16 spacings standards

Limited Warranty

- Five year limited warranty

Captive Light Channel Assembly

- Tool-less removal for easy install
- Captive lens secured in place
- Independent class 2 LED sub-assembly



**Job Name:**

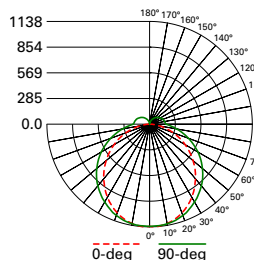
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Catalog Number:

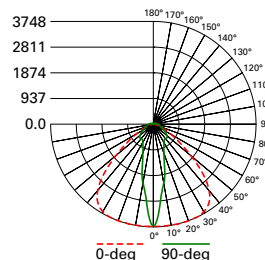
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Notes:

Type:**FB**

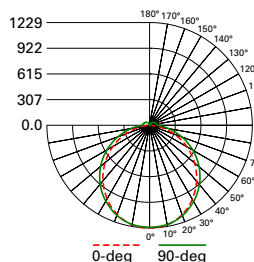
WK25-45367

Metalux**SNX Lensed****Photometric Data**
[View IES files](#)
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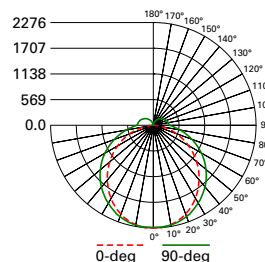
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.23 x mounting height, (L) 1.31 x mounting height
Lumens: 4027
Input Watts: 26.3W
Efficacy: 153 LPW
Test Report: 4SNX-41SL-LW-UNV-L850-CD.IES

**4SNX-41SL-LC-UNV-L850-CD1-U**

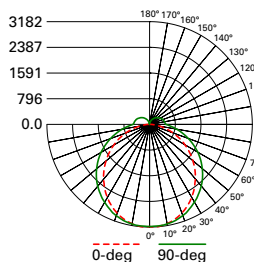
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.45 x mounting height, (L) 0.43 x mounting height
Lumens: 4557
Input Watts: 26.3W
Efficacy: 173 LPW
Test Report: 4SNX-41SL-LC-UNV-L850-CD.IES

**4SNX-41SL-FDL-UNV-L850-CD1-U**

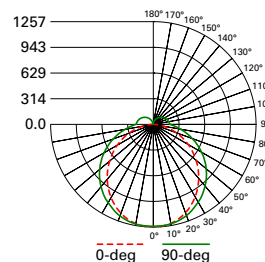
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.24 x mounting height, (L) 1.28 x mounting height
Lumens: 3877
Input Watts: 26.3W
Efficacy: 147 LPW
Test Report: 4SNX-41SL-FDL-UNV-L850-CD.IES

**8TSNX-82SL-LW-UNV-L850-CD1-U**

Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.23 x mounting height, (L) 1.31 x mounting height
Lumens: 8053
Input Watts: 52.6W
Efficacy: 153 LPW
Test Report: 8TSNX-82SL-LW-UNV-L850-CD.IES

**8TSNX-104SL-LW-UNV-L850-CD1-U**

Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.23 x mounting height, (L) 1.31 x mounting height
Lumens: 11260
Input Watts: 79.4W
Efficacy: 142 LPW
Test Report: 8TSNX-104SL-LW-UNV-L850-CD.IES

**2SNX-47HL-LW-UNV-L850-CD1-U**

Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.24 x mounting height, (L) 1.28 x mounting height
Lumens: 4494
Input Watts: 33.7W
Efficacy: 133 LPW
Test Report: 2SNX-47HL-LW-UNV-L850-CD.IES

Additional Data**CCT Table**

Approximate Color Temperature Multiplier	
2700K	.93
3000K	.98
3500K	1.0
4000K	1.02
5000K	1.02

CRI

Lumen multiplier (80CRI to 90CRI)			
3000K	3500K	4000K	5000K
0.805	0.840	0.846	0.901

Lumen Maintenance

Product Model ⁽¹⁾	Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L90 (Hours)	Theoretical L70 (Hours)
SNX-SL	25C	89	53,000	175,000
	40C and higher	89	49,000	163,000
SNX-HL	25C	89	55,000	180,000
	40C and higher	87	46,000	155,000

Notes: (1) 4ft and 8ft TM-21 data are equivalent.

Shipping Data

Length	Wt.
2 ft.	4.3 lbs.
4 ft.	8.2 lbs.
8 ft.	15.1 lbs.

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SNX Lensed

Energy and Performance Data - Fixed Output

Lumen Package		Delivered Lumens					Wattage	Efficacy lm/W				
2 ft		LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
19	SL	2006	1939	1773	1755	1707	12.0	167.2	161.6	147.8	146.3	142.3
23	SL	2429	2347	2146	2124	2066	14.9	163.0	157.5	144.0	142.6	138.7
25	SL	2718	2626	2401	2377	2312	17.5	155.3	150.1	137.2	135.8	132.1
30	SL	3204	3096	2831	2802	2726	21.0	152.6	147.4	134.8	133.4	129.8
40	HL	4347	4200	3727	3689	3725	27.6	157.5	152.2	135.0	133.7	135.0
44	HL	4683	4525	4015	3975	4013	31.1	150.6	145.5	129.1	127.8	129.0
47	HL	5009	4840	4295	4251	4292	33.7	148.6	143.6	127.4	126.1	127.4

Lumen Package		Delivered Lumens					Wattage	Efficacy lm/W				
4 ft		LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
20	SL	2100	2029	1855	1836	1786	12.1	173.6	167.7	153.3	151.7	147.6
22	SL	2391	2311	2113	2091	2034	13.8	173.3	167.5	153.1	151.5	147.4
26	SL	2823	2728	2494	2469	2401	16.4	172.1	166.3	152.1	150.5	146.4
31	SL	3318	3206	2932	2902	2823	19.5	170.2	164.4	150.4	148.8	144.8
33	SL	3563	3443	3148	3116	3031	21.1	168.9	163.2	149.2	147.7	143.6
37	SL	4013	3877	3545	3509	3413	24.0	167.2	161.5	147.7	146.2	142.2
41	SL	4356	4209	3848	3809	3705	26.3	165.6	160.0	146.3	144.8	140.9
45	SL	4857	4693	4292	4248	4132	29.8	163.0	157.5	144.0	142.6	138.7
48	SL	5191	5015	4586	4540	4416	32.1	161.7	156.2	142.9	141.4	137.6
51	SL	5435	5252	4803	4754	4624	35.0	155.3	150.1	137.2	135.8	132.1
57	SL	6090	5884	5381	5326	5181	39.7	153.4	148.2	135.5	134.2	130.5
60	SL	6408	6192	5662	5605	5452	42.0	152.6	147.4	134.8	133.5	129.8
63	SL	6727	6500	5944	5883	5723	44.4	151.5	146.4	133.9	132.5	128.9
67	SL	7191	6948	6354	6289	6117	47.9	150.1	145.1	132.7	131.3	127.7
74	HL	8015	7745	6873	6803	6669	51.8	154.7	149.5	132.7	131.3	132.6
81	HL	8693	8400	7454	7378	7450	55.1	157.8	152.5	135.3	133.9	135.2
84	HL	9084	8777	7789	7710	7785	57.9	156.9	151.6	134.5	133.2	134.5
87	HL	9366	9050	8031	7949	8026	62.2	150.6	145.5	129.1	127.8	129.0
90	HL	9701	9373	8318	8233	8313	64.4	150.6	145.5	129.2	127.8	129.1
93	HL	10018	9680	8590	8502	8585	67.4	148.6	143.6	127.4	126.1	127.4
100	HL	10765	10402	9231	9137	9226	72.5	148.5	143.5	127.3	126.0	127.3
104	HL	11162	10786	9571	9474	9566	75.5	147.8	142.9	126.8	125.5	126.7

Metalux

SNX Lensed

Energy and Performance Data - Fixed Output

Lumen Package		Delivered Lumens					Wattage	Efficacy lm/W				
8 ft		LC	LN	LW	SLW	FDL		LC	LN	LW	SLW	FDL
40	SL	4200	4058	3711	3673	3573	24.2	173.6	167.7	153.3	151.8	147.6
44	SL	4782	4621	4226	4183	4068	27.6	173.3	167.4	153.1	151.6	147.4
52	SL	5646	5455	4989	4938	4803	32.8	172.1	166.3	152.1	150.5	146.4
62	SL	6637	6413	5864	5805	5646	39.0	170.2	164.4	150.4	148.8	144.8
66	SL	7126	6885	6296	6232	6062	42.2	168.9	163.2	149.2	147.7	143.6
74	SL	8025	7754	7091	7019	6827	48.0	167.2	161.5	147.7	146.2	142.2
82	SL	8711	8417	7697	7619	7410	52.6	165.6	160.0	146.3	144.8	140.9
90	SL	9714	9386	8583	8496	8264	59.6	163.0	157.5	144.0	142.6	138.7
96	SL	10381	10031	9173	9079	8831	64.2	161.7	156.2	142.9	141.4	137.6
102	SL	10871	10504	9605	9507	9248	70.0	155.3	150.1	137.2	135.8	132.1
114	SL	12180	11769	10762	10652	10361	79.4	153.4	148.2	135.5	134.2	130.5
120	SL	12817	12384	11325	11209	10903	84.0	152.6	147.4	134.8	133.4	129.8
126	SL	13454	13000	11888	11767	11445	88.8	151.5	146.4	133.9	132.5	128.9
134	SL	14382	13897	12708	12578	12235	95.8	150.1	145.1	132.7	131.3	127.7
148	HL	16031	15490	13746	13606	13738	103.6	154.7	149.5	132.7	131.3	132.6
162	HL	17386	16800	14908	14757	14900	110.2	157.8	152.5	135.3	133.9	135.2
168	HL	18168	17555	15579	15420	15570	115.8	156.9	151.6	134.5	133.2	134.5
174	HL	18731	18099	16062	15898	16053	124.4	150.6	145.5	129.1	127.8	129.0
180	HL	19401	18747	16636	16467	16627	128.8	150.6	145.6	129.2	127.8	129.1
186	HL	20035	19359	17179	17005	17170	134.8	148.6	143.6	127.4	126.1	127.4
200	HL	21531	20804	18462	18274	18452	145.0	148.5	143.5	127.3	126.0	127.3

Energy and Performance Data - Selectable Output

Default CCT/Lumen Setting: 4000K / Med Power

Lens Type	CRI	Length	Lumen Select	Delivered Lumens			Wattage			Efficacy lm/W		
			CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
LC	80	2 ft.	Low	1026	1066	1099	6.9	6.6	6.7	148.7	161.5	164.0
			Med	1990	2198	2133	13.9	13.3	13.2	143.2	165.3	161.6
			High	3016	3232	3331	21	20	20.2	143.6	161.6	164.9
		4 ft.	Low	2275	2405	2270	16.7	16.1	16.9	136.2	149.4	134.3
			Med	4665	4551	4800	33.5	32.3	33.7	139.3	140.9	142.4
			High	6957	7289	6880	50.7	48.9	51.1	137.2	149.1	134.6
		8 ft.	Low	4453	4693	4655	33.5	32.3	33.7	132.9	145.3	138.1
			Med	9383	8909	9364	66.9	64.5	67.5	140.3	138.1	138.7
			High	14575	14220	13468	101.4	97.8	102.2	143.7	145.4	131.8
	90	2 ft.	Low	842	903	904	6.9	6.6	6.7	122.0	136.8	134.9
			Med	1737	1805	1809	13.9	13.3	13.2	125.0	135.7	137.0
			High	2553	2819	2825	21	20.2	20.2	121.6	139.6	139.9
		4 ft.	Low	1944	2036	1926	16.7	16.1	16.9	116.4	126.5	114.0
			Med	3949	3852	4072	33.5	32.3	33.7	117.9	119.3	120.8
			High	5889	6169	5836	50.7	48.9	51.1	116.2	126.2	114.2
		8 ft.	Low	3770	3972	3949	33.5	32.3	33.7	112.5	123.0	117.2
			Med	7704	7540	7943	66.9	64.5	67.5	115.2	116.9	117.7
			High	12338	12035	11425	101.4	97.8	102.2	121.7	123.1	111.8

Metalux

SNX Lensed

Energy and Performance Data - Selectable Output

Lens Type	CRI	Length	Lumen Select	Delivered Lumens			Wattage			Efficacy lm/W		
			CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
LN	80	2 ft.	Low	991	1030	1062	6.9	6.6	6.7	143.6	156.1	158.5
			Med	1983	2124	2061	13.9	13.3	13.2	142.7	159.7	156.1
			High	2914	3122	3218	21	20	20.2	138.8	156.1	159.3
		4 ft.	Low	2218	2324	2194	16.7	16.1	16.9	132.8	144.3	129.8
			Med	4508	4398	4638	33.5	32.3	33.7	134.6	136.2	137.6
			High	6722	7043	6648	50.7	48.9	51.1	132.6	144.0	130.1
		8 ft.	Low	4647	4534	4498	33.5	32.3	33.7	138.7	140.4	133.5
			Med	8793	8608	9048	66.9	64.5	67.5	131.4	133.5	134.0
			High	14083	13740	13013	101.4	97.8	102.2	138.9	140.5	127.3
	90	2 ft.	Low	814	899	874	6.9	6.7	6.7	118.0	134.2	130.4
			Med	1679	1744	1748	13.9	13.3	13.2	120.8	131.1	132.4
			High	2467	2724	2730	21	20.2	20.2	117.5	134.9	135.1
		4 ft.	Low	1878	1967	1861	16.7	16.1	16.9	112.5	122.2	110.1
			Med	3816	3722	3934	33.5	32.3	33.7	113.9	115.2	116.7
			High	5691	5782	5639	50.7	48.9	51.1	112.2	118.2	110.4
		8 ft.	Low	3934	3838	3816	33.5	32.3	33.7	117.4	118.8	113.2
			Med	7444	7286	7675	66.9	64.5	67.5	111.3	113.0	113.7
			High	11922	11629	11039	101.4	97.8	102.2	117.6	118.9	108.0

Lens Type	CRI	Length	Lumen Select	Delivered Lumens			Wattage			Efficacy lm/W		
			CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
LW	80	2 ft.	Low	907	914	971	6.9	6.6	6.7	131.4	138.5	144.9
			Med	1813	1942	1829	13.9	13.3	13.2	130.4	146.0	138.6
			High	2586	2771	2943	21	20	20.2	123.1	138.6	145.7
		4 ft.	Low	2028	2125	1947	16.7	16.1	16.9	121.4	132.0	115.2
			Med	4000	4058	4241	33.5	32.3	33.7	119.4	125.6	125.8
			High	6147	6062	5900	50.7	48.9	51.1	121.2	124.0	115.5
		8 ft.	Low	4250	4146	4137	33.5	32.3	33.7	126.9	128.4	122.8
			Med	7803	7639	8273	66.9	64.5	67.5	116.6	118.4	122.6
			High	12878	11826	11548	101.4	97.8	102.2	127.0	120.9	113.0
	90	2 ft.	Low	722	822	824	6.9	6.7	6.6	104.6	122.7	124.8
			Med	1535	1547	1551	13.9	13.3	13.2	110.4	116.3	117.5
			High	2189	2491	2497	21	20.2	20.2	104.2	123.3	123.6
		4 ft.	Low	1717	1799	1652	16.7	16.1	16.9	102.8	111.7	97.8
			Med	3386	3434	3598	33.5	32.3	33.7	101.1	106.3	106.8
			High	5204	5131	5005	50.7	48.9	51.1	102.6	104.9	97.9
		8 ft.	Low	3598	3509	3509	33.5	32.3	33.7	107.4	108.6	104.1
			Med	6606	7195	7018	66.9	64.5	67.5	98.7	111.6	104.0
			High	10902	10009	9796	101.4	97.8	102.2	107.5	102.3	95.9

Metalux

SNX Lensed

Energy and Performance Data - Selectable Output

Lens Type	CRI	Length	Lumen Select	Delivered Lumens			Wattage			Efficacy		
			CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
SLW	80	2 ft.	Low	845	905	905	6.9	6.6	6.7	122.5	137.1	135.1
			Med	1795	1923	1810	13.9	13.3	13.2	129.1	144.6	137.1
			High	2560	2743	2913	21	20	20.2	121.9	137.2	144.2
		4 ft.	Low	2008	1980	1927	16.7	16.1	16.9	120.2	123.0	114.0
			Med	3959	4017	4198	33.5	32.3	33.7	118.2	124.4	124.6
			High	6084	6000	5840	50.7	48.9	51.1	120.0	122.7	114.3
		8 ft.	Low	4206	4104	4095	33.5	32.3	33.7	125.6	127.1	121.5
			Med	7724	8415	8189	66.9	64.5	67.5	115.5	130.5	121.3
			High	12747	11706	11431	101.4	97.8	102.2	125.7	119.7	111.8
	90	2 ft.	Low	715	814	816	6.9	6.7	6.6	103.6	121.5	123.6
			Med	1519	1532	1536	13.9	13.3	13.2	109.3	115.2	116.4
			High	2167	2465	2326	21	20.2	20.2	103.2	122.0	115.1
		4 ft.	Low	1700	1676	1635	16.7	16.1	16.9	101.8	104.1	96.7
			Med	3352	3400	3561	33.5	32.3	33.7	100.1	105.3	105.7
			High	5151	5079	5151	50.7	48.9	51.1	101.6	103.9	100.8
		8 ft.	Low	3561	3269	3473	33.5	32.3	33.7	106.3	101.2	103.1
			Med	6539	7122	6947	66.9	64.5	67.5	97.7	110.4	102.9
			High	10791	9907	9697	101.4	97.8	102.2	106.4	101.3	94.9

Lens Type	CRI	Length	Lumen Select	Delivered Lumens			Wattage			Efficacy		
			CCT Select	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
FDL	80	2 ft.	Low	853	914	914	6.9	6.6	6.7	123.6	138.5	136.4
			Med	1746	1870	1828	13.9	13.3	13.2	125.6	140.6	138.5
			High	2584	2833	2833	21	20.2	20.2	123.0	140.2	140.2
		4 ft.	Low	1953	1999	1946	16.7	16.1	16.9	116.9	124.2	115.1
			Med	3998	3907	4083	33.5	32.3	33.7	119.3	121.0	121.2
			High	5918	6059	5906	50.7	48.9	51.1	116.7	123.9	115.6
		8 ft.	Low	4092	3900	3892	33.5	32.3	33.7	122.1	120.7	115.5
			Med	7799	8185	7966	66.9	64.5	67.5	116.6	126.9	118.0
			High	12399	11820	12373	101.4	97.8	102.2	122.3	120.9	121.1
	90	2 ft.	Low	722	791	793	6.9	6.7	6.6	104.6	118.1	120.2
			Med	1478	1547	1586	13.9	13.3	13.3	106.3	116.3	119.2
			High	2188	2398	2349	21	20.2	20.2	104.2	118.7	116.3
		4 ft.	Low	1653	1692	1651	16.7	16.1	16.9	99.0	105.1	97.7
			Med	3384	3307	3384	33.5	32.3	33.7	101.0	102.4	100.4
			High	5010	5128	5010	50.7	48.9	51.1	98.8	104.9	98.0
		8 ft.	Low	3464	3301	3301	33.5	32.3	33.7	103.4	102.2	98.0
			Med	6602	6927	6757	66.9	64.5	67.5	98.7	107.4	100.1
			High	10496	10004	10496	101.4	97.8	102.2	103.5	102.3	102.7

**Job Name:**

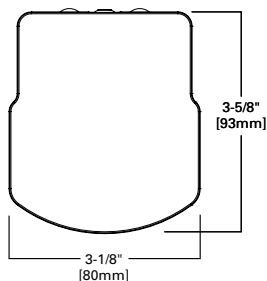
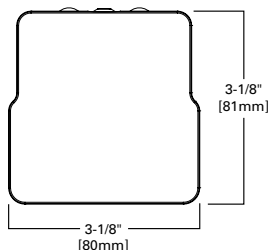
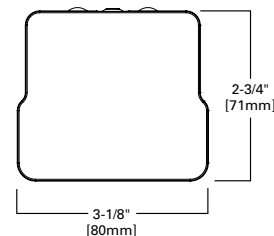
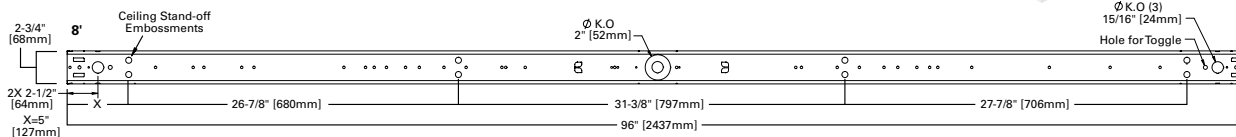
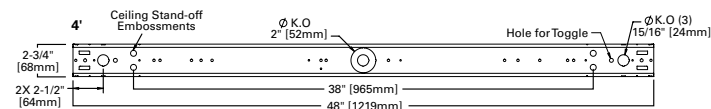
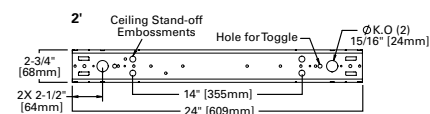
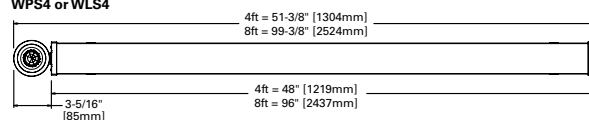
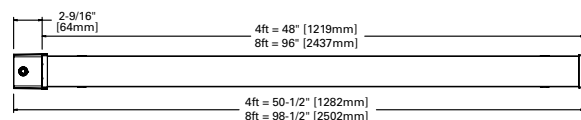
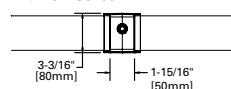
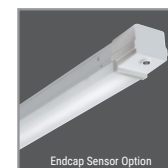
Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

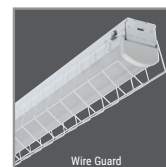
4SNX-51SL-LW-UNV-L840-CD1-PAF-U
Notes:

Type:**FB**

WK25-45367

Metalux**SNX Lensed****Finished Decorative End Covers****End View - Round Lens****End View - Square Lens****End View - Flat Lens****Dimensional and Mounting Details****Angle Bracket - ANGLBKT-SNX****Fixture Size with Sensor****WPS4 or WLS4****WPS or WLS****Mid-Row Sensor****Options**LC
Clear LensLN
Semi-Frost Lens - NarrowLW
Full Frost Lens - WideSLW
Square/Frost Lens - WideFDL
Flat Frost/Diffuse Lens

Endcap Sensor Option

Accessories

Wire Guard



Decorative End Cap

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

4SNX-51SL-LW-UNV-L840-CD1-PAF-U

Notes:

Type:**FB**

WK25-45367

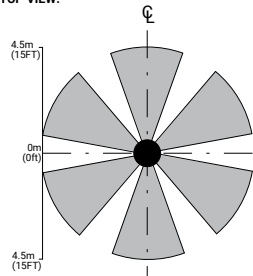
Metalux**SNX Lensed****Control Solutions**

- WaveLinX LITE wireless
- WaveLinX PRO wireless
- WaveLinX CAT wired
- WaveLinX Wired

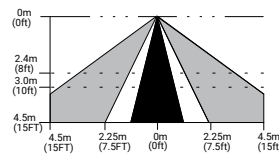
**Integrated Sensor Coverage Pattern**

WaveLinX PRO/LITE Sensor – WLS and WPS

TOP VIEW:



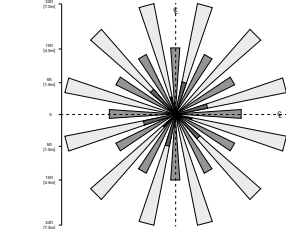
SIDE VIEW:



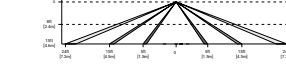
Note: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

WaveLinX PRO/LITE Sensor – WLS2 and WPS2

TOP VIEW:

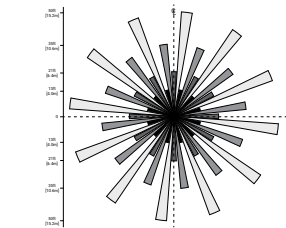


SIDE VIEW:

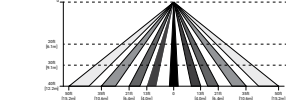


WaveLinX PRO/LITE Sensor – WLS4 and WPS4

TOP VIEW:



SIDE VIEW:



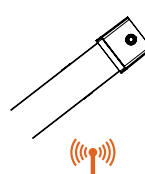
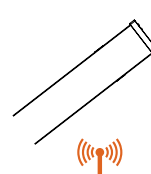
The SNX with WaveLinX offers no-hassle lighting control with multiple luminaire level control solutions.



WaveLinX PRO is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinX PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinX CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinX PRO offers a rich portfolio of wireless devices, WaveLinX PRO-enabled luminaires, and an intuitive WaveLinX mobile app for office, education, warehouse, and parking garage applications.



WaveLinX LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

With Integrated WaveLinX Sensor**With Integrated WaveLinX Node**

Add a hidden WaveLinX sensor node (WPN, WLN) to your space lighting design!

Allows to:

- Keeps luminaire aesthetics
- Connect fixtures without the realstate to include sensor option such as downlights
- Connect sealed fixtures without a standard sensor option such as products for clinical space.

Integrated Controls Options

Option	Out of the Box Functionality	Luminaire Level Lighting Control (LLLC)	Automatic Dimming Photocell	Occupancy Sensing	CCT Control
WLS	X	X	X	X	
WPS		X	X	X	

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Luminaire with standalone sensor



Standalone Spaces
WaveLinX LITE



Standalone Spaces
WaveLinX CAT



Networked Spaces
WaveLinX PRO



Enterprise
WaveLinX CORE

	Luminaire with standalone sensor	Standalone Spaces WaveLinX LITE	Standalone Spaces WaveLinX CAT	Networked Spaces WaveLinX PRO	Enterprise WaveLinX CORE
Occupancy	Yes	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes	Yes
Wallstations	–	Yes	Yes	Yes	Yes
Gateways	–	–	–	1 WAC	300 WACs
Devices (MAX)	–	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
Software	–	WaveLinX LITE Mobile App	WaveLinX CAT Mobile App	WaveLinX Mobile App	CORE
Areas	–	28 per Space	Unlimited	50 per WAC2	up to 3,000
Zones	–	16 per Area	16 per Area	16 per Area	up to 9,000
Scheduling	–	–	–	Local	Global
VividTune™	–	–	–	Yes	Yes
Plug-Load Control	–	Yes	Yes	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes	Yes
Integration	–	–	–	–	BACnet, API
Dashboards	–	–	–	–	Energy, Occupancy
Configuration	–	Installer	Installer	Technician	Technician / IT

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HC4 | HM4 | 41/41PS

4-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Photometric Data page 5
- Energy & Performance Data page 8
- Connected Systems page 10
- Product Warranty

Product Certification



Product Features



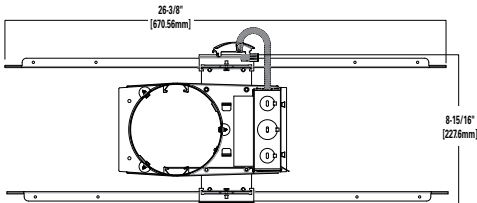
Control Compatibility



Top Product Features

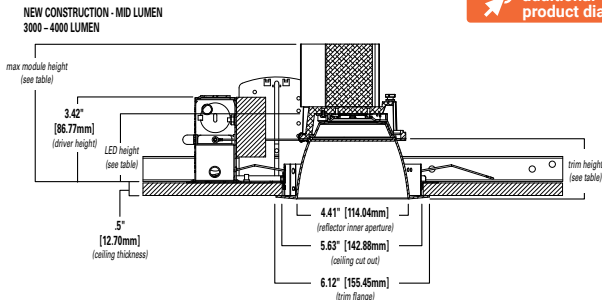
- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K and 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling
- Quick Spec emergency backup mounting frames - fast delivery option

Dimensional and Mounting Details



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	5.6"	2.5"	2.9"
Medium	5.7"	2.6"	3.0"
Wide	5.5"	2.4"	2.8"
Baffle	5.5"	2.4"	2.8"



additional product diagrams

HALO Commercial

HC4 | HM4 | 41/41PS

Mounting Frame Order Information

Sample Number : HC420D010REM7 - HM40525930 - 41MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC4 = 4" new construction downlight housing HC4CP = 4" new construction housing, Chicago Plenum - CCEA compliant	05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm 50 = 5000 lm 55 = 5500 lm 60 = 6000 lm	D010=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-4000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000lm models only Canada Option 4500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 4500, 5000, 5500, 6000lm models only DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details.	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only REM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only REM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only BOD7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only WTA = Factory WaveLinX PRO Tilemount Sensor Kit WTK = Factory WaveLinX LITE Tilemount Sensor Kit WPN = WaveLinX PRO Wireless Node without Sensor WLN = WaveLinX LITE Wireless Node without Sensor REM7 = 7 watt emergency battery pack with remote test / indicator light, use with DLV only REM14 = 14 watt emergency battery pack with remote test / indicator light, use with DLV only REM7 = 7 watt emergency battery pack with integral test / indicator light, use with DLV only REM14 = 14 watt emergency battery pack with integral test / indicator light, use with DLV only	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinX PRO Tilemount Sensor Kit WTK = Field WaveLinX LITE Tilemount Sensor Kit
Notes	Notes	Notes	Notes	Notes
	(7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	(1) Not available with CP models	(1) Not available with CP models. (2) Not available with D010347 (347V models) (3) ULus for U.S. only (4) WTA = WaveLinX tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX specifications) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX LITE specifications) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (10) IEM option requires compatible IEM reflector or baffle trim. See Trim Ordering below. (11) WPN = WaveLinX PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX PRO specifications.) (12) WLN = WaveLinX LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX LITE specifications.)	(4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and option- al RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.) (5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.)

Quick Spec Emergency Mounting Frame Order Information

Sample Number :

Quick Spec Emergency Mounting Frame: RR-HC420D010REM7

LED module and reflectors are ordered separately.

Order separately: LED Module: HM40525835 | Reflector: 41MDC

Select from the Quick Spec Mounting
Frame ordering information to receive the
Fast Delivery option for the frame.

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency Options	Accessories (Order & Install Separately)
RR = East Region BRR = West Region	HC4 = 4" new construction downlight housing	10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm	D010=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only REM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only REM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long
Notes	Notes	Notes	Notes	Notes	Notes
				(2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (10) IEM option requires compatible IEM reflector or baffle trim. See Trim Ordering below.	

HALO Commercial

HC4 | HM4 | 41/41PS

LED Module Order Information

LED Module	Lumens	CRI/CCT
LED Module	Lumens	CRI/CCT
HM4 = 4" LED module	0525 = 500 - 2500 lumen	827 = 80CRI, 2700K
	3040 = 3000-4000 lumen	830 = 80CRI, 3000K
	4560 = 4500-6000 lumen	835 = 80CRI, 3500K
		840 = 80CRI, 4000K
		850 = 80CRI, 5000K
		927 = 90CRI, 2700K
		930 = 90CRI, 3000K
		935 = 90CRI, 3500K
		940 = 90CRI, 4000K
		950 = 90CRI, 5000K
Notes	Notes	Notes

Trim Order Information

Reflector	Distribution ⁽⁸⁾	Finish	Flange	Accessories
41 = 4" conical reflector	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflectors WF = White flange option available with C & H reflectors BF = Black Flange option available with C, H & W reflectors	41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
41 = 4" baffle reflector	WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB reflectors BF = Black flange option available with BB reflectors	41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

Reflector	Distribution ⁽⁸⁾	Finish	Flange
41PS = 4" non-conductive polymer 'dead front' conical reflector ⁽⁹⁾	MD = medium 60° beam angle 1.00 SC (nominal)	W = White	Blank = White flange standard with W reflectors BF = Black Flange option available with W reflectors
Notes	Notes	Notes	Notes
(9) 41PS* is 1000-3000 lumens Non-IC rated. 500 & 750 lumens IC rated. 41PS is not for use over 3000 lumens in Non-IC or over 750 lumens in IC.	(8) Values are nominal for white reflector, others may vary.		

IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
41 = 4" conical reflector for integral emergency only	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal)	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflectors WF = White flange option available with C & H reflectors BF = Black flange option available with C, H, & W reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
41 = 4" baffle reflector for integral emergency only	WD = wide 75° beam angle 1.24 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB reflectors BF = Black flange option with BB reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes	Notes	Notes	Notes
	(8) Values are nominal for white reflector, others may vary.			

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HC420D010 HM40525840 41WDH

Notes:**Type:****FC**

WK25-45367

HALO Commercial**HC4 | HM4 | 41/41PS****Product Specifications****Housing Frame**

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 3000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention

- Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0-10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 4500, 5000, 5500, 6000 lumen models only

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quick-turn projects

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

- WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node

- WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

- WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

- WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- **Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.**
- **Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.**

Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
 - Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
 - IP20 - Above finished ceiling; IP64 - Below finished ceiling
 - Non-Insulated ceiling (Non-IC) rated for 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
 - Insulated ceiling (IC) rated for 500, 750, 1000, 1500 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
 - Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
 - Marked Spacing Center to Center of Adjacent Luminaires = 36"
 - Center of Luminaire to Building Member = 18"
 - Minimum overhead = 0.5"
 - Airtight per ASTM-E283-04
 - Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
 - EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
 - Contains no mercury or lead and RoHS compliant
 - Photometric testing completed in accordance of IES LM-79-08
 - Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
 - 1,000 and 1,500 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
 - May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
 - ENERGY STAR® certified, reference certified light fixtures database
- *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HC420D010 HM40525840 41WDH

Notes:

Type:**FC**

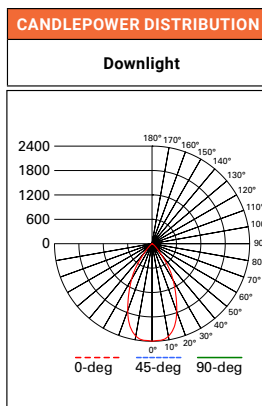
WK25-45367

HALO Commercial**HC4 | HM4 | 41/41PS****Photometric Data**

View IES files

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (50° BEAM*)	
Test Number	P571728
Housing	HC420D010
Module	HM40525835
Reflector	41NDC
Lumens	2010 Lm
Efficacy	100.5 Lm/W
SC	0.84
UGR	12.2



CONE OF LIGHT

MH	FC	L	W
5.5'	79.3	4.6	4.6
7'	49	5.8	5.8
8'	37.5	6.6	6.6
9'	29.6	7.4	7.4
10'	24	8.4	8.4
12'	16.7	10	10

CANDELA TABLE

Degrees Vertical	Candela
0	2400
5	2387
15	2110
25	1368
35	676
45	152
55	23
65	5
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1436	71.5
0-40	1848	92
0-60	2002	99.6
0-90	2010	100
90-180	0	0
0-180	2010	100

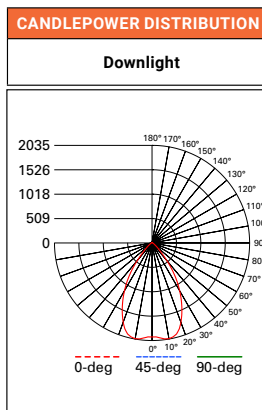
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	26514
55	4968
65	1576
75	667
85	0

*Value are nominal for specular clear reflectors, other may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P571727
Housing	HC420D010
Module	HM40525835
Reflector	41MDC
Lumens	2096 Lm
Efficacy	104.8 Lm/W
SC	1.0
UGR	13.6



CONE OF LIGHT

MH	FC	L	W
5.5'	65.3	5.4	5.4
7'	40.3	6.8	6.8
8'	30.9	7.8	7.8
9'	24.4	8.8	8.8
10'	19.8	9.8	9.8
12'	13.7	11.8	11.8

CANDELA TABLE

Degrees Vertical	Candela
0	1969
5	1997
15	1974
25	1467
35	800
45	192
55	26
65	4
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1408	67.1
0-40	1899	90.6
0-60	2091	99.7
0-90	2096	100
90-180	0	0
0-180	2096	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	33405
55	5548
65	1197
75	667
85	0

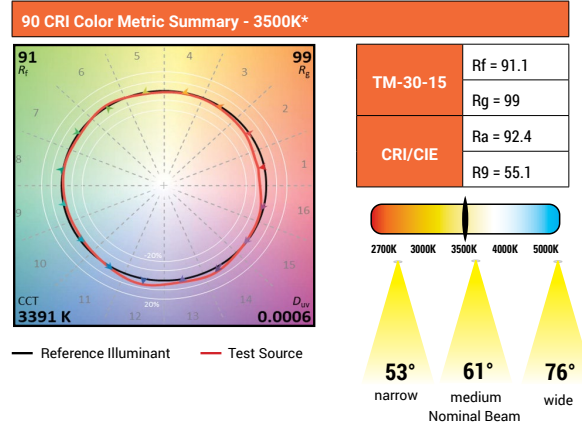
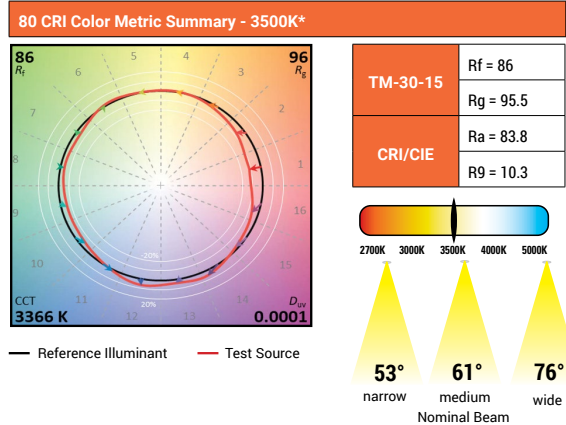
*Value are nominal for specular clear reflectors, other may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

HALO Commercial

HC4 | HM4 | 41/41PS

Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)



* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 lumen		6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:
* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

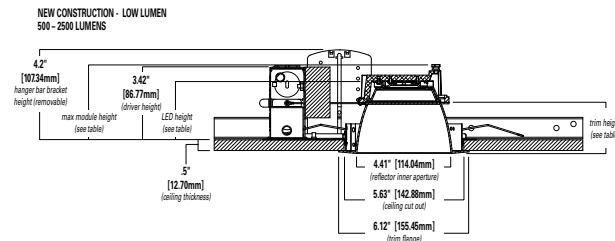
Catalog Number:

HC420D010 HM40525840 41WDH

Notes:

Type:**FC**

WK25-45367

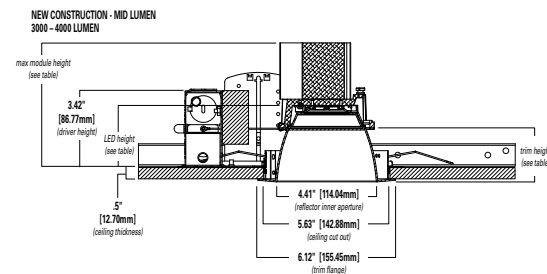
HALO Commercial**HC4 | HM4 | 41/41PS****Dimensional and Mounting Details****NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS****Low Lumen (500 – 2500 Lumens)***

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	3.6"	2.5"	2.7"
Medium	3.7"	2.6"	2.8"
Wide	3.5"	2.4"	2.6"
Baffle	3.1"	2.4"	2.6"

*Max. height w/removable hanger bar bracket 4.2"



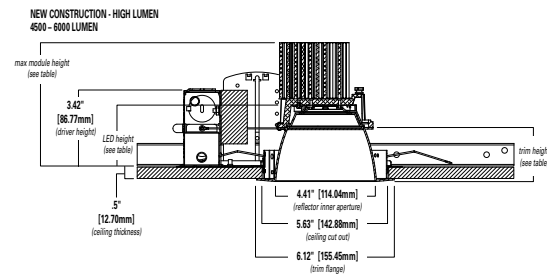
Low Lumen Module

NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS**Mid Lumen (3000 – 4000 Lumens)**

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	5.6"	2.5"	2.9"
Medium	5.7"	2.6"	3.0"
Wide	5.5"	2.4"	2.8"
Baffle	5.5"	2.4"	2.8"



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS**High Lumen (4500 – 6000 Lumens)**

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	5.9"	2.5"	2.9"
Medium	6.0"	2.6"	3.0"
Wide	5.8"	2.4"	2.8"
Baffle	5.8"	2.4"	2.8"



High Lumen Module

**Job Name:**

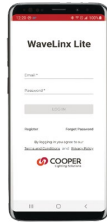
Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

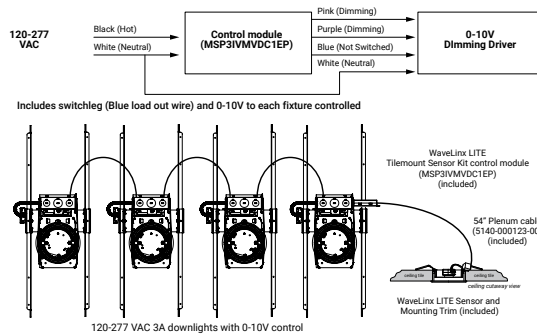
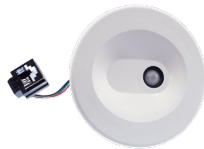
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Notes:**Type:****FC**

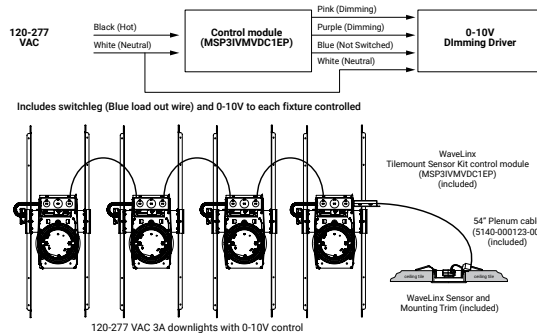
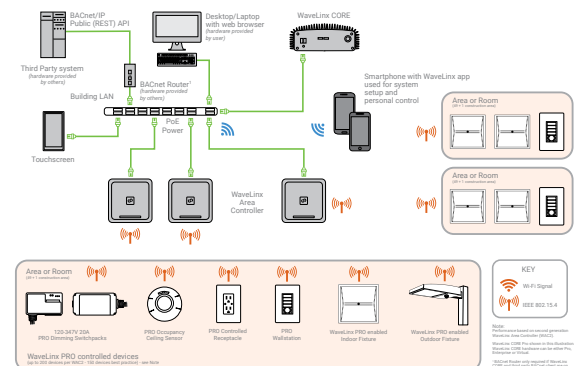
WK25-45367

HALO Commercial**HC4 | HM4 | 41/41PS****Connected Solutions****WaveLinX LITE - WTK Tilemount Sensor****WaveLinX LITE devices only compatible with the WaveLinX LITE system.**

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinX system specifications for details

**WaveLinX LITE WTK Tilemount Wiring Diagram****WaveLinX LITE Bluetooth Enabled System****WaveLinX PRO – WTA Tilemount Sensor****WaveLinX PRO devices only compatible with the WaveLinX PRO system.**

- WaveLinX PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

**WaveLinX mobile app settings****WaveLinX WTA Tilemount Wiring Diagram****WaveLinX CORE Building Management Integration**

**Job Name:**

Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward
Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)

Catalog Number:

HC420D010 HM40525840 41WDH

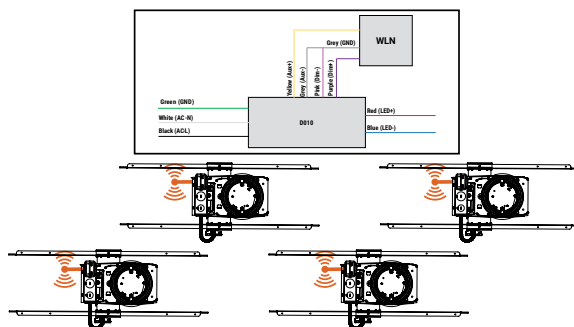
Notes:**Type:****FC**

WK25-45367

HALO Commercial**HC4 | HM4 | 41/41PS****Connected Solutions****WaveLinX LITE Wireless Node - WLN**

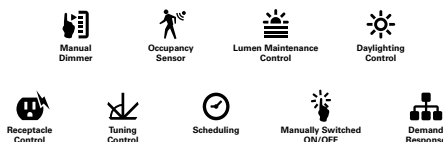
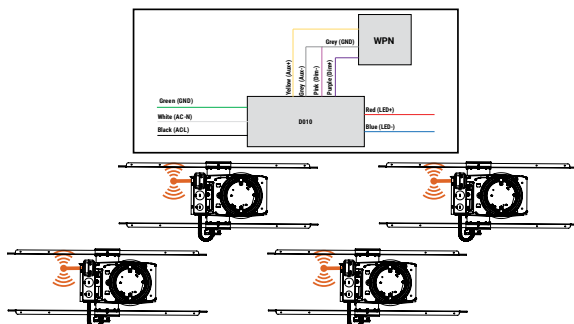
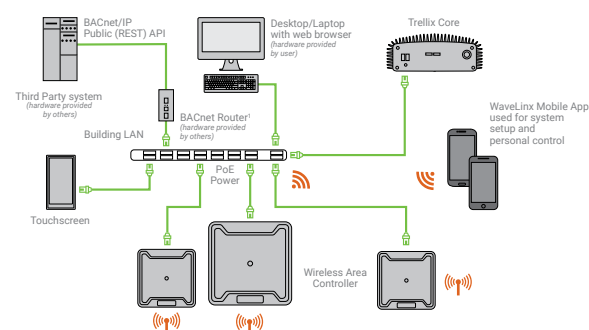
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details

WaveLinX mobile app settings**WaveLinX LITE Wireless Node (WLN) Wiring Diagram****WaveLinX LITE Bluetooth Enabled System****WaveLinX PRO Wireless Node - WPN**

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

**WaveLinX mobile app settings****WaveLinX PRO Wireless Node (WPN) Wiring Diagram****WaveLinX CORE Building Management Integration**

BBX



Project: _____

Type: _____

Model: _____

Date: _____



about

The **BBX** is a powerful, environmentally-friendly emergency lighting solution that utilizes LiFePO4 (LFP) batteries. Its high-powered LED lamp heads deliver industry-leading **125'** path of egress spacing. The **BBX** is the perfect solution for factories, warehouses, universities, airports, malls and any large area or an egress paths with a lengthy corridor.

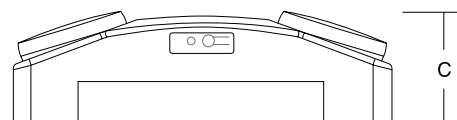
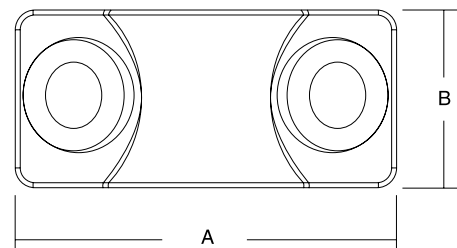
internal

The **BBX** emergency lighting unit is one of very few units that consumes a trickle amount of power once charged. When multiplied by the total amount of units installed on site, this equates to a substantial savings over the years in service. The unit is configured with a wide input voltage range of 120 to 277VAC @ 50/60 Hz. The low power consumption of the BBX is California Energy Commission (CEC - T20) compliant. The optional remote capable unit has a 9V/5.4W output and can power up to three BR or five BRW remote heads for a minimum of 90 minutes of emergency illumination. The fixture has an operating temperature of 10°C to 40°C (50°F to 104°F)

external

The **BBX** is constructed from high-impact, UV stabilized, UL 5VA flame-resistant, thermoplastic that protects against corrosion, denting, peeling and scratching. No tools are required to access this unit, allowing for easy maintenance. Two fully adjustable 2.7W LED lamp heads (600 lumens total) come with the **BBX** while two 5.4W LED lamp heads (1300 lumens total) come with the **BBX HO**.

dimensions



Series	A	B	C
BBX	12.1"	5.5"	3.8"
	307 mm	140 mm	96.5 mm

ordering logic

EXAMPLE: BBX SE HO AT

Series	Operation	Output	Finish	Options
BBX	SE (EM Only)	Blank ¹ (Standard)	BLK (Black)	AT ³ (Autotest)
		HO ² (High Output)	WHT (White)	R ^{3,4} (Remote Capable)

NOTE 1: Comes with (2) 2.7W LED Lamps (600 lm)

NOTE 2: Comes with (2) 5.4W LED Lamps (1300 lm)

NOTE 3: AT & R not available together

NOTE 4: Not available with BBX-SE-HO Series

Technical

■ electrical

BATTERY: The **BBX** utilizes a maintenance-free, environmentally friendly LiFePO4 (Lithium Phosphate) battery, known for using only a minuscule amount of power once charged. LiFePO4 batteries are one of the safest battery technologies available due to their thermal and chemical stability. The cells' chemistry allows for environmentally friendly disposal, thus making it one of the "greenest" power sources on the market. This unit provides best-in-class performance with its high-power density and extremely low discharge rate. A fully charged pack disconnects from the charging circuit, no longer drawing power. When multiplied by the number of units on site, this is a massive savings over the service life of the fixtures. Recharge time is 24 hours.

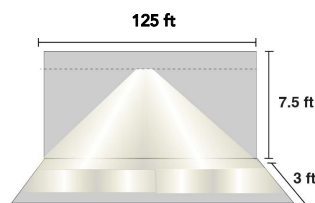
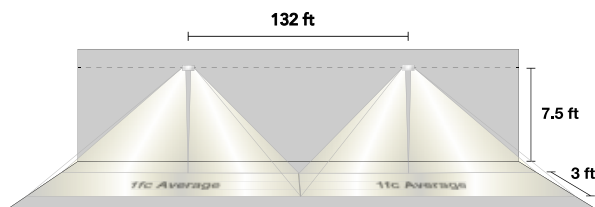
CIRCUIT: The **BBX** has a wide input voltage range of 120 to 277VAC @ 50/60Hz. A solid-state switching transistor eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and will automatically energize the lamps. Once the AC voltage is restored, the emergency lamps will turn off and the charging circuit will automatically recharge the battery.

■ installation

A universal J-box mounting pattern and rear keyhole slots are provided to surface mount unit to ceiling or wall.

■ photometrics

Model	Mount Height	On-Center Spacing		Path of Egress
		1 Fixture	Multiple Fixtures	
BBX	7.5 ft	80 ft	84 ft	3 ft
BBX	7.5 ft	66 ft	72 ft	6 ft
BBX HO	7.5 ft	125 ft	132 ft	3 ft
BBX HO	7.5 ft	116 ft	122 ft	6 ft



BBX HO Example

Disclosure:
Spacing is measured in lab conditions with an assumed open space, no obstructions and reflection rates of 80 (ceiling)/50 (walls)/20 (floor). Actual spacing may vary depending on what environment the fixture is installed in.

■ autotest

The **BBX** has the option for the Beghelli Autotest diagnostic system. Autotest features continuous monitoring of the unit's main components (battery, charger, solid-state transformer, & LEDs) and provides instant visual verification of the status.

SYSTEM FEATURES:

- Monitors battery disconnection, charger failure, LED failure and transformer fault every 5 seconds without discharging the battery.
- Automatically indicates LED, battery and charger status by flashing the red indicator LED in a prescribed sequence. Refer to Autotest instruction manual.
- Factory preset Autotest does not need to be field adjusted or reset for proper operation.

AUTOTEST FUNCTIONS:

- Three (3) minute Autotest once a month.
- Ninety (90) minute Autotest every twelve (12) months.

Refer to Autotest instruction manual for detailed operation of the Autotest function.

■ warranty

The **BBX** comes with a 3-year factory warranty. Battery is prorated for five years. Deliberate damage, misuse, improper installation effectively cancel the warranty. Find complete warranty details online at beghelliusa.com.

PACO (PX)



Indoor Architectural Exits

Job:

Model:

Type:

Date:

internal

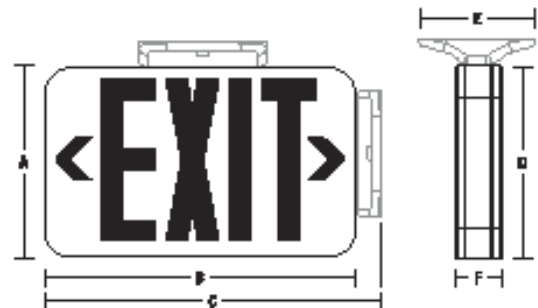
AC only: 120/277V input. Self-Powered: 120/277V input. The **PACO PX** self powered version uses a rechargeable, maintenance free 3.6V 900mAH nickel cadmium battery. The circuit board features an onboard solid state transformer, low voltage disconnect and brownout protection. Red or green LEDs totaling less than 2W.

external

The **PACO PX** features performance and reliability in a compact, attractive and low profile package. It is constructed from high impact, injection molded thermoplastic. The **PX** comes standard in white, black is optional. Field adjustable chevrons are standard. The **PX** can be universally mounted single or double face (extra faceplate included). The SA version includes an integrated test switch / monitor LED, which gives immediate unit status. Damp location rated.

dimensions (in,mm.)

Series	A	B	C	D	E	F
PX	7.2"	11.6"	12.6"	8.2"	4.3"	2"
	183mm	295mm	320mm	209mm	109mm	51mm




ordering information

Model	Description
PXGHT*	Paco exit, AC only, green LED, universal face, white
PXGSA*	Paco exit, Ni-Cd battery, green LED, universal face, white
PXGSAAT*	Paco exit, Ni-Cd battery, green LED, universal face, autotest, white
PXGSAATBRC*	Paco exit, Ni-Cd battery, green LED, universal face, autotest, 3.4W remote capable, black
PXGSAATRC*	Paco exit, Ni-Cd battery, green LED, universal face, autotest, 3.4W remote capable, white
PXGSARC*	Paco exit, Ni-Cd battery, green LED, universal face, 3.4W remote capable, white
PXRHT*	Paco exit, AC only, red LED, universal face, white
PXRHTB*	Paco exit, AC only, red LED, universal face, black
PXRSA	Paco exit, Ni-Cd battery, red LED, universal face, white
PXRSAAT	Paco exit, Ni-Cd battery, red LED, universal face, autotest, white
PXRSAATBRC*	Paco exit, Ni-Cd battery, red LED, universal face, autotest, 3.4W remote capable, black
PXRSAATRC*	Paco exit, Ni-Cd battery, red LED, universal face, autotest, 3.4W remote capable, white
PXRSAB*	Paco exit, Ni-Cd battery, red LED, universal face, black
PXRSARC	Paco exit, Ni-Cd battery, red LED, universal face, 3.4W remote capable, white

* Case quantities may apply, refer to price book and consult factory

Accessories

WG3DX16.5LX14WWHT	Wire guard (wall mount), white
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Submitted by Wells Keown Associates		Catalog Number: PXRSAAT	Type: X2
	Job Name: Multi-Sport Venue - Eastern New Orleans & Lower Ninth Ward Architect: WILLIAMS & ASSOCIATES, ARCHITECTS (NEW ORLEANS)	Notes:	WK25-45367

PACO (PX)

■ emergency heads

The **PACO (PX)** has remote capable option (RC) to operate single or double head remotes. Max load per unit: 3.4W. Compatible with Beghelli Paco PS (1.7W/ head), PR (0.6W/ head) and PRWP (1.17W/ head) remote heads only.

■ electrical

BATTERY: The **PX** is designed with a 3.6V 900mAH maintenance free nickel cadmium battery that provides minimum emergency duration of 90 minutes. The recharge time of the battery is 24 hours. The battery operating temperature is from 50°F up to 104°F(10°C up to 40°C).

CIRCUIT: The **PX** has a 120/277V solid state transformer. Low voltage disconnect and brownout protection are standard. Red or green LEDs totaling <2W.

■ mechanical

The **PX** is designed for surface wall or ceiling installations. Suitable for indoor/ damp location environments. The thermoplastic housing comes in white as standard; optional black is available. The **PACO** is a universal exit available with or without battery back-up. The exit comes standard with mounting canopy and extra stencil face plate.

■ self-powered

The **PX** self-powered is designed to operate on battery power in the event of regular / mains power failure. Both the battery and charger are completely contained within the standard sign. There are no external components and no alterations made to the external dimensions of the standard sign. Status is easily determined via an LED that indicates AC-ON. A push button test switch allows maintenance personnel to quickly confirm the operational status of the exit at any time.

■ warranty

The **PX** comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively void the warranty. For complete warranty details see online.



SUBSTITUTION REQUEST

We believe our acoustical ceiling and wall solutions are a fast and simple way to create beautiful, comfortable spaces. Easy to install and durable, they protect people from noise and the spread of fire while making a constructive contribution towards a sustainable future.

Project Name: Mult Sport Venue in Eastern NO and Low

Project Number: WA-523012/MS1323-1080

Location: 4290 Alonaster Ave. New Orleans, La.

Submitted To: Williams Architects and Multistudio

Address: 824 Barone St.

New Orleans, La. 70113

Phone Number:

Section Number: 95113

Section Title: Acoustical Panel Ceilings

Paragraph(s): 2.3 & 2.4

Specification Page(s): 2 & 3

Request Number: 1

Request Date: January 27, 2026

Submitted By: Willis Jones

Company: ROCKFON

Address: 4849 S. Austin Ave.

Chicago, IL 60638

Phone Number: 1-800-323-7164

Ceiling Contractor: Acoustical Specialties and Supply LLC

Address: 12434 S. Choctaw Dr.

Baton Rouge, La. 70815

Phone Number: 225-275-3440

Additional support materials included: ☒ Product Data ☐ Samples ☐ Other:

Specified Product ACT-1	Product: Armstrong Fine Fissured Item Number: 1728 Size: 24" x 24" x 5/8" Edge Detail: Square Color: White NRC: 0.55 LR: 0.85 Other: Armstrong Prelude XL 15/16" Aluminum Cap	Proposed Product ACT-1	Product: Rockfon Pacific Item Number: 200 Size: 24" x 24" x 1/2" Edge Detail: Square Color: White NRC: 0.60 LR: 0.85 Other: Chicago Metallic 1260/1280 Aluminum Cap 15/16"
Specified Product ACT-2	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:	Proposed Product ACT-2	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:
Specified Product ACT-3	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:	Proposed Product ACT-3	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:
Specified Product ACT-4	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:	Proposed Product ACT-4	Product: Item Number: Size: Edge Detail: Color: NRC: LR: Other:



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Request Number: 1

Project Number: WA-523012/MS1323-1080

Request Date: January 27, 2026

Location: 4290 Alonaster Ave. New Orleans, La.

Submitted By: Willis Jones

Approved: JOHN C. WILLIAMS
Print Name

John C. Williams
Signature Date

SECTION 042200 - CONCRETE UNIT MASONRY (BURNISHED)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Concrete masonry units.
 - 2. Mortar and grout.
 - 3. Steel reinforcing bars.

1.3 DEFINITIONS

- A. Retain definitions remaining after this Section has been edited.
- B. CMU(s): Concrete masonry unit(s).
- C. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide structural unit masonry that develops net-area compressive strengths at 28 days as indicated on Drawings
 - 1. Net-area compressive strength of masonry shall be determined from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For the following:
 - 1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.

2. Reinforcing Steel: Detail bending and placement of unit masonry reinforcing bars. Comply with ACI 315, "Details and Detailing of Concrete Reinforcement." Show elevations of reinforced walls.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Material Certificates: For each type and size of the following:
 1. Masonry units. Include material test reports substantiating compliance with requirements. For masonry units used in structural masonry, include data and calculations establishing average net-area compressive strength of units.
 2. Cementitious materials. Include brand, type, and name of manufacturer.
 3. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
 4. Grout mixes. Include description of type and proportions of ingredients.
- C. Reinforcing bar shop drawings
- D. Joint reinforcement product data.
- E. Anchors, ties, and metal accessories product data.
- F. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
 1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91 for air content.
 2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.
- G. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type, and resulting net-area compressive strength of masonry determined according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
- H. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.7 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.

- B. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.
- C. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.
- D. Masonry Standard: Comply with ACI 530.1/ASCE 6/TMS 602 unless modified by requirements in the Contract Documents.
- E. It is the Contractor's responsibility to engage a qualified Testing Agency for the monitoring of proportioning, mixing, and consistency of mortar and grout on-site and to provide strength testing per Section 3.08

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers designed for use with dispensing silos. Store preblended, dry mortar mix in delivery containers on elevated platforms, under cover, and in a dry location or in covered weatherproof dispensing silos.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.9 PROJECT CONDITIONS

- A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches down both sides of walls and hold cover securely in place.
- B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least three days after building masonry walls or columns.

- C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
 - 1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
 - 2. Protect sills, ledges, and projections from mortar droppings.
 - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 - 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
 - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than 7 days after completing cleaning.
- E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART 2 - PRODUCTS

2.1 MASONRY UNITS, GENERAL

- A. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects will be exposed in the completed Work.
- B. Fire-Resistance Ratings: Where indicated, provide units that comply with requirements for fire-resistance ratings indicated as determined by testing according to ASTM E 119, by equivalent masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

2.2 CONCRETE MASONRY UNITS

- A. CMUs: ASTM C 90, Type N-1.
 - 1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength as required for project designated $f'm$
 - a. For $f'm = 1500$ psi, provide a minimum 1900 psi compressive strength

- b. For $f'm = 2000$ psi, provide a minimum 2800 psi compressive strength.
- 2. Density Classification: Normal weight
- 3. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.
- 4. Exposed Faces: Provide color and texture matching the range represented by Architect's sample.
- 5. Faces to Receive Plaster: Where units are indicated to receive a direct application of plaster, provide textured-face units made with gap-graded aggregates.

2.3 MASONRY LINTELS

- A. General: Provide one of the following:
- B. Concrete Lintels: ASTM C 1623, matching CMUs in color, texture, and density classification; and with reinforcing bars indicated. Provide lintels with net-area compressive strength not less than CMUs.
- C. Concrete Lintels-1: Precast or formed-in-place concrete lintels complying with requirements in Section 03 30 00 "Cast-in-Place Concrete," and with reinforcing bars indicated.
- D. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam CMUs with reinforcing bars placed as indicated and filled with coarse grout. Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

2.4 MORTAR AND GROUT MATERIALS

- A. Portland Cement: ASTM C 150, Type I
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
- D. Masonry Cement: ASTM C 91.
- E. Mortar Cement: ASTM C 1329.
- F. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979. Use only pigments with a record of satisfactory performance in masonry mortar.
- G. Aggregate for Mortar: ASTM C 144.
- H. Aggregate for Grout: ASTM C 404.

1. Maximum size shall be 3/8"
- I. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with
- J. Water: Potable.
- K. Mortar and grout

2.5 REINFORCEMENT

- A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M Grade 60
- B. Horizontal Joint Reinforcement, ASTM A82
 1. 9-gage truss-type, galvanized.

2.6 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Pre-molded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene urethane or PVC.
- B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 or PVC, complying with ASTM D 2287, Type PVC-65406 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.
- C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
- D. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and hold reinforcing bars in center of cells. Units are formed from 0.148-inch steel wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.

2.7 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
 1. Do not use calcium chloride in mortar or grout.
 2. Use portland cement-lime mortar unless otherwise indicated.
 3. For exterior masonry, use portland cement-lime mortar.
 4. For reinforced masonry, use portland cement-lime mortar.

5. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.
- C. Mortar for Unit Masonry: Comply with ASTM C 270 Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry.
 1. For reinforced masonry, use Type S
- D. Grout for Unit Masonry: Comply with ASTM C 476.
 1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
 2. Proportion grout in accordance with ASTM C 476, Table 1 or paragraph 4.2.2 for specified 28-day compressive strength indicated, but not less than 2000 psi.
 3. Provide grout with a slump of 8 to 10 inches as measured according to ASTM C 143/C 143M.

2.8 SEALERS

- A. Provide water repellent water-based silicone emulsion for weatherproofing on exterior surface of concrete masonry walls. Basis-of-design product: Prosoco Blok-Gard & Graffiti Control WB6, or equal.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Provide and install temporary bracing required insuring stability of all walls during construction and until erection of attached structural framing is completed. Temporary shoring is the responsibility of the Contractor.
- B. Build chases and recesses to accommodate items specified in this and other Sections.
- C. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.
- D. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install

cut units with cut surfaces and, where possible, cut edges concealed.

3.2 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation do not vary by more than plus 1/2 inch or minus 1/4 inch.
2. For location of elements in plan do not vary from that indicated by more than plus or minus 1/2 inch.
3. For location of elements in elevation do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls do not vary from level by more than 1/4 inch in 10 feet, or 1/2 inch maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
5. For lines and surfaces do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2 inch maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet, or 1/2 inch maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3 mm).
3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (9 mm) or minus 1/4 inch (6 mm).
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm).

3.3 LAYING MASONRY WALLS

- #### **A.**
- Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at

other locations.

- B. Bond Pattern for Masonry: Unless otherwise indicated, lay exposed masonry in running bond. Do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.
- C. Stopping and Resuming Work: Stop work by racking back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar before laying fresh masonry.
- D. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- E. Revise first paragraph below if flexible perimeter joint or thermal break is required.
- F. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.
- G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.
- H. Fill cores in hollow CMUs with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.
- I. Build non-load-bearing interior partitions full height of story to underside of solid floor or roof structure above unless otherwise indicated.
 - 1. Install compressible filler in joint between top of partition and underside of structure above.
 - 2. Fasten partition top anchors to structure above and build into top of partition. Grout cells of CMUs solidly around plastic tubes of anchors and push tubes down into grout to provide 1/2-inch (13-mm) clearance between end of anchor rod and end of tube. Space anchors 48 inches (1200 mm) o.c. unless otherwise indicated.
 - 3. Wedge non-load-bearing partitions against structure above with small pieces of tile, slate, or metal. Fill joint with mortar after dead-load deflection of structure above approaches final position.

3.4 MORTAR BEDDING AND JOINTING

- A. Lay hollow CMUs as follows:
 - 1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
 - 2. With webs fully bedded in mortar in all courses of piers, columns, and pilasters.
 - 3. With webs fully bedded in mortar in grouted masonry, including starting course on footings.
 - 4. With entire units, including areas under cells, fully bedded in mortar at starting course

on footings where cells are not grouted.

- B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.
- C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
- D. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.
- E. Full head and bed joints shall be provided.
- F. Mortar shall be mixed onsite.
- G. Provide masonry veneer anchors at 16 inches OC set on coursing and attached to all beams, columns, partitions, and walls abutting or embedded in masonry unless noted otherwise on Architectural and Structural Drawings.

3.5 LINTELS AND BOND BEAMS

- A. Provide lintels and bond beams as indicated on Drawings
- B. Horizontal reinforcing bars in bond beams and/or lintel blocks are to be continuous and solid grouted in place and to extend not less than 20 bar diameters or 16 inches (whichever is greater) past the opening face.
- C. Bond beams are to be continuous at control joints, unless otherwise noted.

3.6 MASONRY JOINT REINFORCEMENT

- A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).
 - 1. Space reinforcement not more than 16 inches o.c.
 - 2. Space reinforcement not more than 8 inches o.c. in corners and intersections
- B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
- C. Provide continuity at wall intersections by using prefabricated T-shaped units.
- D. Provide continuity at corners by using prefabricated L-shaped units.

- E. Cut and bend reinforcing units as directed by manufacturer for continuity at corners, returns, offsets, column fireproofing, pipe enclosures, and other special conditions.

3.7 INSTALLATION

- A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
 - 1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
 - 2. All bars shall be tied at splices.
 - 3. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.
 - 4. All formwork is the responsibility of the Contractor.
- B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.
 - 1. Vertical reinforcing bars may be spliced in 6ft and 8ft lengths provided that the splices in adjacent bars are staggered and arranged so that not more than 1/3 of the total number of bars are spliced at any location and not more than 1/2 of the total number of bars are spliced at mid-height of the wall.
 - 2. All bars shall be tied at splices.
 - 3. Vertical bars shall be held in position at top and bottom and at intervals no exceeding 8ft with a minimum clearance of 1/4 inch from the edge of masonry and not less than one bar diameter between bars.
 - 4. Bars shall lap above foundation level and between floors.
 - 5. Reinforcement shall be continuous from level to level.
- C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.
 - 1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
 - 2. Limit height of vertical grout pours to not more than 60 inches for low lift grouting
 - 3. If high lift grouting, provide clean-outs and adequate vibration. Max grout pour height for high lift grouting is 12 ft.
 - 4. All cells containing vertical reinforcing steel, lintel beams and bond beams are to be solid grouted.
 - 5. Grouted cell locations shall be continuous from level to level.
- D. Sealer: Burnished CMU should be sealed after it is installed and washed.

3.8 FIELD QUALITY CONTROL

- A. EOR may perform periodic, visual inspections in accordance with the General Notes on the Drawings. Any inspection shall not, in any way, relieve the Contractor of the final responsibility of the installation of the masonry walls with accordance with the Contract Drawings and Specifications
 - 1. The Engineer may observe the placement of mortar, grout, and masonry units and the placement of reinforcing steel for compliance with the Contract Documents with periodic pre-pour inspection as follows with ACI 530 Quality Assurance Level B: the first pour, minimum (1) additional pre-pour inspection for subsequent pours, and (1) final pre-pour inspection for the top of wall.
 - 2. Visual Inspection is intended to provide quality control and does not alleviate the Contractor from final responsibility of installation of the masonry per drawings or guarantee the Contractor's work
 - 3. First course grout placement shall not occur until the EOR has performed aforementioned visual inspection.
- B. If the Engineer is not engaged or notified by the Contractor to provide Code-required periodic inspection, the Contractor shall bear the expense and responsibility of engaging a qualified third-party inspector, relieving the EOR of periodic inspection duties.
- C. The Testing Agency shall monitor the proportioning, mixing, and consistency of mortar and grout in accordance with ACI 530 Quality Assurance Level B.
- D. Grout Prism Compressive Testing
 - 1. One set shall equal (3) prisms each for testing at (7) days and (28) days, plus retain (3) additional prisms for any required additional testing.
 - 2. One set of tests for each 3000 sq. ft. of wall area or portion thereof, but not less than (2) tests for each testing period or (1) test per day of grout placement.
 - 3. Build and test masonry grout prisms in accordance with ASTM C1019.
 - 4. Build grout prisms in the presence of the Testing Agency.
- E. Mortar Cube Testing
 - 1. One set shall equal (3) prisms each for testing at (7) days and (28) days, plus retain (3) additional prisms for any required additional testing.
 - 2. One set of tests for each 3000 sq. ft. of wall area or portion thereof, but not less than (1) test for each mortar type.
 - 3. Build masonry mortar cubes in accordance with ASTM C270 in the presence of the Testing Agency.

3.9 REPAIRING, POINTING, AND CLEANING

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise

damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
 - 1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
 - 2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
 - 3. Protect adjacent stone and non-masonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
 - 4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
 - 5. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

END OF SECTION 042200

SECTION 095113 - ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Acoustical panels.
 - 2. Metal suspension system.
 - 3. Metal edge moldings and trim.

1.2 ACTION SUBMITTALS

- A. Product Data:
 - 1. For each type of product.
- B. Samples: For each exposed product and for each color and texture specified, **6 inches** in size.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For finishes to include in maintenance manuals.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Acoustical Ceiling Units: Full-size panels equal to 2 percent of quantity installed.
 - 2. Suspension-System Components: Quantity of each exposed component equal to 2 percent of quantity installed.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical panels, suspension-system components, and accessories to Project site and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and a stabilized

moisture content.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Source Limitations for Ceiling System: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: Class A in accordance with ASTM E1264.
 - 2. Smoke-Developed Index: 50 or less.

2.3 ACOUSTICAL PANELS

- A. Acoustical Panels:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Armstrong World Industries
 - b. CertainTeed; SAINT-GOBAIN
 - c. USG Corporation
 - d. Rockfon
 - 2. Acoustical Panel Standard: Provide manufacturer's standard panels in accordance with ASTM E1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.
 - 3. Classification: Provide panels as follows:

- a. Type and Form, Type XX: High-density, ceramic- and mineral-base panels with scrubbable finish, resistant to heat, moisture, and corrosive fumes.
- b. Pattern: G (smooth).
- 4. Color: White.
- 5. Light Reflectance (LR): Not less than 0.70.
- 6. Ceiling Attenuation Class (CAC): Not less than 30.
- 7. Edge/Joint Detail: Square.
- 8. Thickness: 5/8 inch.
- 9. Modular Size: 24 by 24 inches.

2.4 METAL SUSPENSION SYSTEM

A. Exposed Metal Suspension System:

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Armstrong World Industries
 - b. CertainTeed; SAINT-GOBAIN
 - c. USG Corporation
- 2. Metal Suspension-System Standard: Provide manufacturer's standard, direct-hung, metal suspension system and accessories in accordance with ASTM C635/C635M and designated by type, structural classification, and finish indicated.
 - a. High-Humidity Finish: Where indicated, provide coating tested and classified for "severe environment performance" in accordance with ASTM C635/C635M.
- 3. Wide-Face, Aluminum-Capped, Double-Web, Hot-Dip Galvanized, G60 (Z180), Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; hot-dip galvanized, **G60** coating designation; with prefinished, **15/16-inch-** wide aluminum caps on flanges.
 - a. Structural Classification: Intermediate-duty system.
 - b. Face Design: Flat, flush.
 - c. Cap Finish: Painted white.

2.5 ACCESSORIES

- A. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
- B. Wire Hangers, Braces, and Ties: Provide wires as follows:

1. Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.
2. Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C635/C635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.106-inch- diameter wire.

2.6 METAL EDGE MOLDINGS AND TRIM

A. Metal Edge Moldings and Trim:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Armstrong World Industries
 - b. CertainTeed; SAINT-GOBAIN
 - c. USG Corporation
2. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
 - a. Edge moldings to fit acoustical panel edge details and suspension systems indicated and match width and configuration of exposed runners unless otherwise indicated.
 - b. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
- B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders unless otherwise indicated, and comply with layout shown on reflected ceiling plans.
- B. Layout openings for penetrations centered on the penetrating items.

3.3 INSTALLATION OF ACOUSTICAL PANEL CEILINGS

- A. Install acoustical panel ceilings in accordance with ASTM C636/C636M and manufacturer's written instructions.
- B. Suspend ceiling hangers from building's structural members and as follows:
 - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
 - 2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 - 3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
 - 4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly to structure or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
 - 5. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
 - 6. Do not attach hangers to steel deck tabs.
 - 7. Do not attach hangers to steel roof deck. Attach hangers to structural members.
 - 8. Space hangers not more than **48 inches** o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than **8 inches** from ends of each member.
 - 9. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.
- C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
 - 1. Screw attach moldings to substrate at intervals not more than **16 inches** o.c. and not more than **3 inches** from ends. Miter corners accurately and connect securely.
 - 2. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- D. Install suspension-system runners so they are square and securely interlocked with one

another. Remove and replace dented, bent, or kinked members.

3.4 ERECTION TOLERANCES

- A. Suspended Ceilings: Install main and cross runners level to a tolerance of 1/8 inch in 12 feet, non-cumulative.
- B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet, non-cumulative.

3.5 CLEANING

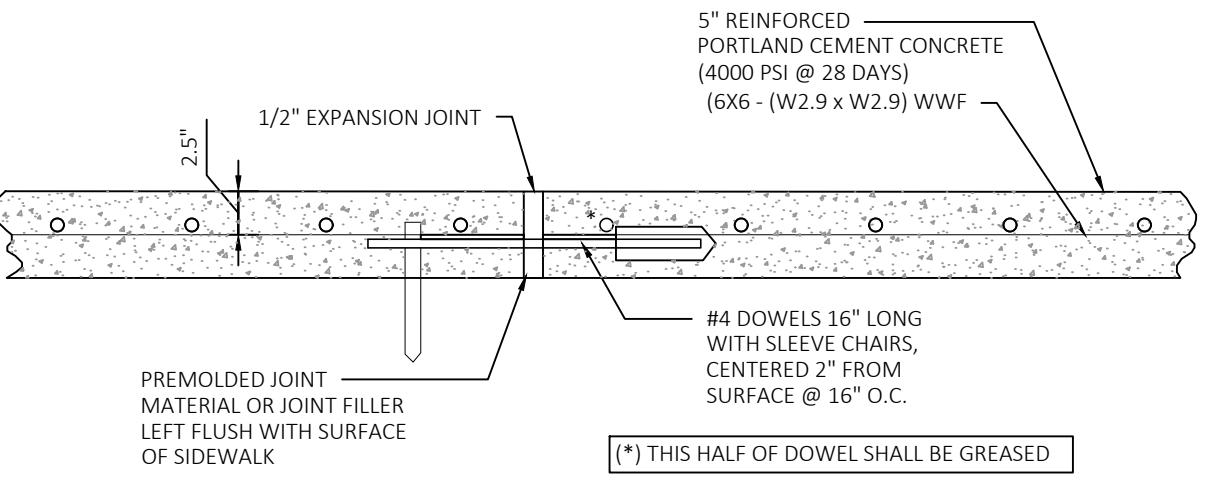
- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
- B. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 095113

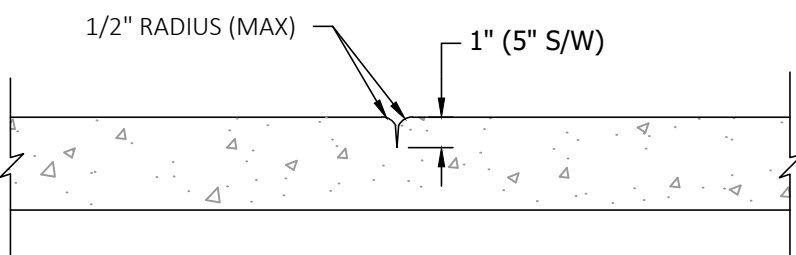


CONTRACTOR TO PROTECT ALL
EXISTING UTILITIES DURING
DEMOLITION WORK. CONTACT
ENGINEER IF ANY CONFLICTS ARISE

JOINTING PLAN
SCALE 1:30



2 TYPICAL EXPANSION JOINT
NOT TO SCALE



1 TYPICAL HAND TOOLED CONTROL JOINT
NOT TO SCALE