

FEATURES

- Reliable, uniform, illumination
- Types 1, 2, 3, 4W, 5Q, and 5W distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge protection: 10k in parallel, 20k in series
- Upgrade Kits
- Utilizes Strike Optics for precise distributions, maximum fixture spacing and minimal backlight.



CONTROL TECHNOLOGY

LIGHT GRID⁺

SPECIFICATIONS

CONSTRUCTION

- All housing components die cast aluminum 360 alloy, sealed with continuous silicone rubber gaskets
- Standard configurations do not require a flat lens, optional lenses are tempered glass
- All internal and external hardware is stainless steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- Optical bezel finish matches the luminaire housing

LED/OPTICS

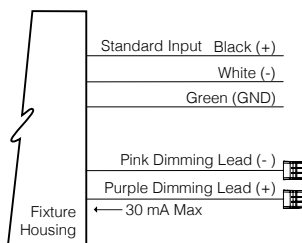
- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate
- Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features individual LED optical control based on high performance TIR optical designs
- Back light control is available on Standard and Clear Lens options except any Type 5 distribution. Back light control is not available for any distribution using a Diffused Lens

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control

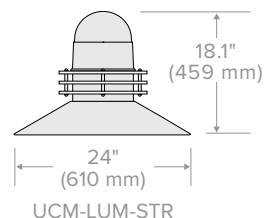
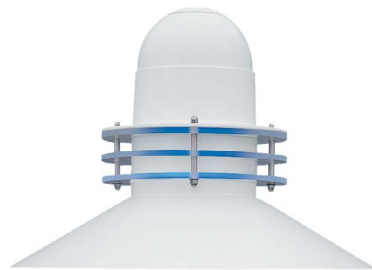


- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

CONTROLS

- Egress adapter(s) shall slip over a 4"/100mm DIA. pole with the luminaire or arm slipping over the adapter to add a total of 4.5"/114mm to the overall height. Adapter(s) shall be prewired, independently rotatable 359°, and have a cast access cover with an integral lens and lanyard
- Photocell adapter shall include an internal twist lock receptacle. Photocell by others

UNIVERSE[®]



	WEIGHT	EPA
UCM2	25.75 lbs / 11.68 kg	.73 ft. ²

CONTROLS, CONTINUED

- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations

WARRANTY

- 5 Year Warranty
Consult Factory.
10 Year Extended Warranty - Optional (at an additional cost)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: UCM2-WND-LUM-BLU-FLR-36L-615-4K7-2-CL-BLS-WIRSC-SLA7(5)-UNV

CATALOG #	
-----------	--

UCM2					
Housing	LED Quantity	Lumen Output	CCT/CRI	Distribution	Optional Lens
UCM2 Universe Medium 2.0 Optional Element LUM Universe Medium with Luminous Rings SR Universe Medium with Luminous Solid Rings VSL Universe Medium with Luminous Vertical Slots WND Universe Medium with Optional Luminous Windows Optional Internal Lens ⁷ BLU Blue RD Red GRN Green Hood Style ANG Angled Hood BEL Bell Hood FLR Flared Hood SKB Skirted Bell Hood STR Straight Hood	36L 36 LED	260 260mA, 32W, 1800–4300 Lumens 325 325mA, 40W, 2200–5300 Lumens 420 420mA, 50W, 2800–6700 Lumens 460 460mA, 55W, 3000–7200 Lumens 615 615mA, 72W, 3900–9300 Lumens Equivalent 36L-325mA = 32LED-450mA 36L-460mA = 32LED-700mA	AMB ¹ Amber-595nm Peak 3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI 5-step MacAdam Ellipse Binning is standard Consult factory for 3-step MacAdam Ellipse Binning Consult Factory regarding availability of the following options 27K8 ² 2700K, 80 CRI 27K9 ² 2700K, 90 CRI 3K8 ² 3000K, 80 CRI 3K9 ² 3000K, 90 CRI 35K8 ² 3500K, 80 CRI 35K9 ² 3500K, 90 CRI 4K8 ² 4000K, 80 CRI 4K9 ² 4000K, 90 CRI 5K8 ² 5000K, 80 CRI 5K9 ² 5000K, 90 CRI	1 Type I 2 Type II 3 Type III 4W Type IV Wide 5Q ³ Type V Square 5W ³ Type V Wide	CL Clear Lens DL ⁴ Diffused Lens ⁴ Diffused lens option only available with T3 & T5W as a standard option. Contact factory for availability with other distributions.

Optional Shield	Finish	Optional Controls	Optional Lens Cover	Optional Fuse
HS ³ House Side Shield ³ Back Light Control is only available with T1, T2, T3 & T4W.	BLS Black Gloss Smooth BLT Black Matte Textured DBS Dark Bronze Gloss Smooth DBT Dark Bronze Matte Textured GTT Graphite Matte Textured LGS Light Grey Gloss Smooth LGT Light Grey Matte Textured PSS Platinum Silver Gloss Smooth VGT Verde Green Matte Textured WHS White Gloss Smooth WHT White Matte Textured Color Option CC ⁵ Custom Color CLA ⁵ Clear Anodized Finish (Clear protective undercoat for added protection in coastal or other harsh environments.)	WIR LightGRID+™ connectivity WIRSC ⁷ LightGRID+™ connectivity with Sensor SCP-8F ⁷ Sensor Control to 8' Mounting Height SCP-20F ⁷ Sensor Control 9' to 20' Mounting Height ⁷ Not available with lens options	SLC ⁶ Solid Lens Cover ⁶ SLC is a shield used to block the light from a luminous element.	SF Single Fuse (120V, 277V, 347V) DF Double Fuse (208V, 240V, 480V)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: UCM2-WND-LUM-BLU-FLR-36L-615-4K7-2-CL-BLS-WIRSC-SLA7(5)-UNV

CATALOG #

Mounting (UCM2/UCL2) - Select One

Pole Mount

STND_MNT*	Standard Mount	SLA18	SLA18-Single-4" Pole
TRA7	Tra7-Single-4" Pole	SLA18-2	SLA18-2-Twin-4" Pole
TRA7-2	Tra7-2-Twin-4" Pole	SLA20	SLA20-Single-4" Pole
TRA8	Tra8-Single-4" Pole	SLA20-2	SLA20-2-Twin-4" Pole
TRA8-2	Tra8-2-Twin-4" Pole	SLA20A	SLA20A-Single-4" Pole
TRA9	Tra9-Single-4" Pole	SLA20A-2	SLA20A-2-Twin-4" Pole
TRA9-2	Tra9-2-Twin-4" Pole	SLA20-B	SLA20B-Single-4" Pole
SLA2D	SLA8-Single-4" Pole	SLA20B-2	SLA20B-2-Twin-4" Pole
SLA3	SLA3-Single-4" Pole	SLA20C	SLA20C-Single-4" Pole
SLA4	SLA4-Single-4" Pole	SLA20C-2	SLA20C-2-Twin-4" Pole
SLA4-2	SLA4-2-Twin-4" Pole	SLA20D	SLA20D-Single-4" Pole
SLA7	SLA7-Single-4" Pole	SLA20D-2	SLA20D-2-Twin-4" Pole
SLA7-2	SLA7-2-Twin-4" Pole	SLA22D-4	SLA22D-4-Single-4" Pole
SLA7(5)	SLA7(5)-Single-5" Pole	SLA22D-5	SLA22D-5-Single-5" Pole
SLA7(5)-2	SLA7(5)-2-Twin-5" Pole	SLA24	SLA24-Single-4" Pole
SLA8D-4	SLA8D-4-Single-4" Pole	SLA24-2	SLA24-2-Twin-4" Pole
SLA8D-5	SLA8D-5-Twin-5" Pole	SLA24(5)	SLA24(5)-Single-5" Pole
SLA9	SLA9-Single-4" Pole	SLA24(5)-2	SLA24(5)-2-Twin-5" Pole
SLA9-2	SLA9-2-Twin-4" Pole		
SLA10	SLA10-Single-4" Pole		
SLA10-2	SLA10-2-Twin-4" Pole		
SLA16	SLA16-Single-4" Pole		
SLA16-2	SLA16-2-Twin-4" Pole		
SLA17	SLA17-Single-4" Pole		
SLA17-2	SLA17-2-Twin-4" Pole		
SLA17(5)	SLA17(5)-Single-5" Pole		
SLA17(5)-2	SLA17(5)-2-Twin-5" Pole		

* STND_MNT is for fixtures that will be mounted to existing arms

Wall Mount

WMA5	WMA5-Wall Mount
WMA9D	WMA9D-Wall Mount
WMA11	WMA11-Wall Mount
WMA12	WMA12-Wall Mount
WMA16	WMA16-Wall Mount
WMA17	WMA17-Wall Mount
WMA20	WMA20-Wall Mount
WMA24	WMA24-Wall Mount
WMA39	WMA39-Wall Mount

Additional Mounting Options

Pendant Mount

PMS PMS-Canopy-48" Stem

Catenary Mount

CM* CM-Catenary Mount

Mast Arm Mount

MAT* Mast Arm Mount

Controls Ready Arms

SLA4-PCR*	SLA4-PCR-Single-4"Pole-7-Pin Twist Lock Receptacle
SLA4-2-PCR*	SLA4-2-PCR-Twin-4"Pole-7-Pin Twist Lock Receptacle
SLA17-PCR*	SLA17-PCR-Single-4"Pole-7-Pin Twist Lock Receptacle
SLA17-2-PCR*	SLA17-2-PCR-Twin-4"Pole-7-Pin Twist Lock Receptacle
SLA17(5)-PCR*	SLA17(5)-PCR-Single-5"Pole-7-Pin Twist Lock Receptacle
SLA17(5)-2-PCR*	SLA17(5)-2-PCR-Twin-5"Pole-7-Pin Twist Lock Receptacle
SLA20-PCR	SLA20-PCR-Single-4"Pole-7-Pin Twist Lock Receptacle
SLA20-2-PCR	SLA20-2-PCR-Twin-4"Pole-7-Pin Twist Lock Receptacle
TRA60-PCR*	TRA60-PCR-Single-5"Pole-7-Pin Twist Lock Receptacle
MAT-PCR*	MAT-PCR-Single-slips over a 2-3/8" Horizontal Tenon

* Consult Factory for additional details and availability.

Optional Photocontrol/Egress		Optional Adaptor		Voltage	
PCA-C	Photocontrol Adaptor - Contemporary	AD5	Adaptor - 5" O.D. Pole	UNV	120V-277V
EPA-C	Egress Adaptor - Contemporary			347V	347V
				480V	480V

Notes:

- Wild life friendly.
- Additional charges and lead time will apply.
- Back light control is available only with T1, T2, T3 and T4W distributions.
- Diffused Lens is only available with Type 3 and T5W distributions as a standard offering.
Consult factory for availability with other distributions and information on how it will affect the performance of the luminaire.
- Consult factory for custom color, marine and corrosive resistant finish options.
- SLC is a shield used to block light from the luminous element.
- Only available with LUM option.

OUTDOOR LIGHTING CONTROLS OPTIONS

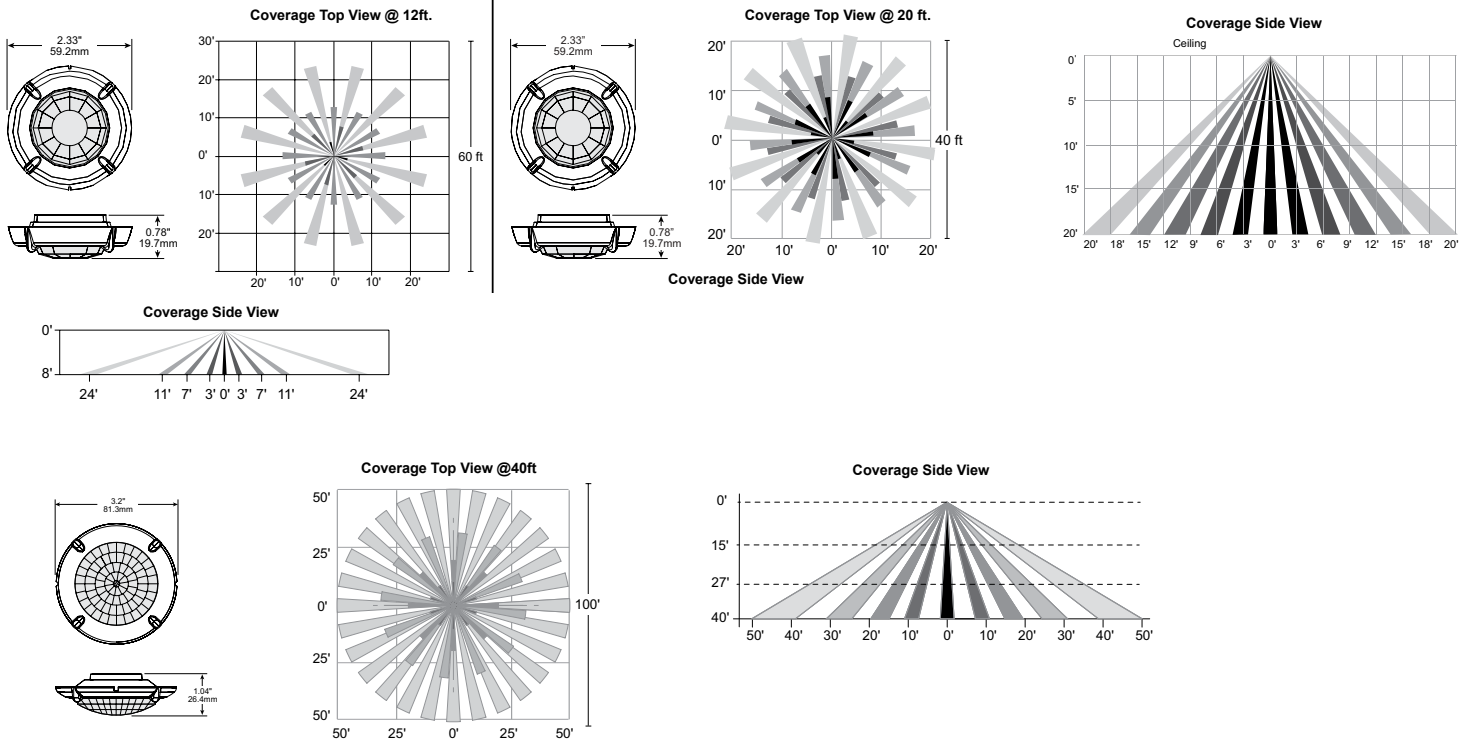
CONTROLS FUNCTIONALITY

LIGHTGRID⁺

	Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
		Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
LightGRID+	WIR LightGRID+ In-Fixture Module	✓	-	✓	-	-	✓	✓	Gateway	-	WIR
	WIRSC LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft	BTMSP

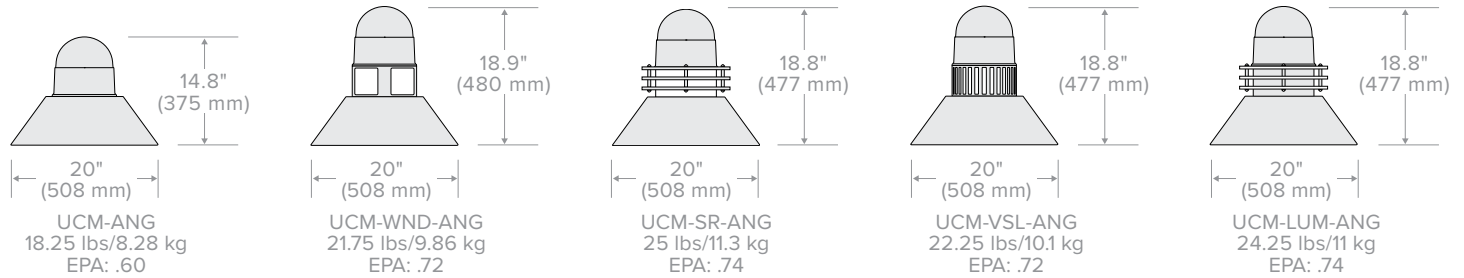
	Control Option Ordering Logic & Description	Control Option Functionality									Control Option Components
		Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
Independent	SCP_F Sensor Control Programmable, 8F or 40F	-	-	-	✓	✓	✓	✓	-	8ft or 40ft	SCP_F

COVERAGE PATTERNS FOR SCP_F

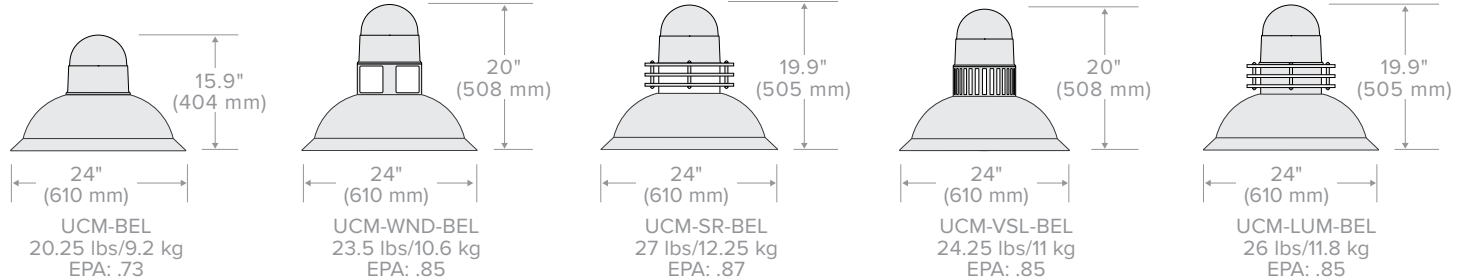


DIMENSIONS

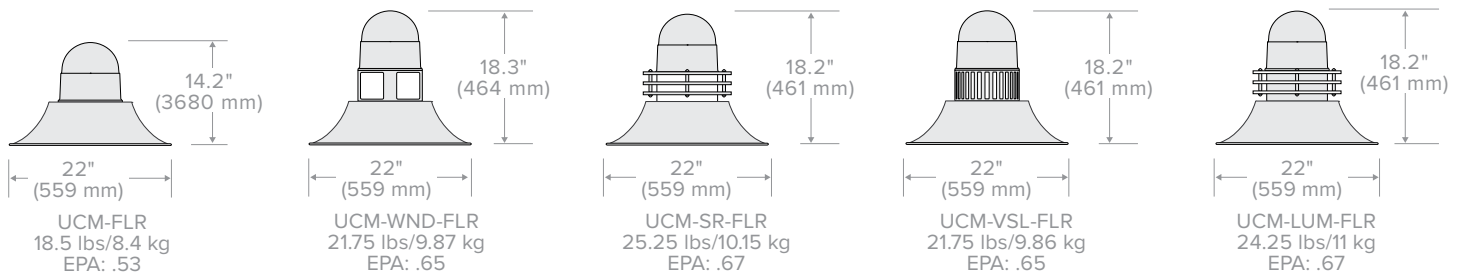
ANGLED HOOD CONFIGURATION



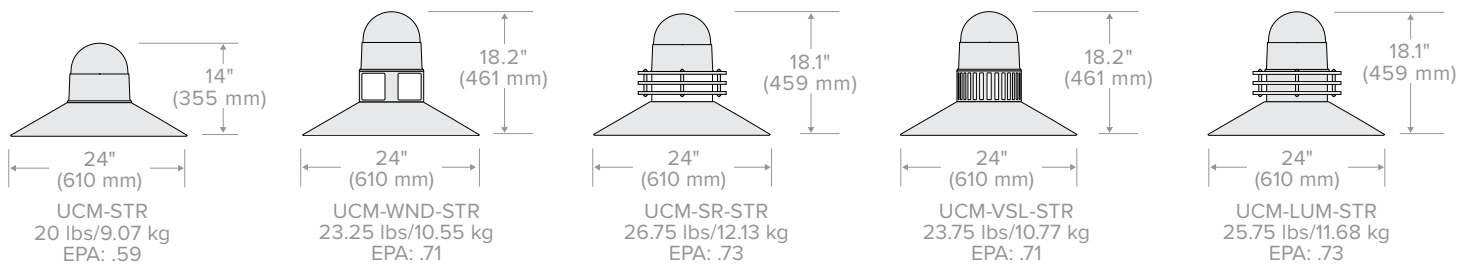
BELL HOOD CONFIGURATION



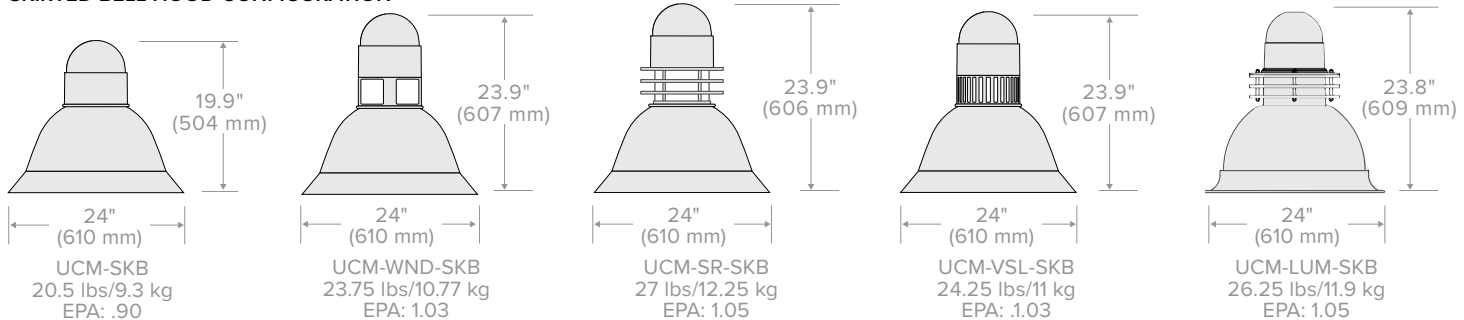
FLARE HOOD CONFIGURATION



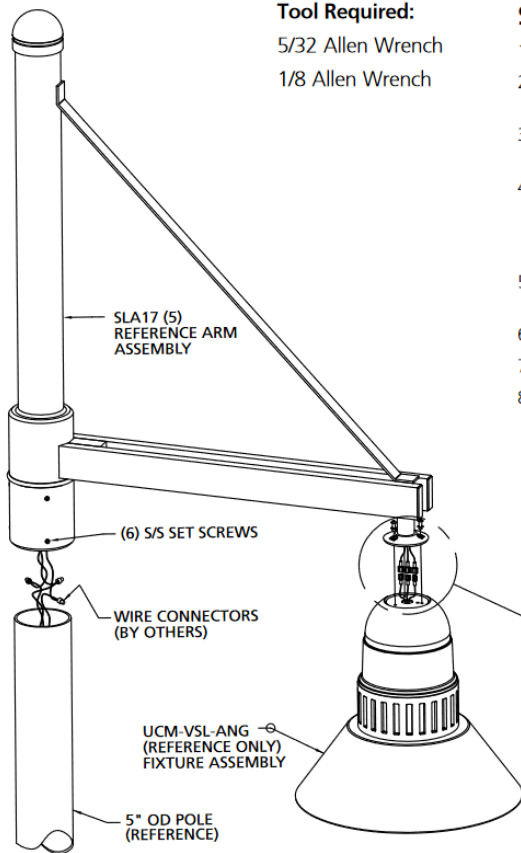
STRAIGHT HOOD CONFIGURATION



SKIRTED BELL HOOD CONFIGURATION



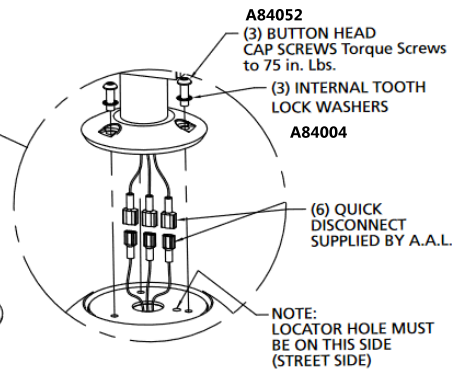
MOUNTING OPTIONS



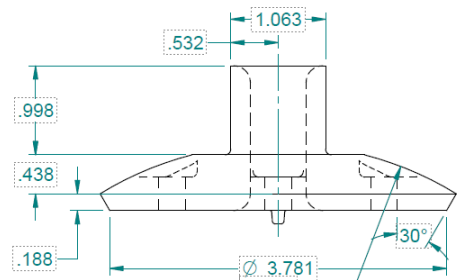
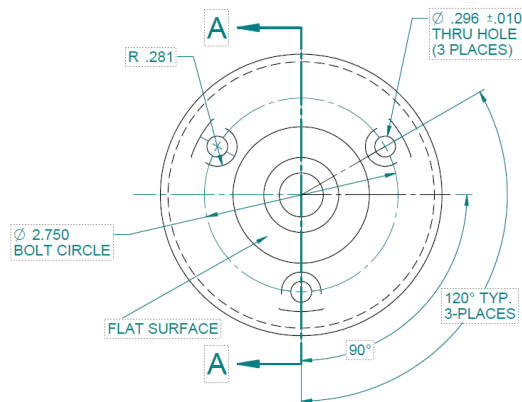
Tool Required:
5/32 Allen Wrench
1/8 Allen Wrench

STEPS:

- 1) Turn off power to the unit and take proper safety precautions.
- 2) Remove (3) button head cap screws & (3) internal tooth lock washers from the fixture assembly & put them aside.
- 3) Make wire connections from arm assembly to fixture assembly with (6) quick disconnects. Push wires and (6) quick disconnects into the top dome.
- 4) Secure fixture assembly onto arm assembly by (3) button head cap screws with (3) internal tooth lock washers. **NOTE:** When assembling fixture assembly to arm assembly make sure the locator hole must be on the street side as shown on the detail drawing.
- 5) Make wire connections from incoming supply to arm/fixture assembly and slip it over the pole.
- 6) Rotate arm/fixture assembly to desired orientation. Securely tighten (6) s/s set screws.
- 7) Turn on power and check for operation.
- 8) INSTALLATION COMPLETE.



UCM2 CAST ARM FITTER (WELDED TO UCM2 ARMS)



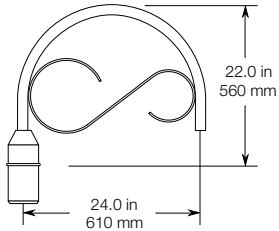
MOUNTING OPTIONS

STND_MNT - STANDARD MOUNT (FOR EXISTING ARMS ONLY)

POLE MOUNTING OPTIONS

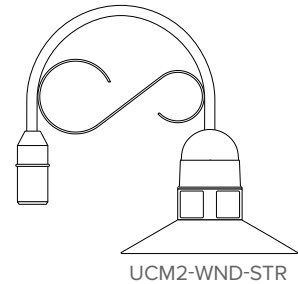
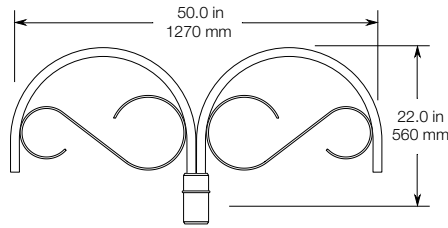
SLIPS OVER 4" POLE

TRA7 WT: 12 LBS EPA: .90



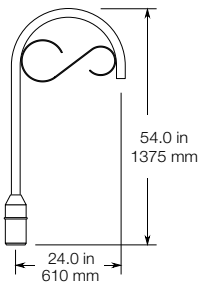
SLIPS OVER 4" POLE

TRA7-2 WT: 18 LBS EPA: 1.62



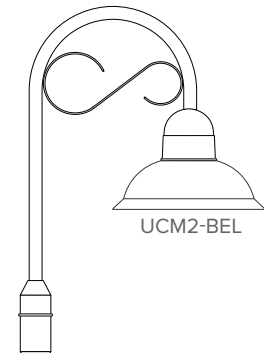
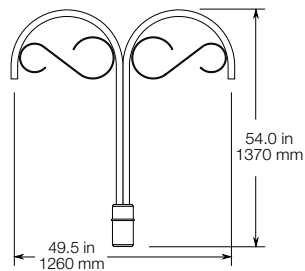
SLIPS OVER 4" POLE

TRA8 WT: 13 LBS EPA: 1.34



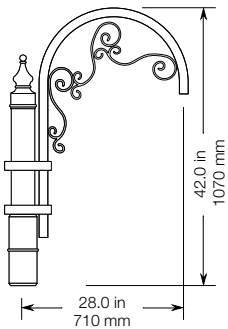
SLIPS OVER 4" POLE

TRA8-2 WT: 21 LBS EPA: 2.68



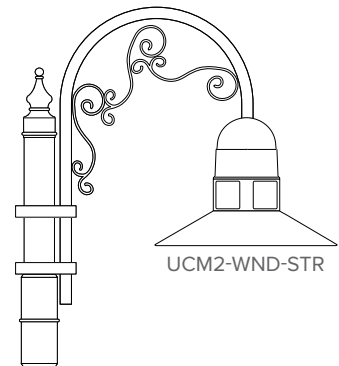
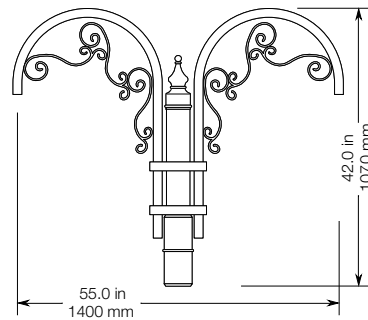
SLIPS OVER 4" POLE

TRA9 WT: 17 LBS EPA: 1.90



SLIPS OVER 4" POLE

TRA9-2 WT: 25 LBS EPA: 2.72



MOUNTING OPTIONS

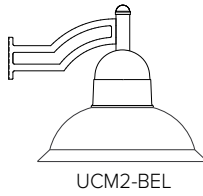
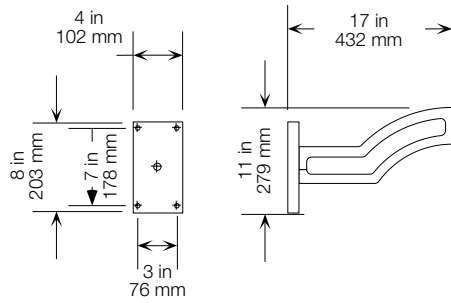
POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

BOLTS TO 4" POLE

SLA2D WT: 6 LBS

EPA: 0.30

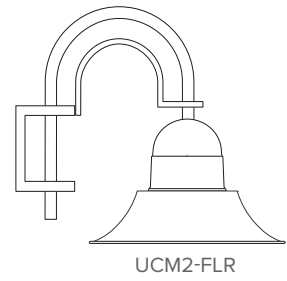
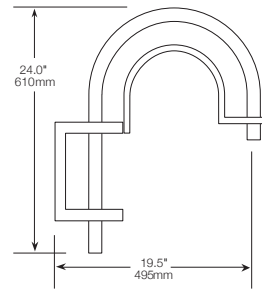


BOLTS TO 4" POLE

SLA3

WT: 8 LBS

EPA: .77

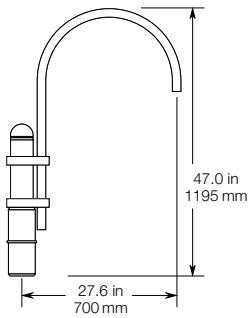


SLIPS OVER TO 4" POLE

SLA4

WT: 14 LBS

EPA: 1.39

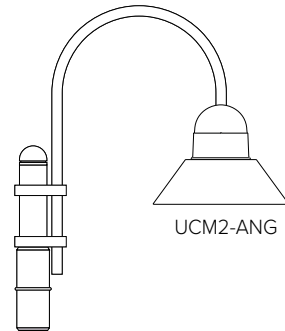
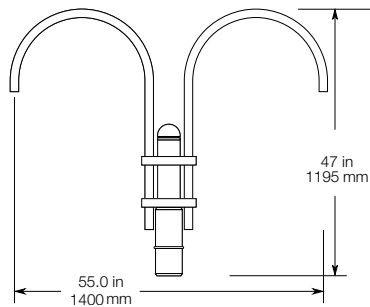


SLIPS OVER TO 4" POLE

SLA4-2

WT: 26 LBS

EPA: 2.10

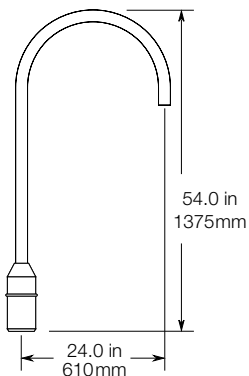


SLIPS OVER TO 4" POLE

SLA7

WT: 9 LBSE

PA: 1.34

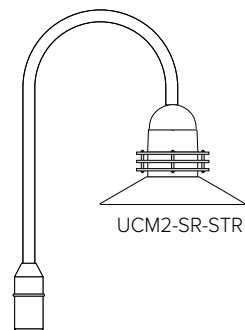
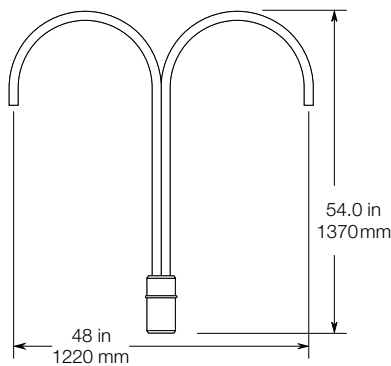


SLIPS OVER TO 4" POLE

SLA7-2

WT: 16 LBS

EPA: 2.34



MOUNTING OPTIONS

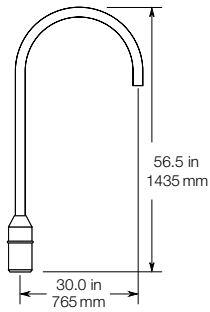
POLE MOUNTING OPTIONS

SLIPS OVER A 5" POLE

SLA7(5)

WT: 11 LBS

EPA: 1.73

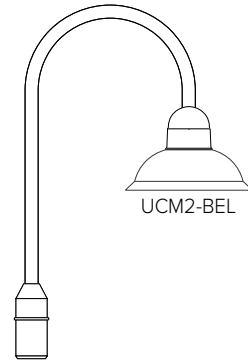
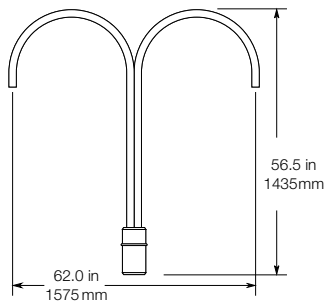


SLIPS OVER A 5" POLE

SLA7(5)-2

WT: 18 LBS

EPA: 2.60

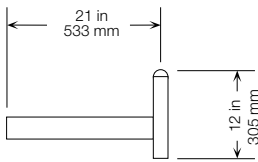


BOLTS TO 4" POLE

SLA8D-4

WT: 5 LBS

EPA: 0.40

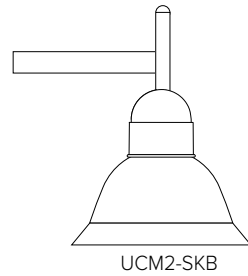
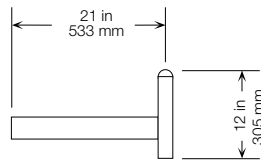


BOLTS TO 5" POLE

SLA8D-5

WT: 5 LBS

EPA: 0.40

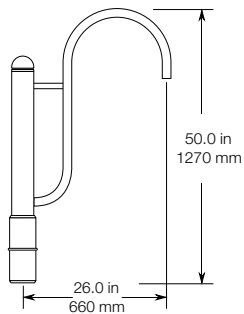


SLIPS OVER 4" POLE

SLA9

WT: 18 LBS

EPA: 1.90

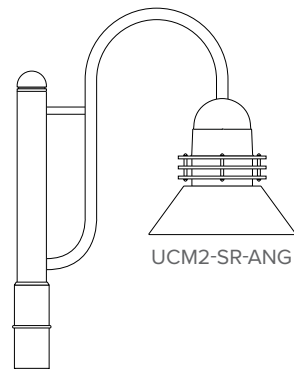
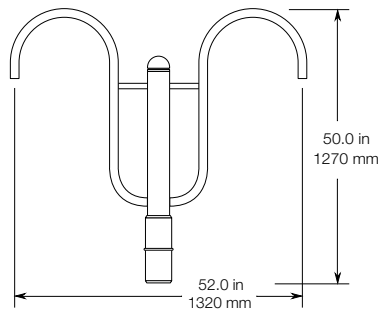


SLIPS OVER 4" POLE

SLA9-2

WT: 24 LBS

EPA: 2.44

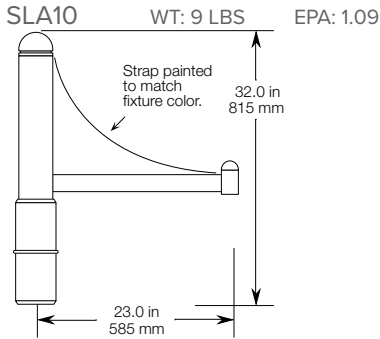


MOUNTING OPTIONS

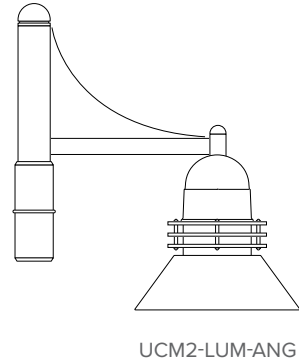
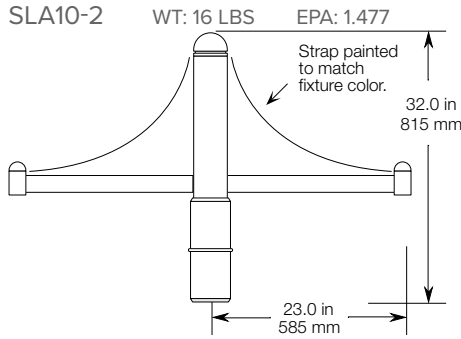
POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

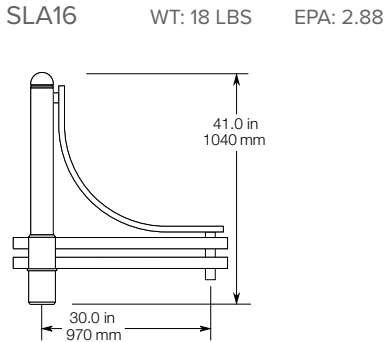
SLIPS OVER 4" POLE



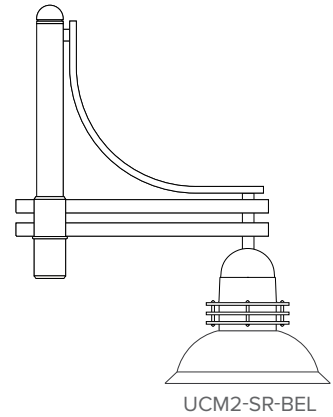
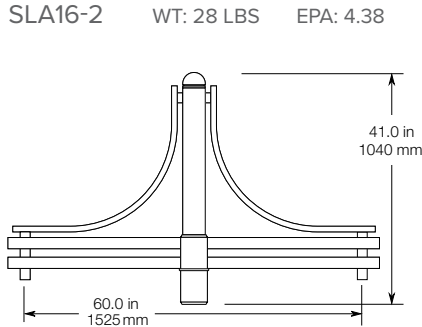
SLIPS OVER 4" POLE



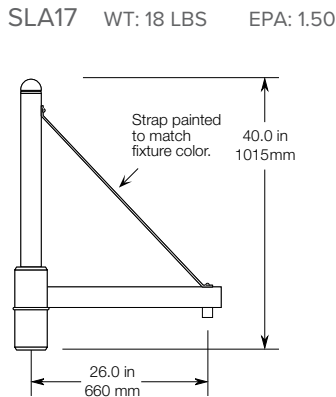
SLIPS OVER 4" POLE



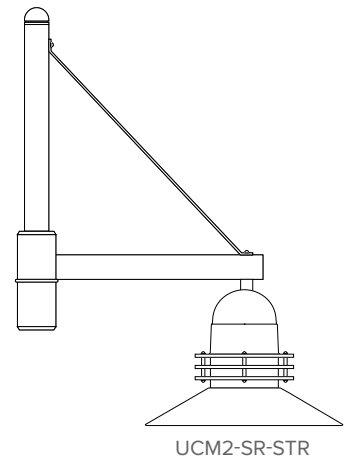
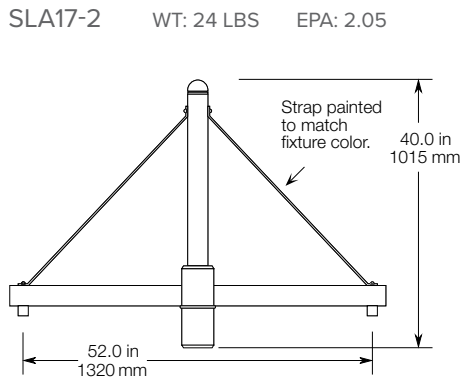
SLIPS OVER 4" POLE



SLIPS OVER 4" POLE



SLIPS OVER 4" POLE



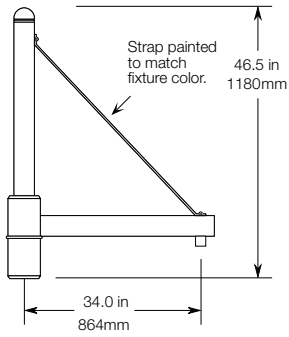
MOUNTING OPTIONS

POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

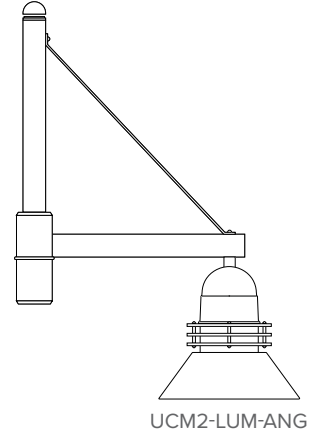
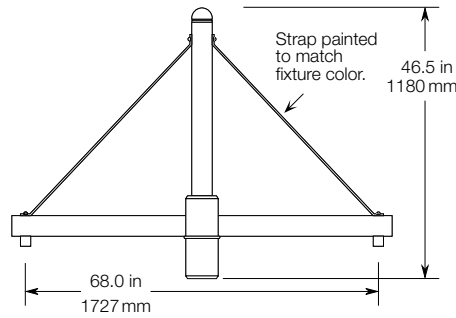
SLIPS OVER 5" POLE

SLA17(5) WT: 24 LBS EPA: 2.20



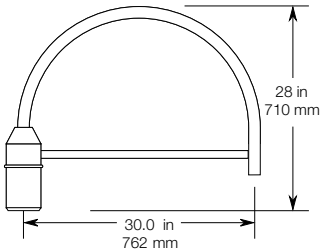
SLIPS OVER 5" POLE

SLA17(5)-2 WT: 33 LBS EPA: 2.75



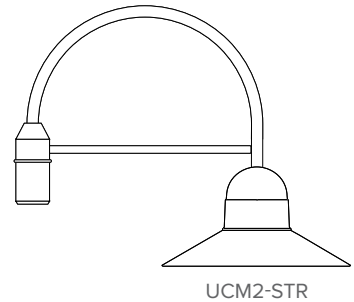
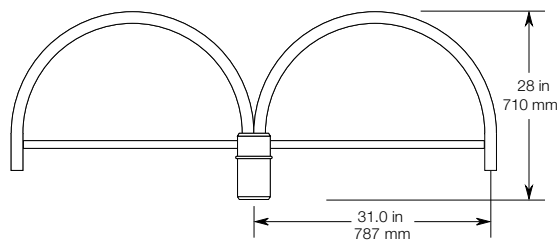
SLIPS OVER 4" POLE

SLA18 WT: 12 LBS EPA: 0.85



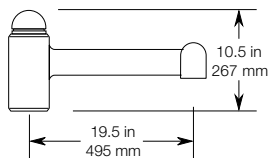
SLIPS OVER 4" POLE

SLA18-2 WT: 22 LBS EPA: 1.59



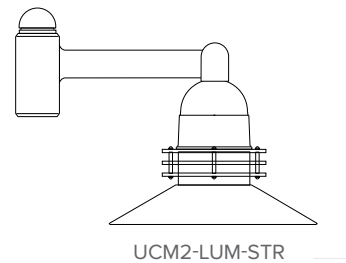
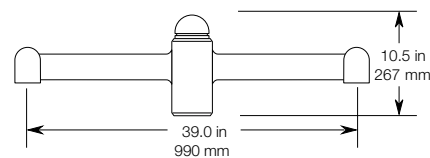
SLIPS OVER 4" POLE

SLA20 WT: 10 LBS EPA: 0.70



SLIPS OVER 4" POLE

SLA20-2 WT: 18 LBS EPA: 1.25

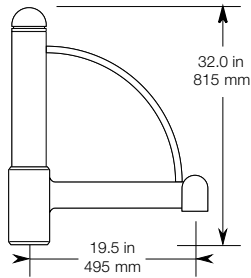


MOUNTING OPTIONS

POLE MOUNTING OPTIONS

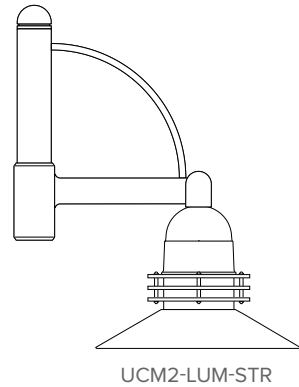
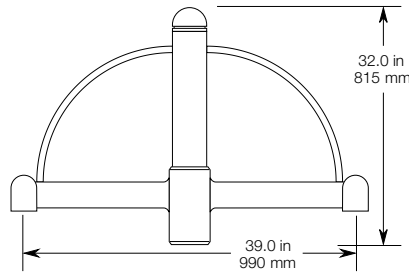
SLIPS OVER 4" POLE

SLA20AWT: 15 LBS EPA: 1.30



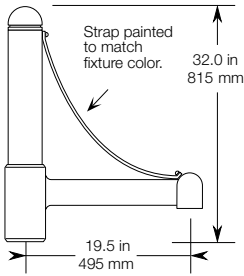
SLIPS OVER 4" POLE

SLA20A-2 WT: 26 LBS EPA: 1.94



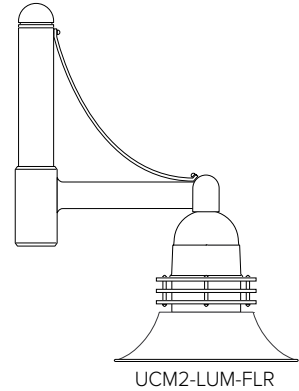
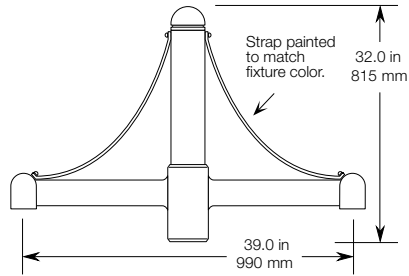
SLIPS OVER 4" POLE

SLA20B WT: 14 LBS EPA: 1.40



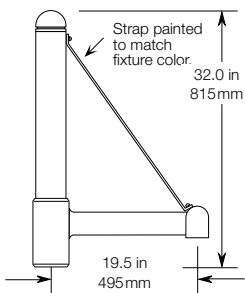
SLIPS OVER 4" POLE

SLA20B-2 WT: 24 LBS EPA: 1.70



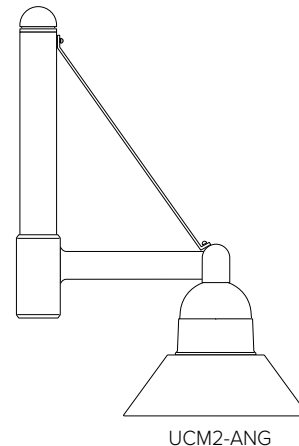
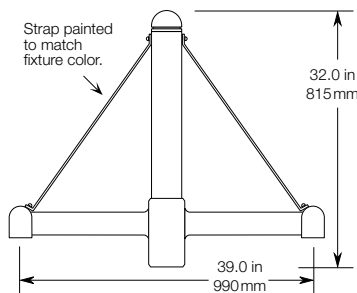
SLIPS OVER 4" POLE

SLA20C WT: 15 LBS EPA: 1.39



SLIPS OVER 4" POLE

SLA20C-2 WT: 26 LBS EPA: 1.91



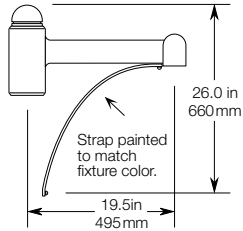
MOUNTING OPTIONS

POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

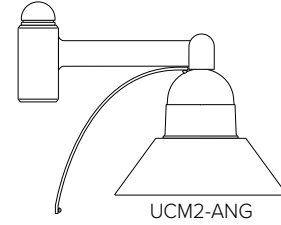
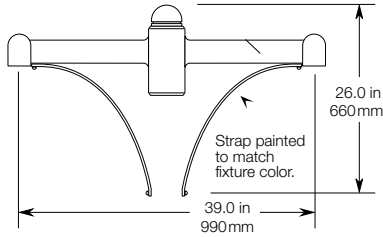
SLIPS OVER 4" POLE

SLA20D WT: 12 LBS EPA: 0.75



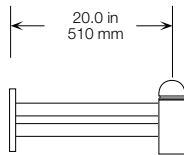
SLIPS OVER 4" POLE

SLA20D-2 WT: 21 LBS EPA: 1.18



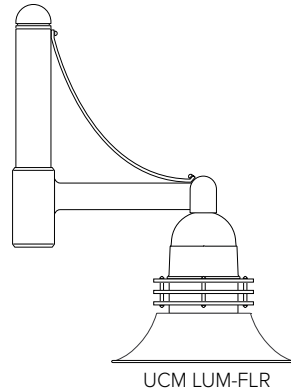
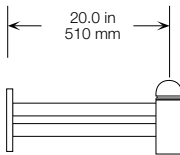
SLIPS OVER 4" POLE

SLA22D-4 WT: 4 LBS EPA: 0.44



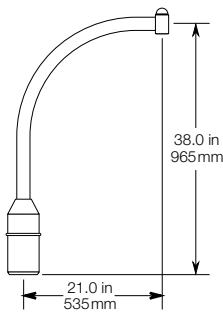
SLIPS OVER 5" POLE

SLA22D-5 WT: 4 LBS EPA: 0.44



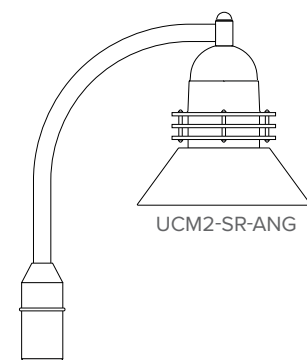
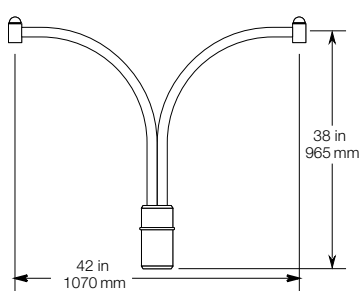
SLIPS OVER 4" POLE

SLA24 WT: 9 LBS EPA: 0.85



SLIPS OVER 4" POLE

SLA24-2 WT: 14 LBS EPA: 1.59

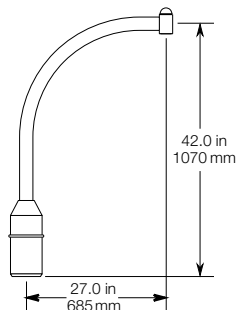


MOUNTING OPTIONS

POLE MOUNTING OPTIONS

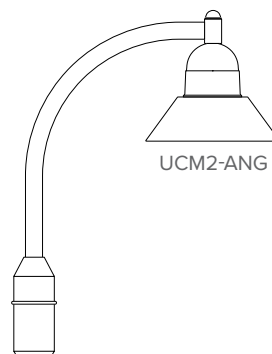
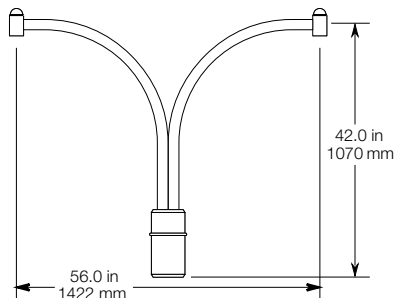
SLIPS OVER 5" POLE

SLA24(5) WT: 11 LBS EPA: 0.97



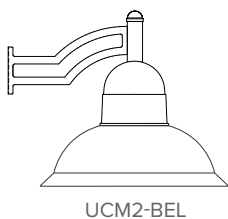
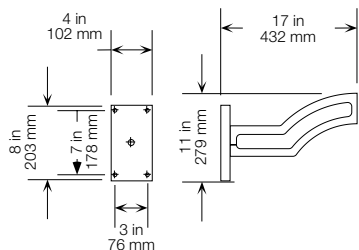
SLIPS OVER 5" POLE

SLA24(5)-2 WT: 16 LBS EPA: 1.81

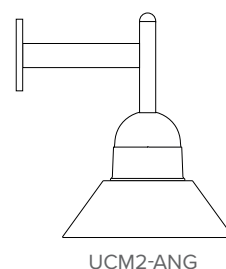
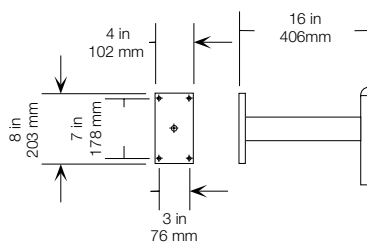


WALL MOUNTING OPTIONS

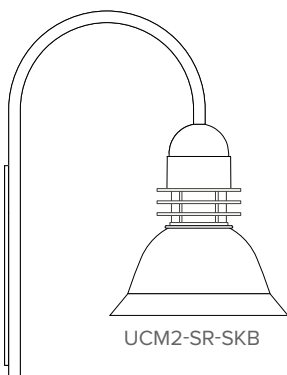
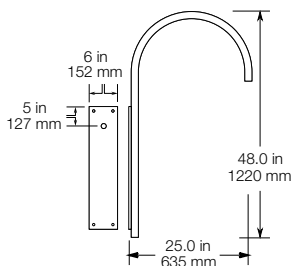
WMA5 WT: 6 LBS



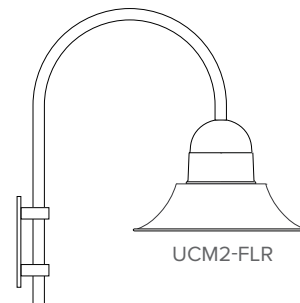
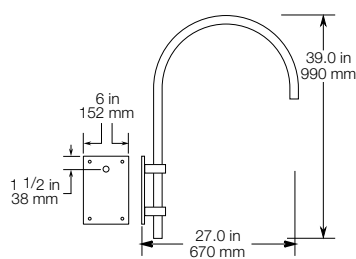
WMA9D WT: 6 LBS



WMA11 WT: 10 LBS



WMA12 WT: 12 LBS

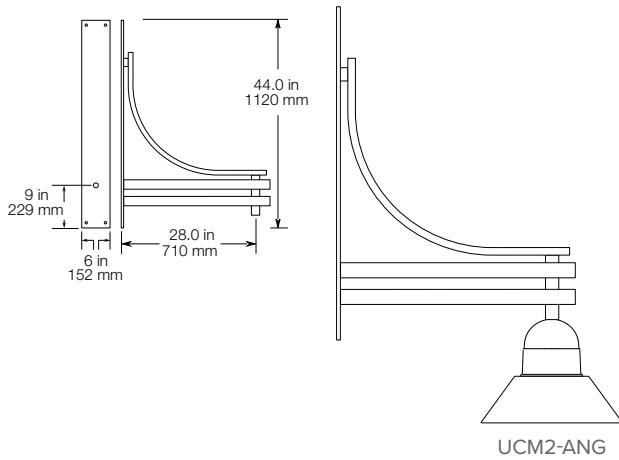


MOUNTING OPTIONS

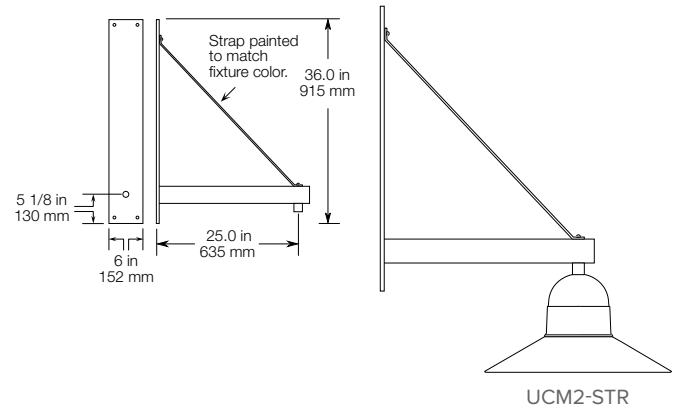
POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

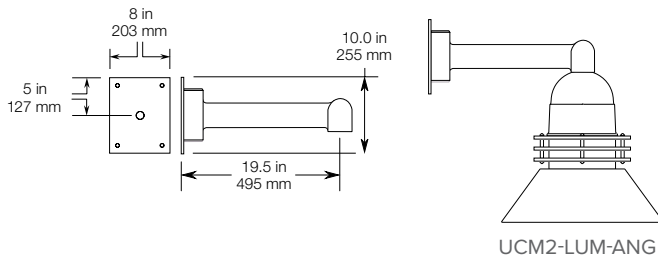
WMA16 WT: 22 LBS



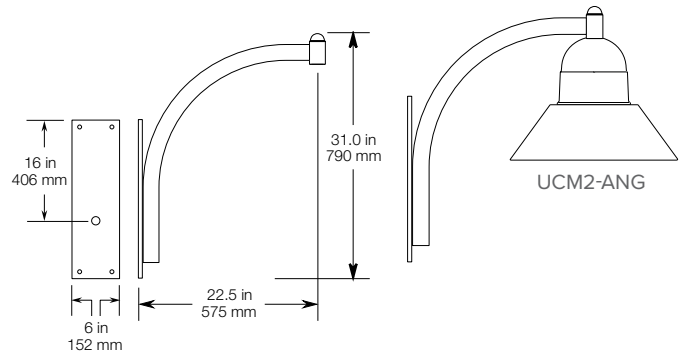
WMA17 WT: 15 LBS



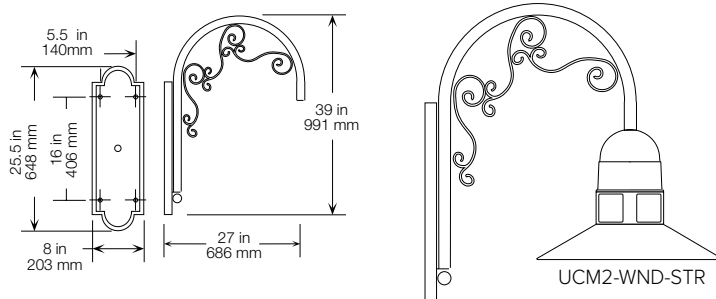
WMA20 WT: 12 LBS



WMA24 WT: 12 LBS



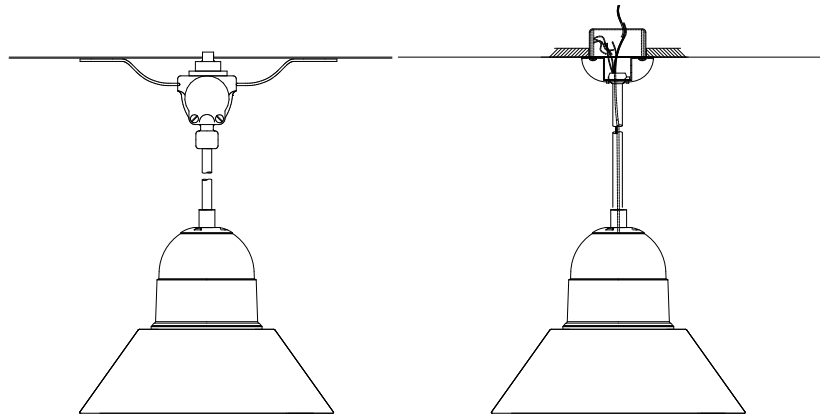
WMA39 WT: 14 LBS



MOUNTING OPTIONS

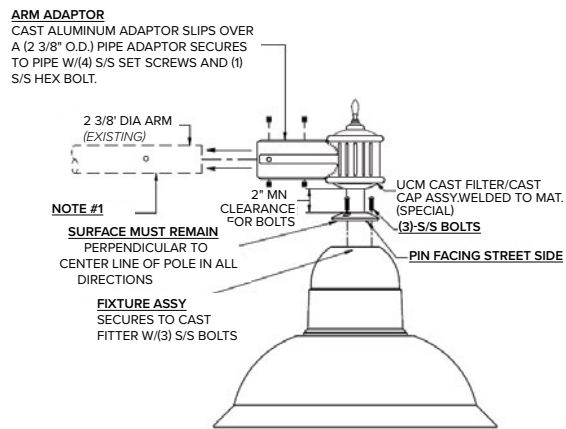
POLE MOUNTING OPTIONS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



CM* - Catenary Mount

PMS* - Pendant Mount



MAT* - Mast Arm Mount, Slips over 2-3/8" Horizontal Tenon

*Contact factory for more information

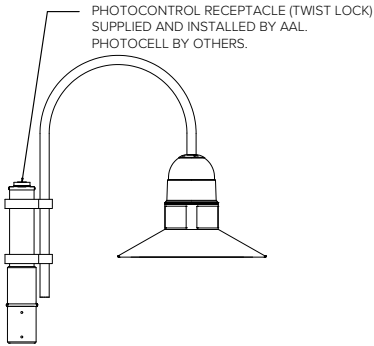
MOUNTING OPTIONS

POLE MOUNTING OPTIONS

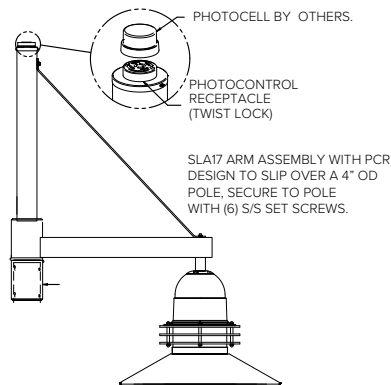
CONTROL READY ARMS - ARMS WITH AN INTEGRATED 7-PIN RECEPTACLE (Contact factory for more information)

Can be used with 7-pin twist-lock photocell modules or 7-pin controls modules like Hubbell Controls Solutions NXFM Series

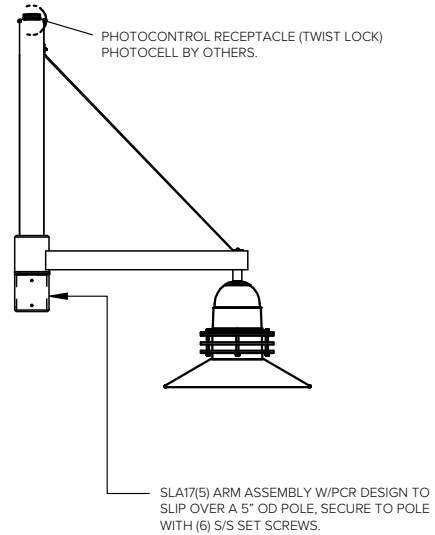
SLA4-PCR* & SLA4-2-PCR*



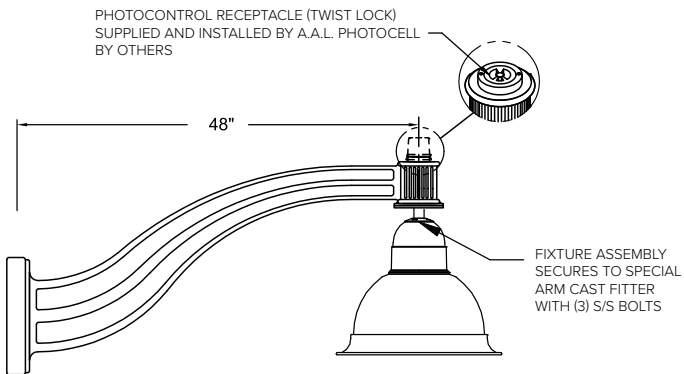
SLA17-PCR* & SLA17-2-PCR*



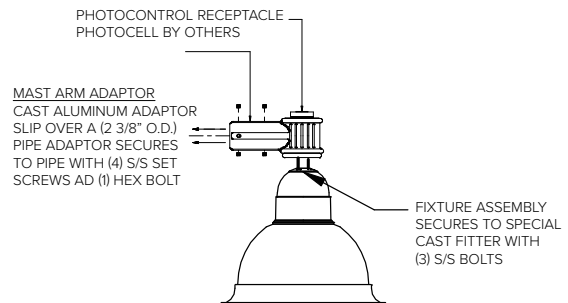
SLA17(5)-PCR* & SLA17(5)-2-PCR*



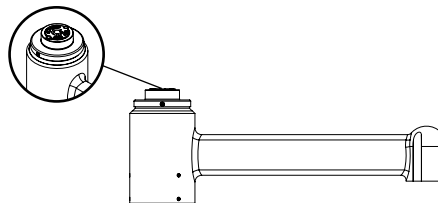
TRA60-PCR*



MAT-PCR*



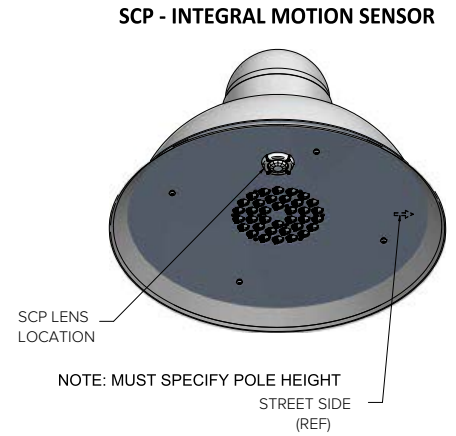
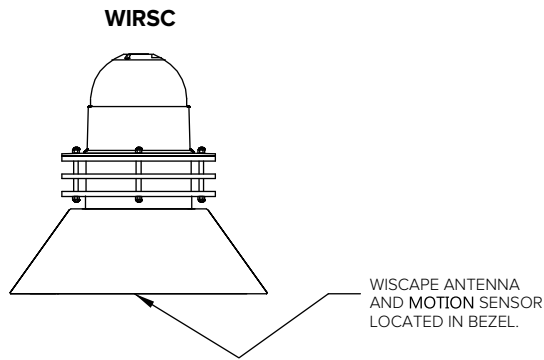
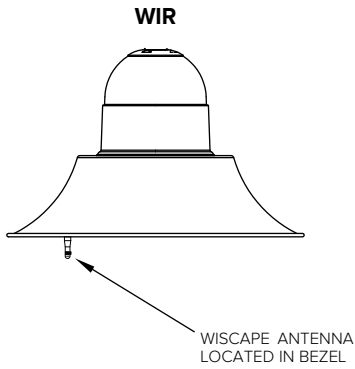
SLA20-PCR and SLA20-2-PCR



* Contact Factory for ordering details and additional information regarding the availability of Controls Ready Arms

CONTROLS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

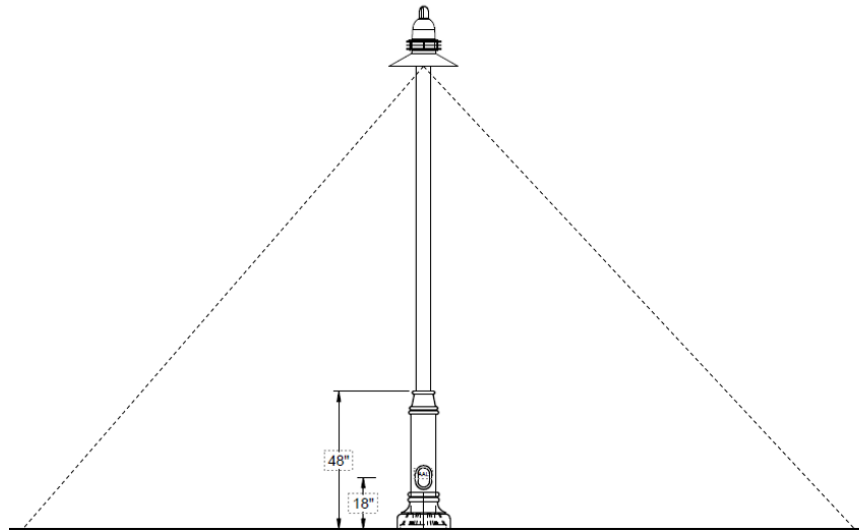


**UCM2 FIXTURE ISOMETRIC VIEW
BOTTOM FRONT (SCP DETAIL)**

CONTROLS

SENSOR DETECTION RANGE

- Coverage area is 2 1/2 times sensor mounting height.
- California Title 24 section 130.2 does not specify a coverage area. AAL recommends discretion per your application requirements



		SENSOR MOUNTING HEIGHT							RATIO
		8'	10'	12'	14'	16'	18'	20'	
COVERAGE DIAMETER	SCP	20'	25'	30'	35'	40'	45'	50'	1:2.5
	WIRSC	16'	20'	24'	28'	32'	36'	40'	1:2

DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
36	260	4000	None	1	4100	1	0	1	130.1	4176	1	0	1	132.5	4354	1	0	1	138.5
				2	3788	1	0	1	120.2	3859	1	0	1	122.4	4023	1	0	1	127.9
				3	3708	1	0	1	114.6	3777	1	0	1	117.7	3938	1	0	1	125.4
				4W	3749	1	0	2	119.0	3819	1	0	2	121.2	3982	1	0	2	127.1
				1-HS	2316	0	0	0	73.5	2359	0	0	0	74.9	2460	0	0	0	78.4
				2-HS	2023	0	0	1	64.2	2061	0	0	1	65.4	2149	0	0	1	68.6
				3-HS	1981	0	0	1	62.9	2018	0	0	1	64.0	2104	0	0	1	67.0
				4W-HS	2044	0	0	1	64.9	2082	0	0	1	66.1	2171	0	0	1	69.2
				5Q	3936	2	0	1	124.9	4009	2	0	1	127.2	4180	2	0	1	133.4
				5W	3822	3	0	1	121.3	3893	3	0	1	123.5	4059	3	0	1	129.6
			Clear	1-CL	3769	0	0	1	119.6	3839	0	0	1	121.8	4002	1	0	1	127.0
				2-CL	3482	1	0	1	110.5	3547	1	0	1	112.5	3698	1	0	1	117.3
				3-CL	3409	1	0	1	108.1	3472	1	0	1	110.2	3620	1	0	1	115.5
				4W-CL	3447	1	0	2	109.3	3511	1	0	2	111.4	3660	1	0	2	116.1
				1-CL-HS	2129	0	0	0	67.6	2169	0	0	0	68.8	2261	0	0	0	71.7
				2-CL-HS	1860	0	0	1	59.0	1895	0	0	1	60.1	1975	0	0	1	62.7
				3-CL-HS	1821	0	0	1	57.8	1855	0	0	1	58.9	1934	0	0	1	61.4
				4W-CL-HS	1879	0	0	1	59.6	1914	0	0	0	60.7	1996	0	0	1	63.3
				5Q-CL	3618	2	0	1	114.8	3685	2	0	1	116.9	3842	2	0	1	121.9
				5W-CL	3513	2	0	1	111.5	3579	2	0	1	113.5	3731	2	0	1	118.4
			Diffused	3-DL	2943	1	0	1	93.4	2998	1	0	1	95.1	3126	1	0	1	99.3
				5W-DL	3020	1	0	1	95.8	3076	1	0	1	97.6	3207	1	0	1	101.9

DELIVERED LUMENS CONTINUED

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
36	325	450mA Microcore Equivalent	None	1	4999	1	0	1	125.0	5092	1	0	1	127.3	5309	1	0	1	132.7
				2	4619	1	0	1	115.5	4705	1	0	1	117.6	4906	1	0	1	122.6
				3	4522	1	0	2	113.0	4606	1	0	2	115.1	4802	1	0	2	120.1
				4W	4572	1	0	2	114.3	4657	1	0	2	116.4	4856	1	0	2	121.4
				1-HS	2825	0	0	0	70.6	2877	0	0	0	71.9	3000	0	0	0	75.0
				2-HS	2467	0	0	1	61.7	2513	0	0	1	62.8	2620	0	0	1	65.5
				3-HS	2416	0	0	1	60.4	2461	0	0	1	61.5	2566	0	0	1	64.1
				4W-HS	2493	0	0	1	62.3	2539	0	0	1	63.5	2647	0	0	1	66.2
				5Q	4799	2	0	1	120.0	4889	2	0	1	122.2	5097	2	0	1	127.4
				5W	4660	3	0	1	116.5	4747	3	0	1	118.7	4950	3	0	1	123.7
			Clear	1-CL	4595	1	0	1	114.9	4681	1	0	1	117.0	4881	1	0	1	122.0
				2-CL	4246	1	0	1	106.2	4325	1	0	1	108.1	4510	1	0	1	112.7
				3-CL	4156	1	0	1	103.9	4234	1	0	1	105.8	4414	1	0	1	110.4
				4W-CL	4203	1	0	2	105.1	4281	1	0	2	107.0	4464	1	0	2	111.6
				1-CL-HS	2596	0	0	0	64.9	2645	0	0	0	66.1	2757	0	0	0	68.9
				2-CL-HS	2268	0	0	1	56.7	2310	0	0	1	57.8	2409	0	0	1	60.2
				3-CL-HS	2221	0	0	1	55.5	2262	0	0	1	56.6	2358	0	0	1	59.0
				4W-CL-HS	2291	0	0	1	57.3	2334	0	0	1	58.4	2434	0	0	1	60.8
				5Q-CL	4412	2	0	1	110.3	4494	2	0	1	112.3	4685	2	0	1	117.1
				5W-CL	4284	3	0	1	107.1	4364	3	0	1	109.1	4550	3	0	1	113.7
			Diffused	3-DL	3581	1	0	1	89.5	3647	1	0	1	91.2	3803	1	0	1	95.1
				5W-DL	3691	1	0	1	92.3	3760	1	0	1	94.0	3920	2	0	1	98.0
	420	6000	None	1	6298	1	0	1	126.4	6416	1	0	1	128.8	6689	1	0	1	134.3
				2	5820	1	0	1	116.8	5928	1	0	1	119.0	6181	1	0	1	124.1
				3	5697	1	0	2	114.3	5803	1	0	2	116.5	6050	1	0	2	121.4
				4W	5760	1	0	3	115.6	5867	1	0	3	117.8	6118	1	0	3	122.8
				1-HS	3559	0	0	0	71.4	3625	0	0	0	72.8	3779	0	0	0	75.9
				2-HS	3109	0	0	1	62.4	3167	0	0	1	63.6	3302	0	0	1	66.3
				3-HS	3044	0	0	1	61.1	3100	0	0	1	62.2	3232	0	0	1	64.9
				4W-HS	3141	0	0	1	63.0	3199	0	0	1	64.2	3335	0	0	1	66.9
				5Q	6047	2	0	1	121.4	6159	2	0	1	123.6	6422	3	0	1	128.9
				5W	5872	3	0	1	117.9	5981	3	0	1	120.1	6236	3	0	1	125.2
			Clear	1-CL	5790	1	0	1	116.2	5898	1	0	1	118.4	6149	1	0	1	123.4
				2-CL	5350	1	0	1	107.4	5449	1	0	1	109.4	5681	1	0	1	114.0
				3-CL	5237	1	0	2	105.1	5334	1	0	2	107.1	5561	1	0	2	111.6
				4W-CL	5295	1	0	3	106.3	5394	1	0	3	108.3	5624	1	0	3	112.9
				1-CL-HS	3271	0	0	0	65.7	3332	0	0	0	66.9	3474	0	0	0	69.7
				2-CL-HS	2858	0	0	1	57.4	2911	0	0	1	58.4	3035	0	0	1	60.9
				3-CL-HS	2798	0	0	1	56.2	2850	0	0	1	57.2	2971	0	0	1	59.6
				4W-CL-HS	2887	0	0	1	57.9	2941	0	0	1	59.0	3066	0	0	1	61.5
				5Q-CL	5558	2	0	1	111.6	5662	2	0	1	113.6	5903	2	0	1	118.5
				5W-CL	5398	3	0	1	108.3	5498	3	0	1	110.4	5732	3	0	1	115.1
			Diffused	3-DL	4511	1	0	1	90.6	4595	1	0	1	92.3	4791	1	0	1	96.2
				5W-DL	4562	2	0	1	91.6	4647	2	0	1	93.3	4845	2	0	1	97.3

DELIVERED LUMENS CONTINUED

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
36	460	700mA Microcore Equivalent	None	1	6811	1	0	1	124.1	6937	1	0	1	126.4	7233	1	0	1	131.8
				2	6293	1	0	2	114.6	6410	1	0	2	116.8	6683	1	0	2	121.7
				3	6160	1	0	2	112.2	6275	1	0	2	114.3	6542	1	0	2	119.2
				4W	6229	1	0	3	113.5	6345	1	0	3	115.6	6615	1	0	3	120.5
				1-HS	3848	0	0	0	70.1	3920	0	0	0	71.4	4087	0	0	0	74.4
				2-HS	3362	0	0	1	61.2	3424	0	0	1	62.4	3570	0	0	1	65.0
				3-HS	3291	0	0	1	59.9	3352	0	0	1	61.1	3495	0	0	1	63.7
				4W-HS	3396	0	0	1	61.9	3459	0	0	1	63.0	3607	0	0	1	65.7
				5Q	6538	3	0	1	119.1	6660	3	0	1	121.3	6944	3	0	1	126.5
				5W	6349	3	0	1	115.6	6467	3	0	1	117.8	6743	3	0	1	122.8
			Clear	1-CL	6261	1	0	1	114.0	6377	1	0	1	116.2	6649	1	0	1	121.1
				2-CL	5785	1	0	1	105.4	5892	1	0	1	107.3	6144	1	0	1	111.9
				3-CL	5662	1	0	2	103.1	5768	1	0	2	105.1	6014	1	0	2	109.5
				4W-CL	5726	1	0	3	104.3	5832	1	0	3	106.2	6081	1	0	3	110.8
				1-CL-HS	3537	0	0	0	64.4	3603	0	0	0	65.6	3757	0	0	0	68.4
				2-CL-HS	3090	0	0	1	56.3	3148	0	0	1	57.3	3282	0	0	1	59.8
				3-CL-HS	3025	0	0	1	55.1	3082	0	0	1	56.1	3213	0	0	1	58.5
				4W-CL-HS	3122	0	0	1	56.9	3180	0	0	1	57.9	3315	0	0	1	60.4
				5Q-CL	6010	2	0	1	109.5	6122	2	0	1	111.5	6383	3	0	1	116.3
				5W-CL	5836	3	0	1	106.3	5945	3	0	1	108.3	6199	3	0	1	112.9
			Diffused	3-DL	4878	1	0	1	88.9	4969	1	0	1	90.5	5181	1	0	1	94.4
				5W-DL	5028	2	0	1	91.6	5122	2	0	1	93.3	5340	2	0	1	97.3
	615	9000	None	1	8791	1	0	1	122.8	8954	1	0	1	125.1	9336	1	0	1	130.4
				2	8122	1	0	2	113.5	8274	1	0	2	115.6	8626	1	0	2	120.5
				3	7951	1	0	2	111.1	8099	1	0	2	113.1	8444	1	0	2	117.9
				4W	8040	1	0	3	112.3	8189	1	0	3	114.4	8538	1	0	3	119.3
				1-HS	4967	0	0	0	69.4	5059	0	0	0	70.7	5275	0	0	0	73.7
				2-HS	4339	0	0	1	60.6	4420	0	0	1	61.7	4608	0	0	1	64.4
				3-HS	4248	0	0	1	59.3	4327	0	0	1	60.4	4511	0	0	1	63.0
				4W-HS	4383	0	0	2	61.2	4465	0	0	2	62.4	4655	0	0	2	65.0
				5Q	8439	3	0	1	117.9	8596	3	0	1	120.1	8963	3	0	1	125.2
				5W	8195	3	0	2	114.5	8348	3	0	2	116.6	8703	3	0	2	121.6
			Clear	1-CL	8081	1	0	1	112.9	8231	1	0	1	115.0	8582	1	0	1	119.9
				2-CL	7467	1	0	2	104.3	7605	1	0	2	106.2	7930	1	0	2	110.8
				3-CL	7309	1	0	2	102.1	7445	1	0	2	104.0	7762	1	0	2	108.4
				4W-CL	7390	1	0	3	103.2	7528	1	0	3	105.2	7849	1	0	3	109.6
				1-CL-HS	4566	0	0	0	63.8	4651	0	0	0	65.0	4849	0	0	0	67.7
				2-CL-HS	3988	0	0	1	55.7	4063	0	0	1	56.7	4236	0	0	1	59.2
				3-CL-HS	3905	0	0	1	54.5	3978	0	0	1	55.6	4147	0	0	1	57.9
				4W-CL-HS	4029	0	0	2	56.3	4104	0	0	2	57.3	4279	0	0	2	59.8
				5Q-CL	7758	3	0	1	108.4	7902	3	0	1	110.4	8239	3	0	1	115.1
				5W-CL	7533	3	0	2	105.2	7674	3	0	2	107.2	8001	3	0	2	111.8
			Diffused	3-DL	6297	2	0	1	87.9	6414	2	0	2	89.6	6687	2	0	2	93.4
				5W-DL	6490	2	0	1	90.6	6611	2	0	1	92.3	6893	2	0	1	96.3

PHOTOMETRY

UCM2-ANG-36L-615-4K7-1

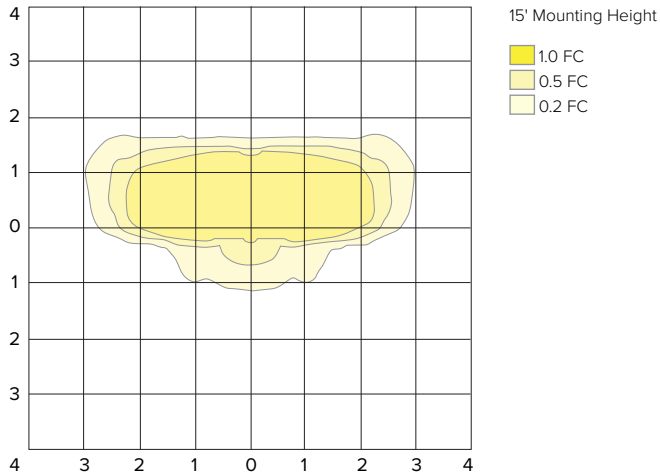
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8954
Watts	71.59
Efficacy	125.1
IES Type	I
BUG Rating	B1-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8046	90%
Downward House Side	908	10%
Downward Total	8954	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8954	100%

ISOFOOT CANDLE PLOT



UCM2-ANG-36L-615-4K7-2

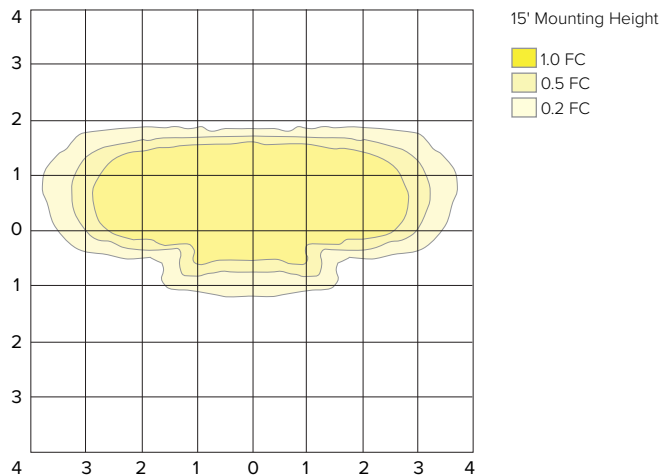
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8274
Watts	71.59
Efficacy	115.6
IES Type	II
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6942	84%
Downward House Side	1332	16%
Downward Total	8274	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8274	100%

ISOFOOT CANDLE PLOT



UCM2-ANG-36L-615-4K7-3

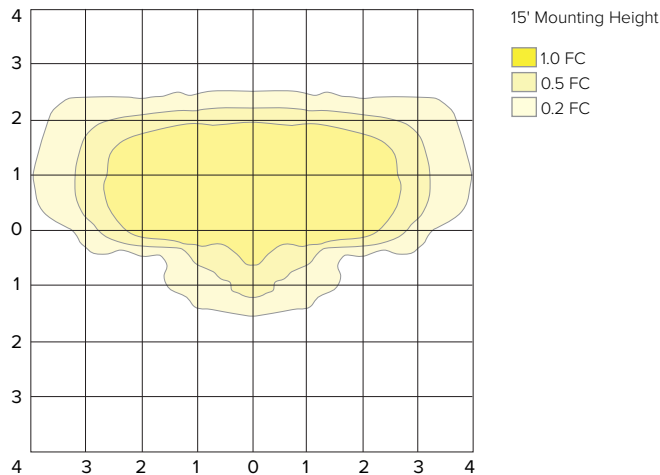
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8099
Watts	71.59
Efficacy	113.1
IES Type	III
BUG Rating	B1-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6800	84%
Downward House Side	1299	16%
Downward Total	8099	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8099	100%

ISOFOOT CANDLE PLOT



PHOTOMETRY

UCM2-ANG-36L-615-4K7-4W

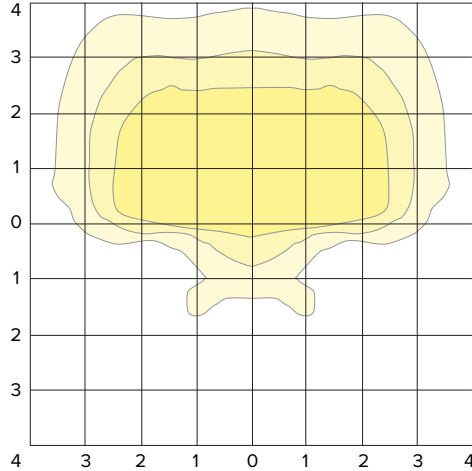
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8189
Watts	71.6
Efficacy	114.4
IES Type	IV Wide
BUG Rating	B1-U0-G3
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7339	90%
Downward House Side	850	10%
Downward Total	8189	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8189	100%

ISOFOOT CANDLE PLOT



UCM2-ANG-36L-615-4K7-5Q

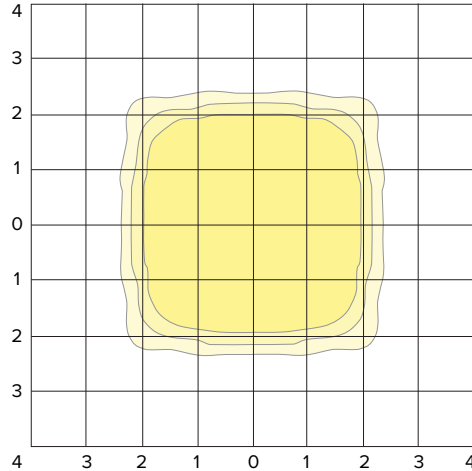
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8596
Watts	71.6
Efficacy	120.1
IES Type	VS
BUG Rating	B3-U0-G1
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4298	50%
Downward House Side	4298	50%
Downward Total	8596	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8596	100%

ISOFOOT CANDLE PLOT



UCM2-ANG-36L-615-4K7-5W

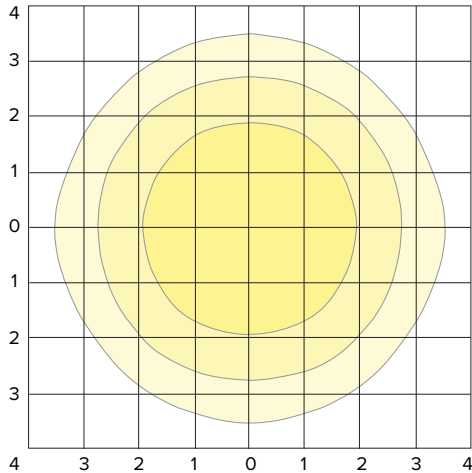
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	8348
Watts	71.6
Efficacy	116.6
IES Type	VS
BUG Rating	B3-U0-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

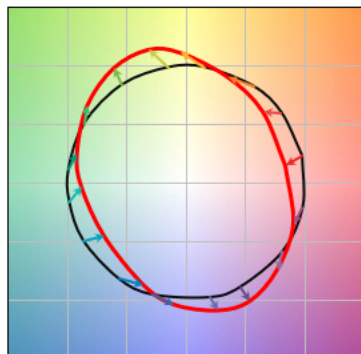
Zone	Lumens	% Luminaire
Downward Street Side	4174	50%
Downward House Side	4174	50%
Downward Total	8348	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8348	100%

ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

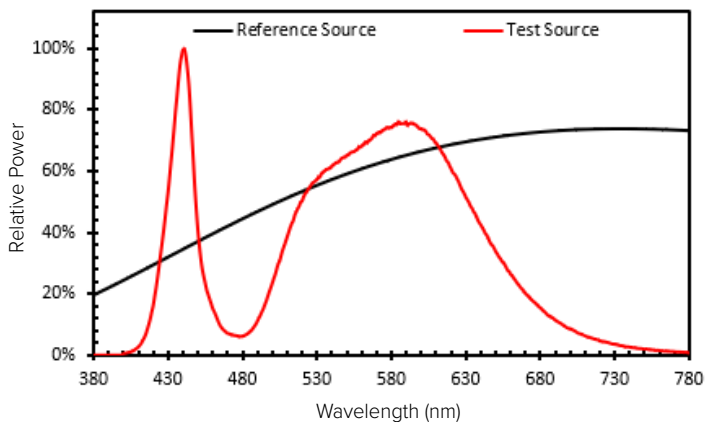


— Reference Illuminant — Test Source

TEST SOURCE

MBM TEST RESULTS	
CCT (K)	3947
CIE Ra	72
Duv	0.0004
x	0.3831
y	0.3793
Rf	68
Rg	99

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

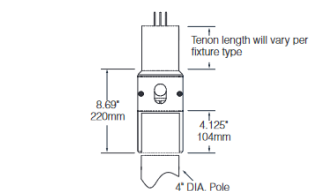
Electrical												Dimming					
Light Engine	System Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
			VAC	HZ	120	208	240	277	347	480				Min	Max	Min	Max
36L	260 mA	31.52	120-480	50/60	0.26	0.15	0.13	0.11	0.09	0.07	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	325 mA	40			0.33	0.19	0.17	0.14	0.12	0.08							
	420 mA	49.82			0.42	0.24	0.21	0.18	0.14	0.10							
	460 mA	54.9			0.46	0.26	0.23	0.20	0.16	0.11							
	615 mA	71.6			0.60	0.34	0.30	0.26	0.21	0.15							

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°F)						
HOURS	0	25,000	36,000	50,000	100,000	REPORTED L70
Projected Lumen Maintenance	100%	98.0%	96.9%	95.4%	90.5%	> 60,000

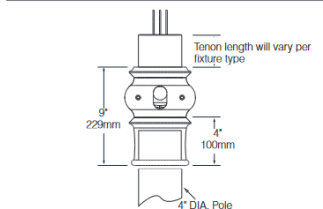
Multiplier for Amber LED		
CCT	Wavelength	Multiplier
Amber LED	595nm	0.255
Lens Multiplier for 80 & 90 CRI		
Scaling Factor should be applied to 5000K 70 CRI Data		
CCT	80 CRI	CRI 90
2700K	0.859	0.655
3000K	0.912	0.703
3500K	0.906	0.732
4000K	0.894	0.734
5000K	0.879	0.771
Lens Option Multiplier		
Multiplier to Estimate Light Loss with Lens		
CL	Clear Lens	0.913
DL	Diffused Lens	0.792

ADDITIONAL INFORMATION

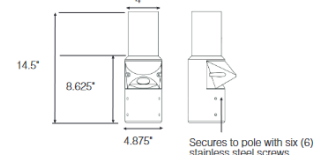
PHOTOCELL PCA-C



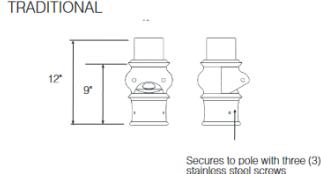
PCA-T



EGRESS EPA-C CONTEMPORARY



EPA-T TRADITIONAL



PHOTOCELL / EGRESS ADAPTERS

- Adapter(s) shall slip over a 4\"/>

- Photocell adapter shall include an internal twist lock receptacle. Photocell by others.
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be

aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others.