

Date: _____ Customer: _____
 Project: _____
 Type: _____ Qty: _____



Mistella™ LED



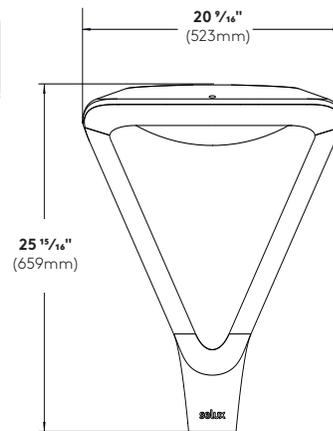
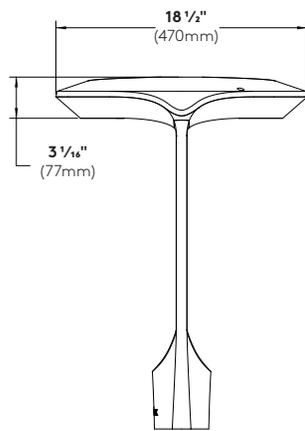
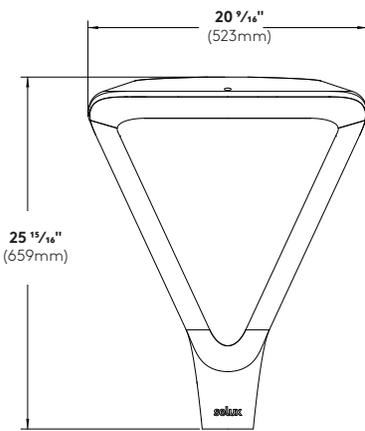
Order Code: MST - - - - -

Pole Order Code: _____ Series _____ Height _____ Finish _____ Options _____ * See pages 4 and 6

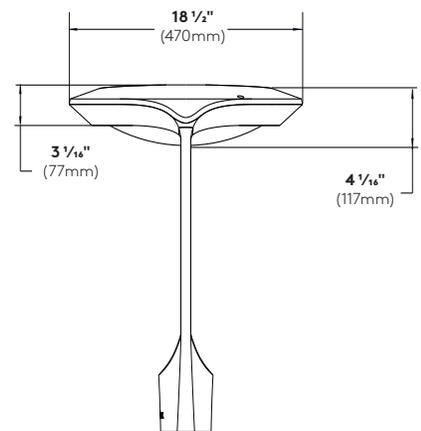
MST	Series	MST Mistella™ LED											
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III (Wide)	R4 Type IV	R5R Type V (Round)	R5S Type V (Square)	R5Q Type V (Rectangular)	DG Diffuse Flat Glass	DBI¹ Diffuse Sagged Bowl	¹ DBI option not Dark Sky	
	Mounting	1 Single	2 Double	W Wall									
	Comfort Light Engine (DBI & DG) OR Technical Light Engine (R1-R5Q)	MP350 nominal 33W/2965lm	MP530 nominal 48W/4443lm	MP700 nominal 61W/5613lm	MP900 nominal 79W/6951lm	MP105 nominal 92W/7796lm	MP140 nominal 129W/9544lm					*Based on 3000K CCT and DG optic	
	CCT	27³ 2700K	30³ 3000K	35 3500K	40 4000K	50 5000K						³ 2700K and 3000K IDA Approved *Consult factory for lead time	
	Power Supply Wire Length	10 10'	12 12'	14 14'	16 16'	18 18'	20 20'	XX⁴ XX'		⁴ Add length of arm and height of pole to determine power supply wire length			
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color						
	Voltage	UNV 120V-277V	120⁵ 120V	240⁵ 240V	277⁵ 277V	347⁶ 347V	480⁶ 480V						⁵ Specify for HL option ⁶ Not available with 5G140 or MP140 light engines
	Options	DM⁸ Dimming (0-10V)	HS⁷ House Side Shield (180°)	HL30^{8,9} Hi-Lo Switching Low Output 30%	HL50^{8,9} Hi-Lo Switching Low Output 50%	TLR⁸ Twist Lock Receptacle 7-Pin with Shorting Cap	TLRP⁸ Twist Lock Receptacle 3-Pin with Photocell	TLRLL⁸ Twist Lock Receptacle 7-Pin with Lutron Limelight Module			⁷ Type I, II, III, and IV only ⁸ DM, HLXX, TLR, TLRLL, or MS only. Cannot be combined. TLRP, or MS only. Cannot be combined. ⁹ 120V, 240V or 277V only ¹⁰ Cannot be combined with DG or DBI		
		GL¹⁰ Clear Flat Glass Lens	ROL Rotate optics left	ROR Rotate optics right	MS⁸ Pole Motion Sensor with optional photocell See page 6 for order code								



Gen5/DG Optic



DB1 Optic



Specifications

Luminaire Cover - Cast aluminum cover made from low copper aluminum.

Gasketing - Continuous gasket provides weatherproofing, dust, and insect control at all fixture connections.

LED Array - LEDs mounted to PC boards and attached to aluminum heat sink for maximum LED performance and life. 3-step MacAdams ellipse for 2700K, 3000K 3500K, 4000K and 5000K. CRI minimum 80. Complete light engine can be removed easily for future upgrade.

LED Optics - Technical Optics (R1, R2, R3, R3W, R4, R5R, R5S, and R5Q) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distribution types I, II, III & IV with or without clear glass option. DG and DB1 optics use a mid-power LED board. DG consists of recessed diffuse puck with flat clear glass. DB1 uses sagged diffuse polycarbonate bowl.

LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside the head.

Arm/Arms - Cast aluminum arms support upper housing and optic assembly with built in pole fitter.

Pole Fitter - Self-leveling, die cast low-copper aluminum, fitter base secured to pole with stainless steel allen head set screws. Fitter for 3.5" (90mm) O.D. poles or poles with 3.5" tenon.

Surge Protector - Designed to protect luminaire from electrical surge (20kA).

Power Supply Wire - Pre-installed at factory. Please specify power supply wire length in accordance to height of the pole. Add two (2) feet to power supply wire length for single mount and four (4) feet for double arm mount.

Hi-Lo Switching Option - Please see page 6 for details.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Mistella™ LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

Luminaire suitable for ambient temperatures of 45°C. Minimum operating temperature of luminaire at -40°C (-40°F).

NRTL Listed (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

For Buy American compliance on poles, please consult the factory.

Mounting

Single (1)

Cast aluminum fitter base secured to pole with two stainless steel Allen head set screws.

EPA = 1.2ft² (0.11m²)

Weight = 18lbs. (8.2kg)

Double Arm Mount (2)

Structural aluminum double luminaire mounting arm secured to pole with six stainless steel Allen head set screws.

EPA = 3.4ft² (0.32m²)

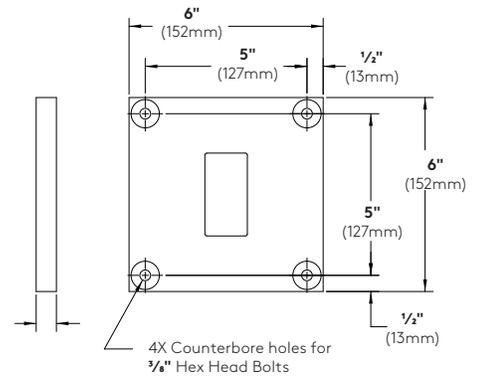
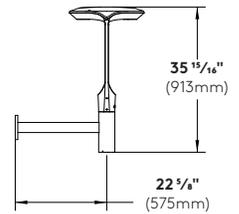
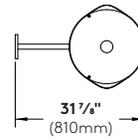
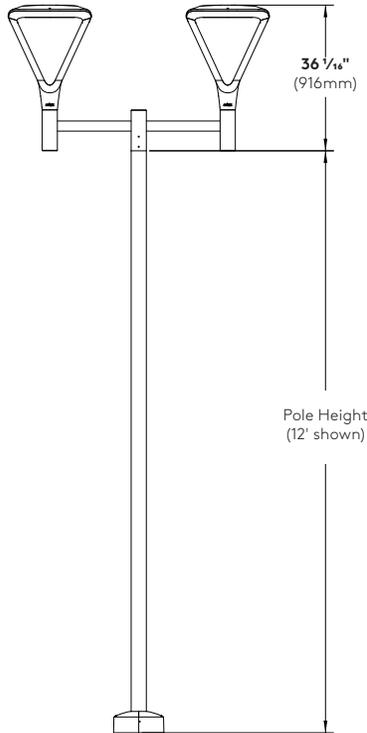
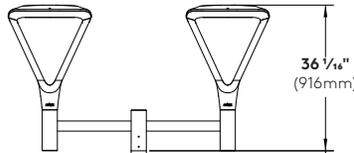
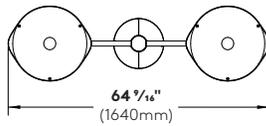
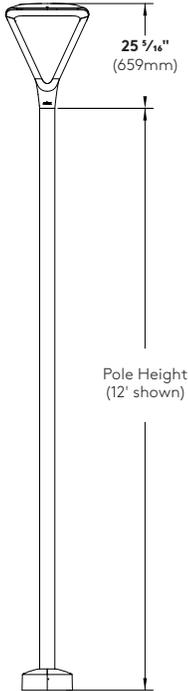
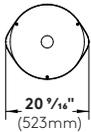
Weight = 49lbs. (22.2kg)

Wall (W)

Structural aluminum single luminaire mounting arm. Secured to wall with four 3/8" diameter threaded fasteners (by others).

EPA = 1.6ft² (0.15m²)

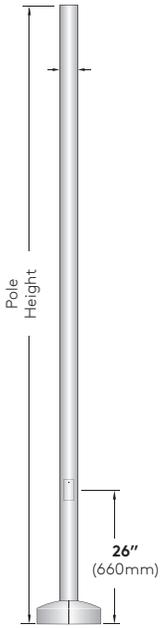
Weight = 26lbs. (11.8kg)



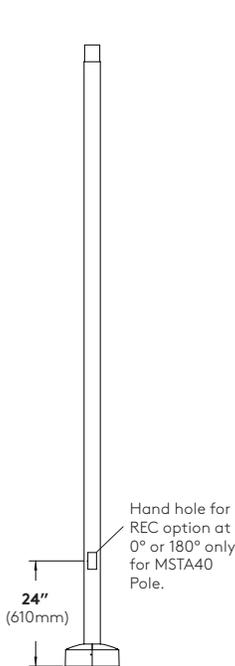
Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

A35
Round Straight
Aluminum Pole



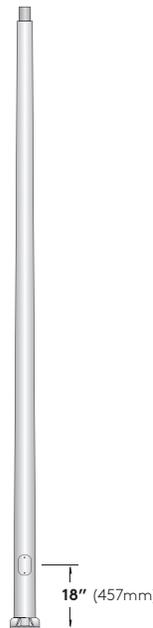
MSTA40
Mistella™ Round Straight
Aluminum Decorative Pole



AT535
Tapered
Aluminum Pole



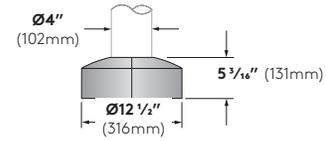
AT64
Tapered
Aluminum Pole



Optional Base Covers for Poles

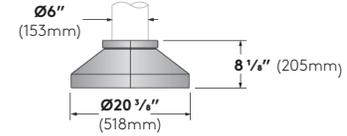
MSTBC13 Optional Base Cover (MSTA40)

Die cast aluminum, two-piece field installable base cover.



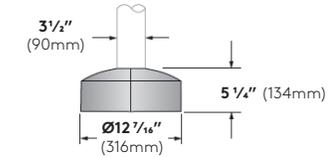
BC9 Optional Base Cover (AT64)

Die cast aluminum, two-piece field installable base cover.



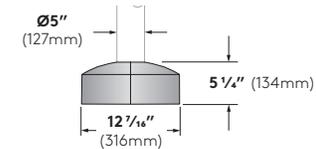
BC5 Standard Base Cover (AT35)

Die cast aluminum, two-piece field installable base cover.



BC3 Optional Base Cover (AT535)

Die cast aluminum, two-piece field installable base cover.



Pole Data Chart

Pole Series	Bolt Circle	EPA Information (ft ²)											Height	Finish	Options
		85 mph	90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	9.9	8.7	6.8	5.4	4.3	3.5	2.9	2.5	2.1	1.8	1.6	8 8ft	WH White	BC5 Two-piece cast aluminum base cover (for Mistella™ AT535 pole only) BC5 Two-piece cast aluminum base cover (for Mistella™ A35 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	10.6	9.3	7.3	5.8	4.7	3.9	3.3	2.9	2.5	1.6	1.4			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	7.4	6.4	4.9	3.8	2.9	2.2	1.8	1.5	1.2	-	-	10 10ft	BK Black	BC9 Decorative cast aluminum base cover (for Mistella™ AT64 pole only) MSTBC13 Decorative Cast aluminum base cover (for Mistella™ MSTA40 pole only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	8.2	7.2	5.5	4.2	3.3	2.8	2.3	1.9	1.6	-	-			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	5.6	4.8	3.5	2.6	1.8	1.3	-	-	-	-	-	12 12ft	BL Semi-Matte Black	T35 Supplied with 3/2" diameter tenon, 4/2" high (for Mistella™ MSTA40 and AT64 poles only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	6.4	5.5	4.1	3.1	2.3	1.8	1.4	-	-	-	-			
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	15.2	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8	14 14ft	BZ Bronze	REC GFCI Receptacle with weather-proof cover (120V only) REC2GFCI Receptacle with padlockable in-use cover (120V only)
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	22.9	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5			
A35 3 - 1/2" Round Straight Aluminum Pole	7 - 3/4"	4.2	3.5	2.4	1.6	-	-	-	-	-	-	-	16 16ft	SV Silver	REC3USB and Duplex Receptacle with weather-proof cover (120V only) REC4USB and Duplex Receptacle with weather-proof padlockable in-use cover (120V only)
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	5.0	4.2	3.0	2.1	1.4	-	-	-	-	-	-			
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.5	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5	18 18ft	SP Specify Premium Color	MS Motion Sensor with Optional Photocell (see page 6) * Weatherproof cover intended for portable tools or other portable equipment connected to the outlet only when attended. For other requirements please consult factory.
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	16.3	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.5	2.9			
MSTA40 4" Signature Straight Aluminum Pole	7 - 1/2"	2.3	1.7	-	-	-	-	-	-	-	-	-	18 18ft		
AT535 5" to 3 - 1/2" Round Tapered Aluminum Pole	8 - 5/8"	10.7	9.2	7.0	5.4	4.2	3.4	2.8	2.3	2.0	1.7	1.4			
AT64 6" to 4" Round Tapered Aluminum Pole	9 - 1/2"	13.6	11.8	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2			

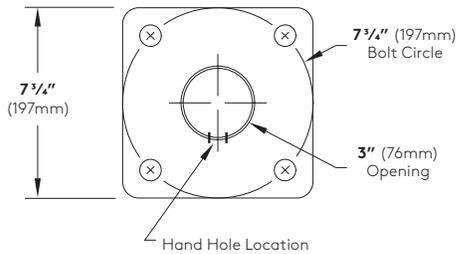
¹ Maximum Basic Wind Speed certified in accordance with AASHTO 2013 (LTS-6)

² Values are nominal 3-s gust wind speeds in accordance with ASCE 7-05 for Allowable Stress Design (ASD) analysis

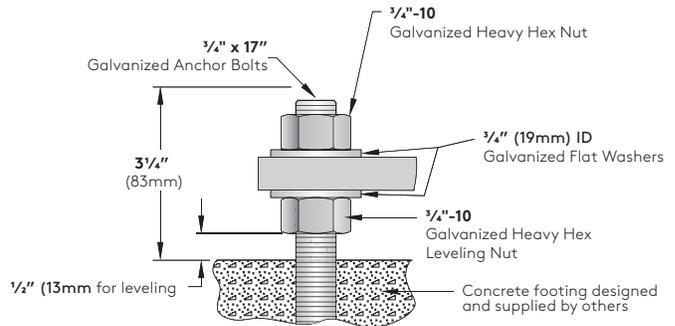
Bolt Circle for A35

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.



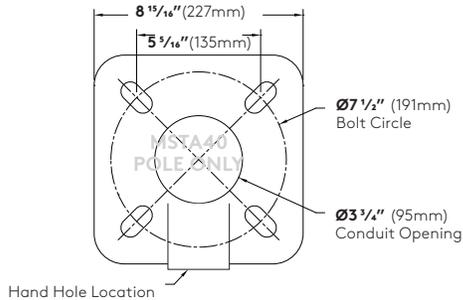
Anchor Bolt Detail for A35



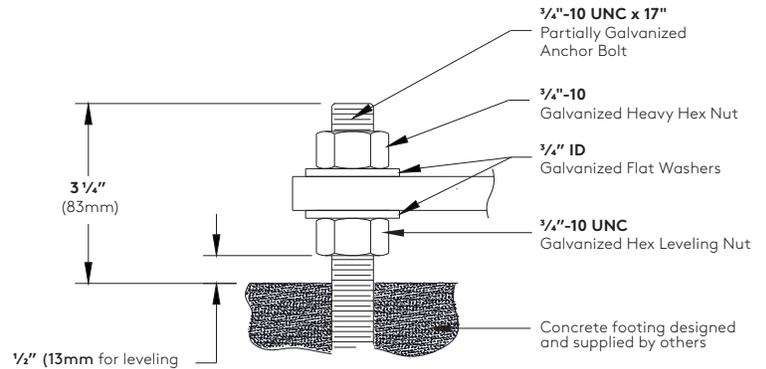
Bolt Circle for MSTA40

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.



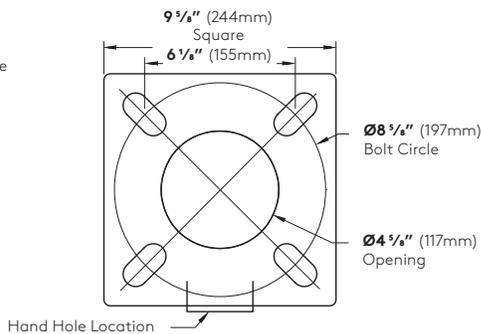
Anchor Bolt Detail for MSTA40



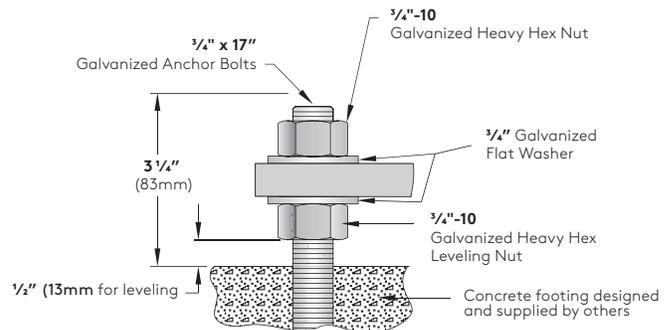
Bolt Circle for AT535

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.



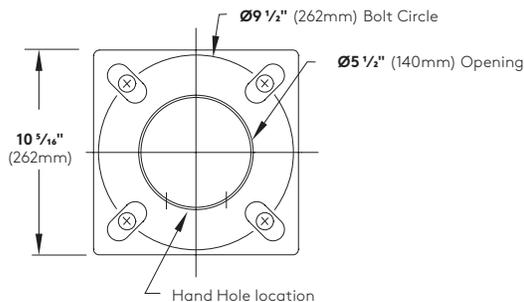
Anchor Bolt Detail for AT535



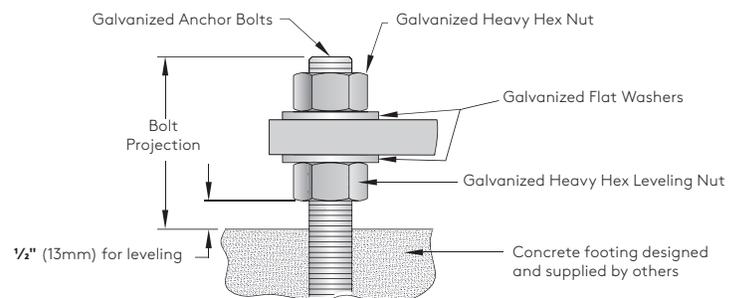
Bolt Circle for AT64

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

Note: Adequate drainage must be provided in concrete foundation.



Anchor Bolt Detail for AT64



Round Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	00 0° Clockwise from Hand Hole	D0 (Off)	Y Yes	UNV (100-347VAC single phase or 208/230/480VAC phase-to-phase)
	09 90° Clockwise from Hand Hole	D1 (1V=10%)		
	18 180° Clockwise from Hand Hole	D3 (3V=30%)	N No	
	27 270° Clockwise from Hand Hole	D5 (5V=50%)		

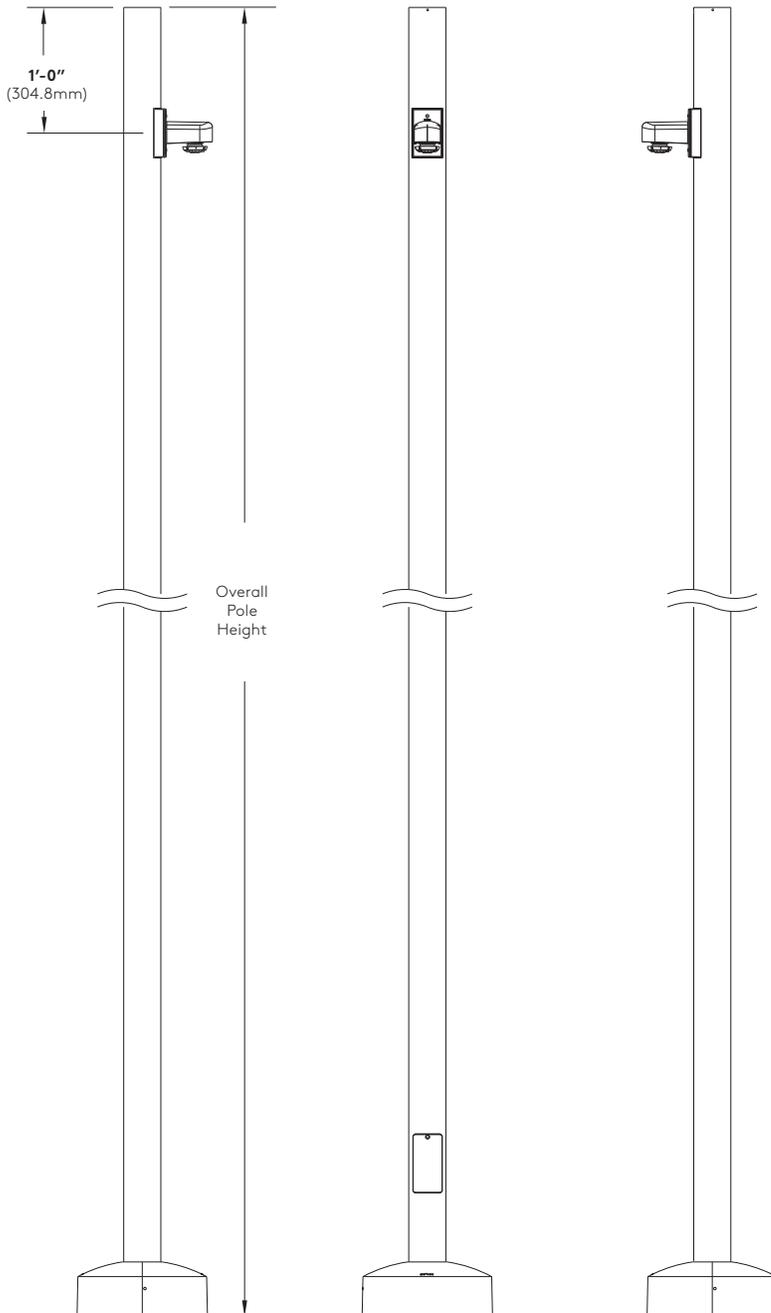
Factory Defaults:

Delay to Dim: 5 minutes

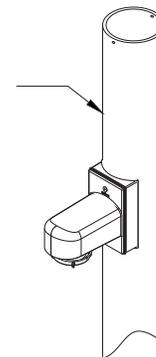
Delay to Off: 1 hour

Sensitivity: Max

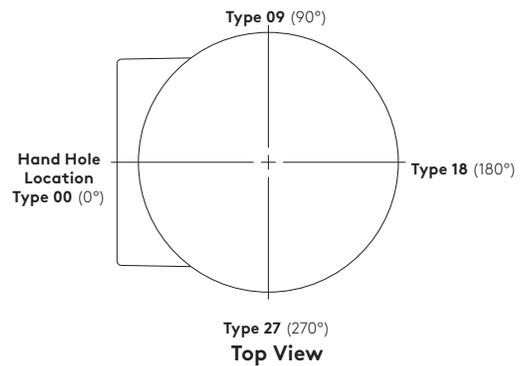
Custom Programming: Consult Factory



General Pole Drawing For Example Only



Sensor angular orientation from hand hole 0° 90° increments clockwise around pole (Type 00, 09, 18, 27)



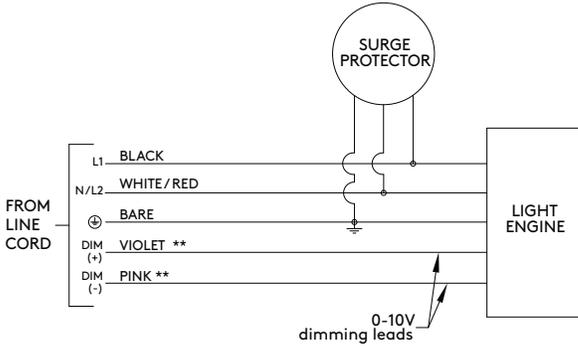
Motion Sensor Features

- Customize programming using smartphone application (Refer to the FSP-321 at www.wattstopper.com)
 - 5 Year Warranty
 - 100% Digital PIR Detection, excellent RF Immunity
 - 270° coverage pattern
 - IP66 Rated for outdoor applications
 - Made for LED light source
 - Adjustable time delays, max/min dim levels, and ramp rates
 - Suitable for Title 24 applications
- (For coverage details refer to wattstopper FSP-321 spec sheet at www.wattstopper.com)

Wiring Diagrams

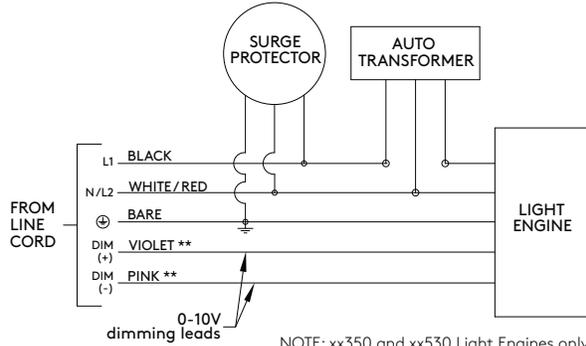
Standard Wiring (120V-480V without Step-down Transformer)

**When dimming is not required cap dimming wires.



Standard Wiring (347/480V with Step-down Transformer)

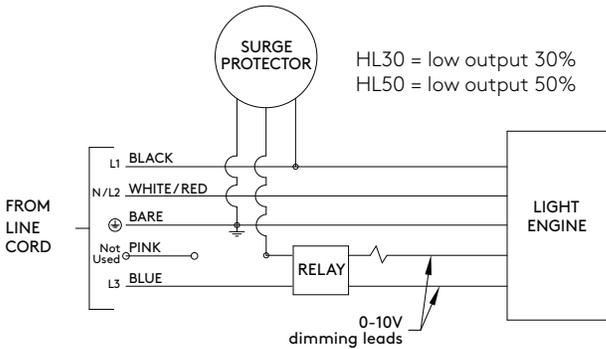
**When dimming is not required cap dimming wires.



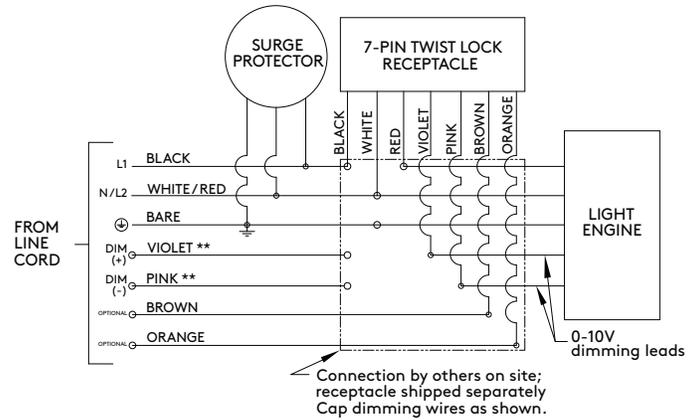
NOTE: xx350 and xx530 Light Engines only.

Hi-Lo Switching Option (HL) Wiring HL30 & HL50 Only

120V, 240V, 277V. When blue is energized, light output will be at "Lo" level. Specify low-level by using one of the 2 levels listed below (i.e. HL30 or HL50). For other combinations, consult factory

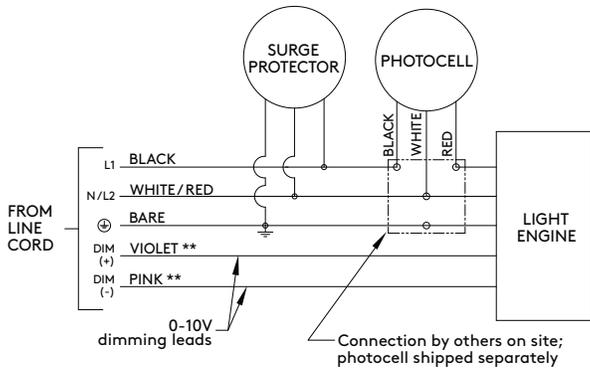


7-Pin Twist Lock Receptacle Option (TLR) Wiring

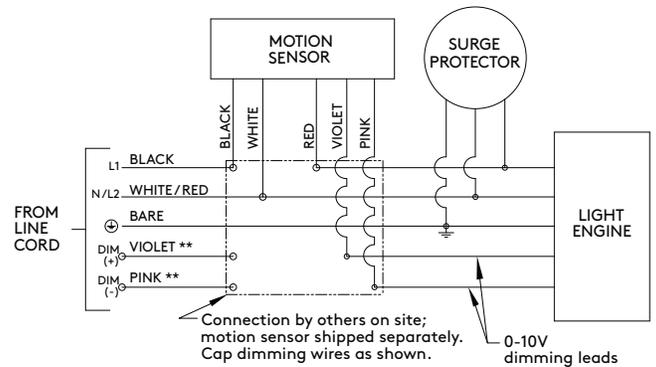


Photocell Option (TLRP) Wiring

**When dimming is not required cap dimming wires.



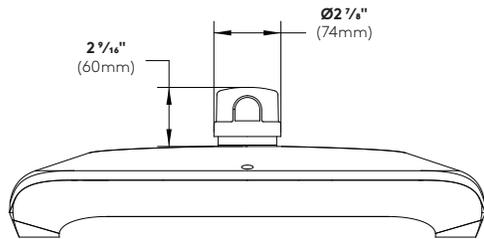
Motion Sensor Option (MS) Wiring (120-480V)



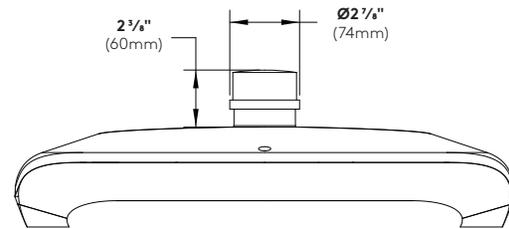
Wire Designation Table		
Source Voltage (VAC)	Wire Color	Wire Designation
120V, 277V, or 347V	Black	L1
	White	Neutral
208V, 240V, or 480V	Black	L1
	Red	L2
UNV (120V-277V)	Black	L1
	White	Neutral (120/277V) or L2 (208/240V)

Optional Accessories

(TLRP) Twist Lock Receptacle with Photocell

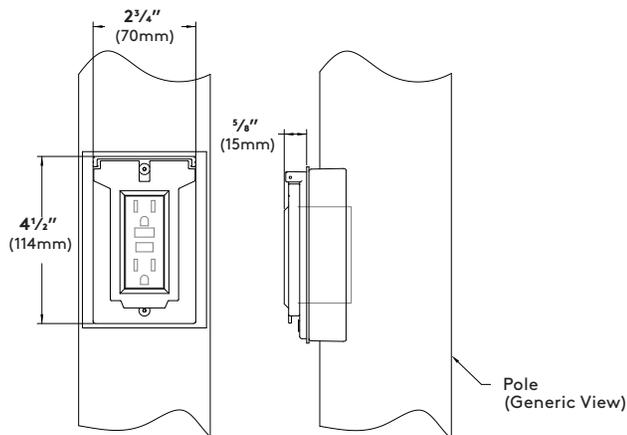


(TLR) 7-Pin Twist Lock Receptacle with Shorting Cap



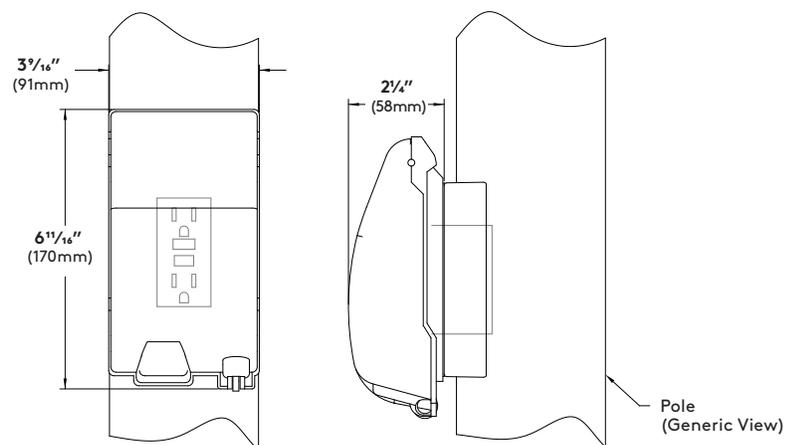
TLRP = TE Connectivity BF Series (BF-PV) 3-Pin

REC and REC3



Cover shown in the closed position

REC2 and REC4



Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

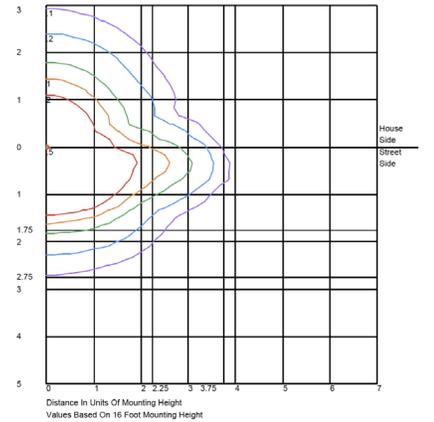
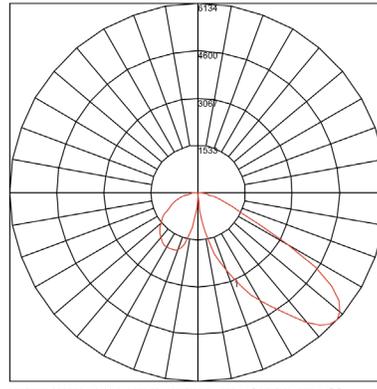
USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

Photometry

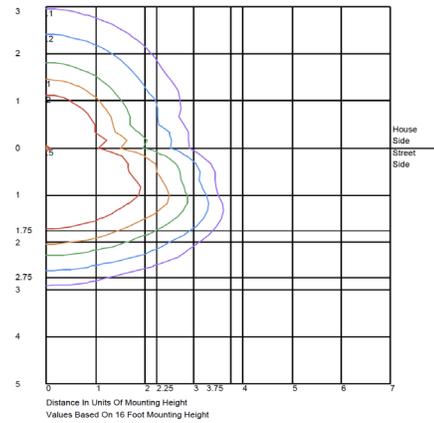
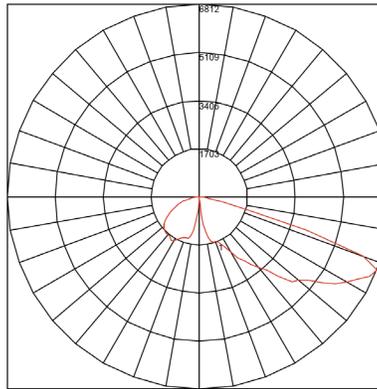
R1 Optics / 121W LED / 3000K CCT

Catalog #: MST-R1-5G140-30-SV-UNV.
 Delivered Lumens: 11636lm
 Input Watts: 121W
 Efficacy: 96lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 6134 at 48° from vertical.
 IES classification: Type II
 Mounting Height: 16' (4.9m)
 BUG Rating: B2-U0-G2
 Power Factor: 0.977
 Total Harmonic Distortion: 10.5%



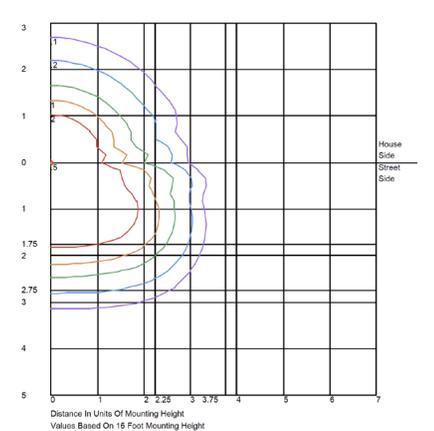
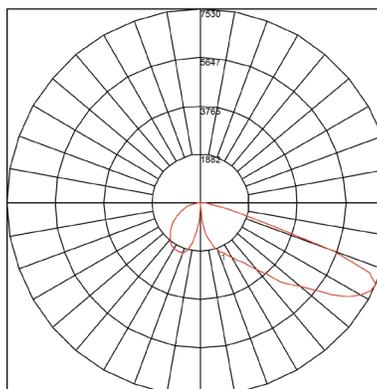
R2 Optics / 121W LED / 3000K CCT

Catalog #: MST-R2-5G140-30-SV-UNV
 Delivered Lumens: 11860lm
 Input Watts: 121W
 Efficacy: 98lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 6812 at 67.5° from vertical.
 IES classification: Type III
 Mounting Height: 16' (4.9m)
 BUG Rating: B2-U0-G2
 Power Factor: 0.999
 Total Harmonic Distortion: 10.5%



R3 Optics / 121W LED / 3000K CCT

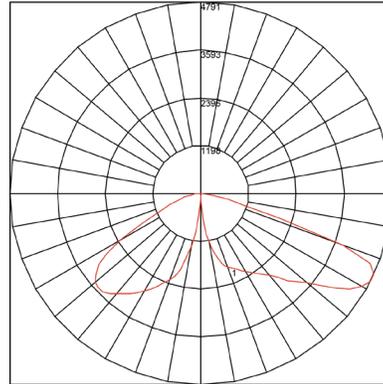
Catalog #: MST-R3-5G140-30-SV-UNV
 Delivered Lumens: 11798lm
 Input Watts: 121W
 Efficacy: 98lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 7530 at 65° from vertical.
 IES classification: Type III
 Mounting Height: 16' (4.9m)
 BUG Rating: B2-U0-G2
 Power Factor: 0.990
 Total Harmonic Distortion: 10.5%



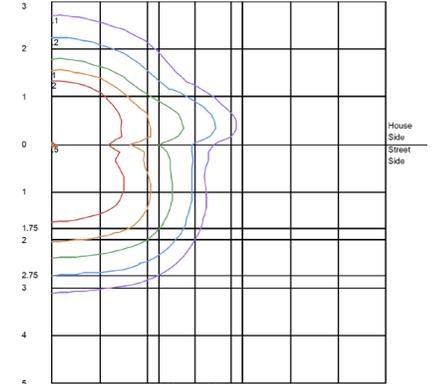
Photometry

R3W Optics / 121W LED / 3000K CCT

Catalog #: MST-R3W-5G140-30-SV-UNV
 Delivered Lumens: 11919lm
 Input Watts: 121W
 Efficacy: 99lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 4791 at 62.5° from vertical.
 IES classification: Type VS
 Mounting Height: 16' (4.9m)
 BUG Rating: B3-U0-G1
 Power Factor: 0.990



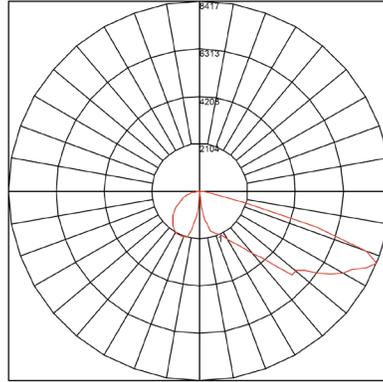
Maximum Candela = 4791.302 Located At Horizontal Angle = 45, Vertical Angle = 62.5
 # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)



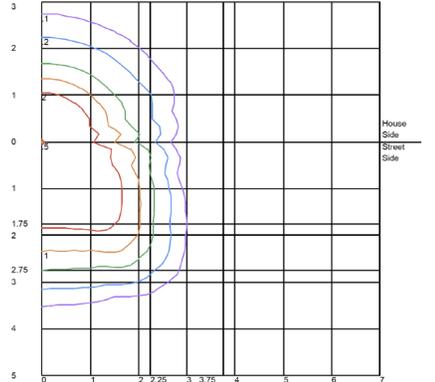
Distance In Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R4 Optics / 121W LED / 3000K CCT

Catalog #: MST-R4-1-5G140-30-SV-UNV
 Delivered Lumens: 11829lm
 Input Watts: 121W
 Efficacy: 98lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 8417 at 67.5° from vertical.
 IES classification: Type III
 Mounting Height: 16' (4.9m)
 BUG Rating: B2-U0-G2
 Power Factor: 0.990
 Total Harmonic Distortion: 10.5%



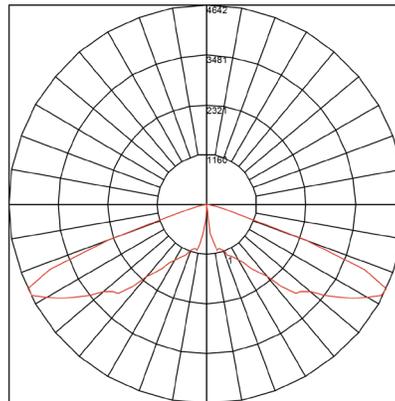
Maximum Candela = 8416.783 Located At Horizontal Angle = 35, Vertical Angle = 67.5
 # 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)



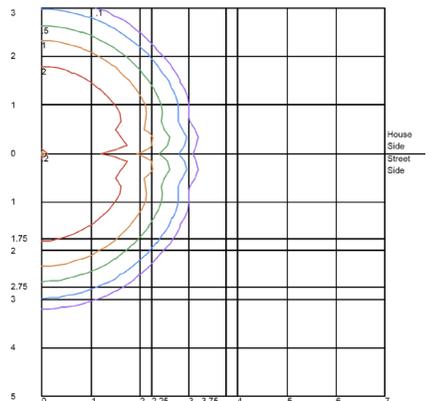
Distance In Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R5R Optics / 121W LED / 3000K CCT

Catalog #: MST-R5R-5G140-30-SV-UNV
 Delivered Lumens: 12177lm
 Input Watts: 121W
 Efficacy: 101lm/W
 CCT: 3000K
 CRI (Ra): >80
 Maximum candela of 4642 at 65° from vertical.
 IES classification: Type V
 Mounting Height: 16' (4.9m)
 BUG Rating: B3-U0-G1
 Power Factor: 0.990
 Total Harmonic Distortion: 10.5%



Maximum Candela = 4641.535 Located At Horizontal Angle = 60, Vertical Angle = 65
 # 1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)



Distance In Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

Photometry

R5S Optics / 121W LED / 3000K CCT

Catalog #: MST-R5S-5G140-30-SV-UNV

Delivered Lumens: 12180lm

Input Watts: 121W

Efficacy: 101lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 5163 at 67.5° from vertical.

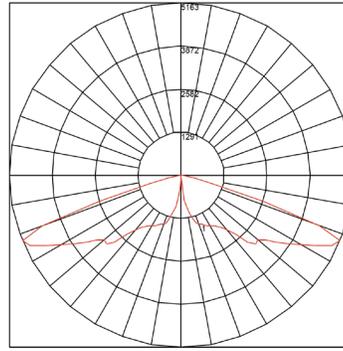
IES classification: Type VS

Mounting Height: 16' (4.9m)

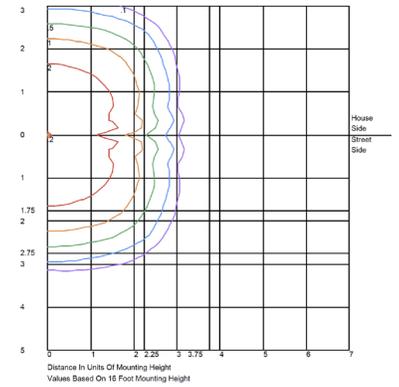
BUG Rating: B3-U0-G2

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Maximum Candela = 5163.234 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)



Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

R5Q Optics / 121W LED / 3000K CCT

Catalog #: MST-R5Q-5G140-30-SV-UNV

Delivered Lumens: 11801lm

Input Watts: 121W

Efficacy: 98lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3722 at 60° from vertical.

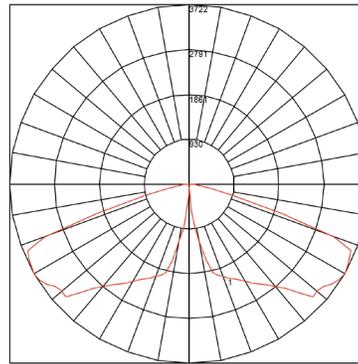
IES classification: Type VS

Mounting Height: 16' (4.9m)

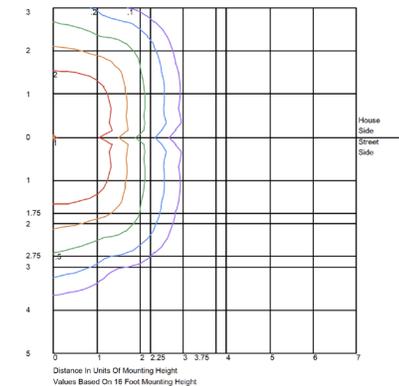
BUG Rating: B3-U0-G3

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Maximum Candela = 3721.924 Located At Horizontal Angle = 35, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)



Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

DG Optics / 129W LED / 3000K CCT

Catalog #: MST-DG-X-MP140-30K-SV-UNV

Delivered Lumens: 9544lm

Input Watts: 129W

Efficacy: 74lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 3516 at 17.5° from vertical.

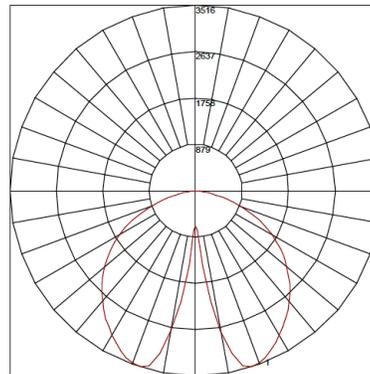
IES classification: Type VS

Mounting Height: 16' (4.9m)

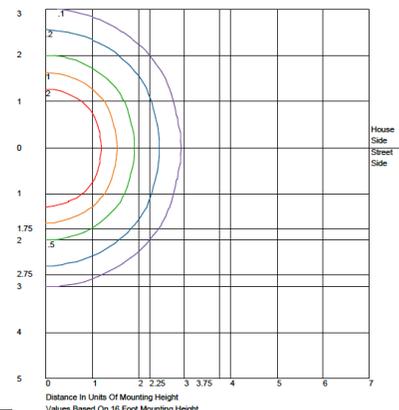
BUG Rating: B3-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Maximum Candela = 3515.9 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)



Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

DB1 Optics / 129W LED / 3000K CCT

Catalog #: MST-DB1-X-MP140-30-SV-UNV

Delivered Lumens: 8408lm

Input Watts: 129W

Efficacy: 65lm/W

CCT: 3000K

CRI (Ra): >80

Maximum candela of 2509 at 22.5° from vertical.

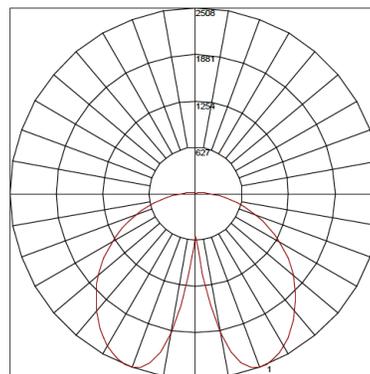
IES classification: Type VS

Mounting Height: 16' (4.9m)

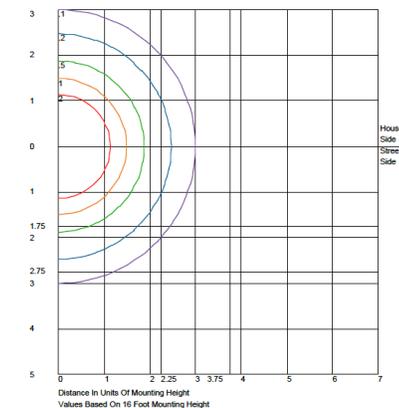
BUG Rating: B2-U0-G1

Power Factor: 0.990

Total Harmonic Distortion: 10.5%



Maximum Candela = 2508.404 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)



Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

Mistella™ CCT Multiplier	
2700K	0.926
3000K	1.000
3500K	1.000
4000K	1.063
5000K	1.070

5Gxxx TM-21 Matrix

TM-21 Lifetime Calculation					
Light Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)			Reported L ₇₀
		25K	50K	70K	
5G350	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G530	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G700	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G900	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
5G105	25°C	99.8%	99.8%	99.8%	L ₇₀ (12K) > 70,000 hours
	40°C	99.1%	98.5%	98.0%	L ₇₀ (12K) > 73,000 hours
5G140	25°C	99.5%	99.2%	99.0%	L ₇₀ (12K) > 73,000 hours
	40°C	98.7%	97.7%	96.8%	L ₇₀ (12K) > 73,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-30-XX-BL-UNV

MPxxx TM-21 Matrix

TM-21 Lifetime Calculation						
Ligh Engine	Ambient Temp (°C)	Lumen Maintenance (% at hours)				Reported L ₇₀
		25K	50K	75K	90K	
MP350	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	96.4%	93.2%	90.0%	88.2%	L ₇₀ (15K) > 90,000 hours
MP530	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.8%	91.9%	88.2%	86.1%	L ₇₀ (15K) > 90,000 hours
MP700	25°C	97.5%	95.0%	92.5%	91.0%	L ₇₀ (15K) > 90,000 hours
	40°C	95.1%	90.7%	86.5%	84.0%	L ₇₀ (15K) > 90,000 hours
MP900	25°C	96.9%	94.0%	91.3%	89.7%	L ₇₀ (15K) > 90,000 hours
	40°C	93.7%	88.3%	83.2%	80.3%	L ₇₀ (15K) > 90,000 hours
MP105	25°C	96.4%	93.0%	89.8%	88.0%	L ₇₀ (15K) > 90,000 hours
	40°C	92.8%	85.6%	79.0%	73.2%	L ₇₀ (15K) > 90,000 hours
MP140	25°C	95.1%	90.6%	86.3%	83.8%	L ₇₀ (15K) > 90,000 hours
	40°C	91.8%	83.7%	76.4%	72.3%	L ₇₀ (15K) > 90,000 hours

1. Calculated in accordance with IESNA TM-21-11, projected values are within 6 times (6x) the IESNA LM-80-08 test duration
2. Thermal measurements based on order code: MST-DB1-X-MPxxx-30-XX-BL-UNV