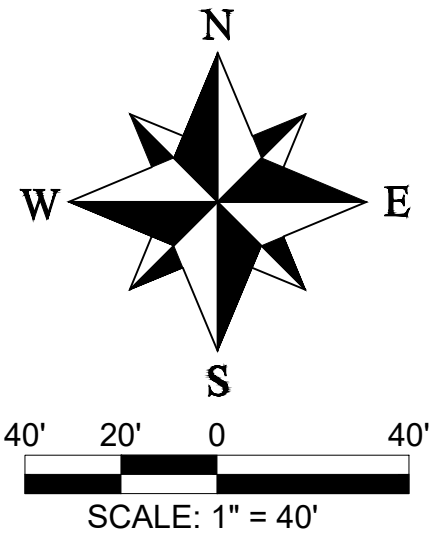


SCOTTSDALE EXTERIOR LIGHTING POLICY

1. NO FIXTURE SHALL BE MOUNTED HIGHER THAN 16 FEET.
2. ALL EXTERIOR LIGHTING SHALL HAVE A KELVIN TEMPERATURE OF 3,000 OR LESS
3. ALL FIXTURES AND ASSOCIATED HARDWARE, INCLUDING POLES, SHALL BE FLAT BLACK OR DARK BRONZE IN COLOR.
4. THE MAINTAINED AVERAGE HORIZONTAL ILLUMINANCE LEVEL, AT GRADE ON-SITE, SHALL NOT EXCEED 2.0 FOOT-CANDELS. ALL EXTERIOR LUMINARIES SHALL BE INCLUDED IN THIS CALCULATION.
5. THE MAINTAINED MAXIMUM HORIZONTAL ILLUMINANCE LEVEL, AT GRADE ON-SITE, SHALL NOT EXCEED 8.0 FOOT-CANDELS. ALL EXTERIOR LUMINARIES SHALL BE INCLUDED IN THIS CALCULATION.
6. THE INITIAL VERTICAL ILLUMINANCE AT SIX FEET ABOVE GRADE, ALONG THE ENTIRE PERIMETER PROPERTY LINE (OR ONE FOOT OUTSIDE OF ANY BLOCK WALL EXCEEDING FIVE FEET IN HEIGHT) SHALL NOT EXCEED 0.8 FOOT-CANDELS. ALL EXTERIOR LUMINARIES SHALL BE INCLUDED IN THIS CALCULATION.

ARIA AT SILVERSTONE PHASE 5

PHOTOMETRIC SITE PLAN
SCOTTSDALE, ARIZONA



PHOTOMETRIC LEGEND & CALCULATIONS

PALM DOWN LIGHT
FX Luminaire / Lumascape VE-ZD3LED-FW-wf / pSHM6a-ZD-WF-WT
LIGHT LABORATORY, INC. (www.lightlaboratory.com) test report no. L022211215
lamp(s): XXX
ballast: N/A
candela file "VE-ZD3LED-FW-wf pSHM6a-ZDWF-WT.IES"
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 4
Outreach (from mounting axis to photometric center)= 72 in
mounting height= 6 ft
number locations= 12, number luminaires= 12
kw all locations= 0.0

TREE HANGING DOWN LIGHT
FX Luminaire / Lumascape VE-ZD3LED-FW-wf / pSHM6a-ZD-WF-WT
LIGHT LABORATORY, INC. (www.lightlaboratory.com) test report no. L022211215
lamp(s): XXX
ballast: N/A
candela file "VE-ZD3LED-FW-wf pSHM6a-ZDWF-WT.IES"
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 4
Outreach (from mounting axis to photometric center)= 72 in
mounting height= 6 ft
number locations= 12, number luminaires= 12
kw all locations= 0.0

RAMADA SURFACE MOUNT LIGHT
COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON TTN-D1-830-U-WQ
INNOVATION CENTER test report no. P823350
lamp(s): XXX
candela file "TTN-D1-830-U-WQ_3011ims.ies"
4 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 26
mounting height= 9 ft
number locations= 2, number luminaires= 2
kw all locations= 0.1

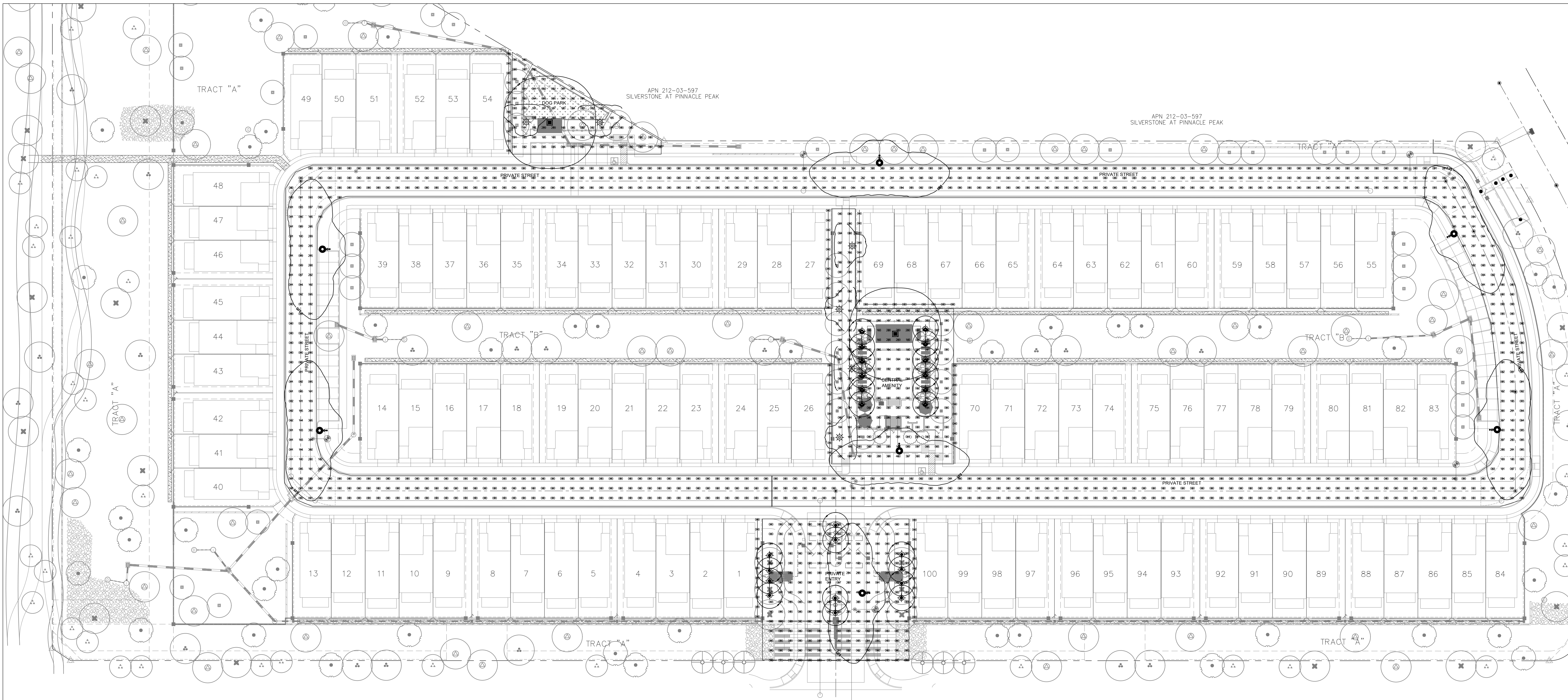
BOILLARD LIGHT
COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON (FORMERLY EATON)
INNOVATION CENTER test report no. P#
lamp(s): (8) 3000K CCT, 70 CRI LEDs
candela file "BRT6-A3-730-U-T3-XX-BK.ies"
8 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 1.000, watts per luminaire = 17
mounting height= 3 ft
number locations= 6, number luminaires= 6
kw all locations= 0.1

DUSK TO DAWN PRIVATE LIGHT (TYPE 2 DISTRIBUTION)
KIM LIGHTING UR20-24L-65-3K7-2-BC-CLR
CURRENT test report no. KIM LIGHTING
lamp(s): C-70-CRI
candela file "UR20-24L-65-3K7-2-BC-CLR.ies"
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 66
Outreach (from mounting axis to photometric center)= 24 in
mounting height= 16 ft
number locations= 7, number luminaires= 7
kw all locations= 0.5

CENTRAL AMENITY	DOG PARK
208 points at z=0, sp 8ft by 8ft	89 points at z=0, sp 8ft by 8ft
HORIZONTAL FOOTCANDELS	HORIZONTAL FOOTCANDELS
Average 0.7	Average 0.6
Maximum 7.8	Maximum 6.6
Minimum 0.0	Minimum 0.0
Avg.Min N/A	Avg.Min N/A
Max.Min N/A	Max.Min N/A
Coef Var 1.57	Coef Var 1.73
Unit/Grad N/A	Unit/Grad N/A
PRIVATE ENTRY	PRIVATE STREET
225 points at z=0, sp 8ft by 8ft	936 points at z=0, sp 8ft by 8ft
HORIZONTAL FOOTCANDELS	HORIZONTAL FOOTCANDELS
Average 0.4	Average 0.2
Maximum 4.2	Maximum 4.0
Minimum 0.0	Minimum 0.0
Avg.Min N/A	Avg.Min N/A
Max.Min N/A	Max.Min N/A
Coef Var 2.16	Coef Var 2.93
Unit/Grad N/A	Unit/Grad N/A

MANUFACTURE SPECIFICATIONS
ARE SHOWN ON SHEETS L2-L5

6" LOT WALL
83 points
HORIZONTAL FOOTCANDELS
Average 0.0
Maximum 0.0
Minimum 0.0
Avg.Min N/A
Max.Min N/A
Coef Var 0.00



Horns Consulting, LLC

Horns Consulting, LLC
Phone: (602) 526-5860
Email: info@hornsconsulting.com
5293 W. Desperado Way, Phoenix, Arizona 85083

PHOTOMETRIC SITE PLAN

ARIA AT SILVERSTONE PHASE 5
SCOTTSDALE, ARIZONA

SCALE: 1:40
SHEET TITLE: SITE PLAN
DRAWING #: SHEET L1

DRAWN BY: DH
CHECKED BY: DH
APPROVED BY: GL
DATE: 10-17-2024
PROJECT #: 2405150
REVISIONS:



ARIA AT SILVERSTONE PHASE 5

PHOTOMETRIC SITE PLAN - SCOTTSDALE, ARIZONA

Call at least two full working days before you begin excavation.

ARIZONA811
Arizona Blue Stake, Inc.

Dial 81-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

DUSK TO DAWN PRIVATE STREET LIGHT

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 17,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- 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 with internal cooling fins.

- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.

- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.

- All external fasteners are stainless steel.
- One-piece low copper aluminum alloy die-cast lens frame is secured to housing with 6 screws.

OPTICS

- LEDs mount to a metal printed circuit board assembly (PCBA).
- Optical lenses are clear injection molded PMMA acrylic.

- Optional Backlight Control on each LED module to completely control unwanted backlight.

LENS

- Standard lens (CLR) IK08
- Clear Polycarbonate Lens (CP) IK10

- 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.

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DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:



	Weight	EPA
UR20	32 lbs / 14.5 kg	0.3/2 ft ³

ELECTRICAL

- Universal voltage, 120 through 277V with a 100% 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.
- 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: 10,000A in parallel, 20,000A 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 dimming and additional I/O connections for customer use.

- Color Option
- WSP40F-1
- WSP40F-2
- WSP40F-3
- WSP40F-4
- WSP40F-5
- WSP40F-6
- WSP40F-7
- WSP40F-8
- WSP40F-9
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**PALM DOWN LIGHT &
TREE HANGING DOWN LIGHT**

LS-TDB1-300 300VA Transformer for Landscape Lighting Applications

Specifications	
Input	120V, 60Hz
Output	300VA, 12.5V
ETL Approved	Yes
Protection	Circuit Breaker
Housing	NEMA 12, High Temp Fiberglass box and cover.

Fixture Compatibility

In order to determine the maximum number of fixtures a transformer or power supply will operate, please refer to the compatibility tables. These tables can be found in the back of the LED catalog and online.

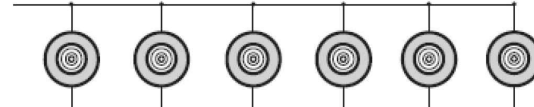


Indicative Dimensions

	In. (mm)
Case width	9 (229)
Case Height	9 (229)
Case Depth	7 (178)
Weight (approx)	12 lb (5.5 kg)

Indicative Circuit Diagram

Connections to be made in parallel, in accordance with NEC and local wiring regulations.



1300 Industrial Road, Unit #19
San Carlos, CA 94070

Free call 866-695-6862
info@lumascape.com

7/18/2013

ARIA AT SILVERSTONE PHASE 5

PHOTOMETRIC SITE PLAN - SCOTTSDALE, ARIZONA

pShimmer-6 - pSHM6



Project Name	
Type	
Part Number	
Quantity	
Notes	

Product Overview

The pShimmer-6 is a hanging down light for overhead illumination in 1 or 3 LED. Available in aluminum construction. A zoning/dimming version is also available for use with ZDClick® Controllers.

Features

Total Lumens	209 lm
Power Consumption	2.2 W 4.4 W 7.2 W
Input Voltage	White: 10-15 Vac/dc, 50/60 Hz ZDC: 11-15 Vac/dc, 50/60 Hz
Installation Requirements	Downward Direction Only
Typical Lifetime	White: 72,000 hrs RGBW: 55,000 hrs
Weight	1.3 lb (0.6 kg)
Compliance	
Color Options	

Technology



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Updated 23/Sep/2024

pShimmer-6 - pSHM6



Written Specifications

Electrical	
Power Consumption	Specified power consumption indicates the full apparent power.
Input Voltage	White: 10-15 Vac/dc, 50/60 Hz. RGBW: 11-15 Vac, 50/60 Hz. Remote transformer required (specify separately).
Configuration	Integral driver.
LED	White: Lumileds® RGBW: Cree®
Thermal Management	CoolDrive™ onboard thermal monitoring and control.
Lifetime	White: >72,000 hours (L70, B10, TM21 Reported) RGBW: >55,000 hours (L70, B10, TM21 Reported)
Dimming	Luxo® control or a trailing-edge (reverse phase-cut) dimmer.
Control	
Luxo® Control	The ZDClick Controller utilizes Luxo® Technology™ to zone luminaires in up to 250 groups, dim each group in 1% increments between 0% and 100%, or change to one of 30,000+ colors with RGBW LEDs. Select the ZD option for zoning/dimming or ZDC for zoning/dimming/color. Standard luminaire is zoneable with ZDClick.
Physical	
Construction	Die-cast A380 aluminum housing and shield with stainless steel setscrew, hanging cable, and cable lock.
Finish	Two-layer protection of marine-grade anodization and polyester TGIC powder-coat finish, providing superior outdoor weathering in all conditions. Tested to ASTM standards.
Beam Angles	50°
Installation	Designed for installation in the downward lighting direction only.
Installation Accessories (Included)	Items ships with 3/16" diameter stainless steel cable with cable lock. Cable length is 24" (610 mm).
Wiring	18 AWG (1 mm) SPT-1HW, 220°F (105°C), 300 V, 10' (3 m) length, measured from the light aperture. International (IE) length is shorter.
Socket	MicroAntileach™ Technology to prevent moisture from wicking up into sealed areas of the luminaire.
Ambient Operating Temperature	0°F to 140°F (-18°C to 60°C).
Lens	Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.
Lens Transparency	Frosted
Glare Control	Full cutoff shield.
Hardware	Temper-resistant stainless steel hardware.
Housing Capacity	Round 1LED, 3LED, or ZDC-M

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pShimmer-6 - pSHM6



Weight	1.3 lb (0.6 kg)
Compliance	
IP Rating	IP64
Environment	Dry, Damp, Wet locations
Dark Sky Compliance	Select a light source of 3,000K or lower to meet International Dark Sky Association criteria.
Certifications	UL 1838, CSA C22.2 No. 250.7, IEC 60598-1, IEC 60598-2-4, FCC Part 15, Subpart B, ISED Canada ICES-005, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3. Default configuration UL Listed. CE certification is met when the "e" option is selected.
Overview	
About Us	Lumascape transforms spaces with precision-engineered lighting solutions, proven to perform. Since 1991, customers have relied on us as a leading manufacturer of high-quality, innovative luminaires that solve their toughest lighting challenges. Our global experts combine sophisticated design, advanced technologies, quality materials, and rigorous testing to manufacture a comprehensive range of lighting systems that consistently exceed performance expectations. Lumascape is a member of the Hunter Industries Family of Companies. Learn more at lumascape.com .
Manufacturing	ISO 9001:2015 certified facility.
Warranty	5-year limited warranty.

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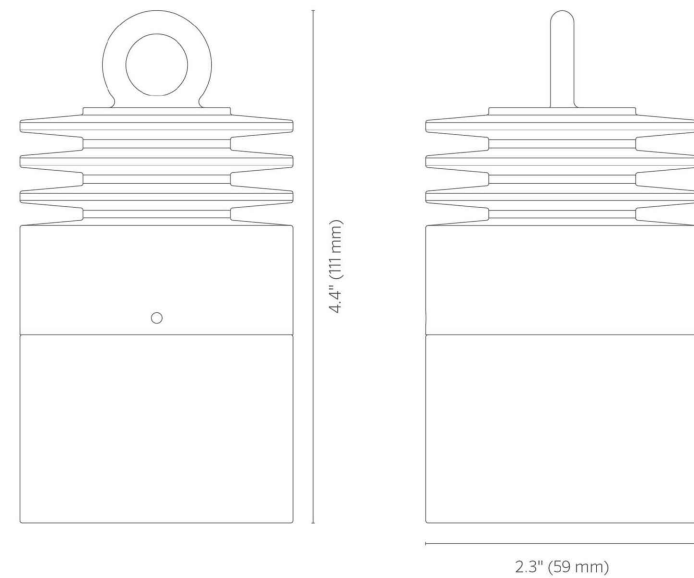
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pShimmer-6 - pSHM6



Specifications

Dimensions



Photometrics 1LED

pShimmer-6a 1 LED Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candles (Lux)	Vertical 34.3°
4.0' (1.2 m)	10 fc (102 lx)	3.0' (0.8 m)
8.0' (2.4 m)	1.4 fc (26 lx)	5.0' (1.5 m)
12.0' (3.7 m)	1.1 fc (11 lx)	7.0' (2.3 m)
16.0' (4.9 m)	0.6 fc (6 lx)	10.0' (3.0 m)
20.0' (6.1 m)	0.4 fc (4 lx)	12.0' (3.8 m)

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pShimmer-6 - pSHM6



Photometrics 3LED

pShimmer-6a 3 LED Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candles (Lux)	Vertical 31.6°
4.0' (1.2 m)	26 fc (279 lx)	2.0' (0.7 m)
8.0' (2.4 m)	7 fc (70 lx)	5.0' (1.4 m)
12.0' (3.7 m)	3 fc (31 lx)	7.0' (2.0 m)
16.0' (4.9 m)	1.6 fc (17 lx)	9.0' (2.8 m)
20.0' (6.1 m)	1.0 fc (11 lx)	11.0' (3.4 m)

Photometrics ZDC

pShimmer-6a ZDC Illuminance at a Distance

Feet (Meters)	Center Beam	Beam Width
	Foot-Candles (Lux)	Vertical 54.0°
4.0' (1.2 m)	8 fc (86 lx)	4.0' (1.3 m)
8.0' (2.4 m)	2 fc (22 lx)	8.0' (2.5 m)
12.0' (3.7 m)	0.9 fc (10 lx)	12.0' (3.7 m)
16.0' (4.9 m)	0.5 fc (5 lx)	16.0' (5.0 m)
20.0' (6.1 m)	0.3 fc (3 lx)	20.0' (6.2 m)

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pShimmer-6 - pSHM6



Configuration

For complete and up-to-date product options, configure the pSHM6 using our online product configurator.

Configuration tool showing options for Code, Material, Control, Output, Light Source, Compliance, Cover, and Finish.

Material

☐ **Aluminum (A)**
Die-cast A380 aluminum with stainless steel hardware. Available in powder-coated finishes only.

Control

☐ **Standard (S)**
1) On/Off, 2) Phase-cut Dimming, or 3) Zone with Luxo® Technology using the ZDClick Lighting Controller.

☐ **Zone/Dim (ZD)**
Zone/Dim with Luxo® Technology using the ZDClick Lighting Controller.

☐ **Zone/Dim/Color (ZDC)**
Zone/Dim/Color with Luxo® Technology using the ZDClick Lighting Controller.

Output

☐ **2.2 W (1LED)**
90 lm

☐ **4.4 W (3LED)**
209 lm

☐ **4.4 W**
209 lm, for ZD control

☐ **7.2 W**
For ZDC control

Light Source

☐ **Static White (K27)**
2,700 K (80+ CRI)

☐ **RGBW**
For ZDC control



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pShimmer-6 - pSHM6



Compliance

☐ **North America (NA)**
UL listed

☐ **International (IE)**
UL listed and CE approved. Required for shipment outside of North America.

Cover

☐ **Standard Ribs**



☐ **Copper Cover (CR)**



☐ **Perforated Sieve (PS)**



Finish

☐ **Black (BL)**
RAL9004 from RAL Classic collection



☐ **Anthracte Gray (AG)**
RAL7016 from RAL Classic collection



☐ **Basalt Gray (BT)**
RAL7012 from RAL Classic collection



☐ **Graphite Gray (GH)**
Graphite Gray powder-coat finish



☐ **Anodic Silver (SL)**
RAL9006 from RAL Classic collection



☐ **White (WT)**
RAL3016 from RAL Classic collection



☐ **Dark Bronze (DB)**
RAL8019 from RAL Classic collection



☐ **Latte (LT)**
RAL7005 from RAL Classic collection



☐ **Dark Aluminum (DA)**
RAL9007 from RAL Classic collection



☐ **Natural Copper (CU)**
Requires the selection of cover option.



☐ **Antique Bronze (AB)**
Natural brass material with brushed antique effect. Finish sealed with a clear TGIC powder-coat finish layer.



☐ **Antique Tumbled (AT)**
Natural brass material with tumbled antique effect. Finish sealed with a clear TGIC powder-coat finish layer.



☐ **Custom RAL (CC)**
A one-off custom color setup fee applies. Click on 'More Info' button to add to your enquiry. Contact Lumascape for volume discount on set-up fee.



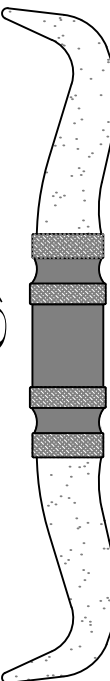
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DRAWN BY:	DL	APPROVED BY:	GL
CHECKED BY:	DH	PROJECT #	2405150
DATE:	10/17/2024	REVISION:	



Horns Consulting, LLC



hornsconsulting.com
Phone: (602) 526-8580
Email: info@hornsconsulting.com

5293 W. Desperado Way, Phoenix, Arizona 85083

PHOTOMETRIC LIGHTING SPECIFICATIONS

ARIA AT SILVERSTONE PHASE 5
SCOTTSDALE, ARIZONA

SCALE

N.T.S.

SHEET TITLE

LIGHT SPECS

DRAWING #:

SHEET 13

ARIA AT SILVERSTONE PHASE 5

PHOTOMETRIC SITE PLAN - SCOTTSDALE, ARIZONA

RAMADA DOWN LIGHT

Project	Catalog #	Type
Prepared by	Notes	Date



McGraw-Edison

TTN TopTier Nano

Parking Garage Luminaire

Product Features



Product Certifications



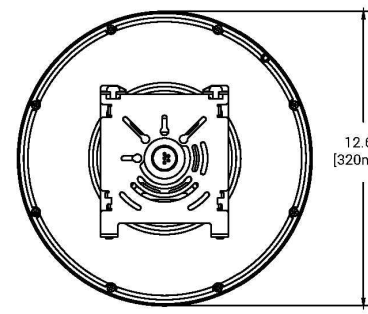
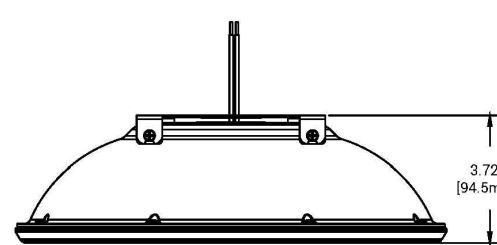
Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Optical Specifications page 2
- Mounting Details page 3
- Energy and Performance Data page 4
- Control Options page 6

Quick Facts

- Lumen packages range from 1,000 - 7,300
- Efficacies up to 133 lumens per watt
- Patented waveguide technology for maximum visual comfort
- Mount options: surface, pendant, trunnion, and direct conduit

Dimensional Details



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McGraw-Edison TTN TopTier Nano

Energy and Performance Data

Power and Lumens (3000K/3500K/4000K/5000K)

View TopTier IES files

Lumen Package		D0	D1	D2	D3
Power (Wattage)		19.7	26.4	42.5	69.2
3000K CCT 80 CRI	OQ Concentrated	Lumens	1,095	3,029	6,764
		8000 Ranking	B1-40-01	B1-40-01	B2-40-01
		Lumens per Watt	55.2	115	157
	MQ Medium	Lumens	1,148	3,108	6,669
		8000 Ranking	B1-40-01	B2-40-01	B3-40-02
		Lumens per Watt	59.7	120	112
	WQ Wide	Lumens	1,289	3,211	6,759
		8000 Ranking	B1-40-01	B2-40-01	B2-40-02
		Lumens per Watt	65.2	114	106
	RW Rectangular Wide	Lumens	1,262	2,937	6,619
		8000 Ranking	B1-40-01	B2-40-01	B3-40-02
		Lumens per Watt	66	111	104
3500K CCT 80 CRI	OQ Concentrated	Lumens	1,092	2,865	6,691
		8000 Ranking	B1-40-01	B1-40-02	B1-40-02
		Lumens per Watt	55	108	101
	MQ Medium	Lumens	1,148	3,099	6,646
		8000 Ranking	B1-40-01	B1-40-01	B2-40-01
		Lumens per Watt	59.6	121	113
	WQ Wide	Lumens	1,236	3,341	6,254
		8000 Ranking	B1-40-01	B2-40-01	B3-40-02
		Lumens per Watt	63.2	127	118
	RW Rectangular Wide	Lumens	1,152	3,186	6,011
		8000 Ranking	B1-40-01	B2-40-02	B3-40-02
		Lumens per Watt	58	121	113
4000K/5000K CCT 70 CRI	OQ Concentrated	Lumens	1,123	3,106	6,887
		8000 Ranking	B1-40-01	B2-40-02	B3-40-02
		Lumens per Watt	56	118	119
	MQ Medium	Lumens	1,262	3,261	6,591
		8000 Ranking	B1-40-01	B1-40-02	B1-40-02
		Lumens per Watt	59	114	107
	WQ Wide	Lumens	1,222	3,389	6,316
		8000 Ranking	B1-40-01	B1-40-01	B2-40-01
		Lumens per Watt	61.4	128	120
	RW Rectangular Wide	Lumens	1,274	3,024	6,540
		8000 Ranking	B1-40-01	B2-40-01	B3-40-02
		Lumens per Watt	61.9	123	126
4000K/5000K CCT 70 CRI	OQ Concentrated	Lumens	1,215	3,361	6,286
		8000 Ranking	B1-40-01	B2-40-02	B3-40-02
		Lumens per Watt	61.4	127	119
	MQ Medium	Lumens	1,185	3,278	6,195
		8000 Ranking	B1-40-01	B2-40-02	B3-40-02
		Lumens per Watt	61.1	124	114
	WQ Wide	Lumens	1,152	3,187	6,072
		8000 Ranking	B1-40-01	B1-40-02	B1-40-02
		Lumens per Watt	58	121	118
	RW Rectangular Wide	Lumens	1,185	3,278	6,195
		8000 Ranking	B1-40-01	B2-40-02	B3-40-02
		Lumens per Watt	61.1	124	114



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McGraw-Edison

Ordering Information

SAMPLE NUMBER: TTN-D1-740-U-WQ-STM-30L-AP

Product Family	Configuration	Color Temperature	Voltage	Distribution	Mounting	Lead Length	Finish
TTN TopTier Nano	D0-1000 Universal Lumens	740-70 CRI, 3000 CCT	120-277V	OQ Concentrated	Blank	Blank	Blank
TTN TopTier Nano	D1-2000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D2-3000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D3-4000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D4-5000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D5-6000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D6-7000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D7-8000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D8-9000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D9-10000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D10-11000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D11-12000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D12-13000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D13-14000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D14-15000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D15-16000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D16-17000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D17-18000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
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TTN TopTier Nano	D25-26000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D26-27000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D27-28000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D28-29000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D29-30000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D30-31000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D31-32000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D32-33000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D33-34000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D34-35000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D35-36000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D36-37000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D37-38000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
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TTN TopTier Nano	D49-50000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
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TTN TopTier Nano	D51-52000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D52-53000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D53-54000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
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TTN TopTier Nano	D57-58000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D58-59000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D59-60000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D60-61000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D61-62000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
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TTN TopTier Nano	D64-65000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D65-66000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D66-67000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D67-68000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D68-69000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D69-70000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D70-71000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D71-72000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D72-73000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D73-74000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TTN TopTier Nano
TTN TopTier Nano	D74-75000 Universal Lumens	740-70 CRI, 4000 CCT	120-277V	OQ Concentrated	TTN TopTier Nano	TTN TopTier Nano	TT

ARIA AT SILVERSTONE PHASE 5

PHOTOMETRIC SITE PLAN - SCOTTSDALE, ARIZONA

BOLLARD LIGHT

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison BRT6 Bollard

Round LED Pedestrian Luminaire

- Interactive Menu**
- Ordering Information page 2
 - Product Specifications page 2
 - Optical Distributions page 2
 - Energy and Performance Data page 3

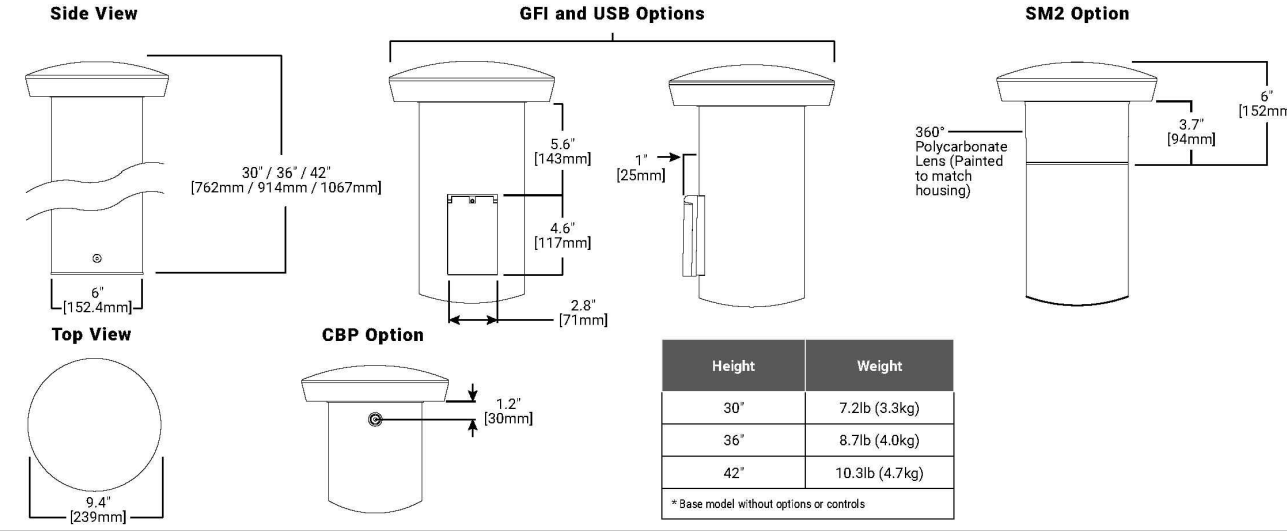
Product Certifications



Quick Facts

- 4 Optical Distributions
- Available in 30", 36", and 42"
- Lumen packages range from 560 - 4400 (5W - 49W)
- Efficacy up to 122 lumens per watt
- Zero uplight on all configurations

Dimensional Details



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McGraw-Edison

BRT6 Bollard

Ordering Information

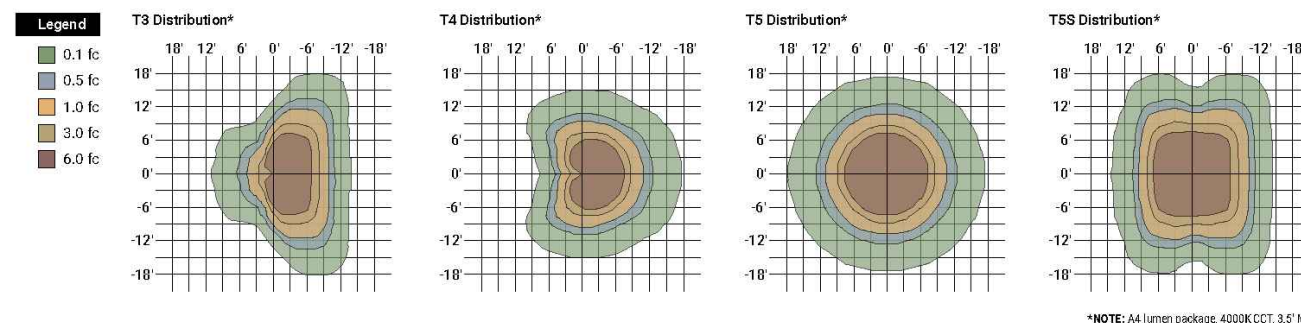
SAMPLE NUMBER: BRT6-A3-740-U-T4-36-GM

Product Family	Configuration ¹	Color Temperature	Voltage	Distribution	Height	Finish
BRT6-Bollard, 6" Round Base BRT6-Bollard, 6" Round Base, 6" Round Base, 6" Round Base BRT6-Bollard, 6" Round Base, 6" Round Base, 6" Round Base, 6" Round Base	A1-1000m Neutral A2-1000m Neutral A3-1000m Neutral A4-1000m Neutral	720-1000K 2700K 720-1000K 3000K 720-1000K 4000K 720-1000K 5000K	0-120V/277V 1-120V 2-120V 3-120V 4-277V 8-277V 9-277V	T3-Point Asymmetric T4-Point Asymmetric TS-Type V Symmetric T8-Type V Symmetric	30-32" 36-32" 42-32"	AP-Black BP-Black GP-Black MP-Black OP-Black
Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) ²			
DBM-External 5-12V Operating Leads Fridge-Free (120, 277 or 347V Specify Voltage) Fridge-Free (200, 240 or 480V Specify Voltage) CC-Correlated Color Temperature	BPC-Bi-Color Type Phosphor SM2-Micro-Current Sensor, 10' max range		BRTANCHOR-Anchor (Add as Suffix)			
DBM-External 5-12V Operating Leads Fridge-Free (120, 277 or 347V Specify Voltage) Fridge-Free (200, 240 or 480V Specify Voltage) CC-Correlated Color Temperature	BPC-Bi-Color Type Phosphor SM2-Micro-Current Sensor, 10' max range		BRTANCHOR-Anchor (Add as Suffix)			

Product Specifications

- Construction**
- Extruded aluminum housing with cast base and top
 - Patented base plate design offers superior rigidity
 - 30° vibration rated
 - IK10 impact rating for housing and optic assembly
- Optics**
- High-efficiency injection-molded AccuLED optics technology
 - 4 optical distributions: 2 symmetric and 2 asymmetric
 - ICAA Certified (3000K CCT and warmer only)

Optical Distributions



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McGraw-Edison

BRT6 Bollard

Energy and Performance Data

Asymmetric Power and Lumens

	Optics	Configuration					Optics	Configuration					
		A1	A2	A3	A4			A1	A2	A3	A4		
4000W / 5000K CCT 70-5M	T5	Wattage	5	11	17	32	4000W / 5000K CCT 70-5M	T5	Wattage	9	18	29	42
		Lumens	307	1075	1627	1961			Lumens	1149	2230	3244	4401
		BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1			BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1
	Lumens per Watt	99	99	94	91	Lumens per Watt	122	120	111	105			
	T8	Wattage	5	10	15	21	T8	Wattage	10	21	35	49	
		Lumens	359	1101	1616	2193		Lumens	1125	2230	3338	4338	
BUG Rating		B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G1	BUG Rating		B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1		
Lumens per Watt	110	115	110	104	Lumens per Watt	110	107	97	89				
3000K CCT 70-5M	T5	Wattage	5	11	17	32	3000K CCT 70-5M	T5	Wattage	9	18	29	42
		Lumens	489	979	1482	1786			Lumens	1646	2013	2954	4008
		BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1			BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1
	Lumens per Watt	99	99	94	91	Lumens per Watt	122	120	111	105			
	T8	Wattage	5	10	15	21	T8	Wattage	10	21	35	49	
		Lumens	306	1003	1472	1937		Lumens	1055	2031	3040	3977	
BUG Rating		B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G1	BUG Rating		B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1		
Lumens per Watt	110	115	110	104	Lumens per Watt	110	107	97	89				
3000K CCT 40-5M	T5	Wattage	5	11	17	32	3000K CCT 40-5M	T5	Wattage	9	18	29	42
		Lumens	427	854	1293	1588			Lumens	913	1727	2578	3497
		BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1			BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1
	Lumens per Watt	99	99	94	91	Lumens per Watt	122	120	111	105			
	T8	Wattage	5	10	15	21	T8	Wattage	10	21	35	49	
		Lumens	444	875	1284	1743		Lumens	864	1772	2602	3470	
BUG Rating		B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G1	BUG Rating		B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1		
Lumens per Watt	110	115	110	104	Lumens per Watt	110	107	97	89				
2700K CCT 70-5M	T5	Wattage	5	11	17	32	2700K CCT 70-5M	T5	Wattage	9	18	29	42
		Lumens	449	899	1361	1640			Lumens	960	1848	2712	3680
		BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1			BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1
	Lumens per Watt	99	99	94	91	Lumens per Watt	122	120	111	105			
	T8	Wattage	5	10	15	21	T8	Wattage	10	21	35	49	
		Lumens	467	921	1351	1634		Lumens	941	1860	2791	3602	
BUG Rating		B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G1	BUG Rating		B1-U0-G1	B1-U0-G1	B2-U0-G1	B2-U0-G1		
Lumens per Watt	110	115	110	104	Lumens per Watt	110	107	97	89				
AMB Down	T5	Wattage	13	—	—	—	AMB Down	T5	Wattage	21	—	—	—
		Lumens	437	—	—	—			Lumens	375	—	—	—
		BUG Rating	B0-U0-G0	—	—	—			BUG Rating	B0-U0-G0	—	—	—
	Lumens per Watt	34	—	—	—	Lumens per Watt	28	—	—	—			
	T8	Wattage	11	—	—	—	T8	Wattage	25	—	—	—	
		Lumens	352	—	—	—		Lumens	676	—	—	—	
BUG Rating		B0-U0-G0	—	—	—	BUG Rating		B1-U0-G0	—	—	—		
Lumens per Watt	32	—	—	—	Lumens per Watt	27	—	—	—				