

FEATURES

- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- Upgrade Kits ⁵



3000K and warmer CCTs only

CONTROL TECHNOLOGY

wISCAPE™

SPECIFICATIONS

CONSTRUCTION

- All internal and external hardware are stainless steel
- Luminaire finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- 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
- House Side Shield is available on Standard and Clear Lens options, except any Type 5 distribution. Consult Factory if the House Side Shield option is desired, in configurations that are not standard.

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.

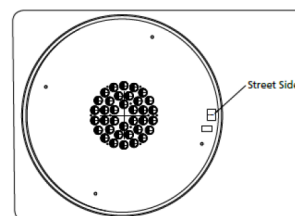
ELECTRICAL

- 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

UNIVERSE®



Universe Medium LED Deck



Align Deck assembly as shown, make sure street side label is pointing towards the correct direction.

CERTIFICATIONS

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

WARRANTY

- 5 year warranty

KEY DATA	
LUMEN RANGE	1,821-9,336
WATTAGE RANGE	32-72
EFFICACY RANGE (LPW)	55-139
INPUT CURRENT RANGE (mA)	260/420/615 mA
OPERATING TEMPERATURE	-40°C to 55°C
CCT (*Consult factory for availability)	580-590nm Monochromatic Amber, 2700*, 3000K, 4000K, 5000K
CRI (*Consult factory for availability of 80 & 90 CRI)	70, 80* & 90*
SURGE PROTECTION	10KV/5KA
FINISH	Minimum 2.0 mil Thickness

UCM2-LK

LED UPGRADE KIT

HOUSING

Example: UCM2-LK-UPLT-ANG-36L-615-3K7-3-HS-BLS-SCP-20F-SF-UNV

UCM2-LK						
Housing/Luminous Element		LED Quantity	Lumen Output	CCT/CRI	Distribution	
UCM2-LK ⁶	Universe Medium Upgrade Kit	36L 36 LED	260 260mA,32W,1800-4300 Lumens	AMB ¹ 580nm-590nm Monochromatic Amber	1	Type I
			325 325mA,40W,2200-5300 Lumens		2	Type II
UCM2-LK-UPLT ⁶	Universe Medium Upgrade Kit - Downlight with uplight for fixtures with luminous elements. Adds 4 watts to the fixture. additional 4 watts		420 420mA,50W,2800-6700 Lumens	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.	3	Type III
			460 460mA,55W,3000-7200 Lumens		4W	Type IV Wide
			615 615mA,72W,3900-9300 Lumens		5Q ³	Type V Square
					5W ³	Type V Wide
Existing Hood Style			Equivalent 36L-325mA=32LED-450mA 36L-460mA=32LED-700mA			
ANG	Angled Hood					
BEL	Bell Hood					
FLR	Flared Hood					
SKB	Skirted Bell Hood					
STR	Straight Hood					
				27K8 ² 2700K, 80 CRI		
				27K9 ² 2700K, 90 CRI		
				3K8 ² 3000K, 80 CRI		
				3K9 ² 3000K, 90 CRI		
				4K8 ² 4000K, 80 CRI		
				4K9 ² 4000K, 90 CRI		
				5K8 ² 5000K, 80 CRI		
				5K9 ² 5000K, 90 CRI		

Existing Lens Style	Optional Shield	Finish	Optional Controls	Optional Fuse	Voltage
CL Clear Lens	HS ³ House Side Shield Backlight Control is only available with T1, T2, T3, T4W.	BLS Black Gloss Smooth	WIR wiSCAPE Connectivity	SF Single Fuse, 120 or 277 Volt	UNV 120-277V
DL ⁴ Diffused Lens Choose One (if applicable)		BLT Black Matte Textured	WIRSC wiSCAPE Connectivity with Sensor	DF Double Fuse, 208 or 240 Volt	347V 347 Volt
		DBS Dark Bronze Gloss Smooth	SCP-8F Sensor Control to 8' Mounting Height		480V 480 Volt
		DBT Dark Bronze Matte Textured	SCP-20F Sensor Control 9' to 20' Mounting Height		
		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 ² Custom Color			

Notes:

- 1 Wildlife Friendly
- 2 Additional Charges and lead time apply.
- 3 Backlight Control is only available with T1, T2, T3 and T4W distributions.
- 4 Diffused Lens is only available with T3 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.
- 5 Consult factory for custom color, marine and corrosive resistant finish options
- 6 UCM2-LK LED Kits are compatible with UCM fixture housings manufactured from 2001 to present.

CONTROLS

wiSCAPE™:

Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.



wiSCAPE Reference									
wiSCAPE Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth App Programming	Commissioning
Networked – Wireless									
WIR	WIR-RMI-IO	Yes	Yes	No	Yes	Yes	Yes	wiSCAPE Gateway	On-site
WIRSC	WIR-RMI-IO with Motion Sensor	Yes	Yes	Yes	Yes	Yes	Yes	wiSCAPE Gateway	On-site

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	2200-5300	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
			Clear	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
				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
			Diffused	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
				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	2800-6700	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	3000-7200	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	3900-9300	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

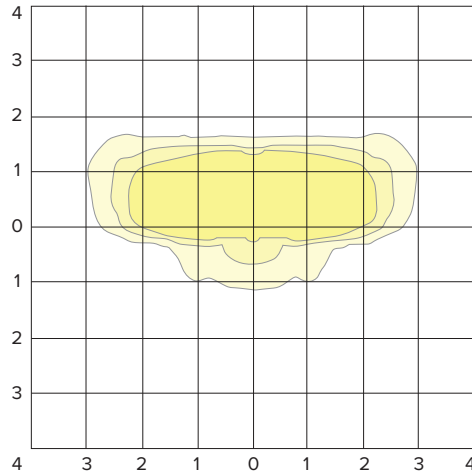
LUMINAIRE DATA

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

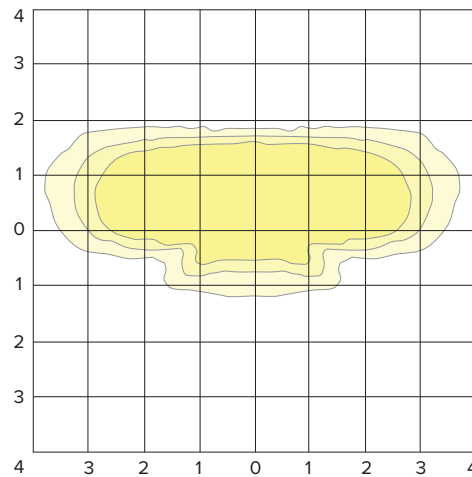
LUMINAIRE DATA

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

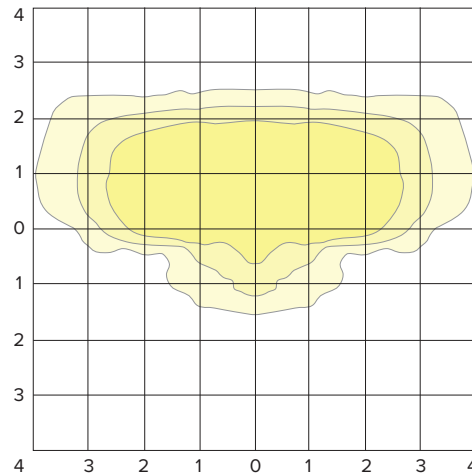
LUMINAIRE DATA

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

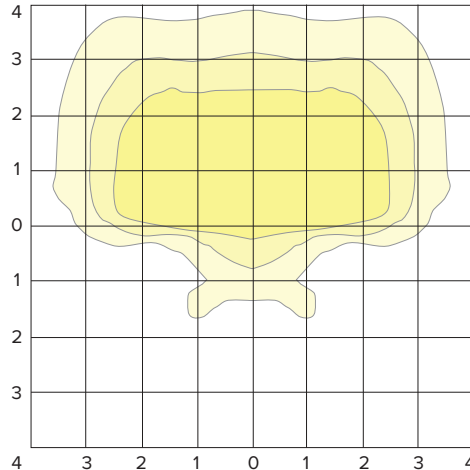
LUMINAIRE DATA

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

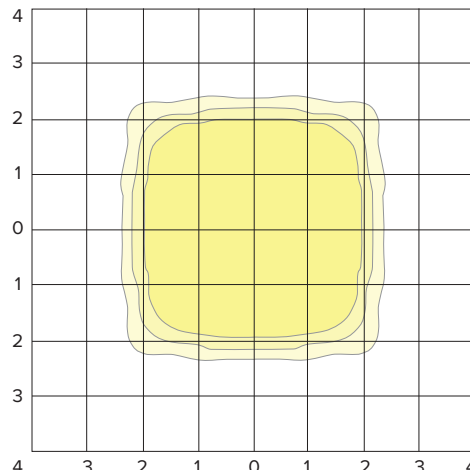
LUMINAIRE DATA

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

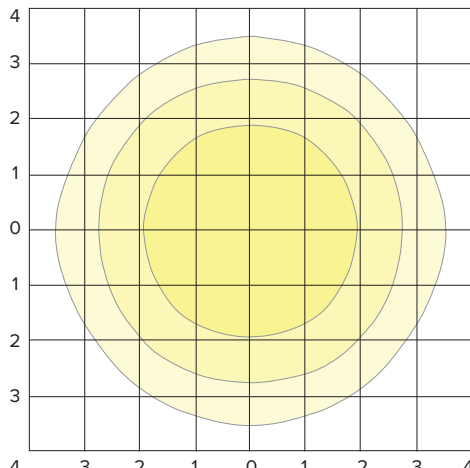
LUMINAIRE DATA

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



PHOTOMETRY

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

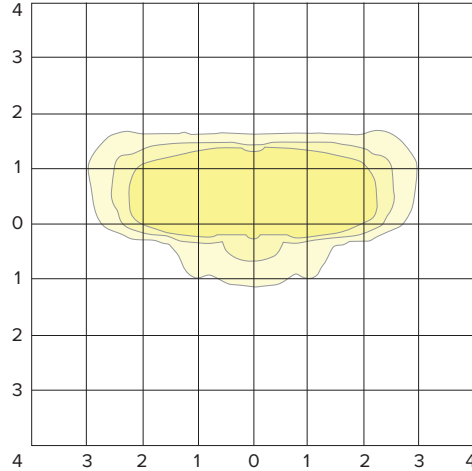
LUMINAIRE DATA

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

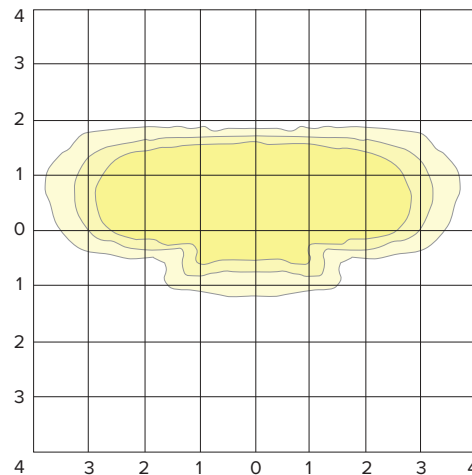
LUMINAIRE DATA

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

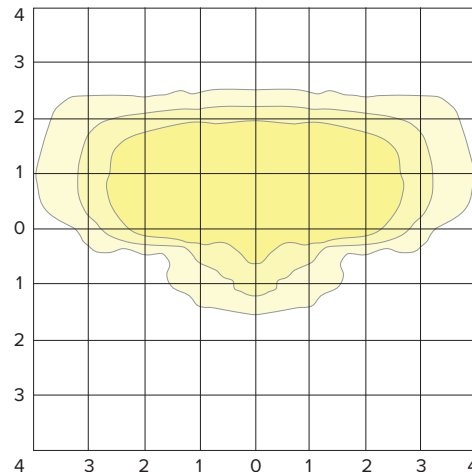
LUMINAIRE DATA

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

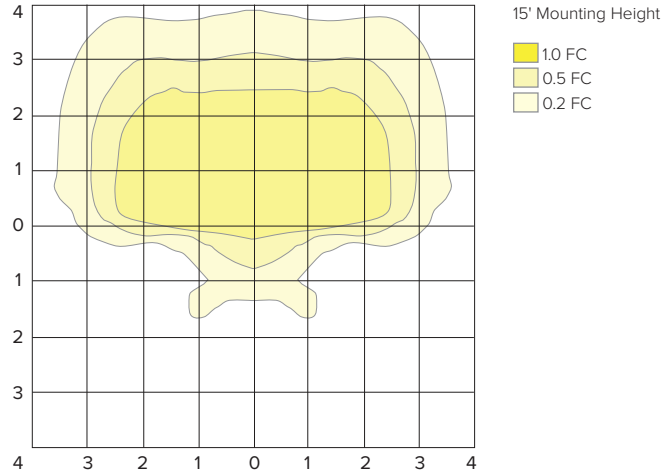
LUMINAIRE DATA

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

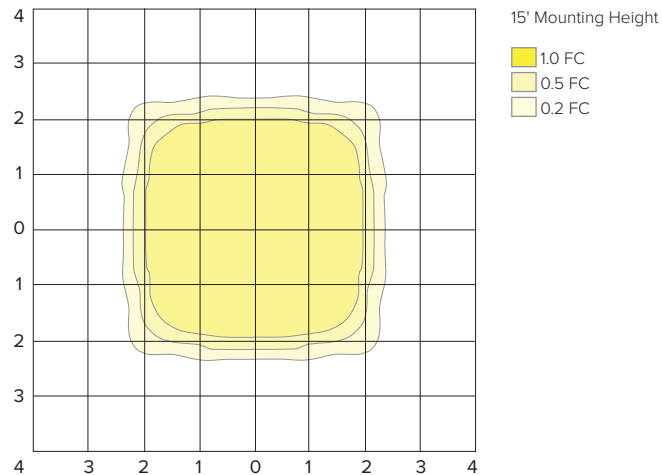
LUMINAIRE DATA

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

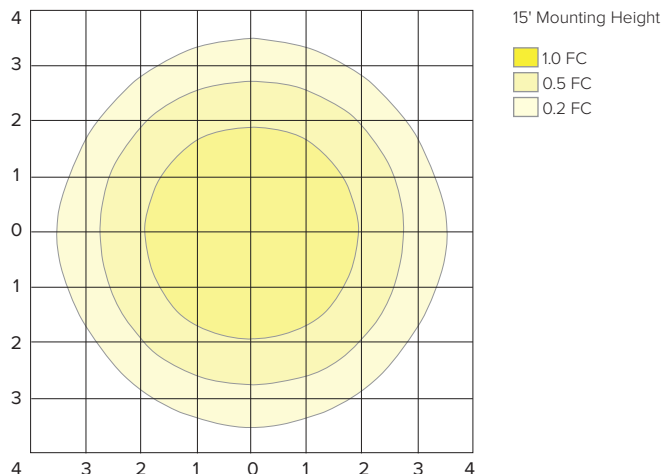
LUMINAIRE DATA

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

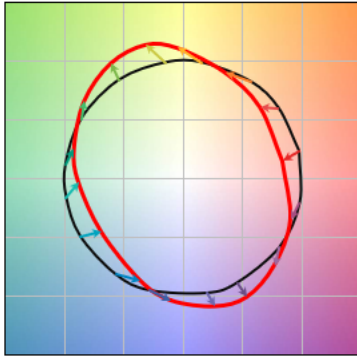
Zone	Lumens	% Luminaire
Downward Street Side	4174	50%
Downward House Side	4174	50%
Downward Total	8348	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8348	100%

ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

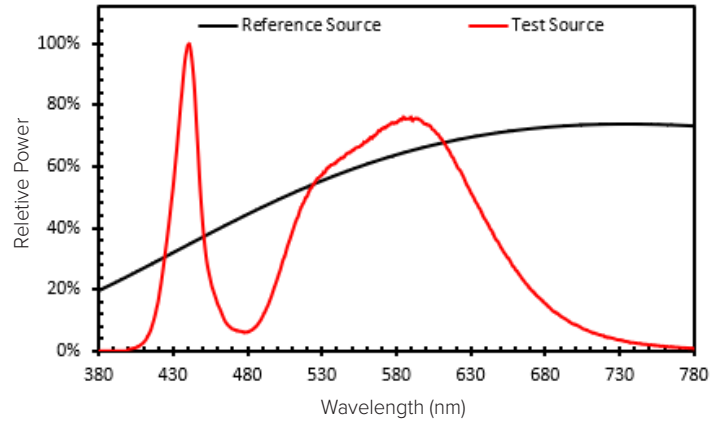


— Reference Illuminant — Test Source

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	580 - 590nm	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