

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

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
- SiteSync™ and NX wireless control options
- UL/cUL listed for wet locations, IP66 and 4G/1.5G vibration rated



CONTROL TECHNOLOGY



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

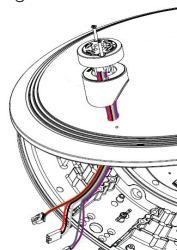
CONTROLS

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 receptacle placement

Ouro™
EDGE-LIT



Ouro Post Top

RELATED PRODUCTS

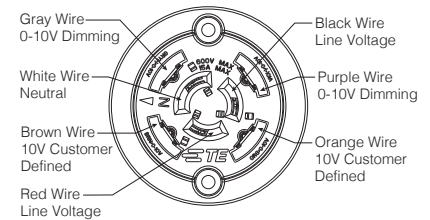
Ø [Ouro Small Arm Mount](#)

Ø [Ouro Large Post Top](#)

Ø [Ouro Large Arm Mount](#)

CONTROLS (CONTINUED)

- 7-pin wireless photoelectric control 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 3)

KEY DATA	
Lumen Range	2,958 - 15,227
Wattage Range	27.5 - 138.3 W
Efficacy Range (LPW)	84.6 - 124.8 lm/W
Reported Life (Hours)	L70/>60,000
Weight	24 lbs - 10.9 Kg
EPA	0.608

UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

ORDERING GUIDE

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

CATALOG #

HOUSING

UR20		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	Control Options	Options	Control Accessories
BLS Black Gloss Smooth	7PR-TL 7 pin PCR with twist lock photocontrol	SF Single Fuse	SW7PR SiteSync™ with 7 pin PCR ^{2,3}
BLT Black Matte Textured	7PR-SC 7 pin PCR with shorting cap	DF Double Fuse	SWUSB SiteSync™ Software on USB
DBS Dark Bronze Gloss Smooth	7PR 7 pin PCR, wireless control enabled	TPL Tamper Proof Latch	SWTAB SiteSync™ Windows Tablet
DBT Dark Bronze Matte Textured	AD-01 ² AstroDIM: 50% output at midnight	WBFM3 Wall Bracket Arm for FM33 or FMSA33	SWBRG SiteSync™ Wireless Bridge Node
GTT Graphite Matte Textured	AD-02 ² AstroDIM: 50% output midnight to 4 AM	WBFM4 Wall Bracket Arm for FM44 or FMSA44	WIR-RME-L wiSCAPE™ External Fixture Module
LGS Light Grey Gloss Smooth	AD-03 ² AstroDIM: 50% output 10PM	TAFM3 ^{7,9} Twin Arm mount for FM33 or FMSA33	NXOFM1R1D-UNV NX™ 7-pin Module
LGT Light Grey Matte Textured	AD-04 ² AstroDIM: 50% output 10PM to 4AM	TAFM4 ^{7,9} Twin Arm mount for FM44 or FMSA44	
PSS Platinum Silver Gloss Smooth	NXWE ⁸ NX Wireless™ Enabled		
VGT Verde Green Matte Textured	SWP ^{2,3,4,8} SiteSync™ Pre-commission		
WHS White Gloss Smooth	WSP-40F Dimming Occ. Sensor for up to 40' MH, 120-480V		
WHT White Matte Textured			
Color Option			
CC ¹ Custom Color			

1 Consult factory for custom color, marine and corrosive finish options
 2 Not available with other sensor or wireless control options.
 3 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
 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.

UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

SPECIFICATIONS (CONTINUED)

CONTROLS (CONTINUED)

DIMMING (CONTINUED)

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



WIRELESS CONTROLS SITESYNC™

- SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit [Sitesync's product page](#) for more details

NX DISTRIBUTED INTELLIGENCE™

- Hubbell Control Solutions' NX Distributed Intelligence™ lighting control 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

WISCAPE™

- Hubbell Control Solutions' wiSCAPE™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE 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
- 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](#)

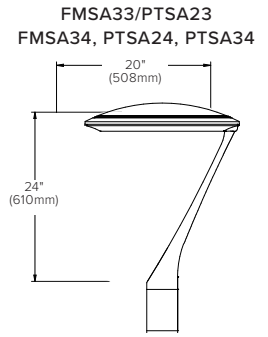
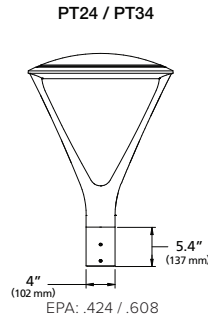
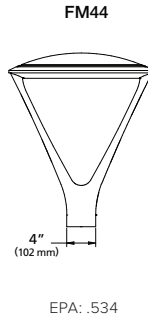
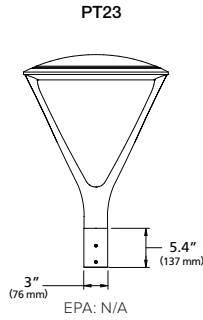
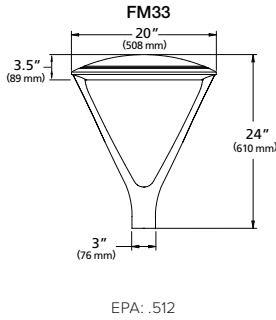
WARRANTY

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

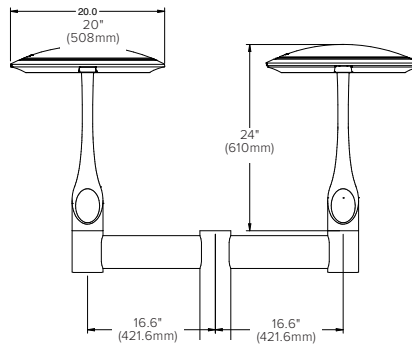
UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

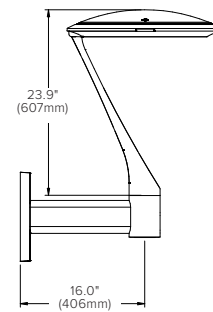
DIMENSIONS



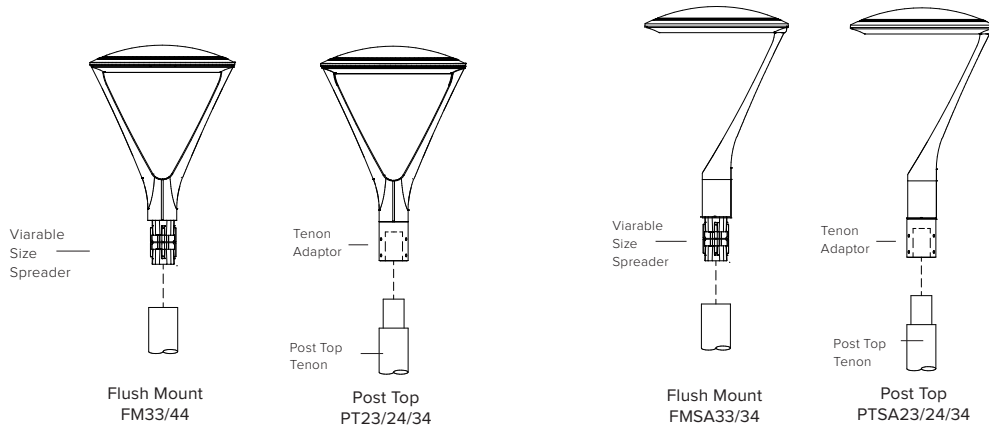
TAFM3/TAFM4



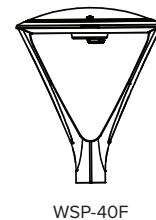
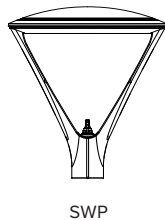
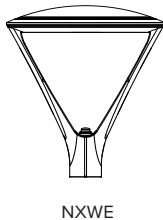
WBFM3/WBFM4



MOUNTING INSTALLATION



SENSOR PLACEMENT



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	FMSA34	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

UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

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

UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

PHOTOMETRY

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

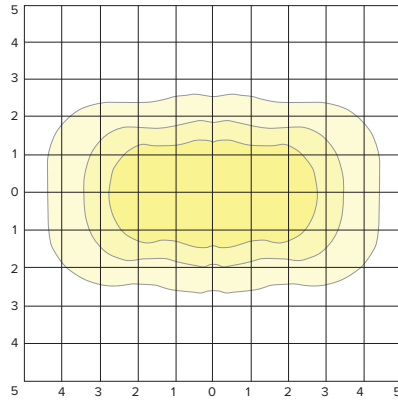
LUMINAIRE DATA

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

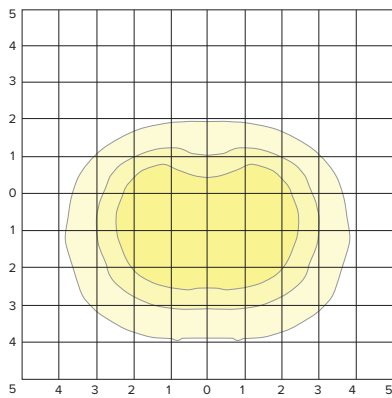
LUMINAIRE DATA

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

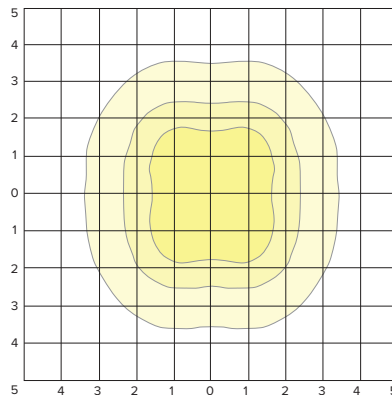
LUMINAIRE DATA

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

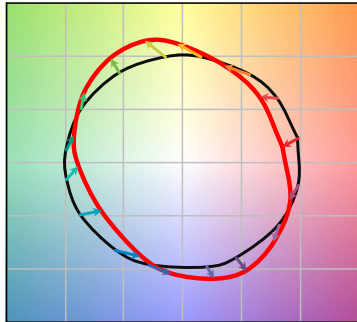


UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

TM-30 DATA

COLOR VECTOR GRAPHIC

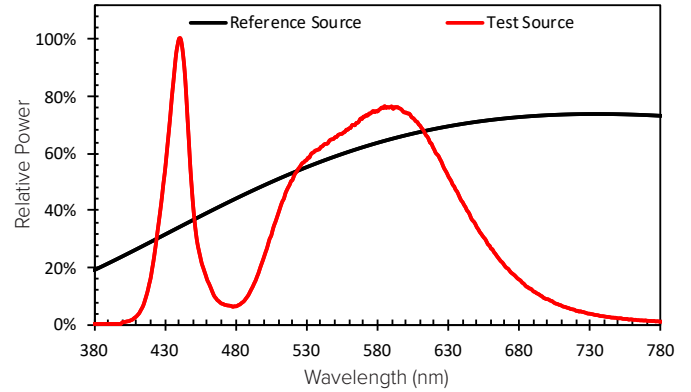


— Reference Illuminant — Test Source

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		0.39			0.22	0.19	0.17	0.13	0.10								
870		0.58			0.33	0.29	0.25	0.20	0.14								
1150		0.75			0.43	0.38	0.33	0.26	0.19								
800*		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		0.37			0.21	0.18	0.16	0.13	0.09								
800		0.50			0.29	0.25	0.22	0.17	0.13								
960		0.61			0.35	0.31	0.27	0.21	0.15								
680*		0.89			0.51	0.44	0.38	0.31	0.22								
840*		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