

FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 16,091 delivered lumens
- Elegant form factor
- Edge-Lit Light Guide
- NX wireless control options
- UL/cUL listed for wet locations, IP66 and 1.5G and 4G 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 components
- IK07 rated enclosure protects electrical equipment against external mechanical impacts
- All fasteners are stainless steel
- 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 $\pm 10\%$ 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

ELECTRICAL (CONTINUED)

- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- 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

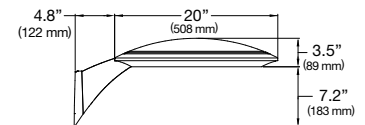
7PR

- 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

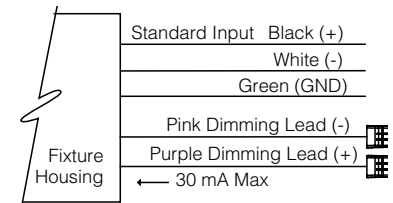
ouro™
EDGE-LIT



	Weight	EPA
UR20	21 lbs / 9.5 kg	0.372 ft. ²

CONTROLS (CONTINUED)

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 4)

UR20 Edge -Lit

ARCHITECTURAL AREA/SITE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: UR20-96L-50-3K8-3-L-UNV-ASQ-BL

CATALOG #

HOUSING

UR20						
Model	LED Engine	CCT	Distribution	Rotation	Voltage	Mounting
UR20	Ouro	Type 2M and 3	3K7 3000K, 70 CRI	2M ⁶ Type II Medium	Blank No rotation	UNV 120-277V
		96L-30 30W, 3,000 lm	3K8 3000K, 80 CRI	3 ⁶ Type III Short	L ¹ Optic rotation left	347 347V
		96L-50 50W, 5,000 lm	3K9 3000K, 90 CRI	5W ⁷ Type V Wide	R ¹ Optic rotation right	480 480V
		96L-70 70W, 7,000 lm	4K7 4000K, 70 CRI			A34 Arm mt 3.3-4.2" OD pole
		96L-90 90W, 9,000 lm	4K8 4000K, 80 CRI			A46 Arm mt 4.5-6.0" OD pole
		96L-135 135W, 12,000 lm	5K7 5000K, 70 CRI			MAF Horizontal Slip Fitter 2 3/8" OD arm
		Type 5W	Consult factory for other CCTs and CRIs			SVSF Square Vertical Slipfitter for 2" Tenon (2-3/8"OD)
		192L-30 30W, 3,000 lm				VSF Round Vertical Slipfitter for 2" Tenon (2-3/8"OD)
		192L-45 45W, 5,000 lm				WB Wall Bracket
		192L-60 60W, 7,000 lm				
		192L-75 75W, 9,000 lm				
		192L-110 110W, 12,000 lm				
		192L-135 135W, 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	WIR-RME-L LightGRID™ External Fixture Module
BLT Black Matte Textured	7PR-SC 7 pin PCR with shorting cap	DF Double Fuse	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
DBS Dark Bronze Gloss Smooth	7PR 7 pin PCR, wireless control enabled	TPL Tamper Proof Latch	
DBT Dark Bronze Matte Textured	AD-01 AstroDIM: 50% output at midnight ³		
GTT Graphite Matte Textured	AD-02 AstroDIM: 50% output midnight to 4 AM ³		
LGS Light Grey Gloss Smooth	AD-03 AstroDIM: 50% output 10PM ³		
LGT Light Grey Matte Textured	AD-04 AstroDIM: 50% output 10PM to 4AM ³		
PSS Platinum Silver Gloss Smooth	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor		
VGT Verde Green Matte Textured	WSP-40F Dimming Occ. Sensor for up to 40' MH, 120-480V		
WHS White Gloss Smooth			
WHT White Matte Textured			
Color Option			
CC	Custom Color ¹		

- 1 Not available with 5W distributions.
- 2 Consult factory for custom color, marine and corrosive finish options
- 3 Not available with other sensor or wireless control options
- 4 Not available with 347V and 480V.
- 5 Specify group and zone at time of order.
- 6 Only available with 96L.
- 7 Only available with 192L.

OUTDOOR LIGHTING CONTROLS OPTIONS

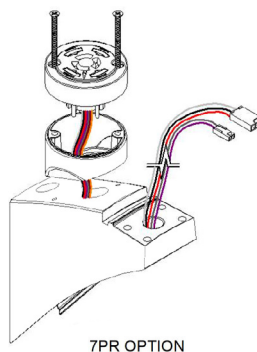
CONTROLS FUNCTIONALITY

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	
NX Wireless	NXOFM1RID-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	✓	✓	✓	✓	-	 NXOFM1RID-UNV
	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓	-	 NXRM2-H
LightGRID+	WIR-RME-L LightGRID+ On Fixture Module	✓	-	✓	-	-	✓	✓	Gateway	-	 WIR-RME-L

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



NX LIGHTING CONTROLS FREE APP

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



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 luminaires 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 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 photocell	-	-	-	-	✓	-	✓	-	-	 7PR-TL

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

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

LightGRID+™

- LightGRID+™ 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 LightGRID+™ modules provide on/off/dim control, external device input, alerts and metering

MOUNTING

- High temperature fuse holders factory installed inside the fixture housing
- Fuse is included

SUPPORT ARM:

- Die-cast, low copper aluminum alloy, with splice access cover
- Die-cast pole adapter and an internal reinforcing plate are provided with a wire strain relief
- The arm adapter is square or circular cut for specified pole size and shape
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment

OPTIONAL WALL MOUNT:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate

OPTIONAL FUSING:

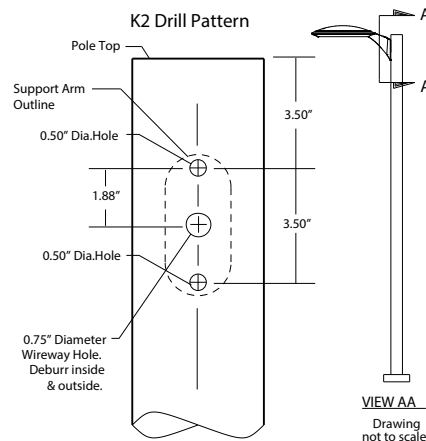
- SF for 120, 277, and 347 Line volts
- DF for 208, 240, and 480 Line volts

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 certified
- RoHS compliant

WARRANTY

- 5 year warranty

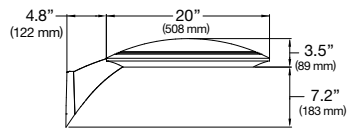


UR20 Edge -Lit

ARCHITECTURAL AREA/SITE

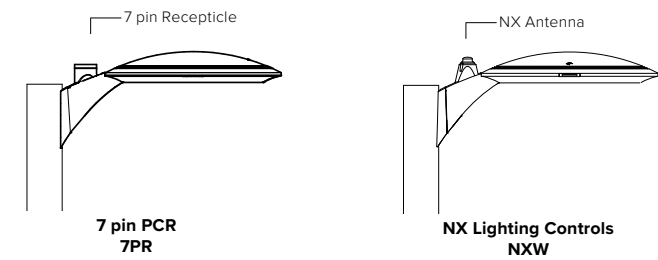
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DIMENSIONS



Weight: 32 lbs EPA: .372

SENSOR PLACEMENT



MOUNTING VIBRATION RATINGS

UR 20 Arm		UR 20 Post Top	
Ordering Code	Rating	Ordering Code	Rating
ASQ	4G	FM33	4G
A34	4G	FM44	1.5G
A46	4G	PT23	4G
MAF	4G	PT24	4G
		PT34	1.5G

For the 4G 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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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	3105	2	0	2	110.1	3144	2	0	2	111.5	3176	2	0	2	112.6
	5,000	600	50		5076	3	0	3	108.9	5140	3	0	3	110.3	5192	3	0	3	111.4
	7,000	870	70		7206	3	0	3	104.3	7296	3	0	3	105.6	7370	3	0	3	106.7
	9,000	1150	90		9502	3	0	3	105.3	9622	3	0	3	106.7	9719	3	0	3	107.7
	12,000	800	135		12281	4	0	4	88.8	12435	4	0	4	89.9	12561	4	0	4	90.8
	3,000	350	30	Type 3	3369	1	0	2	119.5	3412	1	0	2	121.0	3446	1	0	2	122.2
	5,000	600	50		5507	1	0	2	118.2	5577	1	0	2	119.7	5633	1	0	2	120.9
	7,000	870	70		7818	2	0	3	113.1	7916	2	0	3	114.6	7996	2	0	3	115.7
	9,000	1150	90		10309	2	0	3	114.3	10439	2	0	3	115.7	10544	2	0	3	116.9
	12,000	800	135		13323	3	0	3	96.3	13491	3	0	3	97.5	13627	3	0	3	98.5
192L	3,000	350	30	Type 5W	3459	2	0	2	125.8	3503	2	0	2	127.4	3538	2	0	2	128.7
	5,000	560	45		5485	3	0	2	124.4	5554	3	0	2	125.9	5610	3	0	3	127.2
	7,000	800	60		7759	3	0	3	128.9	7857	3	0	3	130.5	7936	3	0	3	131.8
	9,000	960	75		9250	3	0	3	125.7	9366	3	0	3	127.3	9461	3	0	3	128.5
	12,000	680	110		12896	4	0	4	121.1	13058	4	0	4	122.6	13190	4	0	4	123.8
	15,000	840	135		15732	4	0	4	116.0	15930	4	0	4	117.5	16091	4	0	4	118.7

UR20 Edge -Lit

ARCHITECTURAL AREA/SITE

PHOTOMETRY

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

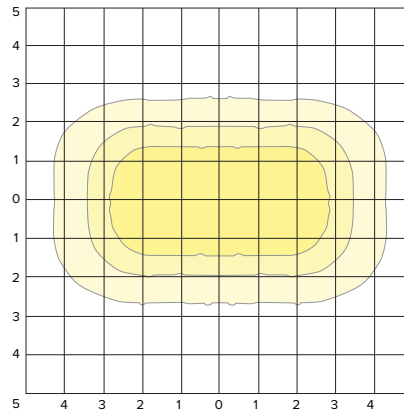
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5140
Watts	46.6
Efficacy	110.3
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	2570	50%
Downward House Side	2570	50%
Downward Total	5140	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	5140	100%

ISOFOOT CANDLE PLOT



UR20-96L-50-4K7-3

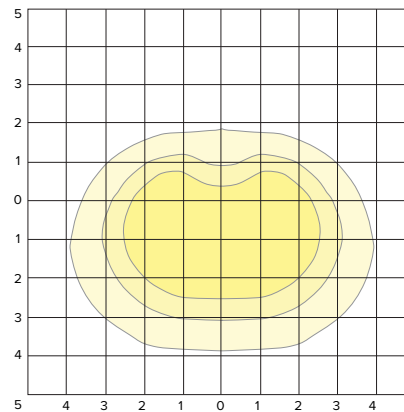
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	5576
Watts	46.6
Efficacy	119.7
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	4615	83%
Downward House Side	961	17%
Downward Total	5576	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	5576	100%

ISOFOOT CANDLE PLOT



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

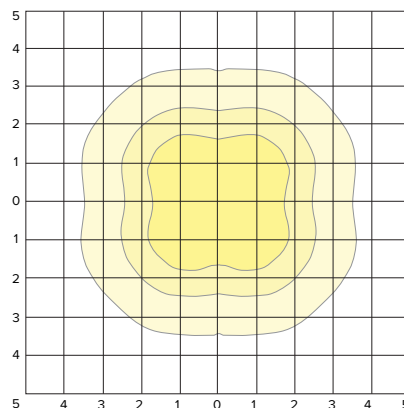
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	9366
Watts	73.6
Efficacy	127.3
IES Type	VS
BUG Rating	B3-U0-G3
Mounting Height	15 ft
Grid Scale	10 ft

ZONAL LUMEN SUMMARY

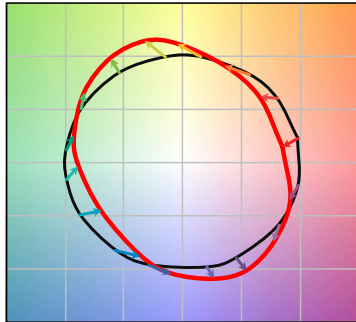
Zone	Lumens	% Luminaire
Downward Street Side	4683	50%
Downward House Side	4683	50%
Downward Total	9366	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	9366	100%

ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

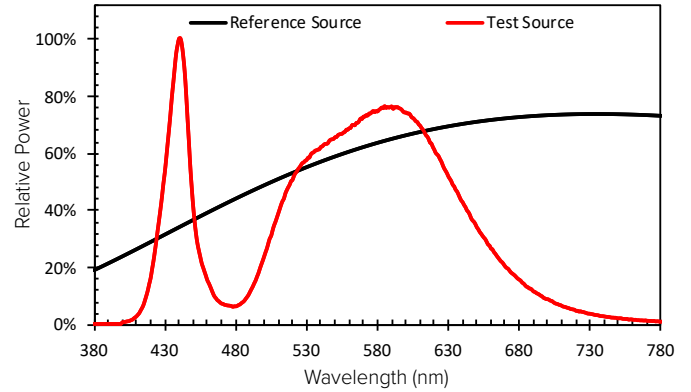


— Reference Illuminant — Test Source

TEST SOURCE

R _f	68
R _a	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	0.9119
4000K	0.8941

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