

Project		Catalog #		Type	
Prepared by		Notes		Date	



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Invue Epic

Decorative Pendant Luminaire

Product Certifications & Features



Light ARchitect™

AVAILABLE

AVAILABLE

Certified by Underwriters Laboratories

Product Specifications

OPTICAL

- Choice of eight patented, high-efficiency AccuLED Optic™ technology options and five wavestream optics
- Optics are IP66 enclosure rated
- 9 Correlated Color Temperature (CCT) options:
 - » 70 CRI: 2200K, 2700K, 3000K, 4000K, 3500K 5000K
 - » 80 CRI: 3000K, 4000K
 - » Amber for wildlife-friendly and observatory applications
- Optional field-installable shields for superior spill light control (discrete LEDs only):
 - » Single-piece snap-on square shields
 - » Multiple-piece configurable vertical perimeter shielding

ELECTRICAL

- 120-277V, 347-480V, 347V, and 480V; 50/60Hz
- Standard 0-10V dimming
- 10kV and 20kV surge protection options in series and parallel versions
- Standard 3-position terminal block
- Suitable for operation in -40°C to 40°C ambient environments

PHYSICAL CHARACTERISTICS

- Cast aluminum top housing attaches to cast aluminum mounting arm hub with four fasteners
- One-piece silicone gasket between casting and power wires seals out moisture and contaminants
- Continuous silicone gaskets are used to seal the lens and mechanical structures
- Tall fixture configurations feature a field-serviceable center section which can lift to allow easy access to surge module, PCR, and FADC
- Heavy gauge precision spun aluminum shades offer superior surface finish and consistency in form
- Optional tenon-mount bishop arm for post top retrofits
 - » Full selection of compatible mounting arms available in accessories section
- Housing finished in 5-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- 7 standard color options, plus a wide range of custom colors (Consult your Cooper Lighting representative for custom color options)
- Approximate Weight: 26 lbs (tall); 21 lbs (short)
- Fixture EPA: 0.70 (tall); 0.50 (short)

CONTROLS

- Optional ANSI C136.10 7-pin receptacle for photocells or Networked Lighting Control (NLC) modules
- Optional Field Adjustable Dimming Control Module (FADC)
 - » Enables manual adjustment of power consumption and lumen output. Factory preset to highest output level for option selected
 - » Allows a single fixture SKU to cover multiple field applications with manual adjustment at installation
- Optional 4-pin Zhaga Book 18 receptacle for integration of onboard sensors with DALI- and D4i-enabled drivers

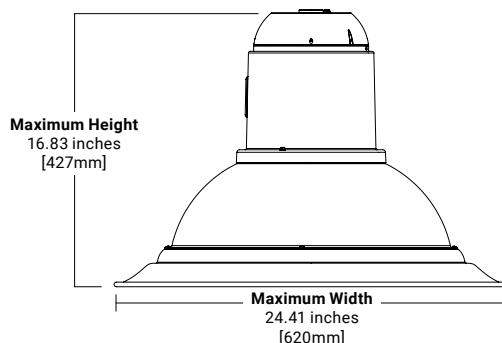
COMPLIANCE

- DarkSky approved for 3000K CCT and warmer
- UL Wet Location rated

WARRANTY

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

Dimensional Details



See configurations for more detailed information.

Ordering Information

SAMPLE ORDER NUMBER: EMM2-HTN-SA1B-740-U-5WQ-TB-1-CL-GM

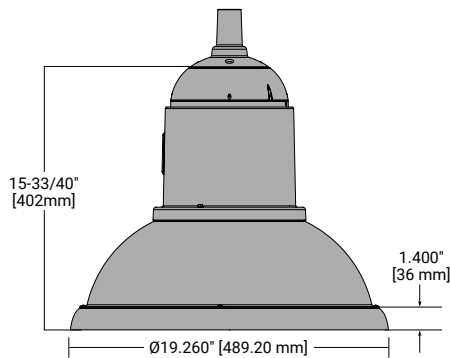
Product Family ^{1,2}		Housing	Light Engine	CRI/CCT	Voltage	Optic	Shade Type
EMM2 = Epic Modern BAA-EMM2 = Epic Modern Buy American Act Compliant ³ TAA-EMM2 = Epic Modern Contemporary Trade Agreements Act Compliant ⁴		HSN = Short housing ^{4,5,29} HTN = Tall housing ⁶	Discrete Configurations: SA1A = 1 Light Square, 5,000lm Nominal SA1B = 1 Light Square, 6,300lm Nominal SA2A = 2 Light Squares, 9,500lm Nominal SA2B = 2 Light Squares, 13,000lm Nominal SA2C = 2 Light Squares, 14,000lm Nominal SA3A = 3 Light Squares, 17,000lm Nominal SA3B = 3 Light Squares, 19,000lm Nominal Visual Comfort Configurations: VA1 = Wavestream, 3,000lm Nominal VA2 = Wavestream, 4,000lm Nominal VA3 = Wavestream, 5,000lm Nominal VA4 = Wavestream, 6,000lm Nominal VA5 = Wavestream, 8,000lm Nominal VA6 = Wavestream, 10,000lm Nominal VA7 = Wavestream, 15,000lm Nominal VA8 = Wavestream, 18,000lm Nominal ^{8,10} VA9 = Wavestream, 20,000lm Nominal ^{8,10}	722 = 70CRI, 2200K ⁸ 727 = 70CRI, 2700K 730 = 70CRI, 3000K 735 = 70CRI, 3500K ⁷ 740 = 70CRI, 4000K 750 = 70CRI, 5000K 830 = 80CRI, 3000K ²⁶ 840 = 80CRI, 4000K ^{8,26} AMB = Amber, 590nm ^{9,23}	U = Universal (120-277V) H = High Voltage (347-480V) ^{21,24} 8 = 480V ^{21,24} 9 = 347V ²¹ DV = DuraVolt Drivers (277-480V) ^{21,24}	Discrete Optics ⁸ T1 = Type I T2R = Type II Roadway T2U = Type II Urban T3 = Type III T4W = Type IV Wide T5R = Type V Round 5MQ = Type V Square Medium 5WQ = Type V Square Wide Visual Comfort Optics ⁷ CQ = Wavestream Concentrated MQ = Wavestream Medium WQ = Wavestream Wide RW = Wavestream Rectangular Wide ^{9,11} WT4 = Wavestream Type IV ^{9,11}	TB = Tall Bell FL = Flute CO = Cone
Trim Type	Mounting options	Finish	Options (Add as Suffix)	Controls	Accessories (Order Separately)		
0 = No trim 1 = Round 2 = Flare	CL = Standard Mounting UA = Retrofit Adapter A ²⁸ UU = Retrofit Adapter B ²⁸	AP = Grey BZ = Bronze BK = Black DP = Dark Platinum GM = Graphite Metallic GN = Hartford Green (premium) WH = White RALXXXX = RAL Number (premium)	10MSP = Parallel 10kV MOV Surge Protective Device 10K = Series 10kV UL 1449 Surge Protective Device 20MSP = Parallel 20kV MOV Surge Protective Device 20K = Series 20kV UL 1449 Surge Protective Device 20KI = Series 20kV UL 1449 Surge Protective Device w light indicator HSS ^{9,12} HA = 50° C High Ambient Temperature ¹¹ CC = Coastal Construction ¹³ CBP-CEC = Cold Weather Emergency Battery Pack, CEC Compliant (Ambient Temp, -20° to 40°C) ^{14,15,22} XTB = No Terminal Block W = External wire leads 20ft Dxxxxx = DOT configuration - contact factory quotes team Uxxxxx = Utility configuration - contact factory quotes team	PR = NEMA 3-PIN Twistlock Photocontrol Receptacle ^{16,29} PR7 = NEMA 7-Pin Twistlock Photocontrol Receptacle ^{16,29} PSC = Photocontrol Shorting Cap included ¹⁷ NPC = NEMA Photocontrol, Multi-Tap, included ¹⁷ LLPC = Long Life Photocontrol included ¹⁷ FADC = Field Adjustable Dimming Controller ^{16,18} DALI = DALI Driver(s) - check with factory quotes team for availability ¹⁴ D4 = D4i driver(s) - check with factory quotes team for availability ¹⁴ Z4 = 4-pin DALI receptacle Zhaga Book ¹⁹ WPS2WH = WaveLinX Wireless Sensor, 7'-15' mounting height ^{19,27} WPS4WH = WaveLinX Wireless Sensor, 15'-40" mounting height ^{19,27} WLS2WH = WaveLinX Wireless Sensor with Bluetooth, 7'-15' mounting height ¹⁹ WLS4WH = WaveLinX Wireless Sensor with Bluetooth, 15'-40" mounting height ¹⁹ ZSC = Zhaga Book 18 shorting cap ²⁰	OA1223 = 10kV Surge Module PBHSS = House Side Shield (Single) ^{8,25} PBPFS = Perimeter Fence Shield Kit (4 Pieces) OA/RA1013 = Photocontrol Shorting Cap OA/RA1014 = NEMA Photocontrol - 120V OA/RA1016 = NEMA Photocontrol - Multi-Tap OA/RA1027 = NEMA Twistlock Photocontrol - 480V		
					Mounting Accessories (Order Separately)		
					MODERN VA6098-XX = Flat Bracket Bishop Wall Mount Arm VA6099-XX = Flat Bracket Bishop Pole Mount Arm VA6100-XX = Post Top Tenon Mount Bishop Arm (for 3" OD Tenon) VA6101-XX = Bishop Wall Mount Arm VA6102-XX = Bishop Wall Mount Arm with Cross Rod VA6103-XX = Traditional Wall Mount Arm VA6104-XX = Traditional Wall Mount Arm with 45° Straps VA6105-XX = Bishop Single Pole Mount Arm ³⁰ VA6106-XX = Bishop Single Pole Mount Arm with Cross Rod ³⁰ VA6107-XX = Bishop Twin Pole Mount Arm ³⁰ VA6108-XX = Bishop Twin Pole Mount Arm with Cross Rods ³⁰ VA6109-XX = Traditional Single Pole Mount Arm ³⁰ VA6110-XX = Traditional Single Pole Mount Arm with Rounded Upper Bar ³⁰ VA6111-XX = Traditional Single Pole Mount Arm with Rounded Lower Bar ³⁰ VA6112-XX = Traditional Single Pole Mount Arm with 45° Upper Bar ³⁰ VA6113-XX = Traditional Single Pole Mount Arm with 45° Lower Bar ³⁰ VA6114-XX = Traditional Single Pole Mount Arm with 45° Upper Strap ³⁰ VA6116-XX = Traditional Twin Pole Mount Arm ³⁰ VA6117-XX = Traditional Twin Pole Mount Arm with Rounded Upper Bars ³⁰ VA6118-XX = Traditional Twin Pole Mount Arm with Rounded Lower Bars ³⁰ VA6119-XX = Traditional Twin Pole Mount Arm with 45° Upper Bars ³⁰ VA6120-XX = Traditional Twin Pole Mount Arm with 45° Lower Bars ³⁰ VA6121-XX = Traditional Twin Pole Mount Arm with 45° Upper Straps ³⁰ VA6122-XX = Mast Arm Adapter ³⁰		

NOTES:

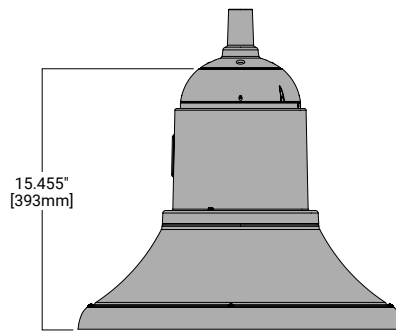
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- 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.
- Not available with PR or PR7 Receptacle or FADC
- Limited access for field service
- Will include sensor window if PR or PR7 options are selected
- Not available with SA configuration (discrete)
- Not available with VA configuration (Wavestream)
- Not available with HA (High Ambient) option
- Not available with RW or WT4 wavestream
- Not available with SA3B, VA8 or VA9 configurations
- Not available with T1, T5R, 5MQ, or 5WQ optics
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Must choose XTB (no terminal block)
- Only available with SA1A, VA1 or VA2 configurations.
- Not available with HSN (Short Housing) option
- Must select PR or PR7
- Not available with PR7 option
- Must select DALI or D4 driver option
- Must select Z4
- Not available with SA1A, SA1B, VA configurations.
- Only offered with U (120-277V)
- For VA configurations, Amber only available with VA1 and VA3. For SA configurations, Amber only available with SA1A and SA2A.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (common High Leg Delta and Three Phase Corner Grounded Delta Systems).
- Not available for use with 5WQ optic.
- Check with factory quotes team for availability.
- WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
- Factory installed retrofit adaptor available for installation with existing competitor arms. Consult your Cooper Lighting Solutions representative for details.
- NEMA receptacle (PR or PR7) must be mounted on arm if HSN (short housing) is selected.
- If NEMA receptacle is to be mounted on arm, add -PR or -PR7 to arm (ex. VA6105-BK-PR7).

Configurations

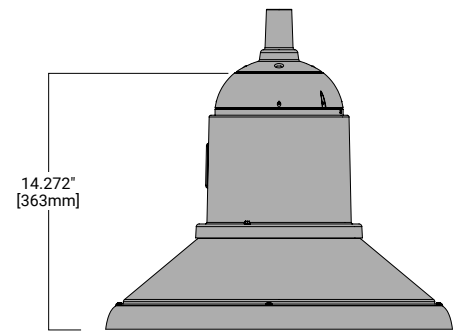
ROUND TRIM



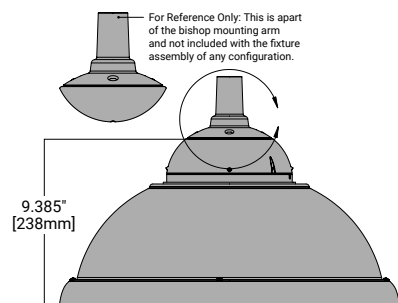
Tall Housing, Bell Shade, Round Trim



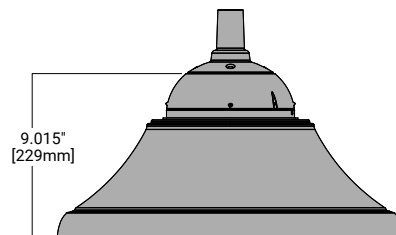
Tall Housing, Flute Shade, Round Trim



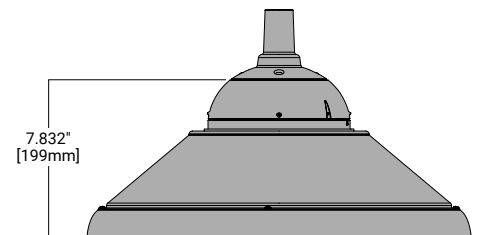
Tall Housing, Cone Shade, Round Trim



Short Housing, Bell Shade, Round Trim

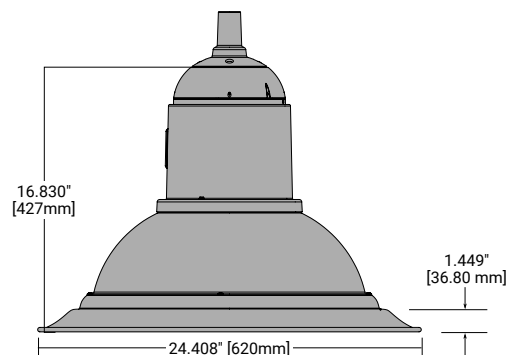


Short Housing, Flute Shade, Round Trim

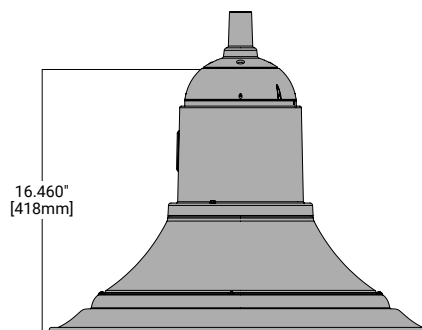


Short Housing, Cone Shade, Round Trim

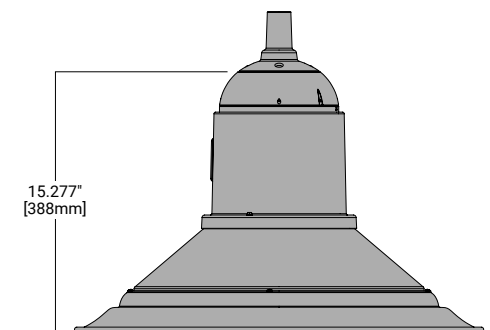
FLARE TRIM



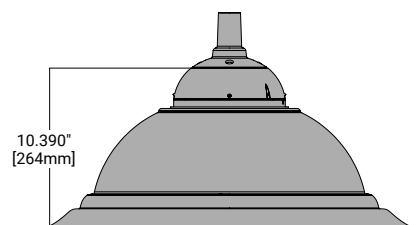
Tall Housing, Bell Shade, Flare Trim



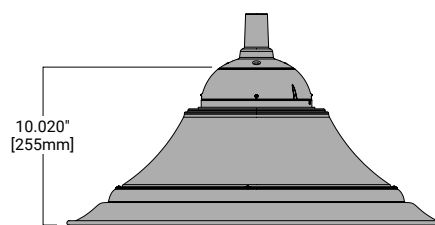
Tall Housing, Flute Shade, Flare Trim



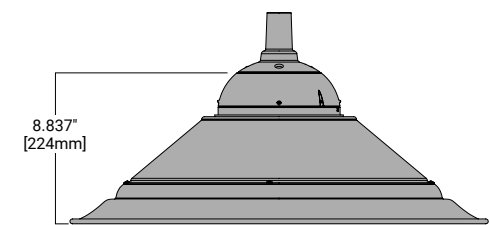
Tall Housing, Cone Shade, Flare Trim



Short Housing, Bell Shade, Flare Trim

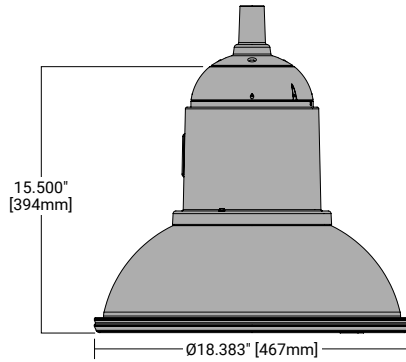


Short Housing, Flute Shade, Flare Trim

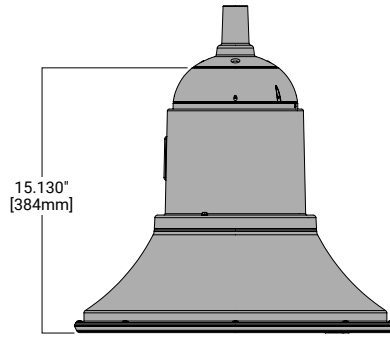


Short Housing, Cone Shade, Flare Trim

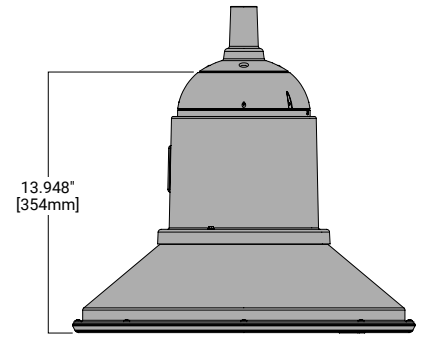
NO TRIM



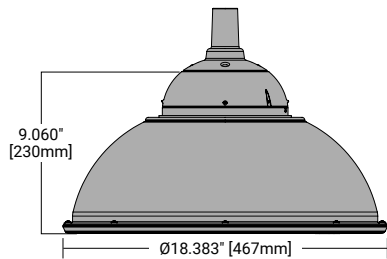
Tall Housing, Bell Shade, No Trim



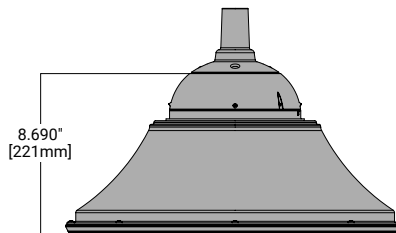
Tall Housing, Flute Shade, No Trim



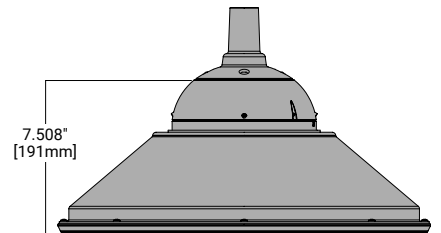
Tall Housing, Cone Shade, No Trim



Short Housing, Bell Shade, No Trim



Short Housing, Flute Shade, No Trim

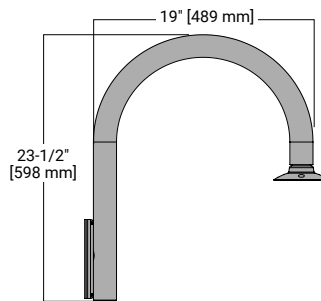


Short Housing, Cone Shade, No Trim

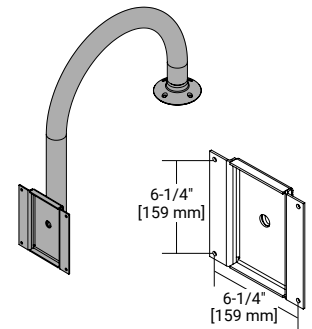
Mounting Details

DESCRIPTION

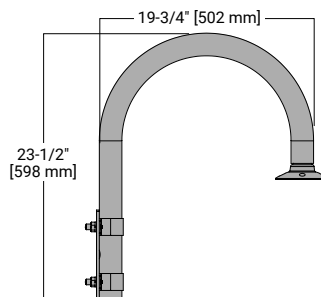
FLAT BRACKET BISHOP
WALL MOUNT ARM



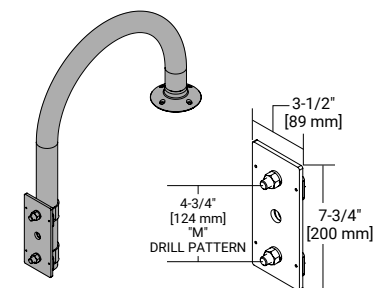
VA6098-XX
E.P.A: 0.50 | Weight: 6lbs



FLAT BRACKET BISHOP
POLE MOUNT ARM



VA6099-XX
E.P.A: 0.50 | Weight: 6lbs

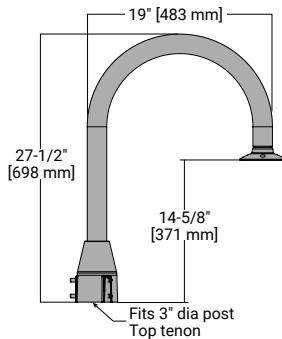


Mounting Details

DESCRIPTION

POST TOP TENON MOUNT BISHOP ARM

Slipfits over 3" OD post
top tenon



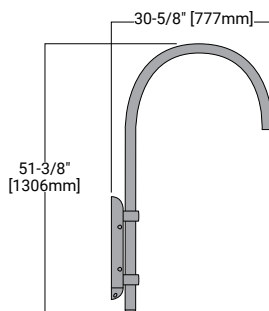
VA6100

E.P.A: 0.90 | Weight: 8lbs

STANDARD VERSIONS

BISHOP WALL MOUNT ARM

Mounts to wall with four stainless
steel lag bolts (provided by other).

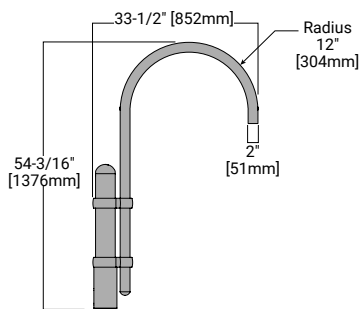


VA6101 (Modern)

E.P.A: 0.90 | Weight: 16 lbs.

BISHOP SINGLE POLE MOUNT ARM

Slipfits over 4" round straight
pole, or 4" O.D. by 6" tall round
tenon.

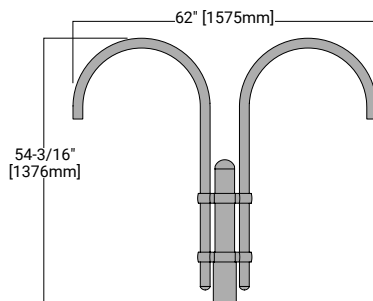


VA6105 (Modern)

E.P.A: 0.92 | Weight: 24 lbs.

BISHOP TWIN POLE MOUNT ARM

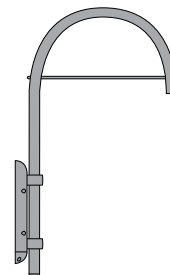
Slipfits over 4" round straight
pole, or 4" O.D. by 6" tall round
tenon.



VA6107 (Modern)

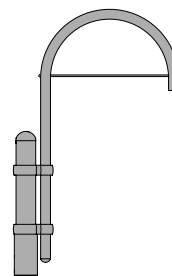
E.P.A: 1.43 | Weight: 37 lbs.

CROSS ROD VERSIONS



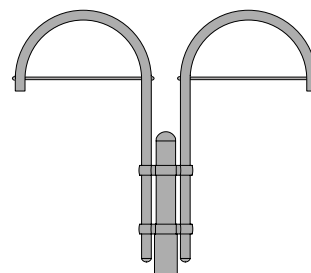
VA6102 (Modern)

E.P.A: 0.95 | Weight: 17 lbs.



VA6106 (Modern)

E.P.A: 0.98 | Weight: 25 lbs.



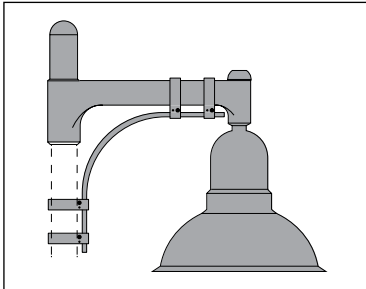
VA6108 (Modern)

E.P.A: 1.55 | Weight: 39 lbs.

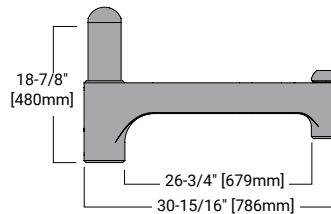
Mounting Accessories

DESCRIPTION

Slipfits over 4" round straight pole, or 4" O.D. by 6" tall round tenon.



SINGLE POLE

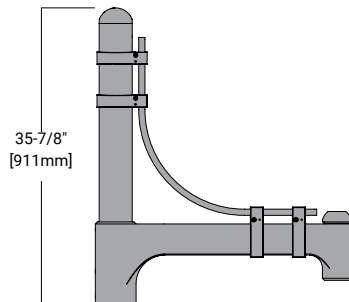


TRADITIONAL SINGLE POLE MOUNT ARM

VA6109 (Modern)

E.P.A: 0.86 | Weight: 20 lbs.

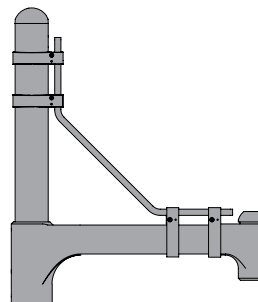
ADORNMENT ABOVE



TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED UPPER BAR

VA6110 (Modern)

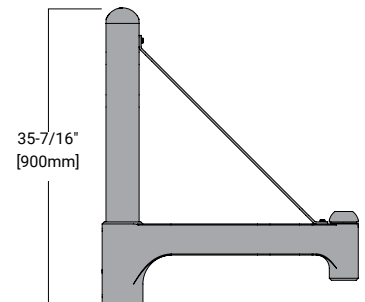
E.P.A: 1.4 | Weight: 28 lbs.



TRADITIONAL SINGLE POLE MOUNT ARM WITH 45° UPPER BAR

VA6112 (Modern)

E.P.A: 1.38 | Weight: 28 lbs.

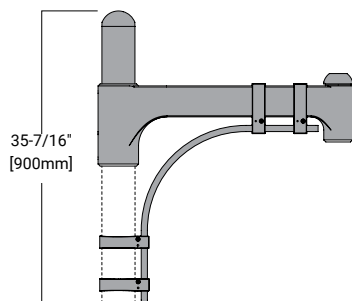


TRADITIONAL SINGLE POLE MOUNT ARM WITH 45° UPPER STRAP

VA6114 (Modern)

E.P.A: 1.17 | Weight: 24 lbs.

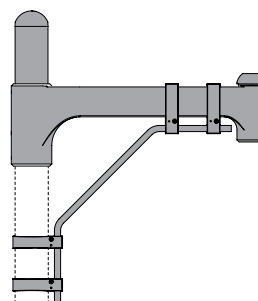
ADORNMENT BELOW



TRADITIONAL SINGLE POLE MOUNT ARM WITH ROUNDED LOWER BAR

VA6111 (Modern)

E.P.A: 1.16 | Weight: 25 lbs.



TRADITIONAL SINGLE POLE MOUNT ARM WITH 45° LOWER BAR

VA6113 (Modern)

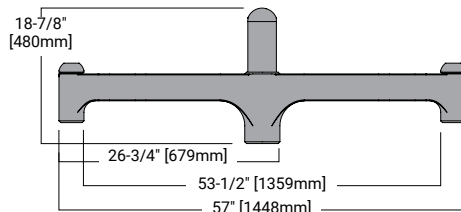
E.P.A: 1.17 | Weight: 24 lbs.

Mounting Accessories

DESCRIPTION

Slipfits over 4" round straight pole, or 4" O.D. by 6" tall round tenon.

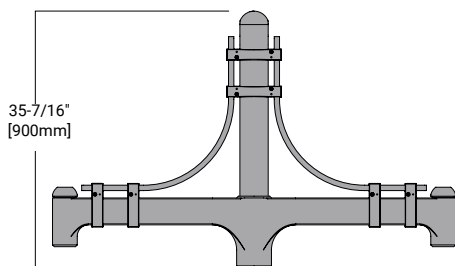
TWIN POLE



TRADITIONAL TWIN POLE MOUNT ARM

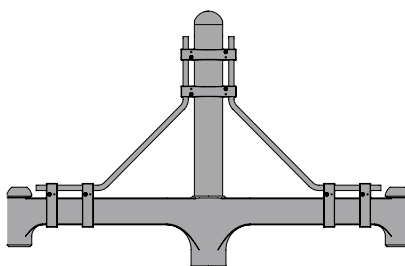
VA6116 (Modern)
E.P.A: 1.44 | Weight: 30 lbs.

ADORNMENT ABOVE



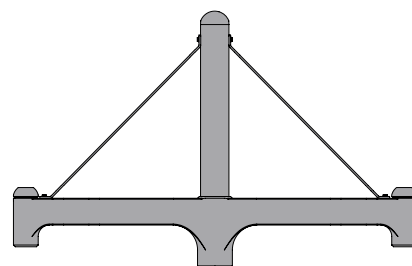
TRADITIONAL TWIN POLE MOUNT ARM WITH ROUNDED UPPER BARS

VA6117 (Modern)
E.P.A: 2.28 | Weight: 43 lbs.



TRADITIONAL TWIN POLE MOUNT ARM WITH 45° UPPER BARS

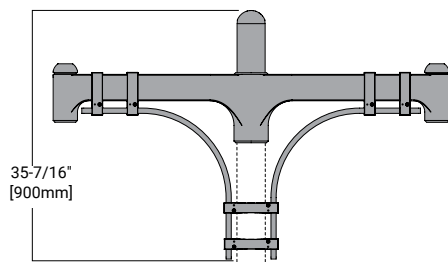
VA6119 (Modern)
E.P.A: 2.24 | Weight: 43 lbs.



TRADITIONAL TWIN POLE MOUNT ARM WITH 45° UPPER STRAPS

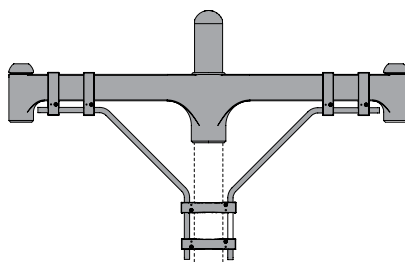
VA6121 (Modern)
E.P.A: 1.81 | Weight: 37 lbs.

ADORNMENT BELOW



TRADITIONAL TWIN POLE MOUNT ARM WITH ROUNDED LOWER BARS

VA6118 (Modern)
E.P.A: 2.04 | Weight: 40 lbs.



TRADITIONAL TWIN POLE MOUNT ARM WITH 45° LOWER BARS

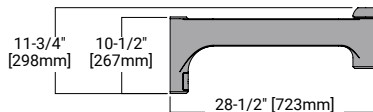
VA6120 (Modern)
E.P.A: 2.0 | Weight: 40 lbs.

Mounting Accessories

DESCRIPTION

Mounts to wall with four stainless steel lag bolts (provided by other).

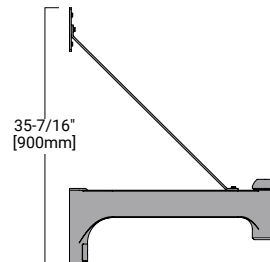
WALL MOUNT



TRADITIONAL WALL MOUNT ARM

VA6103 (Modern)

Weight: 17 lbs.



TRADITIONAL WALL MOUNT ARM

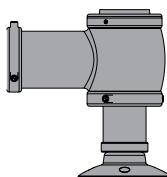
WITH 45° STRAP

VA6104 (Modern)

Weight: 18 lbs.

ADAPTER

Secures fixture to nominal 2" pipe (2-3/8" horizontal O.D.)



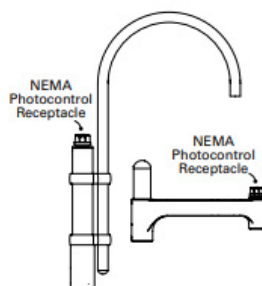
MAST ARM ADAPTER

VA6122 (Modern)

Weight: 4 lbs.

SHORT HOUSING PCR MOUNTING

PCR mounts inside fixture of Tall Housing
PCR must mount outside of fixture
(as pictured) with Short Housing

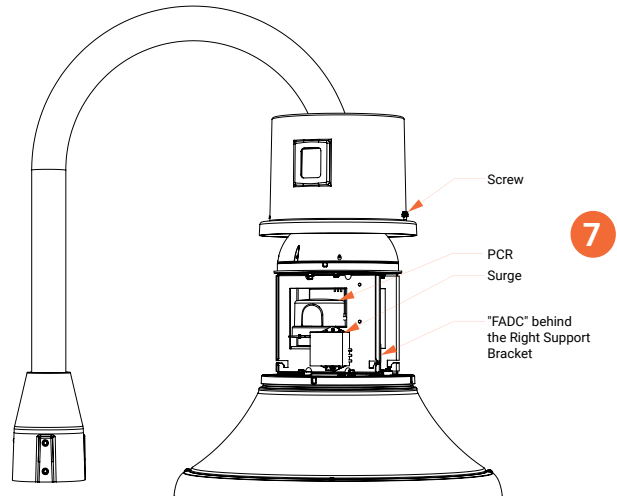
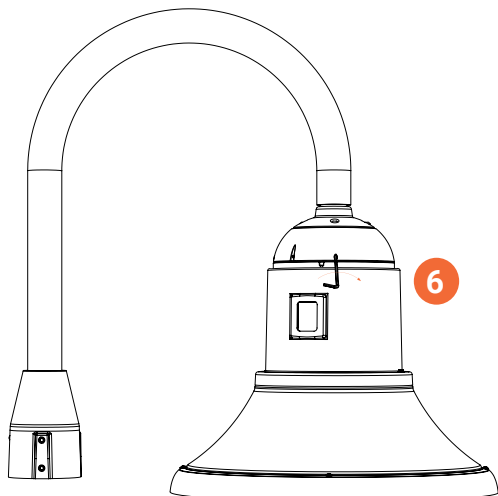
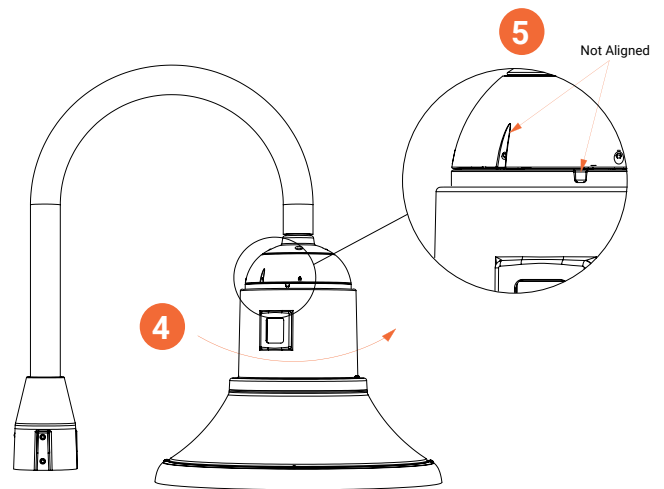
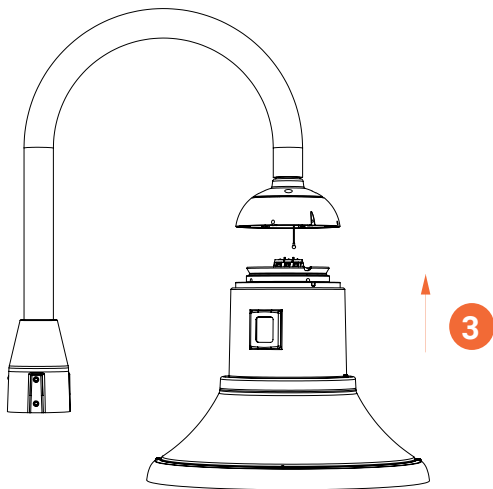
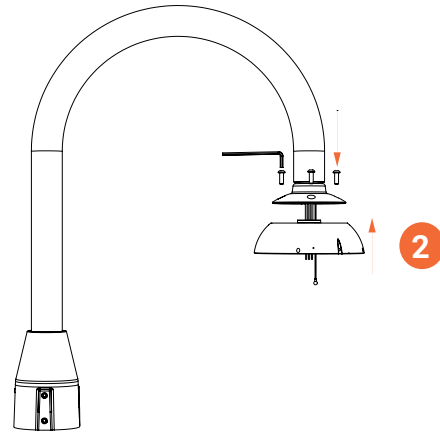
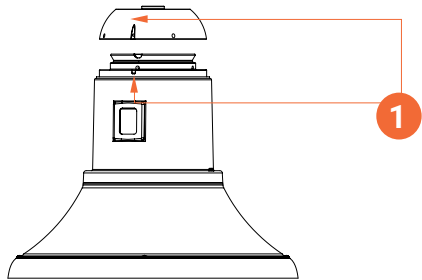


NEMA TWISTLOCK PHOTOCONTROL (R)

Order separately (Not compatible with finials or wall mount bishop arms)

Installation Overview

1. Align grooves and remove rotate cover.
2. Install rotate cover to arm. Torque to 40 in-lbs.
3. Hang fixture by cable and make electrical connections.
4. Push excess wire into bishop pole. Align grooves.
5. Lift fixture and twist until grooves are not aligned and STREET SIDE LABEL on bottom of fixture is towards the street.
6. Tighten set screws (4). Torque to 15 in-lbs or about equal to the torque using the short end of the allen wrench. Do Not Over Tighten.
7. Service cover. Loosen captive screws and lift to service the Surge, PCR, and FADC.



Energy and Performance Data

Light Engine	SA1A	SA1B	SA2A	SA2B	SA2C	SA3A	SA3B
Actual Power (Watts)	33	44	61	90	101	113	134
Input Current @ 120V (A)	0.275	0.368	0.506	0.751	0.840	0.947	1.117
Input Current @ 277V (A)	0.122	0.161	0.227	0.328	0.364	0.421	0.488
Input Current @ 347V (A)	0.097	0.128	0.174	0.260	0.290	0.342	0.402
Input Current @ 480V (A)	0.073	0.095	0.128	0.189	0.210	0.249	0.290

Discrete Light Squares (SA) 70 CRI, 3000K								
T1	Lumens	4853	6125	9148	12574	13470	16530	18680
	Lumens per Watt	148	139	150	140	133	146	139
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T2R	Lumens	4699	5931	8858	12176	13043	16006	18088
	Lumens per Watt	143	135	145	135	129	142	135
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T2U	Lumens	4711	5946	8880	12206	13076	16046	18133
	Lumens per Watt	144	135	146	136	129	142	135
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T3	Lumens	4690	5919	8840	12151	13017	15974	18051
	Lumens per Watt	143	135	145	135	129	141	135
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
T4W	Lumens	4605	5813	8681	11932	12782	15686	17726
	Lumens per Watt	140	132	142	133	127	139	132
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
T5R	Lumens	4788	6043	9025	12405	13289	16307	18428
	Lumens per Watt	146	137	148	138	132	144	138
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	Lumens	4852	6124	9145	12571	13467	16525	18675
	Lumens per Watt	148	139	150	140	133	146	139
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	Lumens	4828	6093	9100	12508	13400	16443	18582
	Lumens per Watt	147	138	149	139	133	146	139
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2

Discrete Light Squares (SA) 70 CRI, 4000K								
T1	Lumens	5146	6495	9700	13333	14283	17527	19807
	Lumens per Watt	157	148	159	148	141	155	148
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4
T2R	Lumens	4983	6289	9393	12910	13830	16972	19179
	Lumens per Watt	152	143	154	143	137	150	143
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T2U	Lumens	4995	6305	9416	12943	13865	17014	19227
	Lumens per Watt	152	143	154	144	137	151	143
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T3	Lumens	4973	6277	9374	12884	13802	16937	19141
	Lumens per Watt	152	143	154	143	137	150	143
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
T4W	Lumens	4883	6163	9205	12652	13554	16632	18795
	Lumens per Watt	149	140	151	141	134	147	140
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
T5R	Lumens	5077	6408	9569	13153	14090	17291	19540
	Lumens per Watt	155	146	157	146	140	153	146
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	Lumens	5145	6493	9697	13329	14279	17522	19802
	Lumens per Watt	157	148	159	148	141	155	148
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	Lumens	5119	6461	9649	13263	14208	17435	19703
	Lumens per Watt	156	147	158	147	141	154	147
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2

Light Engine	VA1	VA2	VA3	VA4	VA5	VA6	VA7	VA8	VA9
Actual Power (Watts)	28	39	49	59	78	106	130	156	170
Input Current @ 120V (A)	0.238	0.331	0.405	0.493	0.676	0.861	1.090	1.301	1.529
Input Current @ 277V (A)	0.107	0.148	0.176	0.221	0.285	0.388	0.490	0.576	0.666
Input Current @ 347V (A)	0.087	0.117	0.139	0.169	0.218	0.294	0.374	0.447	0.521
Input Current @ 480V (A)	0.065	0.086	0.102	0.124	0.158	0.214	0.274	0.324	0.376

Wavestream Visual Comfort (VA) 70 CRI, 3000K										
WQ	Lumens	2903	4028	4982	6077	7655	9988	14959	17546	19139
	Lumens per Watt	104	104	102	103	98	94	115	112	113
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3
MQ	Lumens	3233	4486	5549	6768	8526	11125	14714	17257	18825
	Lumens per Watt	115	116	113	115	109	105	113	111	111
	BUG Rating	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G3
CQ	Lumens	2255	3129	3871	4721	5948	7760	11813	13856	15114
	Lumens per Watt	81	81	79	80	76	73	91	89	89
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2
WT4	Lumens	2970	4025	4978	5798	7297	9162	12996	-	-
	Lumens per Watt	106	104	102	98	94	86	100	-	-
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B2-U0-G3	-	-
RW	Lumens	2391	3240	4008	4668	5875	7377	13307	-	-
	Lumens per Watt	85	84	82	79	75	70	102	-	-
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	-	-

Wavestream Visual Comfort (VA) 70 CRI, 4000K										
WQ	Lumens	3072	4262	5272	6430	8101	10569	15820	18555	20240
	Lumens per Watt	110	110	108	109	104	100	122	119	119
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G4
MQ	Lumens	3421	4747	5872	7162	9023	11772	15560	18250	19908
	Lumens per Watt	122	123	120	121	116	111	120	117	117
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3
CQ	Lumens	2387	3311	4096	4996	6294	8212	12493	14653	15984
	Lumens per Watt	85	86	84	85	81	77	96	94	94
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2
WT4	Lumens	3142	4259	5268	6136	7722	9696	13744	-	-
	Lumens per Watt	112	110	108	104	99	91	106	-	-
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B2-U0-G3	-	-
RW	Lumens	2530	3429	4241	4940	6217	7806	14073	-	-
	Lumens per Watt	90	89	87	84	80	74	108	-	-
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	-	-

Lumen Maintenance

SA Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
25°C	98.1%	96.3%	95.5%	92.7%	>102,000
40°C	98.0%	96.0%	95.2%	92.2%	>102,000
50°C	97.9%	95.7%	94.9%	91.6%	>102,000

Note: * Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature.

VA Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
25°C	97.5%	96.3%	95.8%	93.9%	>78000
40°C	97.2%	95.9%	95.3%	93.2%	>78000
50°C	97.2%	95.8%	95.3%	93.1%	>78000

Note: * Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

CRI/CCT Multipliers

SA	CCT					
	2200	2700	3000	3500	4000	5000
CRI	Lumen Multiplier*					
70	0.860	0.923	0.943	-	1.000	0.987
80	-	-	0.873	-	0.949	-

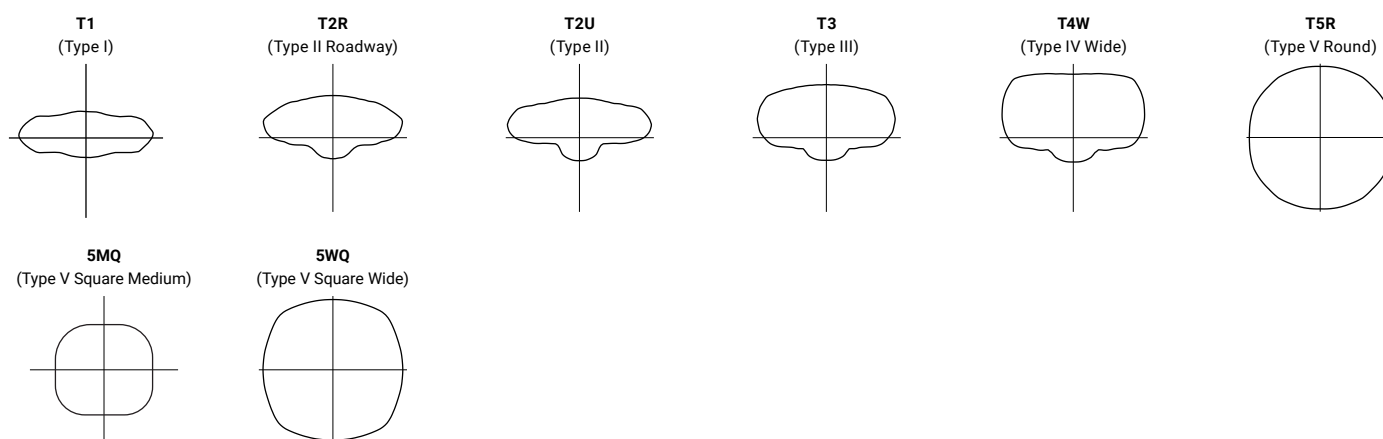
Note: * Estimates, refer to IES files for accuracy.

VA	CCT					
	2200	2700	3000	3500	4000	5000
CRI	Lumen Multiplier*					
70	-	0.839	0.946	0.946	1.000	1.031
80	-	-	0.790	-	-	-

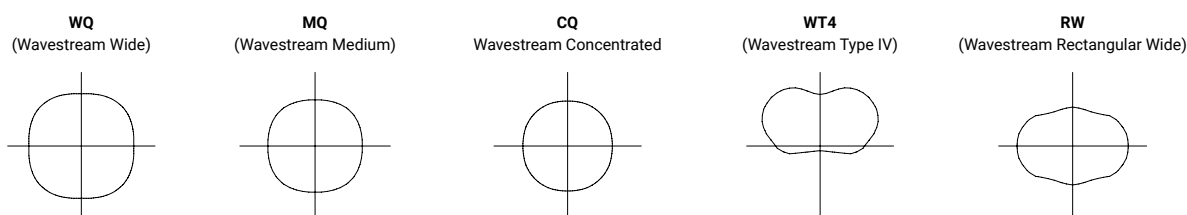
Note: * Estimates, refer to IES files for accuracy.

Optical Distributions

Discrete Light Squares (SA)



Wavestream Visual Comfort (VA)



PROJECT: _____

TYPE: _____

QUANTITY: _____



PN: 2W

APPLICATION	• WALL MOUNT • INDOOR OR OUTDOOR RATED
DIMENSION	• 16" (41CM)
ILLUMINATION	• DIRECT • LED 90CRI • INCANDESCENT MEDIUM BASE SOCKET • 753 - 1602 LUMENS
ELECTRICAL	• 120V, 277V, AND 347V • 10KA SURGE SUPPRESSION STANDARD
DIFFUSERS	• CLEAR OR FROSTED, ELONGATED, GLASS GLOBE • CLEAR, FLAT LENS
DRIVER	• WALL MOUNT (INTEGRAL) • REMOTE MOUNT (INDOOR OR OUTDOOR)
MOUNTING	• WALL, MOUNTED TO A 4"(10CM) J-BOX
CONSTRUCTION	• ALUMINUM
FINISHES	• AVAILABLE ANODIZED, BRUSHED, AND IN SEVERAL TMS POWDER COATED FINISHES • CUSTOM RAL FINISHES AVAILABLE
DIMMING	• 0 - 10V STANDARD DIMMING
WEIGHT	• 7.5 LBS MAXIMUM



DIRECT



CALVIN™ WALL

PROJECT: _____
 TYPE: _____
 QUANTITY: _____

2W

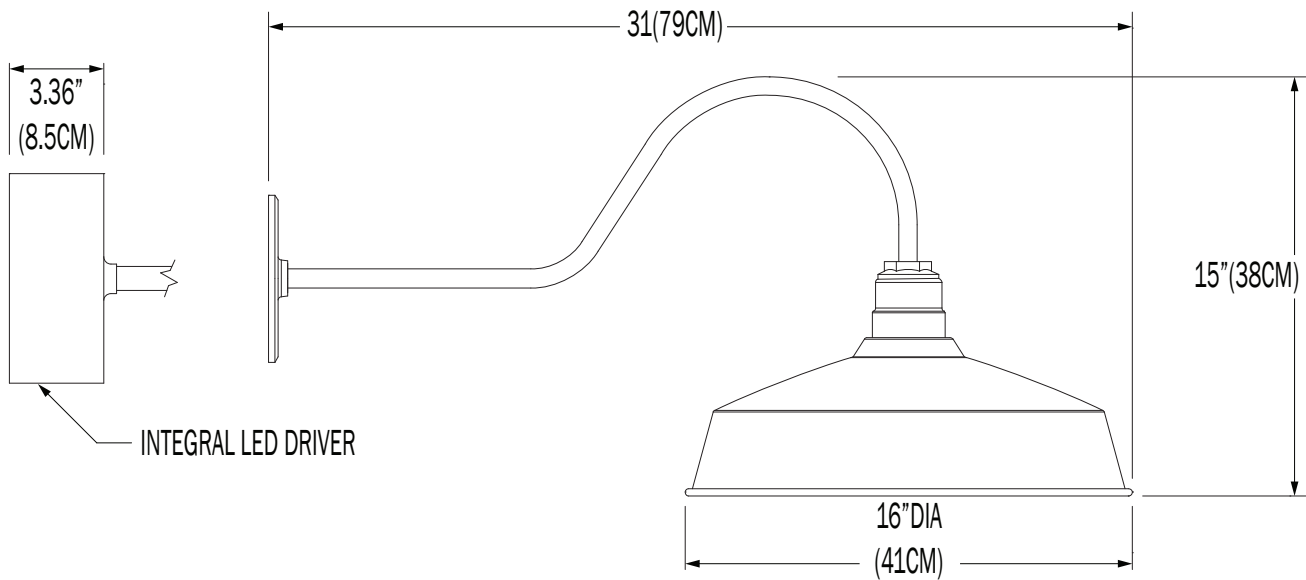
1 2 3 4 5 6 7 8 9 10

1.	I					O				
APPLICATION	INDOOR					OUTDOOR				
2.	ILLUMINATION									
	150IN		15LED		17LED			19LED		
	150W		15W		17W PAR38 E26 MED. BASE, 4000K, 60°			19W		
LED (W)	150W		15W		17W PAR38 E26 MED. BASE, 4000K, 60°			19W		
LUMENS	2158		1351		---			1803		
3.	----		30K		35K			40K		
LED CCT	NONE		3000K		3500K			4000K		
4.	120				277			347		
VOLTAGE	120V				277V			347V		
5.	----		WM		N1			N4		
DRIVER	NONE		WALL MOUNT (INTEGRAL)		REMOTE INDOOR MOUNT (NEMA 1)			REMOTE OUTDOOR MOUNT (NEMA 4)		
6.	F04	F05	F15	F16	F09	F31	F18	F06	F07	F08
FINISH	MATTE WHITE	GLOSS WHITE	MATTE BLACK	GLOSS BLACK	PEWTER	SILVER METALLIC	SATIN ALUMINUM	CLAY BROWN	ZEUS BROWN	MIDNIGHT BLUE
	F10	F11	F13	F14	F21	F22	F24	F25	F26	F28
	FIRE RED	CITRUS ORANGE	FOREST GREEN	SUNSHINE YELLOW	ARCH. BRONZE	HARVEST GOLD	MELTED PLATINUM	MELTED GOLD	MELTED COPPER	DARK CAMPAGNE
	F32	F33	F38	F39	F40	F41	F42	F43	F44	F45
	BRONZE METALLIC	PYRITE BRONZE	MEADOW GREEN	AQUA BLUE	BUBBLE PINK	ELECTRIC PURPLE	FAUX CHROME	FAUX GOLD	FAUX COPPER	COPPER METALLIC
	RAL	BR	AN							
CUSTOM (SPECIFY RAL)	BRUSHED ALUMINUM	ANODIZED								
7.	----					DIML				
DIMMING	NONE					LED DIMMING (0 - 10V, CURRENT - SINKING)				
8.	----		EM		EMC		EMR		EMCR	
EMERGENCY ¹	NONE		INTEGRAL		INTEGRAL COLD PACK		REMOTE		REMOTE COLD PACK	
9.	----		G1		G2			LNC		
GLOBE/LENS	NONE		CLEAR, ELONGATED GLOBE		FROSTED GLOBE			CLEAR LENS		
10.	----					W16				
WIRE GUARD	NONE					W16" WIRE GUARD				

1. 10W AT 90 MINUTES. EMERGENCY OPTION IS ONLY AVAILABLE IN 120 - 277V SYSTEMS
 NOTE: SOME OPTIONS MAY NOT BE COMPATIBLE WITH OTHERS. **ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.** CONTACT TMS LIGHTING FOR UPDATED SPECIFICATIONS.

2W

PROFILE



CUSTOM

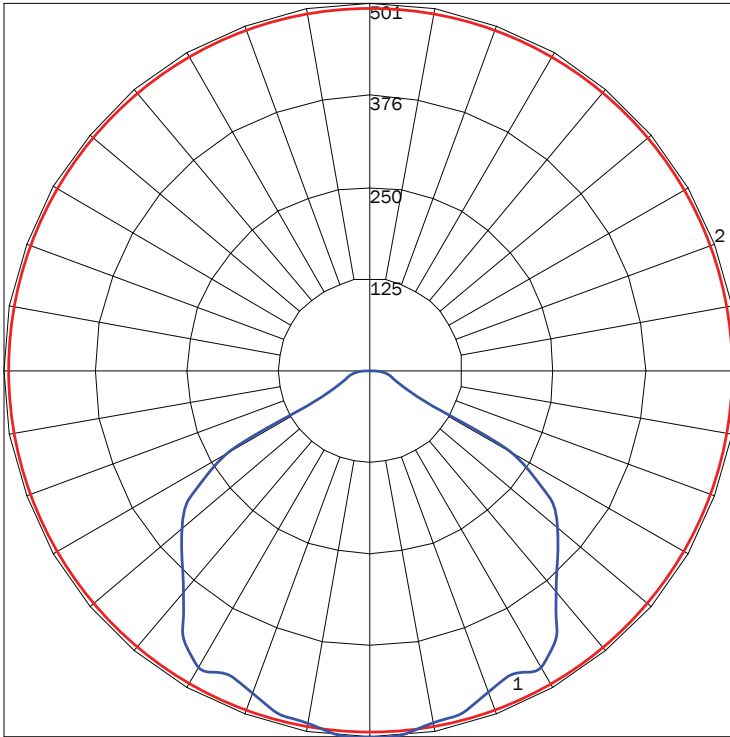
NOTE: THIS FIXTURE CAN BE CUSTOMIZE. DIMENSION, LAMP TYPES, ENCLOSURE, AND COLOR CAN BE MODIFIED TO SUIT YOUR LIGHTING AND ARCHITECTURAL REQUIREMENTS. CONTACT YOUR LOCAL REPRESENTATIVE FOR MORE DETAILS: <https://tmslighting.com/sales-agents.html>

DIRECT

PN	ILLUMINATION	LUMENS	WATTAGE
2W	15LED	1351	15
	19LED	1803	19
	150IN	2158	150

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2W 15LED 35K WM F05.IES

POLAR GRAPH

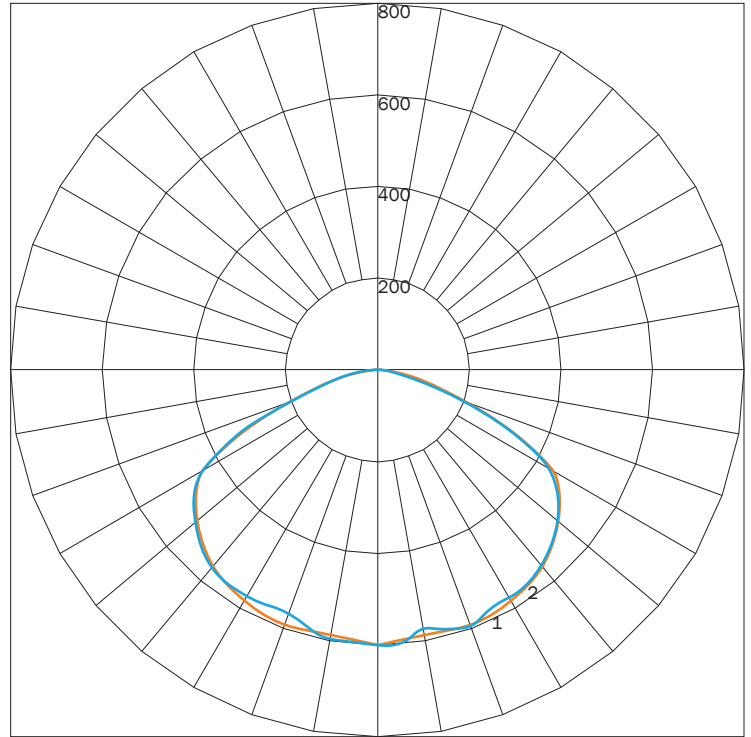


MAXIMUM CANDELA = 500.83 LOCATED AT HORIZONTAL ANGLE = 22.5, VERTICAL ANGLE = 5
1 - VERTICAL PLANE THROUGH HORIZONTAL ANGLES (22.5 - 202.5) (THROUGH MAX. CD.)
2 - HORIZONTAL CONE THROUGH VERTICAL ANGLE (90) (THROUGH MAX. CD.)

LUMINAIRE LUMENS 1351
TOTAL LUMINAIRE EFFICIENCY 95%
LUMINAIRE EFFICACY RATING 90
TOTAL LUMINAIRE WATTS 15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2W 150IN.IES

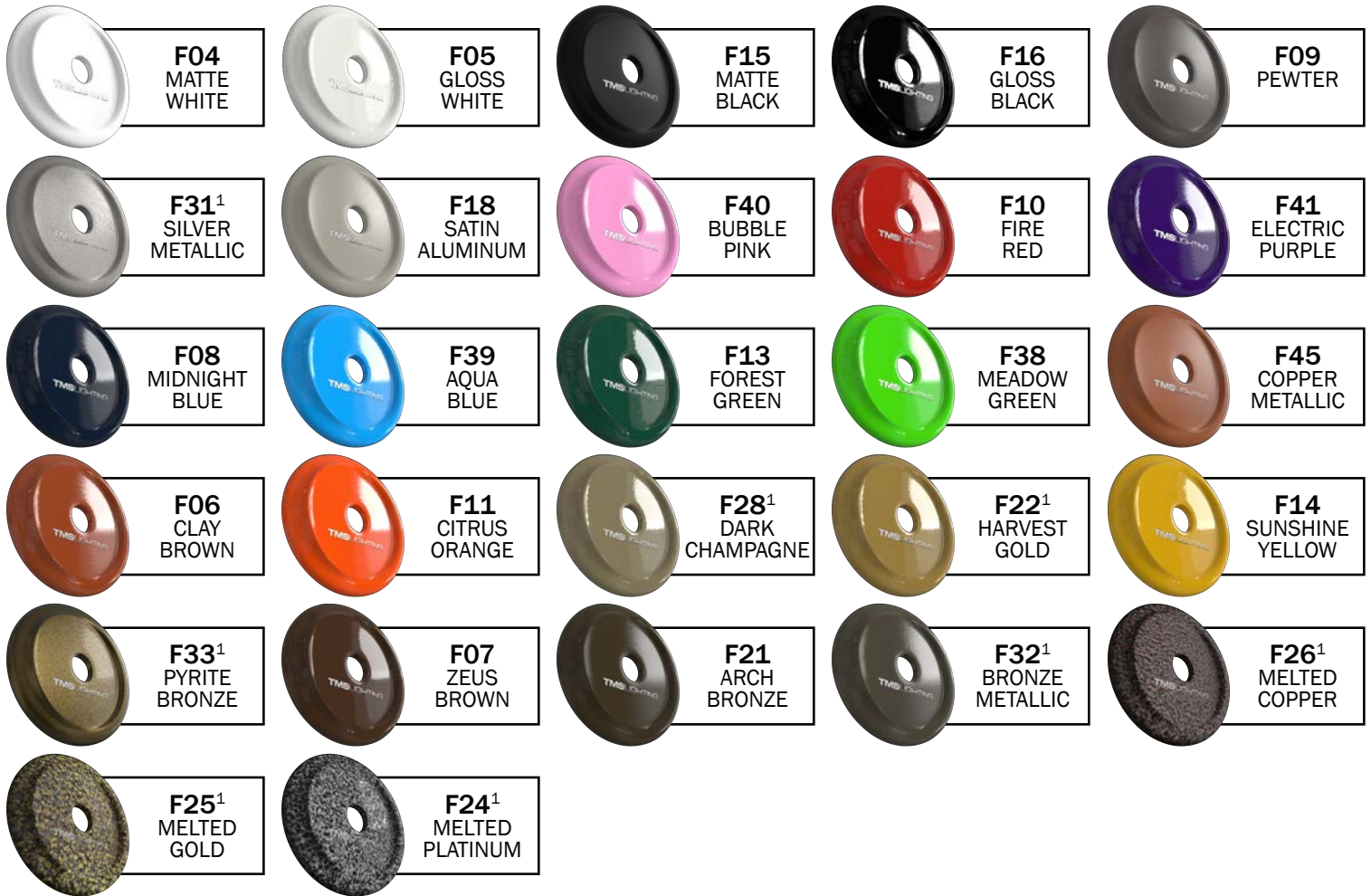
POLAR GRAPH



MAXIMUM CANDELA = 604.377 LOCATED AT HORIZONTAL ANGLE = 0, VERTICAL ANGLE = 5
1 - VERTICAL PLANE THROUGH HORIZONTAL ANGLES (90 - 270)
2 - VERTICAL PLANE THROUGH HORIZONTAL ANGLES (0 - 180)

LUMINAIRE LUMENS 2158
TOTAL LUMINAIRE EFFICIENCY 81%
LUMINAIRE EFFICACY RATING 14
TOTAL LUMINAIRE WATTS 150

FINISHES



PREMIUM FINISHES



PREMIUM MATERIALS



1: FINISHES IS APPLIED TO THE INTERIOR AND EXTERIOR OF THE FIXTURE.

2: MATERIALS ARE CONSISTENT (INTERIOR & EXTERIOR). STEMS AND CANOPIES WILL BE F16 GLOSS BLACK.

NOTE: ALL FINISHES NOT MARKED WITH NOTATION (1) ARE APPLIED TO THE EXTERIOR ONLY. THE INTERIOR WILL BE F05 GLOSS WHITE.

MATTE FINISHES AVAILABLE. CONSULT FACTORY.

FINISHES ARE SUBJECT TO AVAILABILITY AND MAY NOT BE APPLICABLE TO ALL FIXTURES OR FOR QUICKSHIP.

DISPLAYED FINISHES DIFFER BETWEEN SCREENS AS WELL AS PRINTERS AND MAY NOT ACCURATELY DEPICT COLOR.

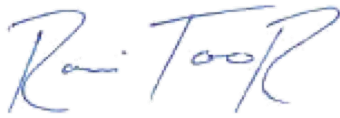
July 25, 2025

Subject: Calvin Wall_Dark Sky Compliant

To whom it may concern,

The Calvin Wall light fixture: model #2W-O-15LED-30K-120-WM-FINISH TBD-DIML
(<https://tmslighting.com/calvin-wall.html>) is a full cut off downlight that is Dark Sky compliant.

Regards,

A handwritten signature in blue ink that reads "Ravi Toor". The signature is stylized with a large, flowing "R" and "T".

Ravi Toor

VP Operations