KIM LIGHTING®

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

UR20 EDGE-LIT Post Top

ARCHITECTURAL AREA/SITE

Ouro™ EDGE-LIT

FEATURES

- 20” size in single/dual arm post top, pole and wall mount
- High performance optics up to 15,227 delivered lumens
- Elegant form factor
- Edge-Lit Light Guide
- NX lighting controls
- UL/cUL listed for wet locations, IP66 and 4G/1.5G vibration rated

c UL us LISTED

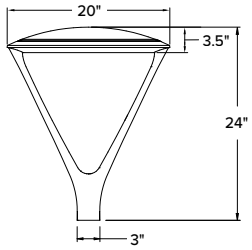
ida DARK SKY APPROVED 2016

IK07

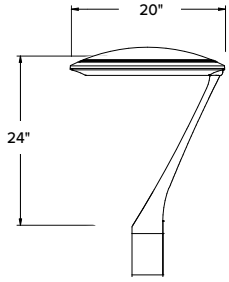
3000K and warmer CCTs only

CONTROL TECHNOLOGY

NX WIRELESS LIGHTGRID+



FM33



FMSA33/PTSA23
FMSA34, PTSA24, PTSA34

	Weight	EPA
UR20	24 lbs / 10.9 kg	0.512 ft.^{2}

SPECIFICATIONS

CONSTRUCTION

- Low copper aluminum alloy die-casting is designed as one-piece, low profile luminaire
- Molded silicone gasket throughout ensures the sealing between the two compartments and provides ingress protection
- Housing is designed with integral heat sink fins to aid in thermal transfer of the electrical component
- IK07 rated enclosure protects electrical equipment against external mechanical impacts
- All fasteners are stainless steel
- Cover is secured to lens frame by the latch and hinge
- One-piece low copper aluminum alloy die-cast lens frame is secured to housing with a tool-less latch and integral offset hinge
- LEDs mount to a metal printed circuit board assembly (MCPCB)

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

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed
- "Thermal Shield”, secondary side, thermistor provides protection for the sustainable life of LED module and electronic components

ELECTRICAL (CONTINUED)

- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C
- Surge protection: 10kV and 20kA in series
- Wiring: No. 18AWM rated 105°C, wet rating

CONTROLS

7PR

- Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

- Traditional on/off photoelectric control.
- 5-pin wireless photoelectric control for added dimming feature.
- 7-pin wireless photoelectric control for for dimming and additional I/O connections for customer use.

DIMMING

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry

(Specifications continued on page 5)

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ORDERING GUIDE

Example: UR20-96L-50-3K8-3-UNV-FMSA33-BLS-7PR

CATALOG #

HOUSING

UR20

Model	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
UR20 Ouro	**Type 2M and 3**	**3K7** 3000K, 70 CRI	**2M** [5] Type II Medium	**(Blank)** No rotation	**UNV** 120-277V	**FM33** Flush mt 3.0" OD pole, 3" fixture base
	96L-30 3,000 lm	**3K8** 3000K, 80 CRI	**3** [5] Type III Short		**347** 347V	**FM44** Flush mt 3.6" to 4.0" OD pole, 4" fixture base
	96L-50 5,000 lm	**3K9** 3000K, 90 CRI	**5W** [6] Type V Wide		**480** 480V	**PT23** 3" Post Top mount for 2-3/8" OD x 4" Long Tenon
	96L-70 7,000 lm	**4K7** 4000K, 70 CRI				**PT24** 4" Post Top mount for 2-3/8" OD x 4" Long Tenon
	96L-90 9,000 lm	**4K8** 4000K, 80 CRI				**PT34** 4" Post Top mount for 2-7/8" OD x 4" Long Tenon
	96L-135 12,000 lm	**5K7** 5000K, 70 CRI				**FMSA33** Solo Arm Post Top Flush Mount 3.0" OD Pole, 3" fixture base
	Type 5W	Consult factory for other CCTs and CRIs				**FMSA44** Solo Arm Post Top Flush Mount 3.6" to 4.0" OD Pole, 4" fixture base
	192L-30 3,000 lm					**PTSA23** 3" Solo Arm Post Top Mount for 2-3/8" OD x 4" Long Tenon
	192L-45 5,000 lm					**PTSA24** 4" Solo Arm Post Top Mount for 2-3/8" OD x 4" Long Tenon
	192L-60 7,000 lm					**PTSA34** 4" Solo Arm Post Top Mount for 2-7/8" OD x 4" Long Tenon
	192L-75 9,000 lm					
	192L-110 12,000 lm					
	192L-135 15,000 lm					

Fixture Finish	
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 [1]	Custom Color

Control Options	
7PR-TL	7 pin PCR with twist lock photocontrol
7PR-SC	7 pin PCR with shorting cap
7PR	7 pin PCR, wireless control enabled
AD-01 [2]	AstroDIM: 50% output at midnight
AD-02 [2]	AstroDIM: 50% output midnight to 4 AM
AD-03 [2]	AstroDIM: 50% output 10PM
AD-04 [2]	AstroDIM: 50% output 10PM to 4AM
NXW [8]	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor
WSP-40F	Dimming Occ. Sensor for up to 40' MH, 120-480V

Options	
SF	Single Fuse
DF	Double Fuse
TPL	Tamper Proof Latch
WBFM3	Wall Bracket Arm for FM33 or FMSA33
WBFM4	Wall Bracket Arm for FM44 or FMSA44
TAFM3 [7, 9]	Twin Arm mount for FM33 or FMSA33
TAFM4 [7, 9]	Twin Arm mount for FM44 or FMSA44

Control Accessories	
WIR-RME-L	LightGRID+™ External Fixture Module
NXOFM1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming

1 Consult factory for custom color, marine and corrosive finish options
2 Not available with other sensor or wireless control options.
4 Not available with 347V and 480V.
5 Only available with 96L.
6 Only available with 192L.
7 Pole requires 2-3/8"x 4" Long tenon
8 Not available with Solo Arm Post Top (FMSA/PTSA)
9 Order one for each pair of fixtures per pole.

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OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

LIGHTGRID+

NX LIGHTING CONTROLS MOBILE APP

	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		
NX Wireless	NXOFM1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	–		NXOFM-1R1D-UV
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO

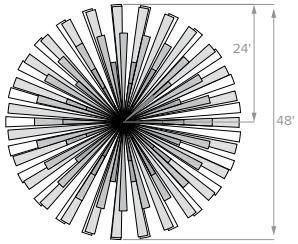
DEFAULT SETTINGS

NX Wireless	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0%
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	On
"Passcode Factory Passcode: HubbN3T!"	Enabled

Stand Alone	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	50%
Daylight Sensor	Disabled

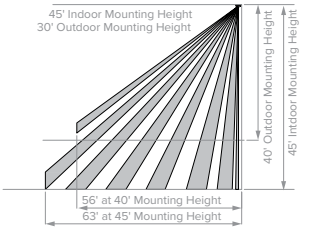
NX WIRELESS COVERAGE PATTERNS

NXSMP2-LMO



Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

NX LIGHTING CONTROLS FREE APP

The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminiares and program NX system settings.

Apple App: https://apps.apple.com/us/app/nx-lighting-controls/id962112904

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US

Apple App

Google Play

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

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OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

	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	AD	AutoDIM Time of Day Dimming	–	–	✓	–	–	–	✓	–	–		ADT
	7PR	7-Pin Receptacle	–	–	Paired with external control	–	Paired with external control	–	Paired with external control	–	–		7PR
	7PR-SC	7-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–		7PR-SC
	7PR-TL	7-Pin with photocontrol	–	–	–	–	✓	–	✓	–	–		7PR-TL

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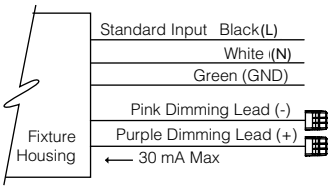
ARCHITECTURAL AREA/SITE

SPECIFICATIONS (CONTINUED)

CONTROLS (CONTINUED)

DIMMING (CONTINUED)

- Dimming circuitry compatible with 0-10V, user-defined control devices
- Optional factory programmed dimming profile



NX LIGHTING CONTROLS

NX lighting controls platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of reliability, scalability and simplicity

LightGRID+™

- LightGRID+™ wireless control modules allow an individual fixture to managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. LightGRID+™ modules provide on/off/dim control, external device input, alerts and metering

ASTRODIM

- AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times

OPTIONAL FUSING:

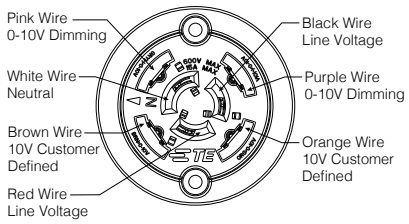
- SF for 120, 277, and 347 Line volts

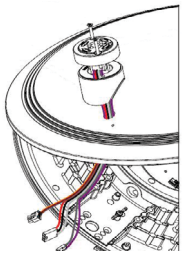
CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- ANSI C136.31-2010 Vibration tested and compliant 1.5G and 4G reference page 4
- IEC 66262 Mechanical Impact Code IK07
- IDA approved, 3000K and warmer CCTs only
- IP66 rated
- RoHS compliant

WARRANTY

- 5 year warranty





7-Pin receptacle placement

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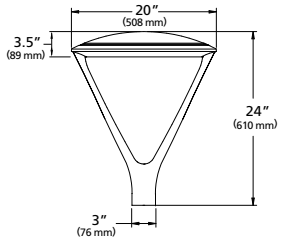
ARCHITECTURAL AREA/SITE

DIMENSIONS

FM33



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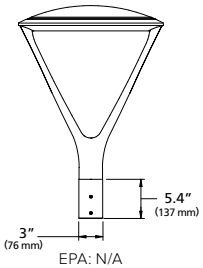
PT23



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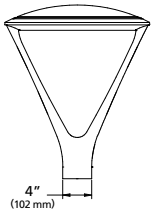
FM44



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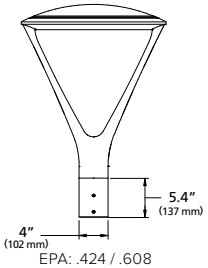
PT24 / PT34



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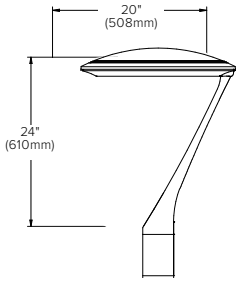
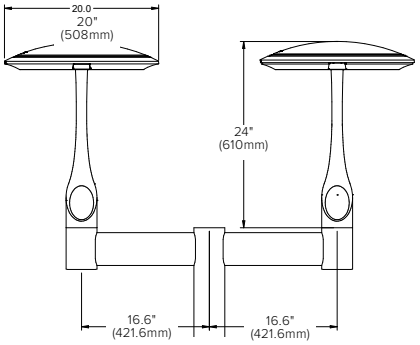
FMSA33/PTSA23
FMSA34, PTSA24, PTSA34

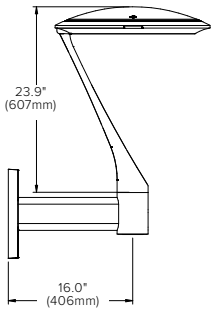


ARM	DIAMETER
FMSA33	3" diameter
FMSA44	4" diameter
PTSA23	3" diameter with Tenon mount
PTSA24	4" diameter with Tenon mount
PTSA34	4" diameter with tenon mount

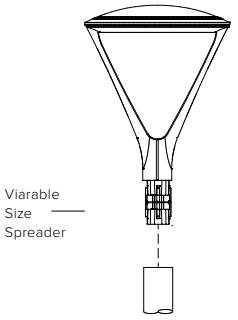
TAFM3/TAFM4



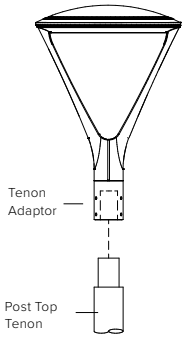
WBFM3/WBFM4



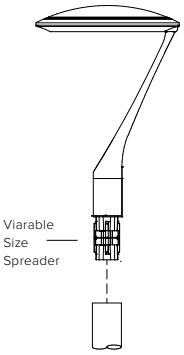
MOUNTING INSTALLATION



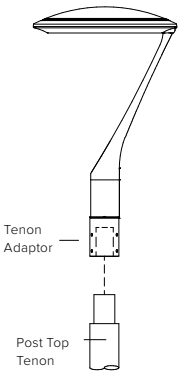
Flush Mount
FM33/44



Post Top
PT23/24/34

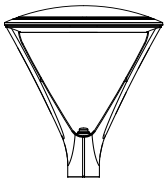


Flush Mount
FMSA33/34

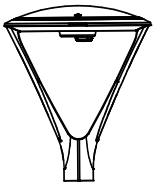


Post Top
PTSA23/24/34

SENSOR PLACEMENT



NXW



WSP-40F

MOUNTING VIBRATION RATINGS

UR 20 Arm		UR 20 Post Top		UR 20 Solo Arm	
Ordering Code	Rating	Ordering Code	Rating	Ordering Code	Rating
ASQ	4G	FM33	4G	FMSA33	1.5G
A34	4G	FM44	1.5G	FMSA44	1.5G
A46	4G	PT23	4G	PTSA23	1.5G
MAF	4G	PT24	4G	PTSA24	1.5G
		PT34	1.5G	PTSA34	1.5G

For the 4 G test, ANSI C136.31-2010 Vibration is tested to comply with Vibration Test Level 1 Normal Applications,
Vibration Test Level 2 Bridge/Overpass Applications, and Vibration Test Level 3

For the 1.5G test, ANSI C136.31-2010 Vibration is tested to comply with Vibration Level 1 Bridge/Overpass Applications

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DELIVERED LUMENS

LEDs #	Lumens Package	Drive Current (mA)	Nominal Watts	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
96L	3,000	350	30	Type 2M	2958	2	0	2	104.9	2995	2	0	2	106.2	3025	2	0	2	107.3
	5,000	600	50		4835	3	0	3	103.7	4896	3	0	3	105.1	4945	3	0	3	106.1
	7,000	870	70		6862	3	0	3	99.3	6949	3	0	3	100.6	7019	3	0	3	101.6
	9,000	1150	90		9050	3	0	3	100.3	9163	3	0	3	101.6	9256	3	0	3	102.6
	12,000	800	135		11696	4	0	4	84.6	11843	4	0	4	85.6	11963	4	0	4	86.5
	3,000	350	30	Type 3	3326	1	0	2	117.9	3368	1	0	2	119.4	3402	1	0	2	120.6
	5,000	600	50		5437	1	0	2	116.7	5505	1	0	2	118.1	5561	1	0	2	119.3
	7,000	870	70		7718	2	0	3	111.7	7815	2	0	3	113.1	7894	2	0	3	114.2
	9,000	1150	90		10178	2	0	3	112.8	10306	2	0	3	114.3	10410	2	0	3	115.4
	12,000	800	135		13154	3	0	4	95.1	13319	3	0	4	96.3	13454	3	0	4	97.3
192L	3,000	350	30	Type 5W	3273	2	0	2	119.0	3315	2	0	2	120.5	3348	2	0	2	121.7
	5,000	560	45		5191	3	0	2	117.7	5256	3	0	2	119.2	5309	3	0	2	120.4
	7,000	800	60		7343	3	0	3	122.0	7435	3	0	3	123.5	7510	3	0	3	124.8
	9,000	960	75		8753	3	0	3	118.9	8863	3	0	3	120.4	8953	3	0	3	121.6
	12,000	680	110		12204	4	0	3	114.6	12357	4	0	4	116.0	12482	4	0	4	117.2
	15,000	840	135		14887	4	0	4	109.8	15075	4	0	4	111.2	15227	4	0	4	112.3

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

UR20 EDGE-LIT Post Top

ARCHITECTURAL AREA/SITE

PHOTOMETRY

UR20-96L-50-4K7-2M-PT

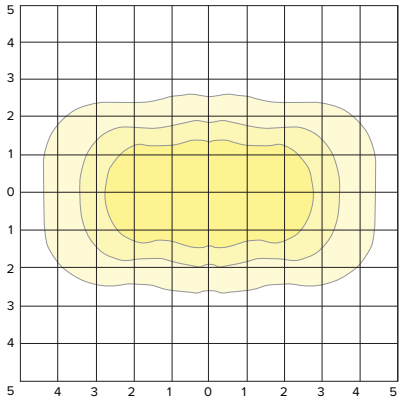
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**4896**
Watts	**46.6**
Efficacy	**105.1**
IES Type	**III**
BUG Rating	**B3-U0-G3**
Mounting Height	**15 ft**
Grid Scale	**10 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2448	50%
Downward House Side	2448	50%
Downward Total	4896	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	4896	100%

ISOFOOT CANDLE PLOT



UR20-96L-50-4K7-3-PT

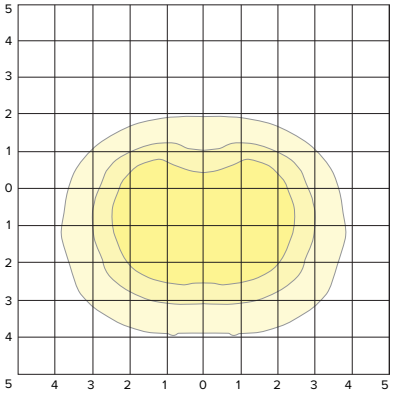
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**5505**
Watts	**46.6**
Efficacy	**118.1**
IES Type	**IV**
BUG Rating	**B1-U0-G2**
Mounting Height	**15 ft**
Grid Scale	**10 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4433	80%
Downward House Side	1072	20%
Downward Total	5505	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	5505	100%

ISOFOOT CANDLE PLOT



UR20-192L-75-4K7-5W-PT

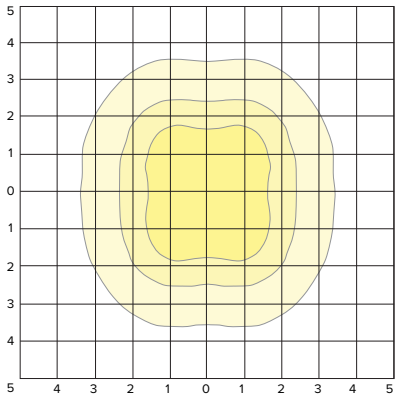
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**8863**
Watts	**73.6**
Efficacy	**120.4**
IES Type	**VS**
BUG Rating	**B3-U0-G3**
Mounting Height	**15 ft**
Grid Scale	**10 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4432	50%
Downward House Side	4432	50%
Downward Total	8863	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	8863	100%

ISOFOOT CANDLE PLOT



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KIM LIGHTING®

DATE: LOCATION:

TYPE: PROJECT:

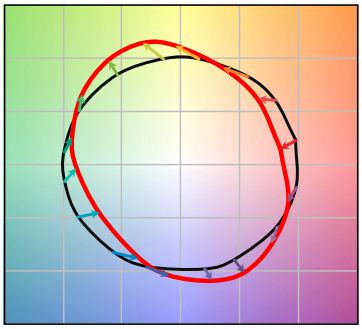
CATALOG #:

UR20 EDGE-LIT Post Top

ARCHITECTURAL AREA/SITE

TM-30 DATA

COLOR VECTOR GRAPHIC

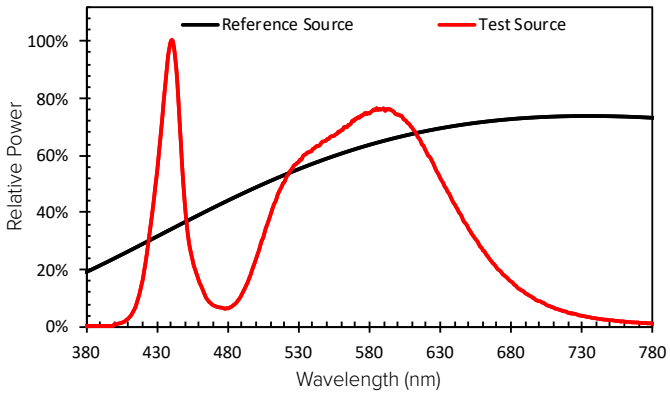


Reference Illuminant — Test Source

TEST SOURCE

R_f	68
R_g	99
CCT(K)	3947
D_{UV}	0.0004
x	0.3831
y	0.3793
CIE R_a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

Type 2M and 3													Dimming			
Drive Current (mA)	LED Count	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
350	96L	28.2	120-480	50/60	0.24	0.14	0.12	0.10	0.08	0.06	>0.9	20	10% to 100%	0mA	1mA	0V	10V
600		46.6			0.39	0.22	0.19	0.17	0.13	0.10							
870		69.1			0.58	0.33	0.29	0.25	0.20	0.14							
1150		90.2			0.75	0.43	0.38	0.33	0.26	0.19							
800*		138.3			1.15	0.66	0.58	0.50	0.40	0.29							

Type 5W													Dimming			
Drive Current (mA)	LED Count	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
350	192L	27.5	120-480	50/60	0.23	0.13	0.11	0.10	0.08	0.06	>0.9	20	10% to 100%	0mA	1mA	0V	10V
560		44.1			0.37	0.21	0.18	0.16	0.13	0.09							
800		60.2			0.50	0.29	0.25	0.22	0.17	0.13							
960		73.6			0.61	0.35	0.31	0.27	0.21	0.15							
680*		106.5			0.89	0.51	0.44	0.38	0.31	0.22							
840*		135.6			1.13	0.65	0.57	0.49	0.39	0.28							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
Ambient Temp.	0	25,000	36,000	50,000	100,000	Reported L70
25°C / 77°F	100%	93.6%	91.5%	89.0%	80.4%	60khrs

CRI Lumen Multiplier	
CCT	80 CRI
3000K	0.9408
4000K	0.9067

* Multiple drivers used for this output, drive current listed is per driver

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