

FEATURES

- Reliable, uniform, glare free 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



3000K and warmer CCTs only

See Certification Specifications

SPECIFICATIONS

CONSTRUCTION

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

LED/OPTICS

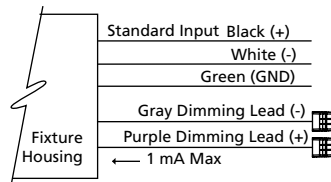
- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate
- Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED.
- Features individual LED optical control based on high performance TIR optical designs.
- House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield 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

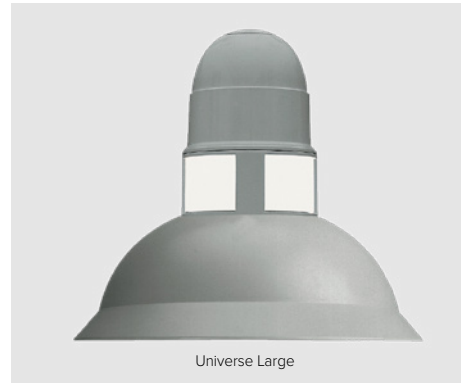


- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

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.

UNIVERSE®



Universe Large

RELATED PRODUCTS

UCM2

UCL2LK

UCS

UCB

CONTROLS (CONTINUED)

- 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

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020. [See Buy American Solutions.](#)

WARRANTY

- See [HLI Standard Warranty](#) for additional information

KEY DATA	
LUMEN RANGE	4,033–19,516
WATTAGE RANGE	69.9–160.4
EFFICACY RANGE (LPW)	43.3–137.3
INPUT CURRENT RANGE (mA)	335/500/700 mA
WEIGHT	47 lbs 21.3 kg to 56 lbs 25.4 kg
EPA	1.05 to 1.95

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: UCL2-WND-BLU-FLR-36L-420-4K7-2-CL-BL-WIRSC-SLA2-D-UNV

CATALOG #

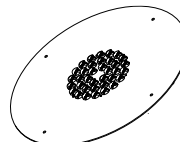
HOUSING

UCL2									
Housing		LED Quantity		Lumen output		CCT/CRI		Distribution	Finish
UCL2 Universe Large 2.0		72L 72 LED		310 450mA Microcore Crossover		AMB Amber-595nm Peak ¹		1 Type I	BLS Black Gloss Smooth
Optional Element				335 335mA, 10000 Lumens		3K7 3000K, 70 CRI		2 Type II	BLT Black Matte Textured
WND Universe Medium with Luminous Window				480 700mA Microcore Crossover		4K7 4000K, 70 CRI		3 Type III	DBS Dark Bronze Gloss Smooth
SR Universe Medium with Luminous Solid Rings				500 500mA, 14000 Lumens		5K7 5000K, 70 CRI		4W Type IV Wide	DBT Dark Bronze Matte Textured
VSL Universe Medium with Luminous Vertical Slots				700 700mA, 19000 Lumens				5Q Type V Square	GTT Graphite Matte Textured
LUM Universe Medium with Luminous Rings								5W Type V Wide	LGS Light Grey Gloss Smooth
Optional Internal Lens									LGT Light Grey Matte Textured
BLU Blue									PSS Platinum Silver Gloss Smooth
RD Red									VGT Verde Green Matte Textured
GRN Green									WHS White Gloss Smooth
Hood Style									WHT White Matte Textured
ANG Angled Hood									Color Option
BEL Bell Hood									CC ³ Custom Color
FLR Flared Hood									
SKB Skirted Bell Hood									

Mounting		Optional Lens		Options		Mounting Options		Voltage	
Pole Mount		CL Clear Lens		HS House Side Shield ⁴		PCA-C Photocontrol Adaptor Contemporary		UNV 120-277V	
SLA2-D	SLA18	DL Diffused Lens ²		SLC Solid Lens Cover		EPA-C Egress Adaptor Contemporary		347 347V	
SLA3	SLA20			SF Single Fuse (120, 277, 347)				480 480V	
SLA4	SLA20A			DF Double Fuse (208, 240, 480)					
SLA7	SLA22D								
SLA8D	SLA24								
SLA9	TRA7								
SLA10	TRA8								
SLA16	TRA9								
SLA17									
Wall Mount									
WMA5	WMA17								
WMA9D	WMA20								
WMA11	WMA24								
WMA12	WMA39								
WMA16									

Notes:

- Wild life friendly
- Diffused Lens is available only with T3 and T5W distribution
- Consult factory for custom color, marine and corrosive finish options
- House side Shield is available only with T1, T2, T3 and T4W distributions



DIMENSIONS

See page 6 for dimensions

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)
72	310	450mA Microcore Crossover	None	1	8970	1	0	1	128.4	9378	1	0	1	134.2	9755	1	0	1	139.6
				2	8440	1	0	2	120.8	8823	1	0	2	126.3	9178	2	0	2	131.4
				3	8178	1	0	2	1171	8549	1	0	2	122.4	8893	1	0	2	127.3
				4W	8177	1	0	3	117.0	8548	1	0	3	122.4	8892	1	0	3	127.3
				1-HS	5194	0	0	0	74.3	5430	0	0	0	77.7	5648	0	0	0	80.8
				2-HS	4203	0	0	1	60.2	4394	0	0	1	62.9	4570	0	0	1	65.4
				3-HS	4033	0	0	1	57.7	4216	0	0	1	60.3	4385	0	0	1	62.8
				4W-HS	4039	0	0	1	57.8	4223	0	0	1	60.5	4393	0	0	1	62.9
			Clear	5Q	8550	3	0	1	122.4	8939	3	0	1	128.0	9298	3	0	1	133.1
				5W	8012	3	0	2	114.7	8376	3	0	2	119.9	8713	3	0	2	124.7
				1-CL	7729	1	0	1	110.6	8080	1	0	1	115.7	8405	1	0	1	120.3
				2-CL	7272	1	0	1	104.1	7602	1	0	2	108.8	7908	1	0	2	113.2
				3-CL	7046	1	0	2	100.9	7366	1	0	2	105.4	7662	1	0	2	109.7
				4W-CL	7045	1	0	3	100.8	7365	1	0	3	105.4	7661	1	0	3	109.7
				1-CL-HS	4475	0	0	0	64.1	4678	0	0	0	67.0	4866	0	0	0	69.7
				2-CL-HS	3621	0	0	1	51.8	3786	0	0	1	54.2	3938	0	0	1	56.4
				3-CL-HS	3474	0	0	1	49.7	3632	0	0	1	52.0	3778	0	0	1	54.1
				4W-CL-HS	3480	0	0	1	49.8	3639	0	0	1	52.1	3785	0	0	1	54.2
			Diffused	5Q-CL	7367	2	0	1	105.5	7702	3	0	1	110.2	8011	3	0	1	114.7
				5W-CL	6903	3	0	1	98.8	7217	3	0	1	103.3	7507	3	0	1	107.5
				3-DL	5322	1	0	1	76.2	5564	1	0	1	79.6	5788	1	0	1	82.8
				5W-DL	5214	2	0	1	74.6	5451	2	0	1	78.0	5670	2	0	1	81.2
	335	10000	None	1	9606	1	0	1	126.8	10042	1	0	1	132.6	10446	1	0	1	137.3
				2	9037	1	0	2	119.3	9448	2	0	2	124.7	9828	2	0	2	129.0
				3	8757	1	0	2	115.9	9155	1	0	2	120.8	9523	1	0	2	125.3
				4W	8756	1	0	3	115.6	9154	1	0	3	120.8	9522	1	0	3	125.4
				1-HS	5562	0	0	0	73.4	5814	0	0	0	76.8	6048	0	0	0	80.0
				2-HS	4500	0	0	1	59.4	4705	0	0	1	62.1	4894	0	0	1	64.9
				3-HS	4318	0	0	1	57.0	4515	0	0	1	59.6	4696	0	0	1	62.3
				4W-HS	4326	0	0	1	57.1	4522	0	0	1	59.7	4704	0	0	1	62.3
			Clear	5Q	9156	3	0	1	120.9	9572	3	0	1	126.4	9957	3	0	1	131.5
				5W	8580	3	0	2	113.3	8969	3	0	2	118.4	9330	3	0	2	123.1
				1-CL	8276	1	0	1	109.5	8652	1	0	1	114.5	9000	1	0	1	119.1
				2-CL	7787	1	0	2	103.1	8141	1	0	2	107.7	8468	1	0	2	112.1
				3-CL	7545	1	0	2	99.9	7888	1	0	2	104.4	8205	1	0	2	108.6
				4W-CL	7544	1	0	3	99.8	7887	1	0	3	104.4	8204	1	0	3	108.6
				1-CL-HS	4792	0	0	0	63.4	5010	0	0	0	66.3	5211	0	0	0	69.0
				2-CL-HS	3877	0	0	1	51.3	4054	0	0	1	53.6	4217	0	0	1	55.8
				3-CL-HS	3721	0	0	1	49.2	3890	0	0	1	51.5	4046	0	0	1	53.5
				4W-CL-HS	3727	0	0	1	49.3	3896	0	0	1	51.6	4053	0	0	1	53.6
			Diffused	5Q-CL	7889	3	0	1	104.4	8247	3	0	1	109.2	8579	3	0	1	113.5
				5W-CL	7392	3	0	1	97.8	7728	3	0	1	102.3	8039	3	0	2	106.4
				3-DL	5992	1	0	1	79.2	6264	1	0	1	82.8	6516	1	0	1	86.4
				5W-DL	5297	2	0	1	70.0	5537	2	0	1	73.1	5760	2	0	1	73.6

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)
72	480	700mA Microcore Crossover	None	1	13144	1	0	1	118.8	13742	1	0	1	124.2	14294	2	0	1	129.2
				2	12367	2	0	2	111.7	12929	2	0	2	116.8	13448	2	0	2	121.5
				3	11983	2	0	2	108.3	12527	2	0	3	113.2	13031	2	0	3	117.7
				4W	11982	2	0	3	108.3	12526	2	0	3	113.2	13030	2	0	3	117.7
				1-HS	7610	0	0	0	68.8	7956	0	0	0	71.9	8276	0	0	0	74.8
				2-HS	6158	0	0	1	55.6	6438	0	0	1	58.2	6697	0	0	1	60.5
				3-HS	5909	0	0	1	53.4	6178	0	0	2	55.8	6426	0	0	2	58.1
				4W-HS	5919	1	0	2	53.5	6188	1	0	2	55.9	6437	1	0	2	58.2
				5Q	12529	3	0	1	113.2	13098	3	0	1	118.4	13625	3	0	1	123.1
				5W	11740	4	0	2	106.1	12274	4	0	2	110.9	12767	4	0	2	115.4
			Clear	1-CL	11325	1	0	1	102.3	11840	1	0	1	107.0	12316	1	0	1	111.3
				2-CL	10655	2	0	2	96.3	11139	2	0	2	100.7	11587	2	0	2	104.7
				3-CL	10324	2	0	2	93.3	10794	2	0	2	97.5	11227	2	0	2	101.5
				4W-CL	10323	1	0	3	93.3	10792	1	0	3	97.5	11226	1	0	3	101.4
				1-CL-HS	6557	0	0	0	59.2	6855	0	0	0	61.9	7131	0	0	0	64.4
				2-CL-HS	5306	0	0	1	47.9	5547	0	0	1	50.1	5770	0	0	1	52.1
				3-CL-HS	5091	0	0	1	46.0	5323	0	0	1	48.1	5537	0	0	1	50.0
				4W-CL-HS	5100	0	0	1	46.1	5332	1	0	1	48.2	5546	1	0	2	50.1
				5Q-CL	10795	3	0	1	97.5	11286	3	0	1	102.0	11739	3	0	1	106.1
				5W-CL	10115	3	0	2	91.4	10575	3	0	2	95.6	11000	4	0	2	99.4
			Diffused	3-DL	7798	2	0	1	70.4	8153	2	0	2	73.6	8481	2	0	2	76.6
				5W-DL	7640	2	0	1	69.0	7988	3	0	1	72.2	8309	3	0	1	75.1
	500	14000	None	1	13600	1	0	1	117.7	14218	2	0	1	123.0	14790	2	0	1	128.0
				2	12796	2	0	2	110.7	13377	2	0	2	115.7	13915	2	0	2	120.4
				3	12398	2	0	3	107.3	12962	2	0	3	112.2	13483	2	0	3	116.7
				4W	12397	2	0	3	107.3	12961	2	0	3	112.1	13482	2	0	3	116.7
				1-HS	7874	0	0	0	68.1	8232	0	0	0	71.2	8563	0	0	0	74.1
				2-HS	6372	0	0	1	55.1	6661	0	0	1	57.6	6929	0	0	1	60.0
				3-HS	6114	0	0	1	52.9	6392	0	0	2	55.3	6649	0	0	2	57.5
				4W-HS	6124	1	0	2	53.0	6403	1	0	2	55.4	6660	1	0	2	57.6
				5Q	12964	3	0	1	112.2	13553	3	0	1	117.3	14097	3	0	2	122.0
				5W	12147	4	0	2	105.1	12699	4	0	2	109.9	13210	4	0	2	114.3
			Clear	1-CL	11718	1	0	1	101.4	12250	1	0	1	106.0	12743	1	0	1	110.3
				2-CL	11025	2	0	2	95.4	11526	2	0	2	99.7	11989	2	0	2	103.7
				3-CL	10682	2	0	2	92.4	11168	2	0	2	96.6	11617	2	0	2	100.5
				4W-CL	10681	1	0	3	92.4	11167	1	0	3	96.6	11616	2	0	3	100.5
				1-CL-HS	6784	0	0	0	58.7	7093	0	0	0	61.4	7378	0	0	0	63.8
				2-CL-HS	5490	0	0	1	47.5	5739	0	0	1	49.7	5970	0	0	1	51.7
				3-CL-HS	5268	0	0	1	45.6	5507	0	0	1	47.7	5729	0	0	1	49.6
				4W-CL-HS	5277	1	0	1	45.7	5517	1	0	2	47.7	5738	1	0	2	49.7
				5Q-CL	11169	3	0	1	96.6	11677	3	0	1	101.0	12146	3	0	1	105.1
				5W-CL	10466	3	0	2	90.6	10942	4	0	2	94.7	11381	4	0	2	98.5
			Diffused	3-DL	8069	2	0	2	69.8	8436	2	0	2	73.0	8775	2	0	2	75.9
				5W-DL	7905	3	0	1	68.4	8265	3	0	1	71.5	8597	3	0	1	74.4

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

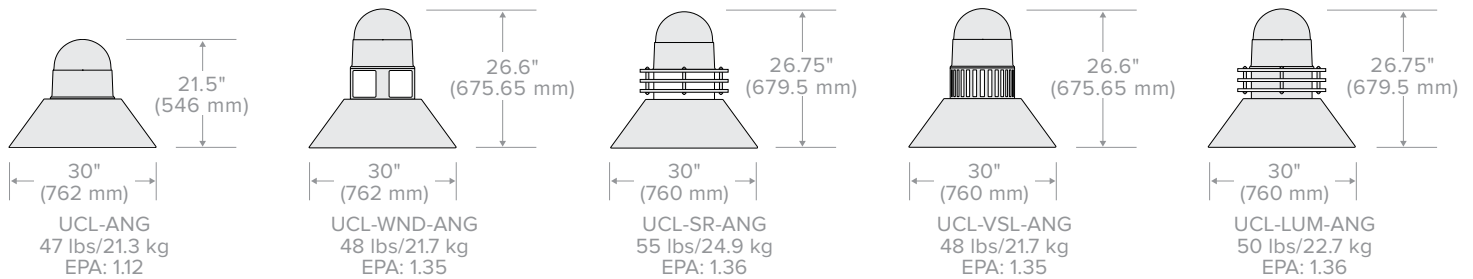
DELIVERED LUMENS (CONTINUED)

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.

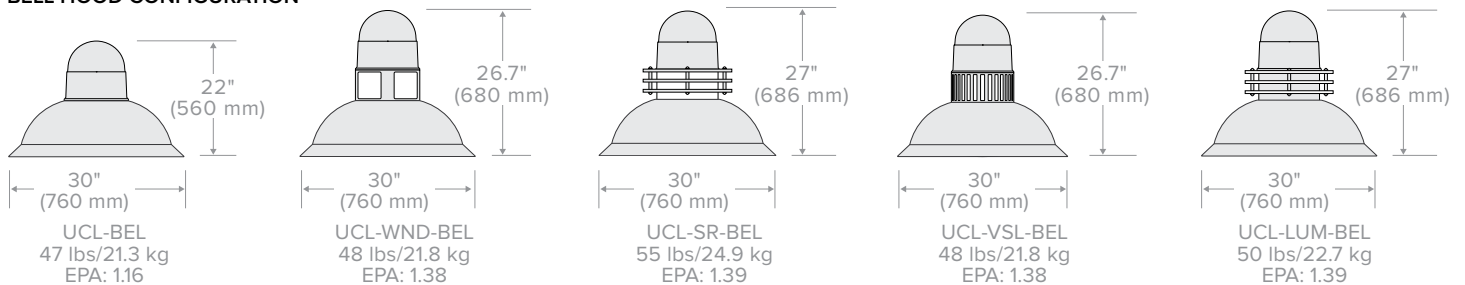
LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
72	700	19000	None	1	17947	2	0	1	111.9	18762	2	0	1	117.0	19516	2	0	1	121.7
				2	16885	2	0	2	105.3	17652	2	0	2	110.1	18362	3	0	3	114.5
				3	16361	2	0	3	102.0	17104	2	0	3	106.6	17792	2	0	3	110.9
				4W	16359	2	0	4	102.0	17103	2	0	4	106.6	17790	2	0	4	110.9
				1-HS	10391	0	0	0	64.8	10863	1	0	0	67.7	11300	1	0	1	70.4
				2-HS	8408	1	0	1	52.4	8790	1	0	1	54.8	9144	1	0	1	57.0
				3-HS	8068	1	0	2	50.3	8435	1	0	2	52.6	8774	1	0	2	54.7
				4W-HS	8082	1	0	2	50.4	8449	1	0	2	52.7	8789	1	0	2	54.8
				5Q	17106	4	0	2	106.6	17884	4	0	2	111.5	18603	4	0	2	116.0
			5W	16029	4	0	2	99.9	16758	4	0	2	104.5	17431	4	0	2	108.7	
			Clear	1-CL	15463	2	0	1	96.4	16166	2	0	1	100.8	16815	2	0	1	104.8
				2-CL	14548	2	0	2	90.7	15209	2	0	2	94.8	15821	2	0	2	98.6
				3-CL	14096	2	0	3	87.9	14737	2	0	3	91.9	15330	2	0	3	95.6
				4W-CL	14095	2	0	3	87.9	14736	2	0	3	91.9	15328	2	0	3	95.6
				1-CL-HS	8953	0	0	0	55.8	9359	0	0	0	58.4	9736	0	0	0	60.7
				2-CL-HS	7244	1	0	1	45.2	7574	1	0	1	47.2	7878	1	0	1	49.1
				3-CL-HS	6951	0	0	2	43.3	7267	1	0	2	45.3	7559	1	0	2	47.1
				4W-CL-HS	6963	1	0	2	43.4	7280	1	0	2	45.4	7572	1	0	2	47.2
				5Q-CL	14739	3	0	2	91.9	15409	4	0	2	96.1	16028	4	0	2	99.9
			5W-CL	13811	4	0	2	86.1	14438	4	0	2	90.0	15019	4	0	2	93.6	
			Diffused	3-DL	10648	2	0	2	66.4	11132	2	0	2	69.4	11579	2	0	2	72.2
				5W-DL	10432	3	0	2	65.0	10906	3	0	2	68.0	11344	3	0	2	70.7

DIMENSIONS

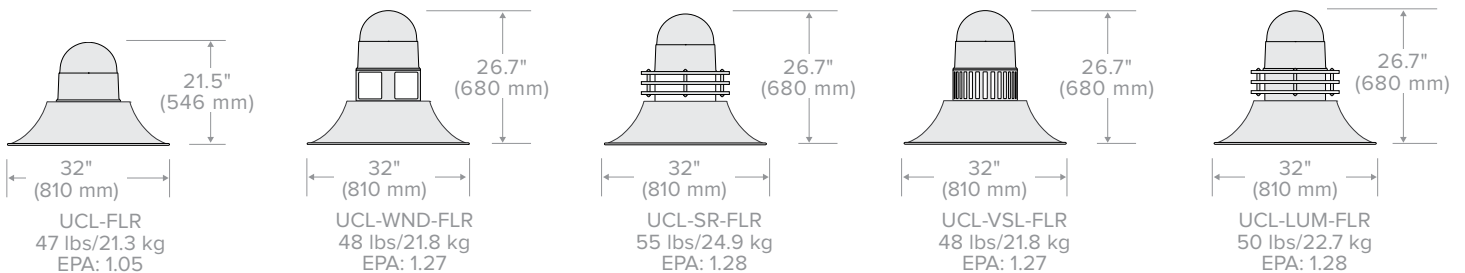
ANGLED HOOD CONFIGURATION



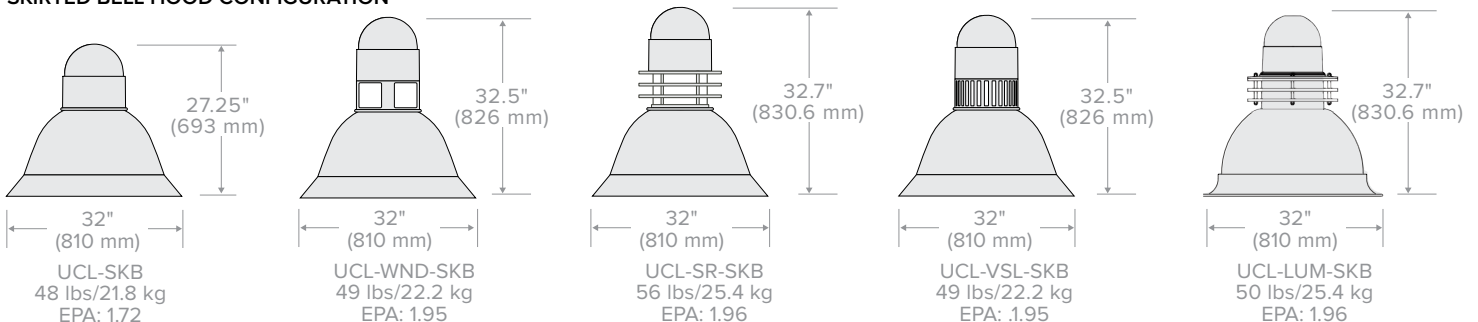
BELL HOOD CONFIGURATION



FLARE HOOD CONFIGURATION



SKIRTED BELL HOOD CONFIGURATION



PHOTOMETRY

UCL2-ANG-72L-700-4K7-1

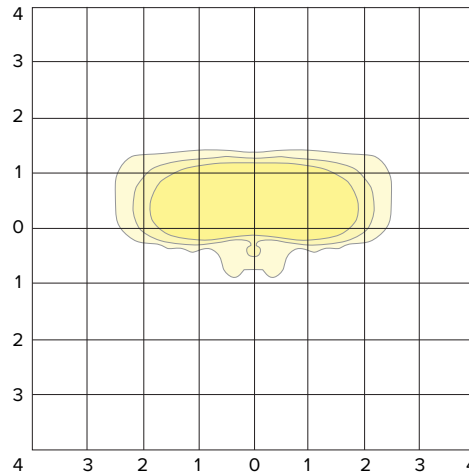
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	18,762
Watts	160.4
Efficacy	117.0
IES Type	I
BUG Rating	B2-U0-G1
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	16473	88%
Downward House Side	2289	12%
Downward Total	18762	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18762	100%

ISOFOOT CANDLE PLOT



UCL2-ANG-72L-700-4K7-2

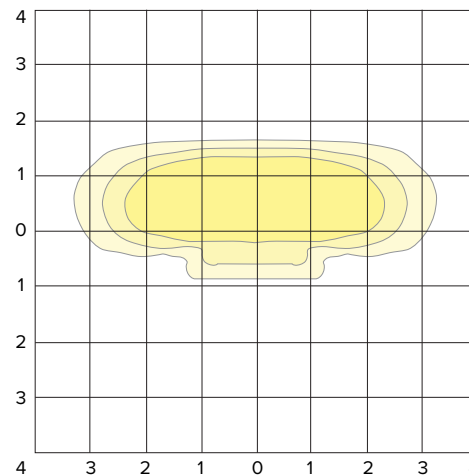
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	17,652
Watts	160.4
Efficacy	110.0
IES Type	II
BUG Rating	B2-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14521	82%
Downward House Side	3131	18%
Downward Total	17652	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17652	100%

ISOFOOT CANDLE PLOT



UCL2-ANG-72L-700-4K7-3

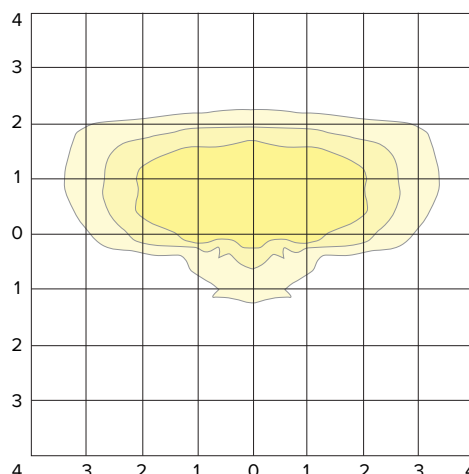
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	17105
Watts	160.4
Efficacy	106.6
IES Type	III
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14403	84%
Downward House Side	2702	16%
Downward Total	17105	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17105	100%

ISOFOOT CANDLE PLOT



PHOTOMETRY

UCL2-ANG-72L-700-4K7-4W

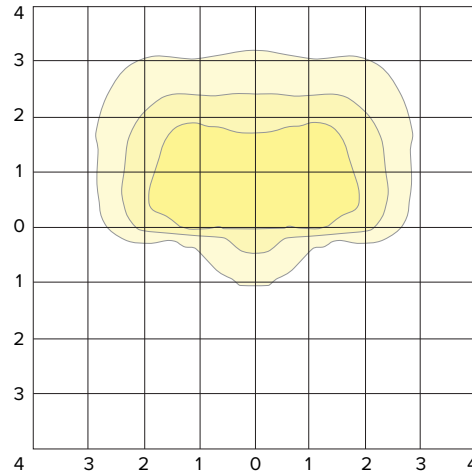
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	17103
Watts	160.4
Efficacy	106.6
IES Type	IV Wide
BUG Rating	B2-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14997	88%
Downward House Side	2106	12%
Downward Total	17103	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17103	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

UCL2-ANG-72L-700-4K7-5Q

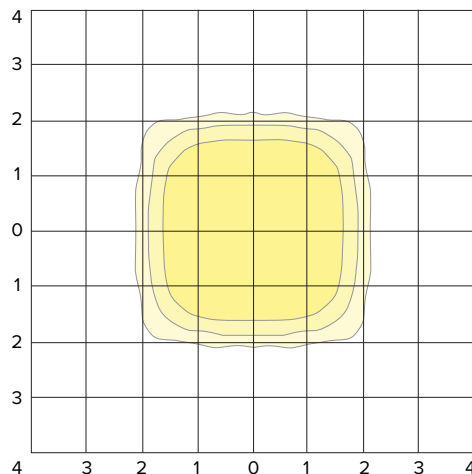
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	17884
Watts	160.4
Efficacy	111.5
IES Type	VS
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8942	50%
Downward House Side	8942	50%
Downward Total	17884	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17884	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

UCL2-ANG-72L-700-4K7-5W

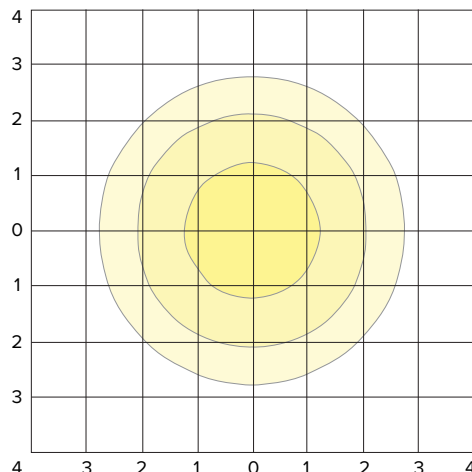
LUMINAIRE DATA

Description	4000 Kelvin, 70CRI
Delivered Lumens	16758
Watts	160.4
Efficacy	104.5
IES Type	VS
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8379	50%
Downward House Side	8379	50%
Downward Total	16758	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	16758	100%

ISOFOOT CANDLE PLOT

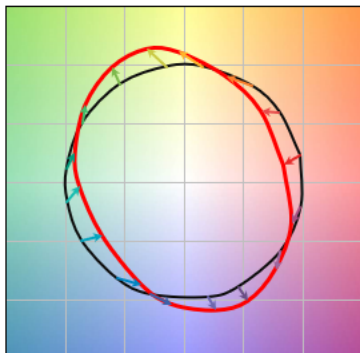


30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

TM-30 DATA

COLOR VECTOR GRAPHIC

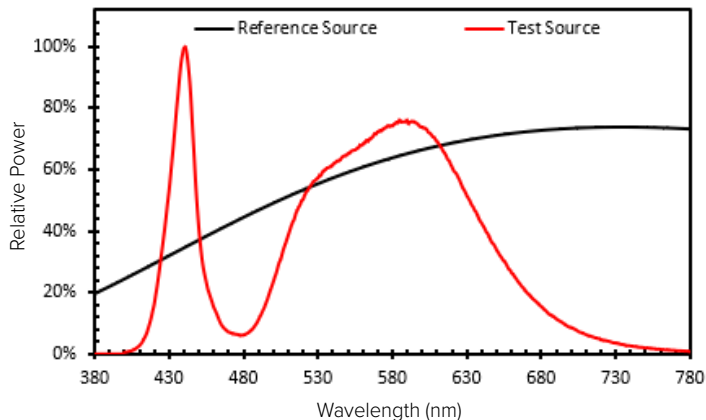


— Reference Illuminant — Test Source

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
72	310 mA	69.9	120-480	50/60	0.58	0.34	0.29	0.25	0.20	0.15	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	335 mA	75.7			0.63	0.36	0.32	0.27	0.22	0.16							
	480 mA	110.7			0.92	0.53	0.46	0.40	0.32	0.23							
	500 mA	115.6			0.96	0.56	0.48	0.42	0.33	0.24							
	700 mA	160.4			1.34	0.77	0.67	0.58	0.46	0.33							

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%	95.5%	90.7%	> 60,000

AMBER MULTIPLIER	
CCT	MULTIPLIER
5000K	1
AM	0.1727

2700K MULTIPLIER	
CCT	MULTIPLIER
5000K	1
2700K	0.897

LENS OPTION MULTIPLIER	
CLEAR LENS	DIFFUSED LENS
0.8615	0.7098

ADDITIONAL INFORMATION

PHOTOCELL / EGRESS ADAPTERS

- 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.
- 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.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

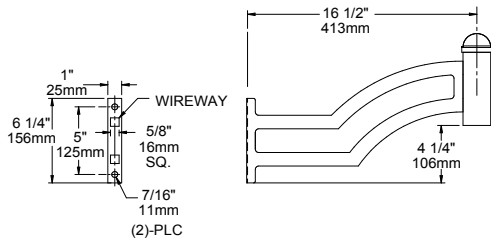
ADDITIONAL INFORMATION CONTINUED

MOUNTING POLE OPTIONS

SLA2-D

WT: 6 LBS

EPA: .30

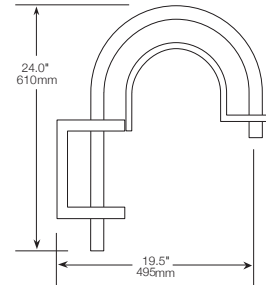


4" POLE

SLA3

WT: 8 LBS

EPA: .77

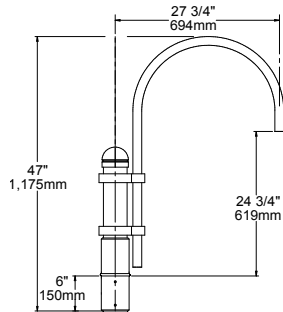


4" POLE

SLA4

WT: 14 LBS

EPA: 1.39

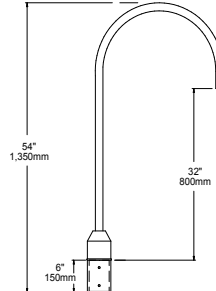


4" POLE

SLA7

WT: 9 LBS

EPA: 1.34

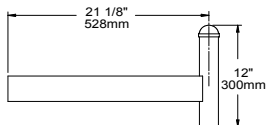


4" POLE

SLA8D

WT: 5 LBS

EPA: .40

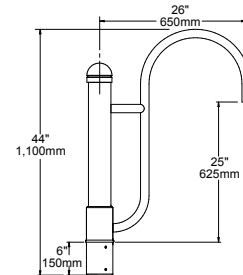


4" OR 5" POLE

SLA9

WT: 18 LBS

EPA: 1.90

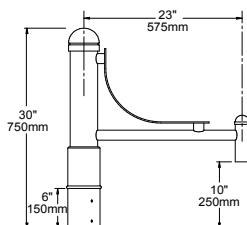


4" POLE

SLA10

WT: 9 LBS

EPA: 1.09

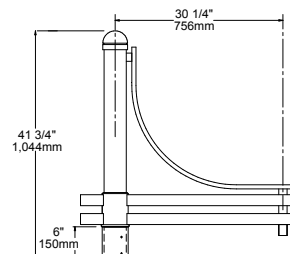


4" POLE

SLA16

WT: 18 LBS

EPA: 2.88



4" POLE

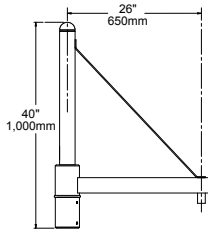
ADDITIONAL INFORMATION CONTINUED

MOUNTING POLE OPTIONS

SLA17

WT: 18 LBS

EPA: 1.50

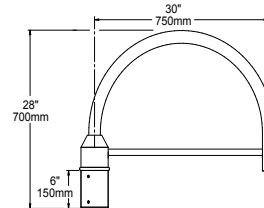


4" POLE

SLA18

WT: 12 LBS

EPA: .85

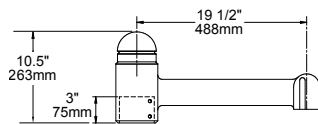


4" POLE

SLA20

WT: 10 LBS

EPA: .70

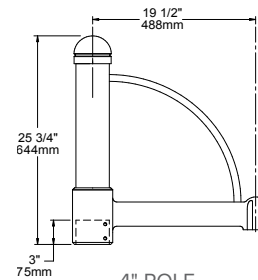


4" POLE

SLA20A

WT: 15 LBS

EPA: 1.30

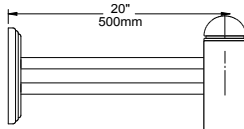


4" POLE

SLA22D

WT: 4 LBS

EPA: .44

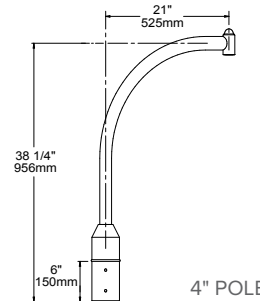


4" POLE

SLA24

WT: 9 LBS

EPA: .85

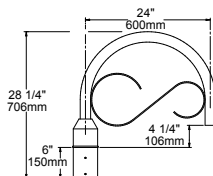


4" POLE

TRA7

WT: 12 LBS

EPA: .90

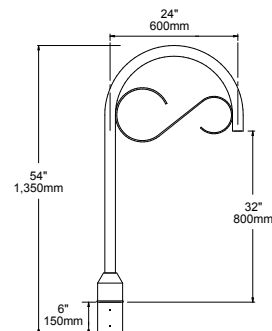


4" POLE

TRA8

WT: 13 LBS

EPA: 1.34



4" POLE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

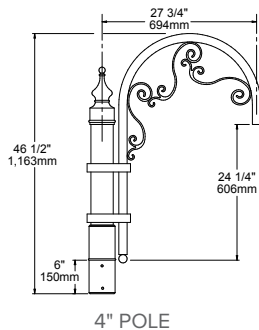
ADDITIONAL INFORMATION CONTINUED

MOUNTING POLE OPTIONS

TRA9

WT: 17 LBS

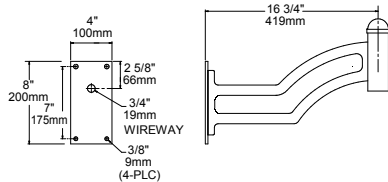
EPA: 1.90



MOUNTING WALL OPTIONS

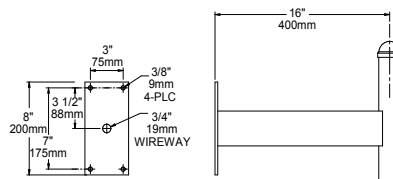
WMA5

WT: 6 LBS



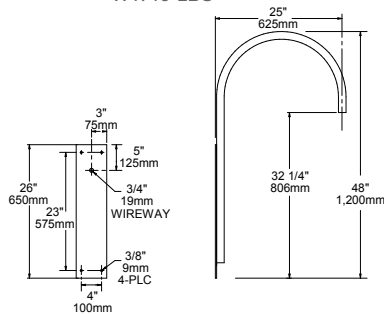
WMA9D

WT: 6 LBS



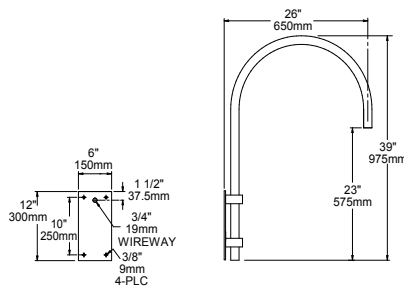
WMA11

WT: 10 LBS



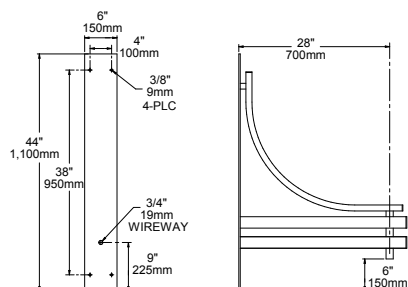
WMA12

WT: 12 LBS



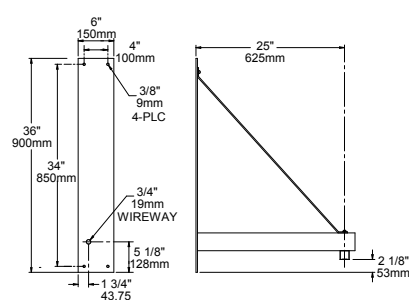
WMA16

WT: 22 LBS



WMA17

WT: 15 LBS

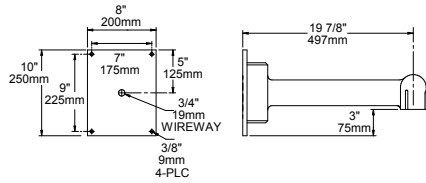


ADDITIONAL INFORMATION CONTINUED

MOUNTING WALL OPTIONS

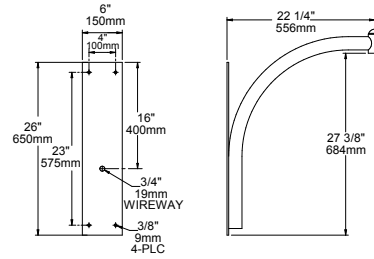
WMA20

WT: 12 LBS



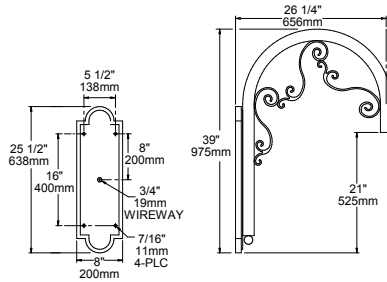
WMA24

WT: 12 LBS

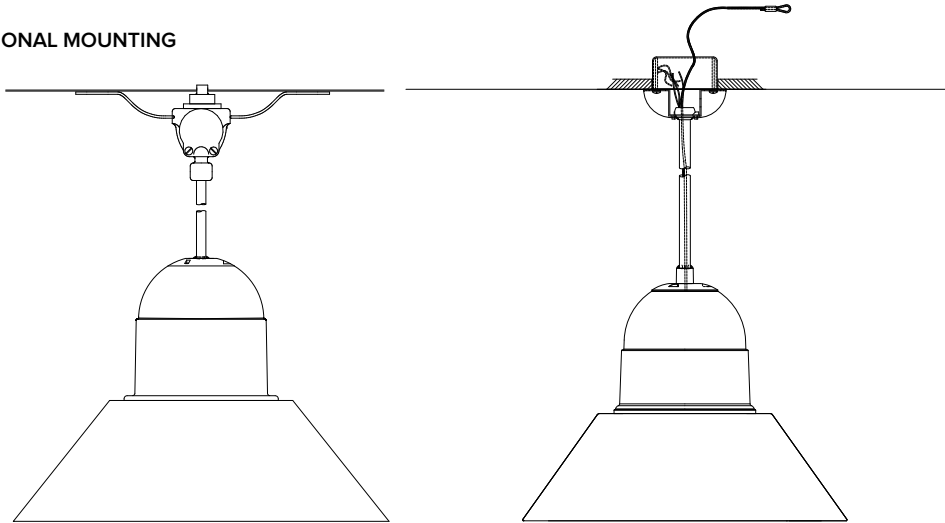


WMA39

WT: 14 LBS



OPTIONAL MOUNTING



* Catenary Mount

* Pendant Mount

* Contact factory for more information