KIMLIGHTING[®]

R20 EDGE-LIT ARCHITECTURAL AREA/SITE

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
- SiteSync[™] and 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 ±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

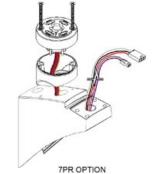
CONTROLS

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



LOCATION: DATE: PROJECT: TYPE:

CATALOG #:

8





RELATED PRODUCTS

Post Top



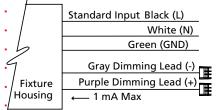
8 Ouro Large Arm Mount

CONTROLS (CONTINUED)

• 7-pin wireless photoelectric control for for dimming and additional I/O connections for customer use

S PHOTOMETRY

S DELIVERED LUMENS



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 | 3,105 - 16,091 |
| Wattage Range | 27.5 - 138.3W |
| Efficacy Range (LPW) | 88.8 - 131.8 lm/W |
| Reported Life (Hours) | L70/>60,000 |
| Weight | 21 lbs - 9.5 Kg |
| EPA | 0.372 |



UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

| DATE: | LOCATION: |
|------------|-----------|
| TYPE: | PROJECT: |
| CATALOG #: | |

ORDERING GUIDE

CATALOG

HOUSING

Example: UR20-96L-50-3K8-3-L-UNV-ASQ-BL-7PR-SWP

| UR20 | | | | | | | | | | | | |
|-----------|------------|-----------------|-------|-----------------|---------|----------------|---------|----------------------|---------|----------|-------|--|
| Model | LED Engine | 2 | ССТ | | Distrit | oution | Rotatio | n | Voltage | 9 | Mount | ing |
| UR20 Ouro | Type 2M a | nd 3 | 3K7 | 3000K, 70 CRI | 2M 6 | Type II Medium | Blank | No rotation | UNV | 120-277V | ASQ | Arm Square pole |
| | 96L-30 | 30W, 3,000 lm | 3K8 | 3000K, 80 CRI | 36 | Type III Short | L1 | Optic rotation left | 347 | 347V | A34 | Arm mt 3.3-4.2" OD pole |
| | 96L-50 | 50W, 5,000 lm | 3K9 | 3000K, 90 CRI | 5W 7 | Type V Wide | R 1 | Optic rotation right | 480 | 480V | A46 | Arm mt 4.5-6.0" OD pol |
| | 96L-70 | 70W, 7,000 lm | 4K7 | 4000K, 70 CRI | | | | | | | MAF | Horizontal Slip Fitter 2 3/8" OD arm |
| | 96L-90 | 90W, 9,000 lm | 4K8 | 4000K, 80 CRI | | | | | | | 0.405 | |
| | 96L-135 | 135W, 12,000 lm | 5K7 | 5000K, 70 CRI | | | | | | | SVSF | Square Vertical Slipfitter for 2"Tenon (2-3/8"OD) |
| | Type 5W | | | ult factory for | | | | | | | VSF | Round Vertical Slipfitter |
| | 192L-30 | 30W, 3,000 lm | other | CCTs and CRIs | | | | | | | V.51 | 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 Op | ptions | Optio | ns | Control Accessorie | s |
|--|---|---|---|-----------------|--|--|---|
| BLS BLT DBS DBT GTT LGS LGT PSS VGT WHS | Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth Dark Bronze Matte Textured Graphite Matte Textured Light Grey Gloss Smooth Light Grey Matte Textured Platinum Silver Gloss Smooth Verde Green Matte Textured White Gloss Smooth | 7PR-TL 7PR-SC 7PR AD-01 AD-02 AD-03 AD-04 NXWE SWP WSP-40F | 7 pin PCR with twist lock photocontrol 7 pin PCR with shorting cap 7 pin PCR, wireless control enabled AstroDIM: 50% output at midnight ³ AstroDIM: 50% output midnight to 4 AM ³ AstroDIM: 50% output 10PM ³ AstroDIM: 50% output 10PM to 4AM ³ NX Wireless [™] Enabled SiteSync [™] Pre-commission ^{3,4,5} Dimming Occ. Sensor for up to 40' MH, 120-480V | SF DF TPL | ns Single Fuse Double Fuse Tamper Proof Latch | Control Accessorie SW7PR SWUSB SWTAB SWBRG WIR-RME-L NXOFM1R1D-UNV | S SiteSync [™] with 7 pin PCR ^{3,5} SiteSync [™] Software on USB SiteSync [™] Windows Tablet SiteSync [™] Wireless Bridge Node wiSCAPE [™] External Fixture Module NX [™] 7-pin Module |
| WHT White Matte Textured Color Option CC Custom Color 1 | | | | | | | |

- 1 2 3 4 5
- Not available with 5W distributions. Consult factory for custom color, marine and corrosive finish options Not available with other sensor or wireless control options Not available with 347V and 480V. Specify group and zone at time of order. See www.hubbelliighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node. Only available with 96L. Only available with 192L.
- 6 7



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

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

SITESYNC™

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

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

WISCAPE™

 Hubbell Control Solutions' wiSCAPE[™] wireless control modules allow an individual fixture to 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.

MOUNTING

• High temperature fuse holders factory installed inside the fixture housing

DATE:

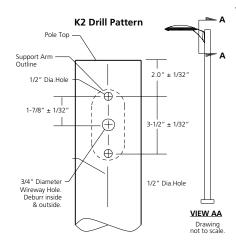
TYPE:

CATALOG #:

• 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



LOCATION:

PROJECT:

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
- 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. <u>See Buy American</u> <u>Solutions</u>

WARRANTY

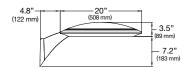
- 5 year warranty
- See <u>HLI Standard Warranty</u> for additional information



UR20 EDGE-LIT

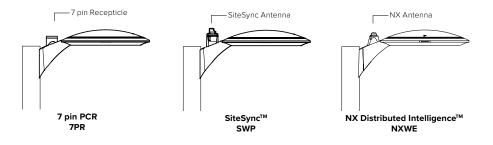
ARCHITECTURAL AREA/SITE

DIMENSIONS



Weight: 32 lbs EPA: .372

SENSOR PLACEMENT



MOUNTING VIBRATION RATINGS

| UR 20 Ar | m | 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

| DATE: | LOCATION: |
|------------|-----------|
| TYPE: | PROJECT: |
| CATALOG #: | |



UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

| DATE: | LOCATION: |
|------------|-----------|
| TYPE: | PROJECT: |
| CATALOG #: | |

DELIVERED LUMENS

| | | Drive | | | 3000K 70CRI | | | 4000K 70CRI | | | | | 5000K 70CRI | | | | | | |
|-----------|-------------------|---------|------------------|--------------|-------------|----|-------|-------------|------------|-------|------------|---|-------------|-------|-------|------------|---|---|-------|
| LEDs # | Lumens Package | Current | Nominal Watts | Distribution | 1 | BU | G Rat | ing | line (i.i. | 1 | BUG Rating | | | l | | BUG Rating | | | lm/w |
| | | (mA) | | | Lumen | В | U | G | lm/w | Lumen | В | U | G | lm/w | Lumen | В | U | G | Im/w |
| | 3,000 | 350 | 30 | | 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 | Type 2M | 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 |
| 0.01 | 12,000 | 800 | 135 | | 12281 | 4 | 0 | 4 | 88.8 | 12435 | 4 | 0 | 4 | 89.9 | 12561 | 4 | 0 | 4 | 90.8 |
| 96L | 3,000 | 350 | 30 | | 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 | Type 3 | 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 |
| | 3,000 | 350 | 30 | | 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 |
| 1001 | 7,000 | 800 | 60 | | 7759 | 3 | 0 | 3 | 128.9 | 7857 | 3 | 0 | 3 | 130.5 | 7936 | 3 | 0 | 3 | 131.8 |
| 192L | 9,000 | 960 | 75 | Type 5W | 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

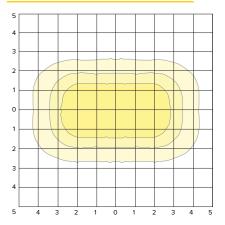
UR20-96L-50-4K7-2M

LUMINAIRE DATA

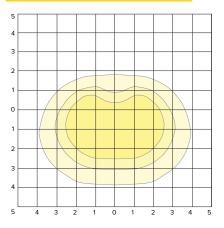
| Description | 4000K, 70CRI |
|------------------|--------------|
| Delivered Lumens | 5140 |
| Watts | 46.6 |
| Efficacy | 110.3 |
| IES Type | III |
| BUG Rating | B3-U0-G3 |
| Mounting Height | 15 ft |
| Grid Scale | 10 ft |

ZONAL LUMEN SUMMARY

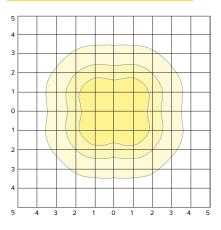
| Zone | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 2570 | 50% |
| Downward House Side | 2570 | 50% |
| Downward Total | 5140 | 100% |
| Upward Street Side | 0 | 0% |
| Upward House Side | 0 | 0% |
| Upward Total | 0 | 0% |
| Total Flux | 5140 | 100% |



ISOFOOT CANDLE PLOT



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% |

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% |

DATE: LOCATION: TYPE: PROJECT: CATALOG #:

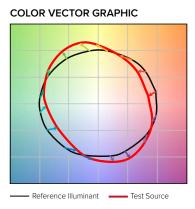
ISOFOOT CANDLE PLOT



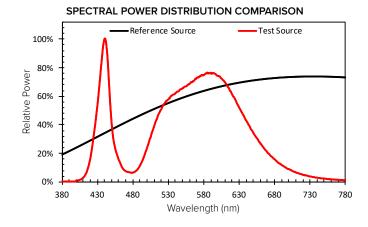
UR20 EDGE-LIT

ARCHITECTURAL AREA/SITE

TM-30 DATA



| TEST SOURCE | | | | | |
|----------------|--------|--|--|--|--|
| R _f | 68 | | | | |
| Rg | 99 | | | | |
| CCT(K) | 3947 | | | | |
| Duv | 0.0004 | | | | |
| x | 0.3831 | | | | |
| у | 0.3793 | | | | |
| CIE Ra | 72 | | | | |



ELECTRICAL DATA

| | Type 2M and 3 | | | | | | | | | | Dimming | | | | | | | | | | | | | | | |
|------------------|---------------|-------|--------------|-------|---------|------|------|------|------|------|-------------------|-------|-------------|--------------------------------|------|--|-----|--|--|--|------|------|------|------|------|------|
| Drive Current | LED | | Line Voltage | | Amps AC | | | | | | Min. Power Max | | | Source current out of 0-10V | | Absolute voltage range on 0-10V (+) | | | | | | | | | | |
| (mA) | Count | Watts | VAC | Hz | 120 | 208 | 240 | 277 | 347 | 480 | Factor THD (%) | Range | Min | Max | Min | Max | | | | | | | | | | |
| 350 | | 28.2 | | _ | _ | - | - | - | - | | 0.24 | 0.14 | 0.12 | 0.10 | 0.08 | 0.06 | | | | | | | | | | |
| 600 | | 46.6 | | | | | | | | | | | | | | | | | | | 0.39 | 0.22 | 0.19 | 0.17 | 0.13 | 0.10 |
| 870 | 96L | 69.1 | 120-480 | 50/60 | 0.58 | 0.33 | 0.29 | 0.25 | 0.20 | 0.14 | >0.9 | 20 | 10% to 100% | 0mA | 1mA | οv | 10V | | | | | | | | | |
| 1150 | | 90.2 | | | 0.75 | 0.43 | 0.38 | 0.33 | 0.26 | 0.19 | | | | | | | | | | | | | | | | |
| 800* | 1 | 138.3 | | | 1.15 | 0.66 | 0.58 | 0.50 | 0.40 | 0.29 | | | | | | | | | | | | | | | | |

| | Туре 5W | | | | | | | | | | Dimming | | | | | | | | | | | | | | | |
|----------------------|---------|--------------|-----------|---------------------|---------------------|-----------|-----------|---------|-----------|---------------|-------------|---------|--------------------------------|----------------|--|------|------|------|------|------|--------------|----|-------------|-------|------|----|
| Drive Current LED | System | Line Voltage | | Amps AC | | | | | | Min. Power | Max | Dimming | Source current out of 0-10V | | Absolute voltage range on 0-10V (+) | | | | | | | | | | | |
| (mA) | Count | Watts | VAC | Hz | 120 | 208 | 240 | 277 | 347 | 480 | Factor | | Range | Min | Max | Min | Max | | | | | | | | | |
| 350 | | 27.5 | - 120-480 | - - 120-480 - | - - 120-480 - | - 120-480 | - 120-480 | 120-480 | - 120-480 | - 120-480 | 120-480 50/ | | 0.23 | 0.13 | 0.11 | 0.10 | 0.08 | 0.06 | | | | | | | | |
| 560 | | 44.1 | | | | | | | | | | | | 0.37 | 0.21 | 0.18 | 0.16 | 0.13 | 0.09 | | | | | Í | | |
| 800 | 10.01 | 60.2 | | | | | | | | | | 50/00 | 0.50 | 0.29 | 0.25 | 0.22 | 0.17 | 0.13 | | 20 | 100/ 1 1000/ | | | | 101/ | |
| 960 | - 192L | 73.6 | | | | | | | | | | 120-480 | 120-480 | 20-480 50/60 C | 0.61 | 0.35 | 0.31 | 0.27 | 0.21 | 0.15 | >0.9 | 20 | 10% to 100% | 0mA ′ | 1mA | 0V |
| 680* | | 106.5 | | | | | | | | 0.89 | 0.51 | 0.44 | 0.38 | 0.31 | 0.22 |).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 | | | | | | |
|----------------------|--------|--|--|--|--|--|
| ССТ | 80 CRI | | | | | |
| 3000K | 0.9119 | | | | | |
| 4000K | 0.8941 | | | | | |

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

