 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>AA1a</b>
			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b> 7/6/2015
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED GROUND MOUNTED LED SPOTLIGHT WITH 45 DEG GLARE SHIELD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		COLOR KINETICS EW BURST COMPACT POWERCORE 523-000059-02 - ARCHITECTURAL FINISH: GRAY ACCESSORIES: 45DEG GLARE SHIELD - 120-000103-04	<b>LAMP</b> LED INCLUDED 2700 KELVIN  <b>WATTAGE</b> 15  <b>VOLTAGE</b> 120  <b>SOURCE</b> LED
<b>LOCATION</b>	TALL PALM TREES AT ENTRY		



Date: \_\_\_\_\_ Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

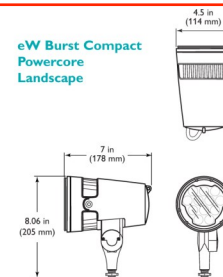
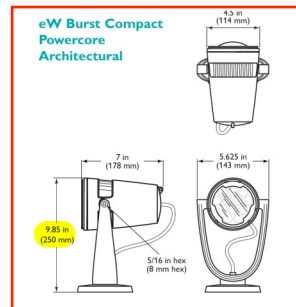
## eW Burst Compact Powercore

8° native (no spread lens)

Compact architectural and landscape LED spotlight with solid white light

eW Burst Compact Powercore is a high-output, exterior LED spotlight designed for accent and site lighting. Architectural and Landscape versions deliver high-quality white light in a warm 2700 K and a neutral 4000 K to support a range of uplighting, floodlighting, and decorative lighting applications.


- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for an external power supply.
- Flexible mounting in architectural applications — Architectural fixtures feature an integrated yoke with canopy base for mounting to standard U.S. junction boxes or directly to a flat surface or substrate as local codes permit.
- Support for a wide range of landscape applications — Landscape fixtures feature a 1/2 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories such as stanchion mounts, posts, and stakes for use in softscape and hardscape applications.
- Exchangeable optics and accessories — Available 14°, 23°, 41°, and asymmetric 10° x 41° spread lenses project a soft-edge beam to support a wide range of lighting applications. Native 8° beam angle offers extended light projection. Available glare shields block spill light, while honeycomb louvers limit the spread of light for a more focused and intense beam.
- Versatile light positioning — Fixtures can tilt through a full 180°. Architectural fixtures can also rotate through a full 360° for precise aiming. Locking screws accept standard hex wrenches to secure fixtures firmly in position.
- Universal power input range — Accepts a universal power input range of 100 to 277 VAC, allowing the installation of multiple units in a continuous run.
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.



- Outdoor rated — With a rugged, die-cast aluminum housing fully sealed for maximum fixture life and IP66-rated for outdoor applications, eW Burst Compact Powercore is ideal for use in damp or wet locations.

For detailed product information, please refer to the eW Burst Compact Powercore Product Guide at [www.philipscolorkinetics.com/ls/essentialwhite/ewburstcompactpc/](http://www.philipscolorkinetics.com/ls/essentialwhite/ewburstcompactpc/)

**PHILIPS**

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		<b>ISSUE DATE</b>	4/23/2015
		<b>REVISED</b>	7/6/2015
<b>FIXTURE DESCRIPTION</b>	<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED GROUND MOUNTED LED SPOTLIGHT WITH 45 DEG GLARE SHIELD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	COLOR KINETICS EW BURST COMPACT POWERCORE 523-000059-02 - ARCHITECTURAL FINISH: GRAY ACCESSORIES: 45DEG GLARE SHIELD - 120-000103-04	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
<b>LOCATION</b> TALL PALM TREES AT ENTRY		<b>WATTAGE</b>	15
		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

### Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details
Output	Lumens†	624 (2700 K*) 812 (4000 K*)
	Efficacy (lm / W)	41.9 (2700 K) 53.8 (4000 K)
	CRI	83 (2700 K) 81 (4000 K)
	Lumen Maintenance‡	90,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 120,000 hours L50 @ 25° C 90,000 hours L50 @ 50° C
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz
	Power Consumption	15 W maximum at full output, steady state
	Power Factor	.995 @ 120 VAC (2700 K) .994 @ 120 VAC (4000 K)
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§
	Dimensions (Height x Width x Depth)	9.85 x 4.5 x 7.0 in (250 x 114 x 178 mm) Architectural 8.06 x 4.5 x 7.0 in (205 x 114 x 178 mm) Landscape
Physical	Weight	8.7 lb (3.9 kg) Architectural 4.4 lb (2.0 kg) Landscape
	Housing	Die-cast aluminum, powder-coated finish
	Lens	Tempered glass
	Fixture Connections	6 ft (1.8 m) unified power / data cable with flying leads Architectural 6 in (152 mm) flying leads Landscape
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>
	Vibration Resistance	ANSI C136.31 (Architectural only)
Certification and Safety	Certification	UL / cUL, FCC Class A, CE, C-Tick, CQC, SAA
	Environment	Dry / Damp / Wet Location, IP66

\* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.  
† Lumen measurement complies with IES LM-79-08 testing procedures.  
‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output), L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to [www.philipscolorkinetics.com/support/appnotes/Im-80-08.pdf](http://www.philipscolorkinetics.com/support/appnotes/Im-80-08.pdf) for more information.  
§ Refer to [www.philipscolorkinetics.com/support/appnotes/](http://www.philipscolorkinetics.com/support/appnotes/) for specific details.

### Fixtures and Accessories

Use Item Number when ordering in North America.

Item	Type	Housing Color <sup>1</sup>	Item Number	Philips 12NC
eW Burst Compact Powercore Landscape (UL / cUL / CE)	2700 K	Gray	523-000059-00	910503701661
eW Burst Compact Powercore Architectural (UL / cUL)	2700 K	Gray	523-000059-02	910503701663
eW Burst Compact Powercore Architectural (CE)	2700 K	Gray	523-000059-04	910503701665
eW Burst Compact Powercore Architectural (CQC)	2700 K	Gray	523-000059-07	910503701748
Trim Ring	Gray	Gray	120-000103-03	910503701420
45° Glare Shield	Gray	Gray	120-000103-04	910503701421
Full Height Glare Shield	Gray	Gray	120-000103-05	910503701422
Honeycomb Louver	Black	Black	120-000104-01	910503701419
Spread Lenses	14°		120-000080-04	910503701415
	23°		120-000080-05	910503701416
	41°		120-000080-06	910503701417
		10° x 41° asymmetric	120-000080-07	910503701418

<sup>1</sup> Refer to How to Order Specification Sheet for additional housing colors.

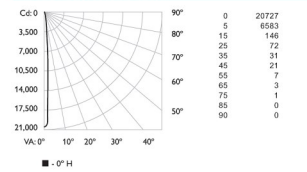


Philips Color Kinetics  
3 Burlington Woods Drive  
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Tel 888.385.5742  
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### Photometrics

eW Burst Compact Powercore  
2700 K, 8° native (no spread lens)

#### Polar Candela Distribution



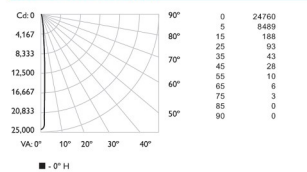
#### Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	0.6 ft
8.0 ft	1.2 ft
12.0 ft	1.8 ft
16.0 ft	2.4 ft
20.0 ft	3.0 ft
24.0 ft	3.6 ft

Lumens 624  
Efficacy 41.9 lm / W  
For lux multiply fc by 10.7

eW Burst Compact Powercore  
4000 K, 8° native (no spread lens)

#### Polar Candela Distribution




#### Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	0.6 ft
8.0 ft	1.2 ft
12.0 ft	1.7 ft
16.0 ft	2.3 ft
20.0 ft	2.9 ft
24.0 ft	3.5 ft

Lumens 812  
Efficacy 53.8 lm / W  
For lux multiply fc by 10.7

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 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>AA1b</b>
			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b> 7/6/2015
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION
EXTERIOR RATED GROUND MOUNTED ARCHITECTURAL LED SPOTLIGHT WITH 45 DEG GLARE SHIELD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		COLOR KINETICS EW BURST COMPACT POWERCORE 523-000059-03 - ARCHITECTURAL FINISH: GRAY ACCESSORIES: 45DEG GLARE SHIELD - 120-000103-04	<b>LAMP</b> LED INCLUDED 4000 KELVIN  <b>WATTAGE</b> 15  <b>VOLTAGE</b> 120  <b>SOURCE</b> LED
<b>LOCATION</b>	PINES		



Date: \_\_\_\_\_ Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

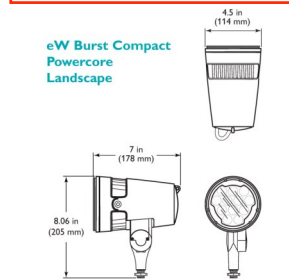
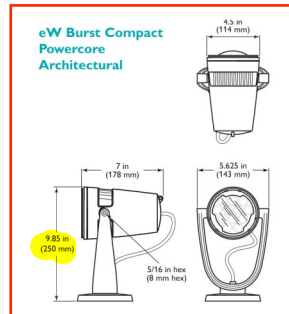
## eW Burst Compact Powercore

8° native (no spread lens)

Compact architectural and landscape LED spotlight with solid white light

eW Burst Compact Powercore is a high-output, exterior LED spotlight designed for accent and site lighting. Architectural and Landscape versions deliver high-quality white light in a warm 2700 K and a neutral 4000 K to support a range of uplighting, floodlighting, and decorative lighting applications.


- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for an external power supply.
- Flexible mounting in architectural applications — Architectural fixtures feature an integrated yoke with canopy base for mounting to standard U.S. junction boxes or directly to a flat surface or substrate as local codes permit.
- Support for a wide range of landscape applications — Landscape fixtures feature a 1/2 in NPT threaded post for mounting to standard junction boxes and third-party mounting accessories such as stanchion mounts, posts, and stakes for use in softscape and hardscape applications.
- Exchangeable optics and accessories — Available 14°, 23°, 41°, and asymmetric 10° x 41° spread lenses project a soft-edge beam to support a wide range of lighting applications. Native 8° beam angle offers extended light projection. Available glare shields block spill light, while honeycomb louvers limit the spread of light for a more focused and intense beam.
- Versatile light positioning — Fixtures can tilt through a full 180°. Architectural fixtures can also rotate through a full 360° for precise aiming. Locking screws accept standard hex wrenches to secure fixtures firmly in position.
- Universal power input range — Accepts a universal power input range of 100 to 277 VAC, allowing the installation of multiple units in a continuous run.
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.



- Outdoor rated — With a rugged, die-cast aluminum housing fully sealed for maximum fixture life and IP66-rated for outdoor applications, eW Burst Compact Powercore is ideal for use in damp or wet locations.

For detailed product information, please refer to the eW Burst Compact Powercore Product Guide at [www.philipscolorkinetics.com/ls/essentialwhite/ewburstcompactpc/](http://www.philipscolorkinetics.com/ls/essentialwhite/ewburstcompactpc/)


**PHILIPS**

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		<b>ISSUE DATE</b>	4/23/2015
		<b>REVISED</b>	7/6/2015
<b>FIXTURE DESCRIPTION</b>	<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED GROUND MOUNTED ARCHITECTURAL LED SPOTLIGHT WITH 45 DEG GLARE SHIELD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	COLOR KINETICS EW BURST COMPACT POWERCORE 523-000059-03 - ARCHITECTURAL FINISH: GRAY ACCESSORIES: 45DEG GLARE SHIELD - 120-000103-04	<b>LAMP</b>	LED INCLUDED 4000 KELVIN
<b>LOCATION</b> PINES		<b>WATTAGE</b>	15
		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

### Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details	
Output	Lumens†	624 (2700 K*) 812 (4000 K*)	
	Efficacy (lm / W)	41.9 (2700 K) 53.8 (4000 K)	
	CRI	83 (2700 K) 81 (4000 K)	
	Lumen Maintenance‡	90,000 hours L70 @ 25° C 50,000 hours L70 @ 50° C 120,000 hours L50 @ 25° C 90,000 hours L50 @ 50° C	
Electrical	Input Voltage	100 – 277 VAC, auto-switching, 50 / 60 Hz	
	Power Consumption	15 W maximum at full output, steady state	
	Power Factor	.995 @ 120 VAC (2700 K) .994 @ 120 VAC (4000 K)	
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§	
	Dimensions (Height x Width x Depth)	9.85 x 4.5 x 7.0 in (250 x 114 x 178 mm) Architectural 8.06 x 4.5 x 7.0 in (205 x 114 x 178 mm) Landscape	
Physical	Weight	8.7 lb (3.9 kg) Architectural 4.4 lb (2.0 kg) Landscape	
	Housing	Die-cast aluminium, powder-coated finish	
	Lens	Tempered glass	
	Fixture Connections	6 ft (1.8 m) unified power / data cable with flying leads Architectural 6 in (152 mm) flying leads Landscape	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>	
	Vibration Resistance	ANSI C136.31 (Architectural only)	
	Humidity	0 – 95%, non-condensing	
	Certification and Safety	Certification	UL / cUL, FCC Class A, CE, C-Tick, CQC, SAA
		Environment	Dry / Damp / Wet Location, IP66

\* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A. 

† Lumen measurement complies with IES LM-79-08 testing procedures

‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output), L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to [www.philipscolorkinetics.com/support/appnotes/](http://www.philipscolorkinetics.com/support/appnotes/) Im-80-08.pdf for more information.

§ Refer to [www.philipscolorkinetics.com/support/appnotes/](http://www.philipscolorkinetics.com/support/appnotes/) for specific details

### Fixtures and Accessories

Use Item Number when ordering in North America.

Item	Type	Housing Color <sup>1</sup>	Item Number	Philips 12NC
eW Burst Compact Powercore Landscape (UL / cUL / CE)	2700 K	Gray	523-000059-00	910503701661
eW Burst Compact Powercore Architectural (UL / cUL)	2700 K	Gray	523-000059-01	910503701662
eW Burst Compact Powercore Architectural (CE)	2700 K	Gray	523-000059-02	910503701663
eW Burst Compact Powercore Architectural (CQC)	2700 K	Gray	523-000059-04	910503701665
eW Burst Compact Powercore Architectural (CQC)	4000 K	Gray	523-000059-05	910503701666
eW Burst Compact Powercore Architectural (CQC)	2700 K	Gray	523-000059-06	910503701747
eW Burst Compact Powercore Architectural (CQC)	4000 K	Gray	523-000059-07	910503701748
Trim Ring		Gray	120-000103-03	910503701420
45° Glare Shield		Gray	120-000103-04	910503701421
Full Height Glare Shield		Gray	120-000103-05	910503701422
Honeycomb Louver		Black	120-000104-01	910503701419
Spread Lenses	14°		120-000080-04	910503701415
	23°		120-000080-05	910503701416
	41°		120-000080-06	910503701417
	10° x 41° asymmetric		120-000080-07	910503701418

<sup>1</sup> Refer to How to Order Specification Sheet for additional housing colors.

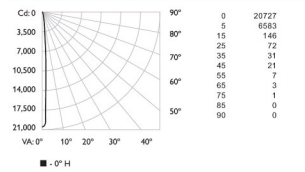


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Tel 617.423.9999  
Fax 617.423.9998  
[www.philipscolorkinetics.com](http://www.philipscolorkinetics.com)

### Photometrics

eW Burst Compact Powercore  
2700 K, 8° native (no spread lens)

#### Polar Candela Distribution



#### Illuminance at Distance

Center Beam fc	Beam Width
4.0 ft	1295 ft
8.0 ft	324 ft
12.0 ft	144 ft
16.0 ft	81 ft
20.0 ft	52 ft
24.0 ft	36 ft

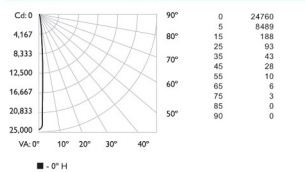
144 ft (43.9 m) 1 fc maximum distance

Lumens 624  
Efficacy 41.9 lm / W

For lux multiply fc by 10.7

eW Burst Compact Powercore  
4000 K, 8° native (no spread lens)

#### Polar Candela Distribution



#### Illuminance at Distance


Center Beam fc	Beam Width
4.0 ft	1548 ft
8.0 ft	387 ft
12.0 ft	173 ft
16.0 ft	97 ft
20.0 ft	62 ft
24.0 ft	43 ft

157 ft (47.9 m) 1 fc maximum distance

Lumens 812  
Efficacy 53.8 lm / W

For lux multiply fc by 10.7

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			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 35 DEG NFL
			<b>WATTAGE</b> 16
<b>LOCATION</b>	SITE-TREES GENERAL		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



Micro-Flood® **EL218**  
 120 to 277 Volt Die-Cast Aluminum LED  
 9/5/13 • kl\_el218led\_spec.pdf

<b>Type:</b>	<b>Approvals:</b>	<b>Date:</b> <b>Page: 1 of 3</b>
<b>Job:</b>		
<b>Fixture Catalog number:</b>	<b>Fixture Options:</b>	
Fixture      Mode      Finish _____ / _____	Ordered separately from fixture, see page 2. See 120 Volt Mounting Options Spec Sheet for mounting options	

### Specifications

**Housing and Lens Frame:** Die-cast low copper alloy (<0.6% Cu) aluminum.

**Swivel:** Die-cast aluminum with locking teeth and 1/2" solid brass NPT mount. Provides horizontal rotation independent of the threaded mount. Swivel locked by 1/4-20 stainless set screw. Clear anodized prior to powder coating for added corrosion resistance.

**Gasketing:** Silicone gaskets throughout.

**Fasteners:** Stainless steel.

**Wiring:** No. 18AWM rated 105°C.

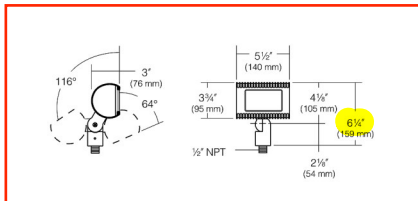
**Optical System:** High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

**Driver:** Universal Voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (GR) Verde Green.

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -08 Luminaires. LEDs and drivers are RoHS compliant.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.



U.S. PATENT D298,656

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.


### ORDERING INFORMATION

Fixture	Source
<input type="checkbox"/> EL218S3 / 8L3KUV'	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S3 / 8L4KUV'	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S3 / 8L5KUV'	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F3 / 8L3KUV'	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F3 / 8L4KUV'	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F3 / 8L5KUV'	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218S5 / 8L3KUV'	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S5 / 8L4KUV'	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S5 / 8L5KUV'	550mA, 16W, 8 LEDs, 5100K
<input checked="" type="checkbox"/> EL218F5 / 8L3KUV'	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F5 / 8L4KUV'	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F5 / 8L5KUV'	550mA, 16W, 8 LEDs, 5100K

'S = Spot, F = Narrow Flood, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

### Finish

- BL - Black
- DB - Dark Bronze
- GR - Verde Green

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p align="center"><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA2</b>
			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 3000K 35 DEG NFL
			<b>WATTAGE</b>	16
<b>LOCATION</b>	SITE-TREES GENERAL		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



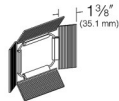
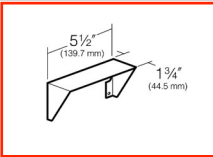
Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
9/5/13 • kl\_el218led\_spec.pdf


Type:  
Job:

Page: 2 of 3



**Fixture Options**  
Ordered Separately from Fixture

<p><b>Barn Doors</b> Cat. No.    Finish <input type="checkbox"/> <b>BD215BL</b>    Black <input type="checkbox"/> <b>BD215DB</b>    Dark Bronze <input type="checkbox"/> <b>BD215GR</b>    Verde Green <input type="checkbox"/> <b>No Option</b></p>	<p>Extruded aluminum, fully adjustable. Provides beam and glare control.</p> 
<p><b>Fixed Hood</b> Cat. No.    Finish <input type="checkbox"/> <b>FH215BL</b>    Black <input checked="" type="checkbox"/> <b>FH215DB</b>    Dark Bronze <input type="checkbox"/> <b>FH215GR</b>    Verde Green <input type="checkbox"/> <b>No Option</b></p>	<p>Formed .062 thick aluminum. Provides glare control.</p> 
<p><b>Mounting</b></p>	<p>Refer to 120 Volt Mounting Options Spec Sheet <a href="http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf">http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf</a> for individual mounting options.</p>

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA2</b>
			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 35 DEG NFL  <b>WATTAGE</b> 16
<b>LOCATION</b>	SITE-TREES GENERAL		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



**KIM LIGHTING**

Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED

9/5/13 • kl\_el218led\_spec.pdf

Type:

Job:

Page: 3 of 3



## Lumen Data

Spectroradiometric			
	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90 @ 120V	>.90 @ 120V	>.90 @ 120V

Electrical Drive Current					
350mA			550mA		
Volts -AC	Amps - AC	System Watts	Volts -AC	Amps - AC	System Watts
120	0.08	10	120	0.13	16
208	0.05	10	208	0.08	16
240	0.04	10	240	0.07	16
277	0.04	10	277	0.06	16


Absolute Lumens			
Temp.	mA	Spot	Narrow Flood
3000K	350	927	651
4200K		1198	873
5100K		1367	942
3000K	550	1317	952
4200K		1772	1224
5100K		2004	1350

Main Beam Candela and Beam Angle					
Temp.	mA	Spot	Beam*	Narrow Flood	Beam*
3000K	350	5878	15°	2652	35°
4200K		7599	15°	3336	35°
5100K		8872	15°	3694	35°
3000K	550	8286	15°	3899	35°
4200K		11447	15°	4431	35°
5100K		12865	15°	5227	35°

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Projected Lumen Maintenance		
TM21-11*	100,000 hrs	Calculated (L70)
.96	.95	927,000 hrs

\* 60,000 hrs, 350mA, Ts 57°C / 25°C ambient.

 <b>THE RUZIKA COMPANY</b> LIGHTING DESIGN AND THEATRICAL CONSULTING	2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>AA3</b>	
				<b>ISSUE DATE</b> 7/6/2015	
				<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>		<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F3/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD		<b>LAMP</b> LED INCLUDED 3000K 35 DEG NFL	
				<b>WATTAGE</b> 10	
<b>LOCATION</b>	SILHOUETTE LIGHTING			<b>VOLTAGE</b> 120-277	
				<b>SOURCE</b> LED	



**Micro-Flood® EL218**  
 120 to 277 Volt Die-Cast Aluminum LED  
 9/5/13 • kl\_el218led\_spec.pdf

<b>Type:</b> <b>Job:</b>  <b>Fixture Catalog number:</b> _____ <small>Fixture    Mode                                  Finish</small>	<b>Fixture Options:</b>  <small>Ordered separately from fixture, see page 2.        See 120 Volt Mounting Options Spec Sheet for mounting options</small>	<b>Approvals:</b>  <b>Date:</b> <b>Page: 1 of 3</b>
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### Specifications

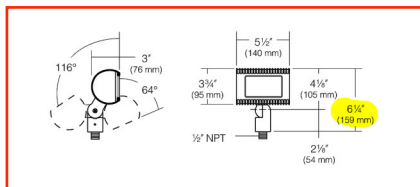
**Housing and Lens Frame:** Die-cast low copper alloy (<0.6% Cu) aluminum.  
**Swivel:** Die-cast aluminum with locking teeth and 1/2" solid brass NPT mount. Provides horizontal rotation independent of the threaded mount. Swivel locked by 1/4-20 stainless set screw. Clear anodized prior to powder coating for added corrosion resistance.  
**Gasketing:** Silicone gaskets throughout.  
**Fasteners:** Stainless steel.  
**Wiring:** No. 18AWM rated 105°C.  
**Optical System:** High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.  
**Driver:** Universal Voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.  
**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (GR) Verde Green.  
**Listed to:** UL 1598 Standard for luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -08 Luminaires. LEDs and drivers are RoHS compliant.  
**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

### ORDERING INFORMATION

Fixture	Source
<input type="checkbox"/> EL218S3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input checked="" type="checkbox"/> EL218F3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218S5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K

\*S = Spot, F = Narrow Flood, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

- Finish**  
 BL - Black  
 DB - Dark Bronze  
 GR - Verde Green



U.S. PATENT D298,656

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA3</b>
			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F3/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 3000K 35 DEG NFL
			<b>WATTAGE</b>	10
<b>LOCATION</b>	SILHOUETTE LIGHTING		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



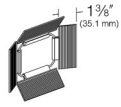
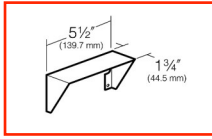
Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
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Type:  
Job:

Page: 2 of 3



**Fixture Options**  
Ordered Separately from Fixture

<p><b>Barn Doors</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>BD215BL</b>    Black</p> <p><input type="checkbox"/> <b>BD215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>BD215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Extruded aluminum, fully adjustable. Provides beam and glare control.</p> 
<p><b>Fixed Hood</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>FH215BL</b>    Black</p> <p><input checked="" type="checkbox"/> <b>FH215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>FH215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Formed .062 thick aluminum. Provides glare control.</p> 
<p><b>Mounting</b></p>	<p>Refer to 120 Volt Mounting Options Spec Sheet <a href="http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf">http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf</a> for individual mounting options.</p>

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA3</b>
			<b>ISSUE DATE</b> 7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F3/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 35 DEG NFL  <b>WATTAGE</b> 10
<b>LOCATION</b>	SILHOUETTE LIGHTING		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



**KIM LIGHTING**

Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED

9/5/13 • kl\_el218led\_spec.pdf

Type:

Job:

Page: 3 of 3



### Lumen Data

Spectroradiometric			
	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90 @ 120V	>.90 @ 120V	>.90 @ 120V

Electrical Drive Current					
350mA			550mA		
Volts -AC	Amps - AC	System Watts	Volts -AC	Amps - AC	System Watts
120	0.08	10	120	0.13	16
208	0.05	10	208	0.08	16
240	0.04	10	240	0.07	16
277	0.04	10	277	0.06	16


Absolute Lumens			
Temp.	mA	Spot	Narrow Flood
3000K	350	927	651
4200K		1198	873
5100K		1367	942
3000K	550	1317	952
4200K		1772	1224
5100K		2004	1350

Main Beam Candela and Beam Angle					
Temp.	mA	Spot	Beam*	Narrow Flood	Beam*
3000K	350	5878	15°	2652	35°
4200K		7599	15°	3336	35°
5100K		8872	15°	3694	35°
3000K	550	8286	15°	3899	35°
4200K		11447	15°	4431	35°
5100K		12865	15°	5227	35°

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Projected Lumen Maintenance		
TM21-11*	100,000 hrs	Calculated (L70)
.96	.95	927,000 hrs

\* 60,000 hrs, 350mA, Ts 57°C / 25°C ambient.

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>COTTONWOODS RESORT</h1> <h2>CP-3</h2> <h3>ASI-03 LIGHTING REVISIONS</h3> <h2>SCOTTSDALE, AZ</h2>	<b>TYPE</b>	<b>AA4</b>
		<b>ISSUE DATE</b>	4/23/2015
		<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>	<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
GROUND MOUNTED EXTERIOR RATED LED PATTERN SPOTLIGHT WITH TWO METAL PATTERNS. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	BEACHSIDE LIGHTING L-011-P-120V-8W-SP-CUSTOM-GS2-SA GOBO PATTERN: TBD PRICE FOR (2) PATTERNS MOUNTING: GS2 HEAVY DUTY GROUND SPIKE; SA SURE AIM LOCKING ROTATION	<b>LAMP</b>	LED INCLUDED 3000 KELVIN 10 DEG
		<b>WATTAGE</b>	8
<b>LOCATION</b> PATTERN EFFECTS ON CASITA WALLS		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

## L-011-P

The L-011-P is a single, brass, projection fixture for landscape applications.

**Construction** All brass components. 0.140" [3.6mm] thick brass housing.

**Lens** Bi-convex optical lens

**L-011-P** 12 Volts, remote transformer required

MR16 Halogen	___ <b>FMV</b>	35 Watt	24° narrow flood
GU5.3, 50 Watts max.	___ <b>EXZ</b>	50 Watt	24° narrow flood
MR16 LED			
Soraa chipset, GU5.3	___ <b>9W-NFL</b>	9 Watt	24° narrow flood
Warm White (3000K)			

**L-011-P-120V** 120 Volts

**L-011-P-230V** 230 Volts

MR16 LED			
Soraa chipset, GU10	___ <b>8W-SP</b>	8 Watt	10° spot
Warm White (3000K)			

**L-011-P-MH-120V** 120 Volts, Ceramic Metal Halide, remote ballast required

**L-011-P-MH-230V** 230 Volts

MR16 metal halide	___ <b>MH20MR16SP</b>	20 Watt	12° spot
GX10	___ <b>MH39MR16SP</b>	39 Watt	12° spot
Warm White (3000K)			

**Optical Accessories**

Gobos are the only optical accessories for this fixture. Metal gobos are 8 mil stainless steel, 51.5mm diameter, with high levels of nickel and chromium to provide long life and excellent image quality. Any gobo pattern, including custom designs, can be ordered with up to a 40mm diameter image area, though 34mm is recommended.

- \_\_\_ **AMPH** Amorphous
- \_\_\_ **EP** Egyptian Palms
- \_\_\_ **WP** Wild Palms
- \_\_\_ **CUSTOM** Consult sales rep for art specifications

**Mounting Accessories**

1/2" male threads. Mounts into any standard j-box or:

- \_\_\_ **GS2** Heavy-duty ground spike
- \_\_\_ **GS2BC** Heavy-duty ground spike with cast brass cap
- \_\_\_ **GS4** \*Standard ground spike with cast brass cap
- \_\_\_ **JB** Cast brass junction box
- \_\_\_ **SA** Sure Aim locking rotation accessory
- \_\_\_ **TDM1** \*Brass tree/deck mount with stainless steel screws
- \_\_\_ **TDM2** \_\_\_ \*Brass tree mount with nylon strap (48, 72, or 96")
- \_\_\_ **TDM2SS** \_\_\_ \*Brass tree mount with stainless steel strap (48, 72, or 96")
- \_\_\_ **TDM3** \*Brass low-profile deck/wall mount (SA accessory recommended)
- \_\_\_ **TDM4** \*Brass low-profile tree mount with notch for wire (SA accessory recommended)
- \_\_\_ **TMJB** \_\_\_ Brass tree-mounted junction box, single fixture mount, stainless steel strap (48, 72, or 96")
- \_\_\_ **TMJB2** \_\_\_ Brass tree-mounted junction box, double fixture mount, stainless steel strap (48, 72, or 96")
- \_\_\_ **TMJBX** Brass tree-mounted junction box, single fixture mount, stainless steel screws
- \_\_\_ **TMJB2X** Brass tree-mounted junction box, double fixture mount, stainless steel screws


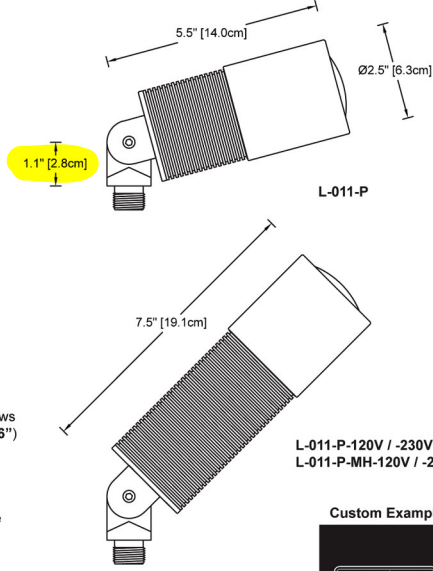
\*This accessory for 12 Volt fixture only.

**Finish:** Unfinished is standard; no specification required. The fixture will weather to a natural patina. The patina process is natural with brass and copper. Rate of patina and eventual color is dependent upon climate and proximity to the ocean. Thus, Beachside does not guarantee any specific appearance.

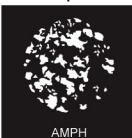
IP 66  
CSA Listed, file #190030  
10 year fixture warranty  
3 year warranty on MR16 LED lamps

**Weight (12 Volt):** 2.8 lbs. [1.3 kg]  
**(120 Volt & MH):** 3.4 lbs. [1.5 kg]

**MADE IN USA**

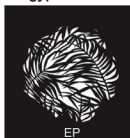



**Amorphous**




AMPH

**Egyptian Palms**




EP

**Wild Palms**



WP

**Custom Example**



Consult sales rep

Project \_\_\_\_\_ By \_\_\_\_\_ Date \_\_\_\_\_


For ordering purposes, please specify (example: L-011-P-120V—8W-SP—EP—TMJB-72)

**L-011-P-** \_\_\_\_\_

Fixture
Lamp
Gobo
Accessory

BEACHSIDE LIGHTING • 800-405-6732 • www.BeachsideLighting.com

March 2015

 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT</b></p> <p><b>CP-3</b></p> <p><b>ASI-03 LIGHTING REVISIONS</b></p> <p><b>SCOTTSDALE, AZ</b></p>	<b>TYPE</b>	<b>AA5a</b>
		<b>ISSUE DATE</b>	6/10/2015
		<b>REVISED</b>	11/10/2015
<b>FIXTURE DESCRIPTION</b>	<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
WET LISTED LED ADJUSTABLE SPOTLIGHTS WITH GLARE SHIELD, SPREAD LENS, AND TREE STRAP MOUNTING	CORE LIGHTING (2 FOCUSED UP) FL401-BZ-SAG (2 FOCUSED DOWN) FL401-BZ-SAG-L2 FINISH: BRONZE ACCESSORIES: ANGLED GLARE SHIELD; SPREAD LENS; ROSCO LUX17 COLOR FILTER; MB-100 TREE	<b>LAMP</b>	LED RETROFIT GE LED7XDMR16827/25 2700 KELVIN
		<b>WATTAGE</b>	7
<b>LOCATION</b> POOL PALM TREE ACCENT LIGHTS		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED RETROFIT

**FL401**  
OUTDOOR LIGHTING LUMINAIRE



Job Name:

Address:



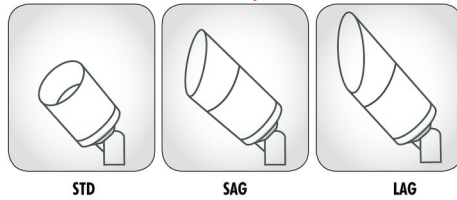
ROC LIGHTING introduces its Architectural Grade outdoor lighting luminaires. Machined from military grade solid aluminum, and treated with a special chromation process, ROC fixtures are designed to withstand the harshest environments, and provide a long lasting durable light source. These premium outdoor lighting fixtures a great source of light in uplight or downlight applications such as landscape lighting, tree-mounted lighting or wall accent/security lighting. Rated for Wet Location.

Architectural Grade MR16 halogen adjustable accent light. Great source of light in uplight or downlight applications such as landscape lighting, tree-mounted lighting or wall accent / security lighting. Rated for wet location

**SPECIFICATIONS:**


- Type: Suspended
- Available Lengths: 48" & 98.5"
- Maximum Load: 45 pounds
- Finish: Silver Anodized
- Lens: Frosted
- Compatible with all all outdoor strips up to 11.5mm wide
- LED strip sold separately
- Remote mounted low voltage power supply sold separately  
*(Power supplies available in 120V & 277V options)*

**CAP STYLES:**








**ORDERING GUIDE:**

<b>FL401</b>			
<b>MODEL</b>	<b>FINISH</b>	<b>CAP STYLE</b>	<b>OPTIONAL LENS ACCESSORIES</b>
	WH - White BK - Black BZ - Bronze SI - Silver	STD - Standard Bezel SAG - Short Angle Shield LAG - Long Angle Shield	L1 - Soft Focus L2 - Spread L3 - Liner L4 - Frost L5 - Honeycomb

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>AA5a</b>								
			<b>ISSUE DATE</b> 6/10/2015								
			<b>REVISED</b> 11/10/2015								
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>								
WET LISTED LED ADJUSTABLE SPOTLIGHTS WITH GLARE SHIELD, SPREAD LENS, AND TREE STRAP MOUNTING		CORE LIGHTING (2 FOCUSED UP) FL401-BZ-SAG (2 FOCUSED DOWN) FL401-BZ-SAG-L2 FINISH: BRONZE ACCESSORIES: ANGLED GLARE SHIELD; SPREAD LENS; ROSCO LUX17 COLOR FILTER; MB-100 TREE MOUNTING CANOPY	<table border="1"> <tr> <td style="text-align: center;"><b>LAMP</b></td> <td>LED RETROFIT GE LED7XDMR16827/25 2700 KELVIN</td> </tr> <tr> <td style="text-align: center;"><b>WATTAGE</b></td> <td>7</td> </tr> <tr> <td style="text-align: center;"><b>VOLTAGE</b></td> <td>120</td> </tr> <tr> <td style="text-align: center;"><b>SOURCE</b></td> <td>LED RETROFIT</td> </tr> </table>	<b>LAMP</b>	LED RETROFIT GE LED7XDMR16827/25 2700 KELVIN	<b>WATTAGE</b>	7	<b>VOLTAGE</b>	120	<b>SOURCE</b>	LED RETROFIT
<b>LAMP</b>	LED RETROFIT GE LED7XDMR16827/25 2700 KELVIN										
<b>WATTAGE</b>	7										
<b>VOLTAGE</b>	120										
<b>SOURCE</b>	LED RETROFIT										
<b>LOCATION</b>	POOL PALM TREE ACCENT LIGHTS										



### MOUNTING ACCESSORIES - WALL PLATES

IMAGE	PART NO.	DESCRIPTION	COLOR
	CP-301	<ul style="list-style-type: none"> <li>▶ 3/0 Flat Aluminum Plate</li> <li>▶ Single Mounting Hole</li> <li>▶ 4.75" Round Diameter</li> <li>▶ 1/2" NPS Thread</li> </ul>	<ul style="list-style-type: none"> <li>▶ SA - Silver Anodized</li> <li>▶ BK - Black</li> <li>▶ BZ - Bronze</li> <li>▶ WH - White</li> </ul>
	CP-302	<ul style="list-style-type: none"> <li>▶ 3/0 Flat Aluminum Plate</li> <li>▶ Double Mounting Hole</li> <li>▶ 4.75" Round Diameter</li> <li>▶ 1/2" NPS Thread</li> </ul>	<ul style="list-style-type: none"> <li>▶ SA - Silver Anodized</li> <li>▶ BK - Black</li> <li>▶ BZ - Bronze</li> <li>▶ WH - White</li> </ul>
	CP-401	<ul style="list-style-type: none"> <li>▶ 4/0 Flat Aluminum Plate</li> <li>▶ Single Mounting Hole</li> <li>▶ 4.75" Round Diameter</li> <li>▶ 1/2" NPS Thread</li> </ul>	<ul style="list-style-type: none"> <li>▶ SA - Silver Anodized</li> <li>▶ BK - Black</li> <li>▶ BZ - Bronze</li> <li>▶ WH - White</li> </ul>
	CP-402	<ul style="list-style-type: none"> <li>▶ 4/0 Flat Aluminum Plate</li> <li>▶ Double Mounting Hole</li> <li>▶ 4.75" Round Diameter</li> <li>▶ 1/2" NPS Thread</li> </ul>	<ul style="list-style-type: none"> <li>▶ SA - Silver Anodized</li> <li>▶ BK - Black</li> <li>▶ BZ - Bronze</li> <li>▶ WH - White</li> </ul>
	CP-403	<ul style="list-style-type: none"> <li>▶ 4/0 Flat Aluminum Plate</li> <li>▶ Triple Mounting Hole</li> <li>▶ 4.75" Round Diameter</li> <li>▶ 1/2" NPS Thread</li> </ul>	<ul style="list-style-type: none"> <li>▶ SA - Silver Anodized</li> <li>▶ BK - Black</li> <li>▶ BZ - Bronze</li> <li>▶ WH - White</li> </ul>

### ACCESSORIES

**MB-100**  
Tree/Surface Canopy  
1/2" NPS Thread  
Height 1", Diameter 2 1/4"



**MB-200**  
Mini Surface Wiring Box  
1/2" NPS Thread  
Height 1 5/8", Diameter 2 1/4"



**MB-400**  
Round Surface Canopy  
Mounting onto 4/0 or 3/0 boxes  
Height 1 1/4", Diameter 4 3/4"




**MB-500**  
Round Surface Canopy  
Surface Mount 1/2" NPS Thread  
Height 1 1/4", Diameter 4 3/4"



**MP-100**  
Composite Mounting Spike  
1/2" Female Thread  
Height 8 3/4", Diameter 2"



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA6</b>
			<b>ISSUE DATE</b>  7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 35DEG NFL
			<b>WATTAGE</b> 16
<b>LOCATION</b> SITE - CACTUS		<b>VOLTAGE</b> 120-277	
		<b>SOURCE</b> LED	



Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
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<b>Type:</b> <b>Job:</b>  <b>Fixture Catalog number:</b> _____ / _____ <small>Fixture      Mode                                  Finish</small>	<b>Fixture Options:</b>  <small>Ordered separately from fixture, see page 2. See 120 Volt Mounting Options Spec Sheet for mounting options</small>	<b>Approvals:</b>   <b>Date:</b> <b>Page: 1 of 3</b>
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### Specifications

**Housing and Lens Frame:** Die-cast low copper alloy (<0.6% Cu) aluminum.

**Swivel:** Die-cast aluminum with locking teeth and 1/2" solid brass NPT mount. Provides horizontal rotation independent of the threaded mount. Swivel locked by 1/4-20 stainless set screw. Clear anodized prior to powder coating for added corrosion resistance.

**Gasketing:** Silicone gaskets throughout.

**Fasteners:** Stainless steel.

**Wiring:** No. 18AWM rated 105°C.

**Optical System:** High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

**Driver:** Universal Voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (GR) Verde Green.

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -08 Luminaires. LEDs and drivers are RoHS compliant.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

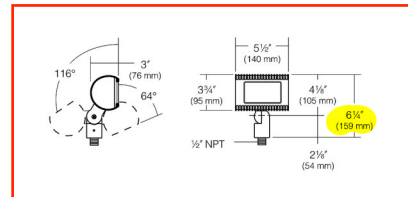
### ORDERING INFORMATION

Fixture	Source
<input type="checkbox"/> EL218S3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218S5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K
<input checked="" type="checkbox"/> EL218F5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K

\*S = Spot, F = Narrow Flood, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

### Finish

- BL - Black
- DB - Dark Bronze
- GR - Verde Green



U.S. PATENT D298,656

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA6</b>
			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 3000K 35DEG NFL
			<b>WATTAGE</b>	16
<b>LOCATION</b>	SITE - CACTUS		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



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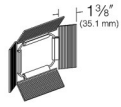
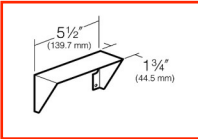
Type:  
Job:

Page: 2 of 3



### Fixture Options

Ordered Separately from Fixture

<p><b>Barn Doors</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>BD215BL</b>    Black</p> <p><input type="checkbox"/> <b>BD215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>BD215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Extruded aluminum, fully adjustable. Provides beam and glare control.</p> 
<p><b>Fixed Hood</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>FH215BL</b>    Black</p> <p><input checked="" type="checkbox"/> <b>FH215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>FH215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Formed .062 thick aluminum. Provides glare control.</p> 
<p><b>Mounting</b></p>	<p>Refer to 120 Volt Mounting Options Spec Sheet <a href="http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf">http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf</a> for individual mounting options.</p>

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA6</b>
			<b>ISSUE DATE</b>  7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218F5/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 35DEG NFL  <b>WATTAGE</b> 16
<b>LOCATION</b>	SITE - CACTUS		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



**KIM LIGHTING**

Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED

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Type:

Job:

Page: 3 of 3



## Lumen Data

Spectroradiometric			
	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90 @ 120V	>.90 @ 120V	>.90 @ 120V

Electrical Drive Current					
350mA			550mA		
Volts -AC	Amps - AC	System Watts	Volts -AC	Amps - AC	System Watts
120	0.08	10	120	0.13	16
208	0.05	10	208	0.08	16
240	0.04	10	240	0.07	16
277	0.04	10	277	0.06	16

Absolute Lumens			
Temp.	mA	Spot	Narrow Flood
3000K	350	927	651
4200K		1198	873
5100K		1367	942
3000K	550	1317	952
4200K		1772	1224
5100K		2004	1350

Main Beam Candela and Beam Angle					
Temp.	mA	Spot	Beam*	Narrow Flood	Beam*
3000K	350	5878	15°	2652	35°
4200K		7599	15°	3336	35°
5100K		8872	15°	3694	35°
3000K	550	8286	15°	3899	35°
4200K		11447	15°	4431	35°
5100K		12865	15°	5227	35°

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Projected Lumen Maintenance		
TM21-11*	100,000 hrs	Calculated (L70)
.96	.95	927,000 hrs

\* 60,000 hrs, 350mA, Ts 57°C / 25°C ambient.



<p><b>THE RUZIKA COMPANY</b>          LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p>2 Executive Circle, Suite 290          Irvine, California 92614</p> <p>(949) 253-3479          (949) 250-0181 fax          info@ruzika.com          www.ruzika.com</p>	<p align="center"><b>COTTONWOODS RESORT          CP-3          ASI-03 LIGHTING REVISIONS          SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA7</b>
				<b>ISSUE DATE</b>	7/6/2015
				<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>		
<p>EXTERIOR RATED STAKE MOUNTED          ADJUSTABLE LED ACCENT LIGHT WITH          FIXED HOOD GLARE SHIELD TO BE          MOUNTED TO CONCRETE PAD 2"          ABOVE EARTH</p>		<p>KIM LIGHTING          EL218S3/8L3KUV-DB-FH215DB          FINISH: DARK BRONZE          ACCESSORIES: FIXED HOOD</p>	<b>LAMP</b>	LED INCLUDED 3000K 15DEG SP	
			<b>WATTAGE</b>	10	
<b>LOCATION</b>	POTS		<b>VOLTAGE</b>	120-277	
			<b>SOURCE</b>	LED	



Micro-Flood® **EL218**  
 120 to 277 Volt Die-Cast Aluminum LED  
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<b>Type:</b> <b>Job:</b>  <b>Fixture Catalog number:</b> <small>Fixture     Mode                             Finish</small>	<b>Fixture Options:</b>  <small>Ordered separately from fixture, see page 2.          See 120 Volt Mounting Options Spec Sheet for mounting options</small>	<b>Approvals:</b>  <b>Date:</b> <b>Page: 1 of 3</b>
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**Specifications**

**Housing and Lens Frame:** Die-cast low copper alloy (<0.6% Cu) aluminum.

**Swivel:** Die-cast aluminum with locking teeth and 1/2" solid brass NPT mount. Provides horizontal rotation independent of the threaded mount. Swivel locked by 1/4-20 stainless set screw. Clear anodized prior to powder coating for added corrosion resistance.

**Gasketing:** Silicone gaskets throughout.

**Fasteners:** Stainless steel.

**Wiring:** No. 18AWM rated 105°C.

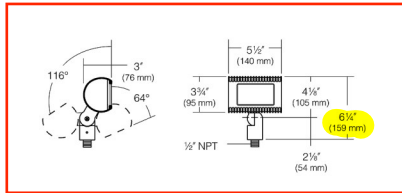
**Optical System:** High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

**Driver:** Universal Voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (GR) Verde Green.

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -08 Luminaires. LEDs and drivers are RoHS compliant.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.




**ORDERING INFORMATION**

Fixture	Source
<input type="checkbox"/> EL218S3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218S5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K

\*S = Spot, F = Narrow Flood, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.

- Finish**
- BL - Black
  - DB - Dark Bronze
  - GR - Verde Green

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA7</b>
			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218S3/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 3000K 15DEG SP
			<b>WATTAGE</b>	10
<b>LOCATION</b>	POTS		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



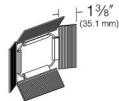
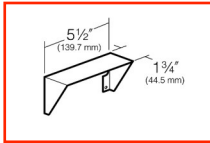
Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
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Type:  
Job:

Page: 2 of 3



**Fixture Options**  
Ordered Separately from Fixture

<p><b>Barn Doors</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>BD215BL</b>    Black</p> <p><input type="checkbox"/> <b>BD215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>BD215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Extruded aluminum, fully adjustable. Provides beam and glare control.</p> 
<p><b>Fixed Hood</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>FH215BL</b>    Black</p> <p><input checked="" type="checkbox"/> <b>FH215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>FH215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Formed .062 thick aluminum. Provides glare control.</p> 
<p><b>Mounting</b></p>	<p>Refer to 120 Volt Mounting Options Spec Sheet <a href="http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf">http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf</a> for individual mounting options.</p>

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA7</b>
			<b>ISSUE DATE</b>  7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218S3/8L3KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 3000K 15DEG SP  <b>WATTAGE</b> 10
<b>LOCATION</b>	POTS		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



**KIM LIGHTING**

Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED

9/5/13 • kl\_el218led\_spec.pdf

Type:

Job:

Page: 3 of 3



## Lumen Data

Spectroradiometric			
	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90 @ 120V	>.90 @ 120V	>.90 @ 120V

Electrical Drive Current					
350mA			550mA		
Volts -AC	Amps - AC	System Watts	Volts -AC	Amps - AC	System Watts
120	0.08	10	120	0.13	16
208	0.05	10	208	0.08	16
240	0.04	10	240	0.07	16
277	0.04	10	277	0.06	16

Absolute Lumens			
Temp.	mA	Spot	Narrow Flood
3000K	350	927	651
4200K		1198	873
5100K		1367	942
3000K	550	1317	952
4200K		1772	1224
5100K		2004	1350

Main Beam Candela and Beam Angle					
Temp.	mA	Spot	Beam°	Narrow Flood	Beam°
3000K	350	5878	15°	2652	35°
4200K		7599	15°	3336	35°
5100K		8872	15°	3694	35°
3000K	550	8286	15°	3899	35°
4200K		11447	15°	4431	35°
5100K		12865	15°	5227	35°

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Projected Lumen Maintenance		
TM21-11*	100,000 hrs	Calculated (L70)
.96	.95	927,000 hrs

\* 60,000 hrs, 350mA, Ts 57°C / 25°C ambient.

	2 Executive Circle, Suite 290 Irvine, California 92614  (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com	<b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b>	<b>TYPE</b>	<b>AA8</b>
			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218S5/8L4KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 4000K 15DEG SP
			<b>WATTAGE</b>	16
<b>LOCATION</b>	HEDGE WALL		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
9/5/13 • kl\_el218led\_spec.pdf

<b>Type:</b>		<b>Approvals:</b>
<b>Job:</b>		
<b>Fixture Catalog number:</b>		
Fixture    Mode                            Finish _____ / _____	<b>Fixture Options:</b>	<b>Date:</b>
	Ordered separately from fixture, see page 2. See 120 Volt Mounting Options Spec Sheet for mounting options	<b>Page: 1 of 3</b>

### Specifications

**Housing and Lens Frame:** Die-cast low copper alloy (<0.6% Cu) aluminum.

**Swivel:** Die-cast aluminum with locking teeth and 1/2" solid brass NPT mount. Provides horizontal rotation independent of the threaded mount. Swivel locked by 1/4-20 stainless set screw. Clear anodized prior to powder coating for added corrosion resistance.

**Gasketing:** Silicone gaskets throughout.

**Fasteners:** Stainless steel.

**Wiring:** No. 18AWM rated 105°C.

**Optical System:** High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

**Driver:** Universal Voltage from 120 to 277V with a ±10% tolerance. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (GR) Verde Green.

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CAN/CSA C22.2 No. 250.0 -08 Luminaires. LEDs and drivers are RoHS compliant.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

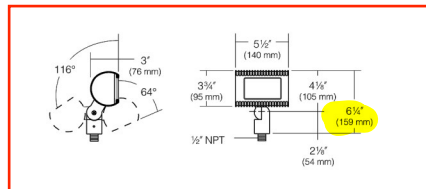
### ORDERING INFORMATION

Fixture	Source
<input type="checkbox"/> EL218S3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218S3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F3 / 8L3KUV	350mA, 10W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F3 / 8L4KUV	350mA, 10W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F3 / 8L5KUV	350mA, 10W, 8 LEDs, 5100K
<input type="checkbox"/> EL218S5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input checked="" type="checkbox"/> EL218S5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218S5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K
<input type="checkbox"/> EL218F5 / 8L3KUV	550mA, 16W, 8 LEDs, 3000K
<input type="checkbox"/> EL218F5 / 8L4KUV	550mA, 16W, 8 LEDs, 4200K
<input type="checkbox"/> EL218F5 / 8L5KUV	550mA, 16W, 8 LEDs, 5100K

\*S = Spot, F = Narrow Flood, UV = Universal Voltage from 120 to 277V with a ±10% tolerance.


#### Finish

- BL - Black
- DB - Dark Bronze
- GR - Verde Green



U.S. PATENT D298,656

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>AA8</b>
			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218S5/8L4KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b>	LED INCLUDED 4000K 15DEG SP
			<b>WATTAGE</b>	16
<b>LOCATION</b>	HEDGE WALL		<b>VOLTAGE</b>	120-277
			<b>SOURCE</b>	LED



Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED  
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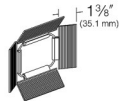
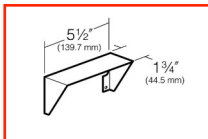
Type:  
Job:

Page: 2 of 3



### Fixture Options

Ordered Separately from Fixture

<p><b>Barn Doors</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>BD215BL</b>    Black</p> <p><input type="checkbox"/> <b>BD215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>BD215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Extruded aluminum, fully adjustable. Provides beam and glare control.</p> 
<p><b>Fixed Hood</b></p> <p>Cat. No.    Finish</p> <p><input type="checkbox"/> <b>FH215BL</b>    Black</p> <p><input checked="" type="checkbox"/> <b>FH215DB</b>    Dark Bronze</p> <p><input type="checkbox"/> <b>FH215GR</b>    Verde Green</p> <p><input type="checkbox"/> <b>No Option</b></p>	<p>Formed .062 thick aluminum. Provides glare control.</p> 
<p><b>Mounting</b></p>	<p>Refer to 120 Volt Mounting Options Spec Sheet <a href="http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf">http://www.kimlighting.com/content/products/specs/specs_files/kl_120vmounting_spec.pdf</a> for individual mounting options.</p>

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>AA8</b>
			<b>ISSUE DATE</b> 7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED STAKE MOUNTED ADJUSTABLE LED ACCENT LIGHT WITH FIXED HOOD GLARE SHIELD TO BE MOUNTED TO CONCRETE PAD 2" ABOVE EARTH		KIM LIGHTING EL218S5/8L4KUV-DB-FH215DB FINISH: DARK BRONZE ACCESSORIES: FIXED HOOD	<b>LAMP</b> LED INCLUDED 4000K 15DEG SP  <b>WATTAGE</b> 16
<b>LOCATION</b>	HEDGE WALL		<b>VOLTAGE</b> 120-277
			<b>SOURCE</b> LED



**KIM LIGHTING**

Micro-Flood® **EL218**  
120 to 277 Volt Die-Cast Aluminum LED

9/5/13 • kl\_el218led\_spec.pdf

Type:

Job:

Page: 3 of 3



## Lumen Data

Spectroradiometric			
	3000K	4200K	5100K
Correlated Color Temp. CCT (K)	2800 to 3175K	3800 to 4600K	4600 to 5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90 @ 120V	>.90 @ 120V	>.90 @ 120V

Electrical Drive Current					
350mA			550mA		
Volts -AC	Amps - AC	System Watts	Volts -AC	Amps - AC	System Watts
120	0.08	10	120	0.13	16
208	0.05	10	208	0.08	16
240	0.04	10	240	0.07	16
277	0.04	10	277	0.06	16


Absolute Lumens			
Temp.	mA	Spot	Narrow Flood
3000K	350	927	651
4200K		1198	873
5100K		1367	942
3000K	550	1317	952
4200K		1772	1224
5100K		2004	1350

Main Beam Candela and Beam Angle					
Temp.	mA	Spot	Beam*	Narrow Flood	Beam*
3000K	350	5878	15°	2652	35°
4200K		7599	15°	3336	35°
5100K		8872	15°	3694	35°
3000K	550	8286	15°	3899	35°
4200K		11447	15°	4431	35°
5100K		12865	15°	5227	35°

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Projected Lumen Maintenance		
TM21-11*	100,000 hrs	Calculated (L70)
.96	.95	927,000 hrs

\* 60,000 hrs, 350mA, Ts 57°C / 25°C ambient.

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>COTTONWOODS RESORT</h1> <h2>CP-3</h2> <h3>ASI-03 LIGHTING REVISIONS</h3> <h2>SCOTTSDALE, AZ</h2>	<b>TYPE</b>	<b>BB1a</b>
		<b>ISSUE DATE</b>	4/23/2015
		<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>	<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED LOW LEVEL 36" LED BOLLARD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	COOPER LUMIERE EON 303-B1-LEDB2-3000-UNV-T2-BZ-36 BEAM: LATERAL THROW FINISH: BRONZE <b>HEIGHT: 36"</b>	<b>LAMP</b>	LED INCLUDED 3000 KELVIN
<b>LOCATION</b> PERIMETER DRIVEWAY		<b>WATTAGE</b>	15.5
		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

## lumière

### DESCRIPTION

Eon 303 - B1 and 303 - B2 are compact, low profile, dimmable, LED bollards that provide downlight only via a fixed head. 303 - B1 has a single head on one side of the luminaire and 303 - B2 has two, integrated heads coming off opposite sides of the luminaire. 303 - B1 and 303 - B2 come standard with universal input LED drivers (120 - 277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver. Eon fixtures may be used indoors or outdoors and carry an IP66 rating. Our patented LumaLevel™ leveling system provides quick installation, easy adjustment, secure mounting and protection from vibration.

### SPECIFICATION FEATURES

#### A ... Material

Head is precision-machined from corrosion-resistant 6061-T8 aluminum. Body is extruded aluminum and corrosion resistant silicone aluminum alloy.

#### B ... Finish

Fixture and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. Mounting base is painted black. Fixture housing and head are available in a variety of standard colors. In addition to the standard five colors offered by Lumiere, the Eon bollards are also available in colors to match other outdoor Cooper brands, such as InVue. See the Finish section in the ordering detail for more information.

#### C ... Lens

Clear, tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. EDGE LIT option: when specified with the EDGE option, the glass will be slightly thicker, clear, tempered and sealed in the same manner referenced above. The added glass thickness will offer a brighter line of light around the edge of the glass that will accentuate the fixture's aesthetics and styling.

#### D ... Adjustable Mounting Base

Cast aluminum mounting base is equipped with the patented LumaLevel™ leveling system that includes mounting chassis, 70 shore neoprene base, stainless steel hardware and 3/4" conduit entry. It provides quick installation, easy adjustment, secure mounting and protection from vibration.

#### E ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

#### F ... Electrical

Both models come standard with universal input LED drivers (120-277, 50/60Hz). The standard driver is ELV reverse phase dimmable.

#### G ... LED

LEDs are included and available in three color temperatures (2700K, 3000K & 4000K) and a variety of optics. Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. 303 - B1 comes standard with two mini lightbars and 303 - B2 comes standard with four mini lightbars.

#### H ... Labels & Approvals

UL and cUL listed, standard wet label. IP66 rated.

#### I ... Warranty

Lumiere warrants its fixtures against defects in materials & workmanship for five (5) years. Auxiliary equipment such as transformers, ballasts and LED drivers carry the original manufacturer's warranty.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>		<b>Date</b>	
<b>Comments</b>			
<b>Prepared by</b>			

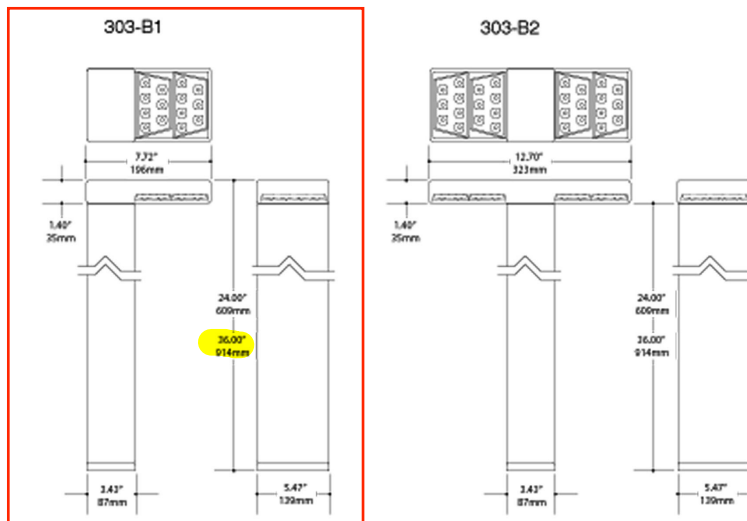



**EON**  
**303-B1 / 303-B2**

15.5 W LED  
31 W LED

LED  
**BOLLARD**

**IP66**



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>BB1a</b>
			<b>ISSUE DATE</b>  4/23/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED LOW LEVEL 36" LED BOLLARD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		COOPER LUMIERE EON 303-B1-LEDB2-3000-UNV-T2-BZ-36 BEAM: LATERAL THROW FINISH: BRONZE <b>HEIGHT: 36"</b>	<b>LAMP</b> LED INCLUDED 3000 KELVIN  <b>WATTAGE</b> 15.5  <b>VOLTAGE</b> 120  <b>SOURCE</b> LED
<b>LOCATION</b>	PERIMETER DRIVEWAY		

**LED INFORMATION**

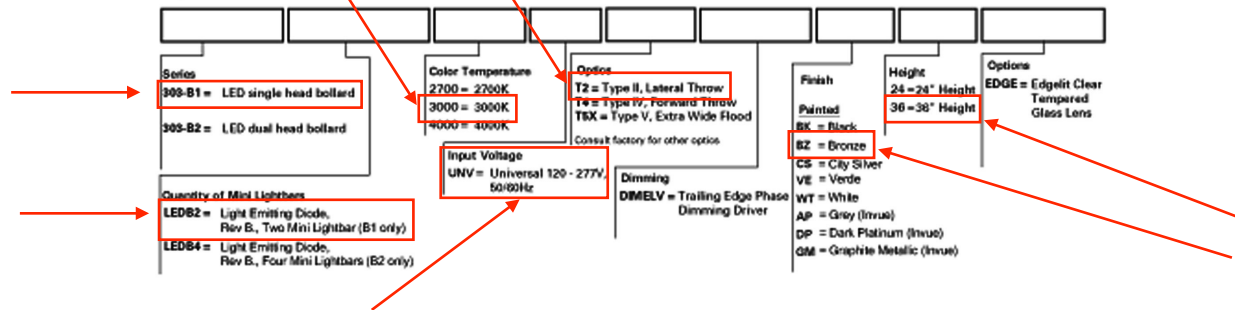
LED	Watts	Distribution	Total Lumens	CRI	°K	Life (hrs.)	Volts
LEDB2 - 2700 - T2	15.5	Type II - Lateral Throw	725	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - T4	15.5	Type IV - Forward Throw	709	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - TSX	15.5	Type V - Flood	626	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T2	15.5	Type II - Lateral Throw	95	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB2 - 3000 - T4	15.5	Type IV - Forward Throw	85	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB2 - 3000 - TSX	15.5	Type V - Flood	65	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB2 - 4000 - T2	15.5	Type II - Lateral Throw	1209	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T4	15.5	Type IV - Forward Throw	1181	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - TSX	15.5	Type V - Flood	1044	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T2	31	Type II - Lateral Throw	1436	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T4	31	Type IV - Forward Throw	1410	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - TSX	31	Type V - Flood	1247	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T2	31	Type II - Lateral Throw	95	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB4 - 3000 - T4	31	Type IV - Forward Throw	85	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB4 - 3000 - TSX	31	Type V - Flood	65	3000	50000	Universal Input (120 - 277V, 50/60Hz)	
LEDB4 - 4000 - T2	31	Type II - Lateral Throw	2393	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T4	31	Type IV - Forward Throw	2350	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - TSX	31	Type V - Flood	2078	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)

**NOTES AND FORMULAS**


- Apply appropriate light loss factors where necessary.
- Photometry is LM-79 compliant.

**ORDERING INFORMATION**

Sample Number: 303 - B1 - LEDB1 - 3000 - UNV - T2 - BZ





 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>COTTONWOODS RESORT</h1> <h2>CP-3</h2> <h3>ASI-03 LIGHTING REVISIONS</h3> <h2>SCOTTSDALE, AZ</h2>	<b>TYPE</b>	<b>BB1b</b>
		<b>ISSUE DATE</b>	4/23/2015
		<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	
EXTERIOR RATED LOW LEVEL 24" LED BOLLARD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		COOPER LUMIERE EON 303-B1-LEDB2-3000-UNV-T4-BZ-24 BEAM: LATERAL THROW FINISH: BRONZE <b>HEIGHT: 24"</b>	
<b>LOCATION</b>	INTERIOR PATHS AT BRIDGES	<b>LAMP</b>	LED INCLUDED 3000 KELVIN
		<b>WATTAGE</b>	15.5
		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

## lumière

### DESCRIPTION

Eon 303 - B1 and 303 - B2 are compact, low profile, dimmable, LED bollards that provide downlight only via a fixed head. 303 - B1 has a single head on one side of the luminaire and 303 - B2 has two, integrated heads coming off opposite sides of the luminaire. 303 - B1 and 303 - B2 come standard with universal input LED drivers (120 - 277V, 50/60 Hz). Dimming is achieved with a standard ELV, reverse phase dimming driver. Eon fixtures may be used indoors or outdoors and carry an IP66 rating. Our patented LumaLevel™ leveling system provides quick installation, easy adjustment, secure mounting and protection from vibration.

### SPECIFICATION FEATURES

#### A ... Material

Head is precision-machined from corrosion-resistant 6061-T8 aluminum. Body is extruded aluminum and mounting resistant silicone aluminum alloy.

#### B ... Finish

Fixture and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. Mounting base is painted black. Fixture housing and head are available in a variety of standard colors. In addition to the standard five colors offered by Lumière, the Eon bollards are also available in colors to match other outdoor Cooper brands, such as InVue. See the Finish section in the ordering detail for more information.

#### C ... Lens

Clear, tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. EDGE LIT option: when specified with the EDGE option, the glass will be slightly thicker, clear, tempered and sealed in the same manner referenced above. The added glass thickness will offer a brighter line of light around the edge of the glass that will accentuate the fixture's aesthetics and styling.

#### D ... Adjustable Mounting Base

Cast aluminum mounting base is equipped with the patented LumaLevel™ leveling system that includes mounting chassis, 70 shore neoprene base, stainless steel hardware and 3/4" conduit entry. It provides quick installation, easy adjustment, secure mounting and protection from vibration.

#### E ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

#### F ... Electrical

Both models come standard with universal input LED drivers (120-277, 50/60Hz). The standard driver is ELV reverse phase dimmable.

#### G ... LED

LEDs are included and available in three color temperatures (2700K, 3000K & 4000K) and a variety of optics. Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. 303 - B1 comes standard with two mini lightbars and 303 - B2 comes standard with four mini lightbars.

#### H ... Labels & Approvals

UL and cUL listed, standard wet label. IP66 rated.

#### I ... Warranty

Lumière warrants its fixtures against defects in materials & workmanship for five (5) years. Auxiliary equipment such as transformers, ballasts and LED drivers carry the original manufacturer's warranty.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>		<b>Date</b>	
<b>Comments</b>			
<b>Prepared by</b>			

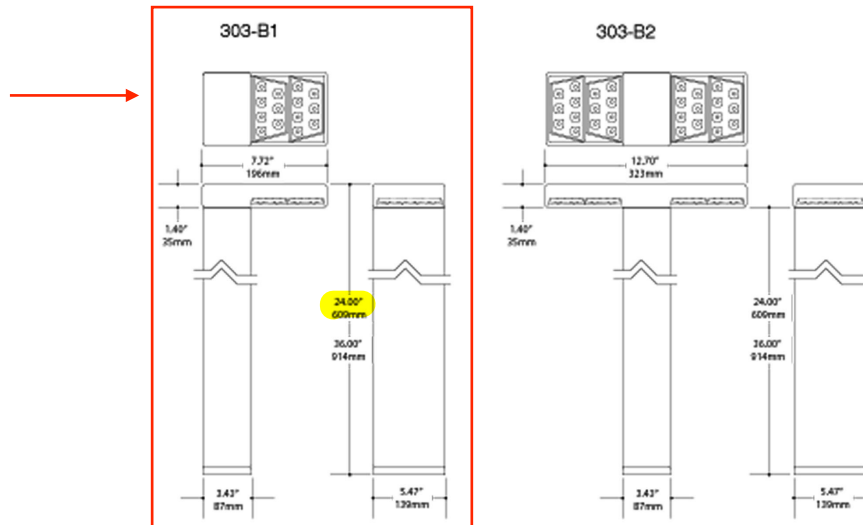



**EON**  
**303-B1 / 303-B2**

15.5 W LED  
31 W LED

LED  
**BOLLARD**

**IP66**



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>BB1b</b>
			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED LOW LEVEL 24" LED BOLLARD. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		COOPER LUMIERE EON 303-B1-LEDB2-3000-UNV-T4-BZ-24 BEAM: LATERAL THROW FINISH: BRONZE <b>HEIGHT: 24"</b>	<b>LAMP</b> LED INCLUDED 3000 KELVIN  <b>WATTAGE</b> 15.5
<b>LOCATION</b>	INTERIOR PATHS AT BRIDGES		<b>VOLTAGE</b> 120
			<b>SOURCE</b> LED

**LED INFORMATION**

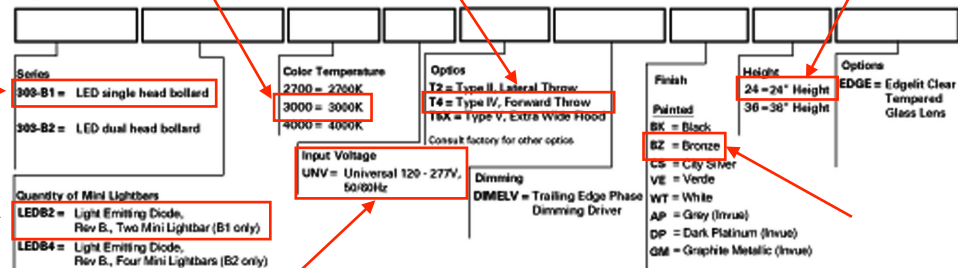
LED	Watts	Distribution	Total Lumens	CRI	°K	Life (hrs.)	Volts
LEDB2 - 2700 - T2	15.5	Type II - Lateral Throw	725	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - T4	15.5	Type IV - Forward Throw	709	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 2700 - TSX	15.5	Type V - Flood	626	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T2	15.5	Type II - Lateral Throw	95	95	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - T4	15.5	Type IV - Forward Throw	85	85	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 3000 - TSX	15.5	Type V - Flood	65	65	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T2	15.5	Type II - Lateral Throw	1209	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - T4	15.5	Type IV - Forward Throw	1181	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB2 - 4000 - TSX	15.5	Type V - Flood	1044	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T2	31	Type II - Lateral Throw	1436	95	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - T4	31	Type IV - Forward Throw	1410	85	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 2700 - TSX	31	Type V - Flood	1247	65	2700	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T2	31	Type II - Lateral Throw	95	95	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - T4	31	Type IV - Forward Throw	85	85	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 3000 - TSX	31	Type V - Flood	65	65	3000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T2	31	Type II - Lateral Throw	2393	95	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - T4	31	Type IV - Forward Throw	2350	85	4000	50000	Universal Input (120 - 277V, 50/60Hz)
LEDB4 - 4000 - TSX	31	Type V - Flood	2078	65	4000	50000	Universal Input (120 - 277V, 50/60Hz)


**NOTES AND FORMULAS**

- Apply appropriate light loss factors where necessary.
- Photometry is LM-79 compliant.

**ORDERING INFORMATION**

Sample Number: 303 - B1 - LEDB1 - 3000 - UNV - T2 - BZ



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>	<b>BB2</b>
			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED LOW LEVEL PATHWAY LIGHT WITH LED RETROFIT LAMP AND STEEL STAKE MOUNTING. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		RAB LL322B FINISH: BLACK	<b>LAMP</b>	LED RETROFIT CREE BA19-08027OMN-12DE26-2U100 2700K
			<b>WATTAGE</b>	75WMAX
<b>LOCATION</b>	INTERIOR PATHS			
		<b>VOLTAGE</b>	120	<b>SOURCE</b>

### LL322B



Rugged die cast aluminum 6" diameter housings. Threaded, gasketed clear glass globe for durable weatherproofing and easy relamping. 1" long, 1/2" threaded nipple included for easy mounting. 75 Watt max. Incandescent lamp not supplied. Fluorescent lamp supplied.

Color: Black

Weight: 2.0 lbs



Project:

Type:

Prepared By:

Date:

#### Lamp Info

Type: A-19  
Watts: 75W  
Shape/Size: N/A  
Base: N/A  
ANSI: N/A  
Hours: 750  
Lamp Lumens: 1,220  
Efficacy: N/A

#### Ballast Info

Type: N/A  
120V: N/A  
208V: N/A  
240V: N/A  
277V: N/A  
Input Watts: 0W

### Technical Specifications

#### Listings

##### UL Listing:

Suitable for wet locations. Suitable for mounting within 4 feet of the ground.

##### Electrical

##### Socket:

Medium base porcelain with all copper electrical parts and 20" leads, including a ground lead.

##### Voltage:

120 volts AC

#### Construction

##### Globes:

Threaded, gasketed globe protects against weather, garden sprinklers and insects. Clear glass GL 100 globes standard for 4 Tier. Clear glass GL60 globes standard for 3 Tier. GL100 white globes also available for attractive appearance and glare reduction.

##### Housing:

Die cast aluminum housing with powder coat finish.

##### Mounting Stem:

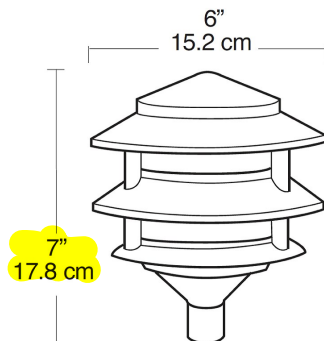
Optional 12" mounting stem with 1/2" threads on both ends available.

#### Optical

##### Lamp:


Incandescent lamp not supplied. Medium base A-19 lamps, 120V. 75 watt max.

### Dimensions

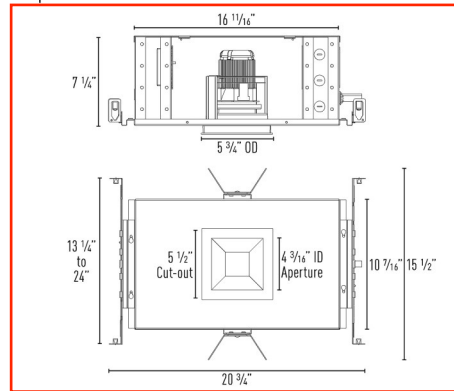


### Features

- Rugged die cast aluminum housing with durable powder coating
- Socket with all copper electrical parts and 20" leads
- Quick and secure installation with one corrosionproof screw
- Threaded, gasketed globes for durable weatherproofing and easy relamping
- 12" color matched mounting stem with 1/2" threads available
- Includes easy mounting 1/2" threaded nipple

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			ISSUE DATE	4/23/2015
			REVISED	
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION	
RECESSED WET LOCATION LISTED LED DOWNLIGHT WITH SQUARE APERTURE AND SOFTENING LENS		INTENSE IL-DSTR-NC-L1-27-DELV-60 TRIM: STRD302-B-SFW-SB-SL LENS: SANDBLASTED AND SOLITE	LAMP	LED INCLUDED 2700 KELVIN
			WATTAGE	13
LOCATION	PATIO CEILING		VOLTAGE	120
			SOURCE	LED

**IL-DSTR / STRD302**  
LED Downlight Square Trim  
Reflector with Regressed Lens



Catalog Number	Delivered Lumens <sup>1</sup>	System Wattage <sup>2</sup>
IL-DSTR-L1	441 lm @ 3000K	12.9W
IL-DSTR-L2	597 lm @ 3000K	19W
IL-DSTR-L3	752 lm @ 3000K	26.6W
IL-DSTR-L4	901 lm @ 3000K	30.5W

<sup>1</sup> Delivered lumens output will vary depending on CCT, CRI and optic selection.  
<sup>2</sup> System Wattage include driver and LED Module consumption.

**OPTICS**  
- Precise center beam optics  
- Accessory holder can hold up-to 2 media  
- 16" Spot, 24" Narrow Flood, 37" Flood and 60" Flood

**LED LIGHT ENGINE**  
- 2700K, 3000K, 3500K and 4100K 82 CRI  
- 2700K and 3000K 92 CRI (R9 Value = 59)  
- 3 Step MacAdam (3 SDMC)  
- LED mounted to die-cast / extruded aluminum heat sink w/ active cooling  
- 50,000 hours average rated life at 70% output  
- LED light engine, SynJet and driver are all accessible from below the ceiling

**THERMAL MANAGEMENT**  
- L3 & L4 utilizes active thermal management with quiet and reliable operation noise rating below 22dBA. 100K hour lifetime.  
- L1 & L2 utilizes passive cooling

**ELECTRICAL SYSTEM**  
- Power factor > .9, 50/60Hz  
- Multiple dimming drivers available  
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.

**HOUSING**  
Heavy duty black powder coated .18 gauge steel frame. Standard plaster frame accommodates 3/4" ceiling thickness. Specify -1 for ceiling thickness up to 1". Junction box and driver are located on opposite ends of the housing, with easy access for maintenance and installation.

**TRIM SPECIFICATION**  
1/2" regressed lens available in three lens types: Sand Blasted, Clear Tempered or Solite. Reflector available in matte black or matte white. Architectural, discrete painted white self flange standard.

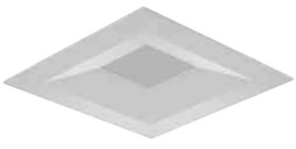
**INSTALLATION**  
Housing types include IC Air-Tight, CCEA (Chicago Plenum), or Non-IC Rated (must specify). Non-IC rated housings must be kept at a minimum of 3" away from insulation. Butterfly brackets and adjustable hanger bars (14"-25") with integral nail included. Butterfly brackets are compatible with C-channel, flat bar hanger and EMT. C-channel is recommended for T-bar ceilings. C-Channel and flat bar hangers must be ordered separately.

**EMERGENCY BACKUP**  
Remote test switch included. Emergency driver operates LED load of up to 7.0 Watts at a nominal 450 lumens for a minimum of 90 minutes. See submittal sheet IB-BSL17C-C2 for specifications.

**ACCESSORIES**  
Integrat accessory holder accommodates (2) diffusion or color filters. See accessory submittal sheet for options. Accessory holder included with luminaire.

**LISTING / WARRANTY**  
- 10 Year Intense LED Limited Warranty  
- ETL listed to US and Canadian standards for wet locations  
- (A-IC Only) Air Tight Certified ASTM E283  
- (A-IC Only) ETL Listed for direct contact w/ insulation  
- (CP Only) CCEA Chicago Plenum

JOB NAME	CATALOG NUMBER
NOTES	TYPE



**Housing Specification:**

Example: IL-DSTR-NCL227D10V-16-EM

- SERIES**  
Non-IC LED **IL-DSTR-NC**  
Air Tight IC LED **IL-DSTR-AIC**  
CCEA LED **IL-DSTR-CP**
- WATTAGE**  
13 Watts **L1**  
17 Watts **L2**  
27 Watts **L3**  
31 Watts **L4**
- CCT / CRI**  
2700K / 82 CRI **27**  
2700K / 92 CRI **279**<sup>1</sup>  
3000K / 82 CRI **30**  
3000K / 92 CRI **309**<sup>1</sup>  
3500K / 82 CRI **35**  
4100K / 82 CRI **41**
- DIMMING**  
Non-Dimming **blank**  
ELV Dimming **DELV**<sup>2</sup>  
0-10V Dimming 10% **DT10V**  
eidoLED 0-10V 0.1% **ED10V1**  
eidoLED 0-10V 0.1% **ED10V1**  
Lutron Hi-Lume<sup>®</sup> 1% **LUT1**  
Lutron EcoSystem<sup>®</sup> 1% **LUT**  
Lutron EcoSystem<sup>®</sup> 5% **LUT5**  
eidoLED DALI 1% **EDALI1**  
eidoLED DALI 0.1% **EDALI01**
- VOLTAGE**  
120V **blank**  
277V **27**
- OPTIC**  
16" Spot **-16**  
24" Narrow Flood **-24**  
37" Flood **-37**  
60" Flood **-60**


**Trim Specification:**

Example: STRD302W-SF-SB

- SERIES**  
Square Trimmed **STRD302**  
Reflector with Regressed Lens
- REFLECTOR / TRIM**  
Matte Black / Self Flanged White **B-SFW**  
Matte White / Self Flanged **W-SF**
- LENS TYPE**  
Clear Tempered **-CR**  
Sand Blasted **-SB**  
Solite **-SL**

Notes:  
1. 97 CRI special order, consult factory  
2. Available in 120V only  
3. Access above ceiling required




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			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
RECESSED WET LOCATION LISTED LED DOWNLIGHT WITH SQUARE APERTURE AND SOFTENING LENS		INTENSE IL-DSTR-NC-L1-27-DELV-60 TRIM: STRD302-B-SFW-SB-SL LENS: SANDBLASTED AND SOLITE	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
			<b>WATTAGE</b>	13
<b>LOCATION</b>	PATIO CEILING		<b>VOLTAGE</b>	120
			<b>SOURCE</b>	LED



<b>JOB NAME</b>		<b>CATALOG NUMBER</b>	
<b>NOTES</b>		<b>TYPE</b>	

**Impression Accessories**

Catalog Number	Description
<b>IMPRESSION DOWNLIGHT ACCESSORIES</b>	
PFL-CL1-S16	Prismatic Spread Lens
PFL-CL2-S16	Linear Spread Lens
PFL-CL4-S16	Solite Lens
PL-CL5-S16	Amber Lens
PL-CL6-S16	Red Lens
PL-CL9-S16	Blue Lens
PFLMB-16	Black Louver

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	<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	
	<b>TECHNICAL INFORMATION</b>			
RECESSED WET LOCATION LISTED LED DOWNLIGHT WITH SQUARE APERTURE AND SOFTENING LENS		<b>LAMP</b> LED INCLUDED 2700 KELVIN		
		<b>WATTAGE</b> 13		
<b>LOCATION</b> PATIO CEILING		<b>VOLTAGE</b> 120		
		<b>SOURCE</b> LED		



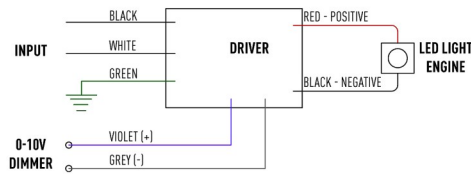
## DIMMING COMPATIBILITY

**0-10V DIMMING (10% Dimming, eldoLED 1%, etdoLED 0.1%)**  
- 120V/277V  
- Dims down to 10% light output  
- Consult dimming manufacturer for installation instructions and power packs

**COMPATIBLE DIMMERS**

Manufacturer	Part Number(s)
HUNT	PS-010-IV-120V, PS-010-WH-120V, PS-010-3W-IV-120, PS-010-3W-WH-120V, PS-010-IV-277V, PS-010-WH-277V, PS-010-3W-IV-277V, PS-010-3W-WH-277V, FD-010, PS-IFC-010-IV, PS-IFC-010-WH-120/277V, FD-010, PS-IFC-010-3W-IV, PS-IFC-010-3W-WH-120/277V, FD-010-120V, FD-010-277V
Leviton	Leviton Centura Fluorescent Control System, IllumaTech™ I/P7 Series, DPSPE-212
Lightolier	ZP600FAM120, MP1500FAM120, V2000FAMU
Lithonia	LED BC, LED LVBC, SLD LVBC, SOTDC
Lutron	DVTV, NTFV
Synergy	ISO BC 120/277

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

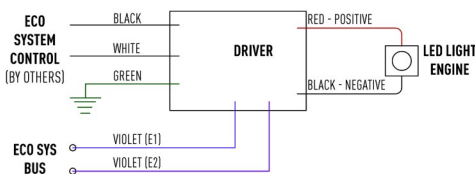


**LUTRON ECOSYSTEM® DIMMING**

- 120V or 277V  
- Dims down to less than 1% or 5% light output  
- Consult dimming manufacturer for installation instructions

**COMPATIBLE DIMMERS**

Product	Part Number(s)
EcoSystem	CS-1L-WM, CS-2L-WM, CS-1L-CM, CS-2L-CM, EcoSystem ESN, Grafik Eye OS with EcoSystem, Quantum



**LUTRON HI-LUME® DIMMING**


- 120V or 277V  
- Dims down to less than 1% light output  
- Consult dimming manufacturer for installation instructions

**COMPATIBLE DIMMERS**

Product	Part Number(s)
NovaT	NTF-10, NTF-103P, NTF-103P-277, NTF-10-277
Nova	NF-10, NF-103P, NF-103P-277, NF-10-277
Vareo	VF-10
Skylark	SF-10P, SF-12P-277, SF-12P-277-3, SF-103P
Diva	DVF-103, DVF-103P-277, DVSCF-103P, DVSCF-103P-277
Ariadni	AYF-103P, AYF-103P-277
Vierti	VTF-6AM
Maestro	MAF-6AM, MAF-6AM-277, MSCF-6AM, MCSF-6AM-277
Maestro Wireless	MRF2-F6AN-DV
Spacer System	SPSF-6A, SPSF-6A-277, SPSF-6AM, SPSF-6AM-277
Lyneo	LXF-103PL, LXF-103PL-277
Radio RA 2	RRD-F6AN-DV
HomeWorks OS	HRD-F6AN-DV



IMPRESSION-LIN-2011-0709-P-01


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			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	7/6/2015
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
<p>EXTERIOR RATED DECORATIVE PENDANT FIXTURE WILL LIKELY REQUIRE 12 VOLT TRANSFORMER. ALL CONDUIT RUN TO FIXTURE TO BE CLEANLY MOUNTED TO TRUNK OF TREE AND SHALL MATCH TRUNK COLOR.</p>		<p>FOSCARINI HAVANA PENDANT MOUNTED</p>	<b>LAMP</b>	GE FLE13HT3/2/SW/CD 2700K
			<b>WATTAGE</b>	13
<b>LOCATION</b>	TREE SPARKLERS / TRELIS		<b>VOLTAGE</b>	120
			<b>SOURCE</b>	CFL

**Havana, outdoor suspension  
design Jozeph Forakis  
2005**

**FOSCARINI**



The young, light-weight appearance recalling the shape of a cigar, which ironically gives it its name, the soft light that it emits and the ease with which it blends in with the most varied contexts, have made it the great success that it is today, so much so that it is also part of the permanent collection on exhibit at the New York MoMA. The outdoor version of Havana consists of a single polyethylene body with signs that recall its division into four segments, a division which distinguishes the design of the indoor version of Havana. The outdoor Havana is available as a suspension or floor lamp in two different heights.

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p align="center"><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>DP1</b>	
			<b>ISSUE DATE</b>	4/23/2015	
			<b>REVISED</b>	7/6/2015	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>		
<p>EXTERIOR RATED DECORATIVE PENDANT FIXTURE WILL LIKELY REQUIRE 12 VOLT TRANSFORMER. ALL CONDUIT RUN TO FIXTURE TO BE CLEANLY MOUNTED TO TRUNK OF TREE AND SHALL MATCH TRUNK COLOR.</p>		<p>FOSCARINI HAVANA PENDANT MOUNTED</p>	<b>LAMP</b>	GE FLE13HT3/2/SW/CD 2700K	
			<b>WATTAGE</b>	13	
<b>LOCATION</b>	TREE SPARKLERS / TRELLIS			<b>VOLTAGE</b>	120
				<b>SOURCE</b>	CFL

## Havana, outdoor suspension technical info


**FOSCARINI**

**Description**  
Suspension lamp with diffused light. Diffuser consisting of a single rotational moulded polyethylene part with direct coupling for assembly onto the support. Diffuser support made of polyester powder coated zamak. Electrical cable covered in neoprene for outdoor use, mounting disk for j-box is included.

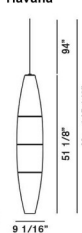
**Materials** Rotational moulded polyethylene and varnished metal

**Colors** white

**Brightness light**  
diffused light



**Model**  
Havana



**Weight**  
net lbs: 6,62  
gross lbs: 10,37

**Packaging**  
vol. cub. ft.: 3,215  
n. boxes: 2

**Bulbs**  
compact fluorescent 1x13W E26 medium  
Incandescent 60W E26

LED compatible

**Cable length**  
94"


**Certifications**  
no canopy included Suitable for wet locations

2D/3D drawings  
photometric info  
assembly instructions

download area





 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p><b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b></p>		<b>TYPE</b>	<b>DP1</b>
			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	7/6/2015
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
<p>EXTERIOR RATED DECORATIVE PENDANT FIXTURE WILL LIKELY REQUIRE 12 VOLT TRANSFORMER. ALL CONDUIT RUN TO FIXTURE TO BE CLEANLY MOUNTED TO TRUNK OF TREE AND SHALL MATCH TRUNK COLOR.</p>		<p>FOSCARINI HAVANA PENDANT MOUNTED</p>	<b>LAMP</b>	GE FLE13HT3/2/SW/CD 2700K
			<b>WATTAGE</b>	13
<b>LOCATION</b>	TREE SPARKLERS / TRELIS		<b>VOLTAGE</b>	120
			<b>SOURCE</b>	CFL

## Havana, outdoor suspension designer+collection

**FOSCARINI**

Jozeph Forakis

An artist and designer of greek origin. after his master's at the Domus Academy in Milan, he worked on various projects and studies to merge design and ergonomics. One of his biggest successes was the admission of his Havana to MoMA of New York, design collection '98.



Watch the video Havana

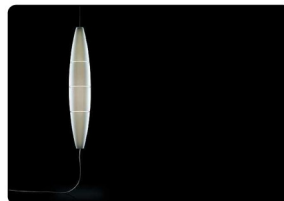


Go to concept site for Havana  
[www.foscarini.com/havana](http://www.foscarini.com/havana)

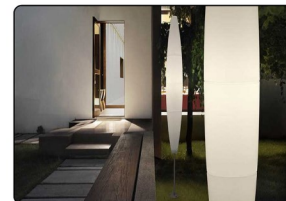
Havana Collection



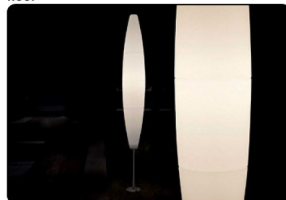
floor



suspension



suspension




outdoor



outdoor

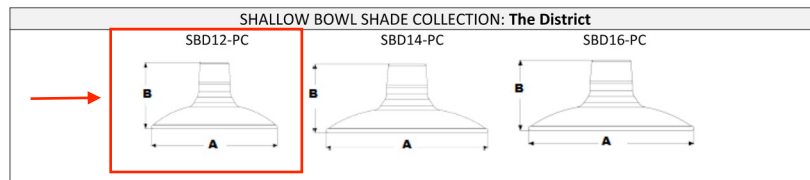


 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>COTTONWOODS RESORT</h1> <h2>CP-3</h2> <h3>ASI-03 LIGHTING REVISIONS</h3> <h2>SCOTTSDALE, AZ</h2>		<b>TYPE</b> <b>DP2</b>
			<b>ISSUE DATE</b> 7/6/2015
			<b>REVISED</b>
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION
PENDANT MOUNTED LED DOME FIXTURE		BARN LIGHTING THE DISTRICT LED S-SBD12-PC-<FINISH>-<STEM MOUNTING>-<STEM FINISH>-DOME LENSED LED-2700K 12" SHADE	<b>LAMP</b> LED INCLUDED 2700 KELVIN  <b>WATTAGE</b> 12
<b>LOCATION</b>	TRELLIS - BLDG 22/23		<b>VOLTAGE</b> 120
			<b>SOURCE</b> LED

SP0140 REV A




Item #	Diameter (A)	Height (B)
SBD12-PC	12"	5 1/4"
SBD14-PC	14"	6"
SBD16-PC	16"	6 3/4"



Model #	Item #	Standard Finishes	Mounting Options	Mounting Color	Optional Accessories	Accessory Colors	Wattage/Lamp Options	Ballast	Voltage
C- Cord Hung	SBD12-PC SBD14-PC SBD16-PC	<b>Powder Coat:</b> 100-Black 200-White 300-Dark Green 600-Bronze 605- Rust  <b>Other:</b> 975- Galvanized  <i>For additional colors, see color chart</i>	<b>Cord:</b> Standard <sup>1</sup> : SBK Black SWH White Cotton <sup>2</sup> : CRZ Red Chevron CGM Grey CBK Black Cotton Twists <sup>2</sup> : TBR Brown TBK Black TPT Putty  <b>Stem:</b> ST _____ *Specify stem model  <b>Gooseneck:</b> G _____ *Specify gooseneck model  <b>Flush Mount:</b> FM _____  <b>Chain Hung</b> <sup>3</sup> : CN Standard length is 3 ft.  <i>For additional mounting options and details, see mounting option chart</i>	Standard Finish for ALL Mounting is: Same as fixture // Leave Code Blank  <b>OR</b>  <b>Cord:</b> Canopy color: 100- Black 200-White  <b>Stem and Gooseneck :</b> 100- Black 200- White 975- Galvanized 980- Brushed Aluminum  <b>Chain :</b> Chain & Canopy color: 100- Black 200- White 975- Galvanized  <i>For additional colors, see color chart</i>	<b>CGG- Cast Guard and Glass</b> <sup>4</sup>  <b>WGG- Wire Guard and Glass</b> <sup>4</sup>  <b>TGG- Heavy Duty Cast Guard and Glass</b> <sup>4</sup>  <b>WC- Wire Cage</b>  <b>HSC- Hang Straight Canopy</b>  <b>HDSM- Heavy Duty Stem Mount Canopy</b>  <b>HDBP- Heavy Duty Backing Plate</b>	Standard Finish for Accessories is: Same as fixture // Leave Code Blank  <b>OR</b>  <b>Powder Coat:</b> 100-Black 400-Barn Red 975-Galvanized  <i>For additional colors, see color chart</i>  <b>Vapor Proof Glass</b> <sup>4</sup> : CLR- Clear FST- Frosted RIB- Ribbed  <i>For additional glass options, see guard and glass chart</i>	200 Watt maximum  GU-24 Bi-Pin (Max 23 watt per socket)		120V
BLE-C	SBD16-PC	100	SBK		CGG	100-FST			
<b>ORDER SPECIFICS</b>									
BLE-	-PC								

Notes:  
<sup>1</sup> Suitable for Damp locations. Standard length 8 feet. <sup>2</sup> Suitable for Dry locations Only (Not CSA listed). Standard length 6 feet. <sup>3</sup> Standard length is 3ft. <sup>4</sup> Additional lengths available on Cord, Stem & Chain  
<sup>5</sup> Guard/Glass options reduce wattage to 100W & GU-24 Bi-Pin to 18W. Suitable for Wet Location (except when cord mounted)

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			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
PENDANT MOUNTED LED DOME FIXTURE		BARN LIGHTING THE DISTRICT LED S-SBD12-PC-<FINISH>-<STEM MOUNTING>-<STEM FINISH>-DOME LENSED LED-2700K 12" SHADE	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
			<b>WATTAGE</b>	12
<b>LOCATION</b>	TRELLIS - BLDG 22/23	<b>VOLTAGE</b>		120
		<b>SOURCE</b>		LED



LED AND DRIVER SPECIFICATION SHEETS

POWERED BY: 



LED FEATURES

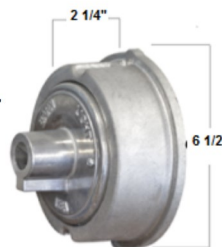
- Cree TrueWhite® Technology; >90 CRI for all available CCTs (2700 K to 4000 K)
- >95 LPW Light Source Efficacy
- 850, 1250, 2000, 3000 & 4000 Lumens Nominal
- Power input: 120V
- Dimming options include: 1-10V/0-10V, DALI and DALI Touch Dimming
- Supports dimming to 5%
- UL Approval
- California Title 24 compliance (120V)
- LED LM-80 data available
- Available in 2700 K
- ≥ 90 CRI for all CCTs
- 5-year Limited System Warranty
- Designed to last 50,000 hours at L70
- No UV in light output
- No Mercury In light source


\*2000, 3000 & 4000 Lumens take Dome Lens Only

**CORD**

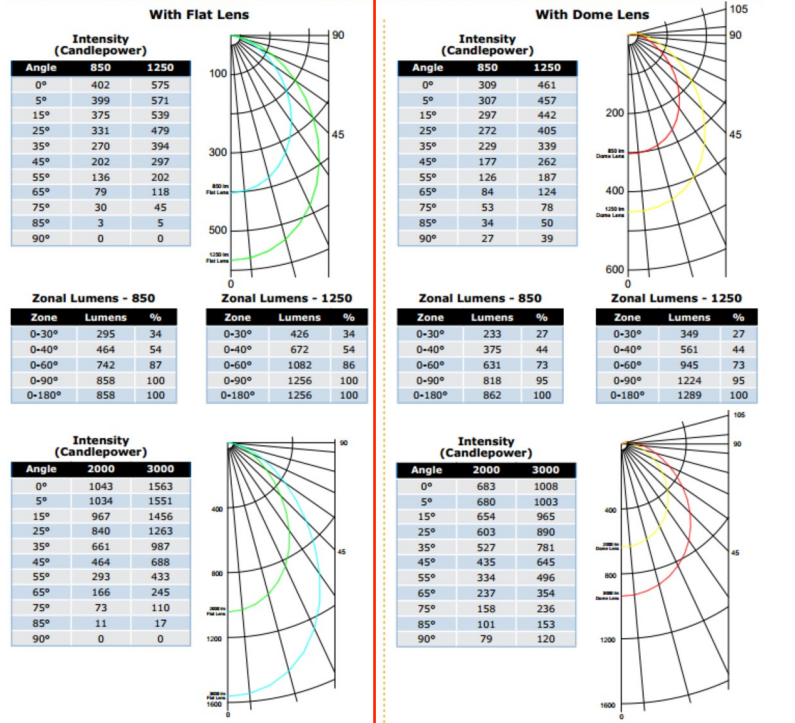
**GOOSENECK**


**STEM**

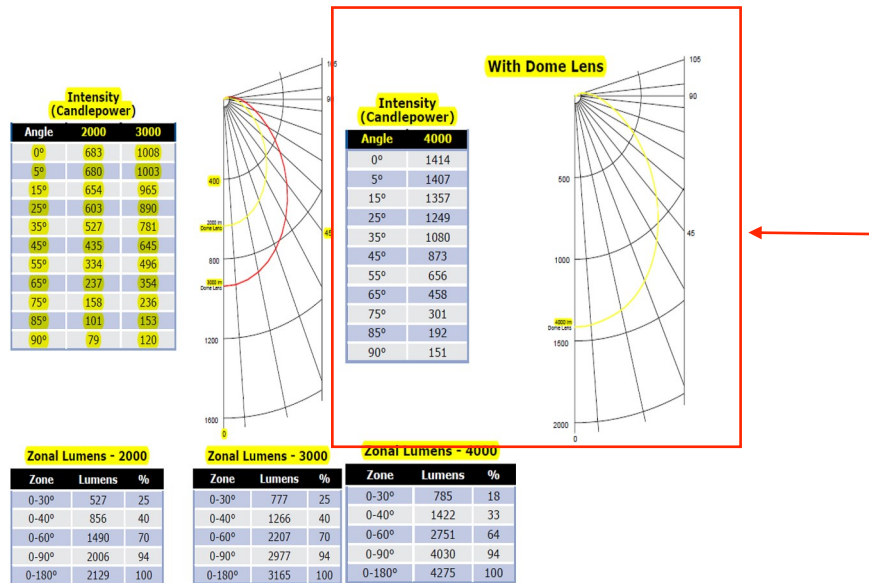


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			<b>ISSUE DATE</b> 7/6/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
PENDANT MOUNTED LED DOME FIXTURE		BARN LIGHTING THE DISTRICT LED S-SBD12-PC-<FINISH>-<STEM MOUNTING>-<STEM FINISH>-DOME LENSED LED-2700K 12" SHADE	<b>LAMP</b> LED INCLUDED 2700 KELVIN
			<b>WATTAGE</b> 12
<b>LOCATION</b> TRELLIS - BLDG 22/23			<b>VOLTAGE</b> 120
			<b>SOURCE</b> LED

**PHOTOMETRY**



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>	<b>DP2</b>	
			<b>ISSUE DATE</b>	7/6/2015	
			<b>REVISED</b>		
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>		
PENDANT MOUNTED LED DOME FIXTURE		BARN LIGHTING THE DISTRICT LED S-SBD12-PC-<FINISH>-<STEM MOUNTING>-<STEM FINISH>-DOME LENSED LED-2700K 12" SHADE	<b>LAMP</b>	LED INCLUDED 2700 KELVIN	
			<b>WATTAGE</b>	12	
<b>LOCATION</b>	TRELLIS - BLDG 22/23			<b>VOLTAGE</b>	120
				<b>SOURCE</b>	LED




## Cree® LMD300, LMD400 & LMD600 LED Module Drivers



### DRIVER FEATURES

- Input voltage: 120V
- TRIAC dimming support for 120V
- Optimized for Cree LMH2 850 Lumens & 1250 lumens light sources

\*Higher Lumens: 2000, 3000 & 4000  
0-10 Dimming-Low Voltage  
Additional wiring required

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			<b>ISSUE DATE</b>	7/6/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
PENDANT MOUNTED LED DOME FIXTURE		BARN LIGHTING THE DISTRICT LED S-SBD12-PC-<FINISH>-<STEM MOUNTING>-<STEM FINISH>-DOME LENSED LED-2700K 12" SHADE	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
			<b>WATTAGE</b>	12
<b>LOCATION</b>	TRELLIS - BLDG 22/23		<b>VOLTAGE</b>	120
			<b>SOURCE</b>	LED

#### CHARACTERISTICS - LMD125 120-V DRIVER

Order Code: LMD125-0018-C440-1010000

Characteristics	Unit	Minimum	Typical	Maximum
Input voltage range	VAC	108	120	132
Input power	W			18
Output current	mA		440	
Output voltage	V	21		35
Driver efficacy (@ 55 °C) - with LMH2 850-lm light source	%		80	
Driver efficacy (@ 55 °C) - with LMH2 1250-lm light source	%		81	
Power factor - with LMH2 850-lm light source			0.97	
Power factor - with LMH2 1250-lm light source			0.99	
LED driver case temperature	°C	0		80

#### CHARACTERISTICS - LMD400 120- TO 277-V 0/1-10 V DIMMING DRIVER


Order Code: LMD400-0048-C940-7030000

Characteristics	Unit	Minimum	Typical	Maximum
Input voltage range	VAC	108		305
Input power	W			48
Output current	mA		940	
Output voltage	V			22-44
Driver efficiency (@ 55 °C) - with LMH2 2000-lm light source	%		85	
Driver efficiency (@ 55 °C) - with LMH2 3000-lm light source	%		86	
Driver efficiency (@ 55 °C) - with LMH2 4000-lm light source	%		87	
Power factor - with LMH2 2000-lm light source			0.95	
Power factor - with LMH2 3000-lm light source			0.95	
Power factor - with LMH2 4000-lm light source			0.95	
LED driver case temperature	°C	0		90

#### Dimming

The LMH2 2000-, 3000- and 4000-lm light sources can use the LMD300 LED module driver with either DALI + Touch dimming or 0/1-10 V dimming and use the LMD400 LED module driver with 0/1-10 V dimming

Driver	Input Voltage	Dimming	Lowest Light Level
LMD300-0040-C900-8030000	100-240 V	0/1-10 V	10%
LMD300-0040-C900-7030000	120-277 V	0/1-10 V	10%
LMD300-0040-C900-2030000	220-240 V	0/1-10 V	10%
LMD300-0040-C900-2020000	220-240 V	DALI + Touch	10%
LMD400-0048-C940-7030000	120-277 V	0/1-10 V	10%
LMD600-0100-C1A7-7030000	100-277 V	0/1-10 V	1%

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		<b>ISSUE DATE</b>	6/10/2015
		<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	
SURFACE MOUNTED LOW VOLTAGE SINGLE COLOR WARM WHITE LED LINEAR STRIP LIGHT WITH 45 DEGREE MOUNTING CHANNEL AND REMOTE ACCESSIBLE DIMMABLE MAGNETIC LOW VOLTAGE DRIVER		CALI LIGHTING LPL8150-UCM-4WDM-LED-2.7K-WET CONTRACTOR TO PROVIDE NECESSARY DIMMABLE MAGNETIC LOW VOLTAGE DRIVERS. VERIFY MAXIMUM WIRE LENGTH TO PREVENT VOLTAGE DROP.	
<b>LOCATION</b>	VALET DESK BRIDGES	<b>LAMP</b>	LED INLCUDED WARM WHITE 2700 KELVIN
		<b>WATTAGE</b>	4W/LFT
		<b>VOLTAGE</b>	120
		<b>SOURCE</b>	MAGNETIC LOW VOLTAGE/

## lipLITE™

Manufactured in the U.S.A.

FEATURES	
<b>APPLICATIONS</b>	Accent, Decorative Ltg.
<b>VOLTAGE</b>	12V (2W); 24V (4W)
<b>LAMP TYPE</b>	LEDs
<b>L70 LED LIFE</b>	50,000 hrs.
<b>WATTS</b>	2 Watts or 4 Watts
<b>DIMMING</b>	Dimmable System
<b>LENGTH</b>	Built to Order
<b>TYPICAL CRI</b>	85
<b>WIRING</b>	Parallel
<b>MOUNTING</b>	Channel, Clips, or Adhesive Tape
<b>LISTING</b>	Dry or Wet Location

**APPLICATIONS**

Designed for indoor or outdoor use, lipLITE Series is ideal for many applications including the amusement, recreation, and architectural industries. lipLITE is excellent for decorative lighting, accent lighting, path lighting, and many more applications.


lipLITE is used in: Restaurants, Casinos, Retail Stores, Shopping Malls, Hotels, Movie Theatres, and many more.

**ELECTRICAL**


lipLITE is a 12V or 24V system. lipLITE requires 12V or 24V (secondary side) transformer. The standard primary side voltage on our transformers is 120V or 277V. Consult factory for other primary side voltages. Product is field cuttable.

**ACCESSORIES**

**POWER CONNECTOR (#LPL8150-PC)**



**CONTINUOUS CONNECTOR (#LPL8150-CC)**



**MODEL NUMBER** LPL8150 **FIXTURE TYPE**

**HOW TO ORDER OR SPECIFY Product Code: (Fill in the Blanks)**

SERIES	WATTS PER FOOT	LAMP	DRY OR WET
<i>Example: LPL8150-STF</i>	<i>2W</i>	<i>LED-2.7K</i>	<i>DRY</i>
LPL8150	2 Watts (2W)	LED-2.4K	Indoor (DRY)
LPL8150-UC	4 Watts (4W)	LED-2.7K	Outdoor (WET)
LPL8150-ST	2 Watts Dimming	LED-3.0K	
LPL8150-STF (Frosted)	(2WDM)	LED-3.5K	
	4 Watts Dimming	LED-4.0K	
	(4WDM)	LED-4.5K	
		LED-5.0K	
		LED-5.7K	

**LED SPECIFICATIONS**


LAMP NUMBER	DESCRIPTION	LUMENS PER WATT	VIEWING ANGLE	MAXIMUM RUN
LED-2.4K	2400K Incand. White	75	120	36'
LED-2.7K	2700K Warm White	75	120	36'
LED-3.0K	3000K Warm White	75	120	36'
LED-3.5K	3500K Neutral White	75	120	36'
LED-4.0K	4000K Neutral White	75	120	36'
LED-4.5K	4500K Neutral White	75	120	36'
LED-5.0K	5000K Cool White	75	120	36'
LED-5.7K	5700K Cool White	75	120	36'

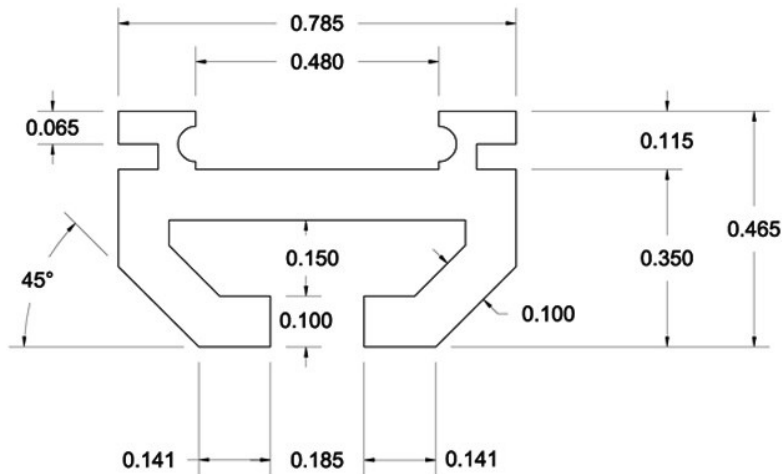


CALIFORNIA ACCENT LIGHTING, INC.  
2034 E. Lincoln Ave. #431, Anaheim, CA 92806  
ph. 800.921.CALI (2254) or 714.535-7900 \ fax. 714.535.7902  
info@calilighting.com \ calilighting.com

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			<b>ISSUE DATE</b>	6/10/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
<p>SURFACE MOUNTED LOW VOLTAGE SINGLE COLOR WARM WHITE LED LINEAR STRIP LIGHT WITH 45 DEGREE MOUNTING CHANNEL AND REMOTE ACCESSIBLE DIMMABLE MAGNETIC LOW VOLTAGE DRIVER</p>		<p>CALI LIGHTING LPL8150-UCM-4WDM-LED-2.7K-WET CONTRACTOR TO PROVIDE NECESSARY DIMMABLE MAGNETIC LOW VOLTAGE DRIVERS. VERIFY MAXIMUM WIRE LENGTH TO PREVENT VOLTAGE DROP. VERIFY NECESSARY LENGTHS WITH ID DRAWINGS. PROVIDE ALL NECESSARY FEED CONNECTORS, AND M</p>	<p><b>LAMP</b> LED INLCUDED WARM WHITE 2700 KELVIN</p>	
			<p><b>WATTAGE</b> 4W/LFT</p>	
<b>LOCATION</b>	VALET DESK BRIDGES		<p><b>VOLTAGE</b> 120</p>	
			<p><b>SOURCE</b> MAGNETIC LOW VOLTAGE/</p>	




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California Accent Lighting, Inc.  
2034 E. Lincoln Ave. #431 Anaheim, CA 92806

<b>NAME</b> LPL8150 - UCM			
<b>DRAWN BY</b>	<b>DATE</b>	<b>SCALE</b> NONE	<b>SHEET</b>
<b>APPROVED BY</b>	<b>DATE</b>	<b>TOLERANCE UNLESS OTHERWISE SPECIFIED</b>	
<b>DRAWING NUMBER</b>	<b>PART NUMBER</b>	<b>REV.</b>	





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			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b> 11/10/2015
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED COMPACT FLUORESCENT PARKING LOT POLE LIGHT WITH 12 FOOT POLE. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		BEGA 7980P POLE: 0908HR POLE HEIGHT: 9'-8" FINISH: TBD HEIGHT: 12'	<b>LAMP</b> GX24q-3 3000 KELVIN
			<b>WATTAGE</b> 32
<b>LOCATION</b> PARKING LOTS			<b>VOLTAGE</b> 120
			<b>SOURCE</b> COMPACT FLUORESCENT

Pole top luminaires  
with asymmetrical wide spread light distribution

**Housing/fitter:** Heavy one piece die-cast aluminum (minimum .125" thick) with specular anodized aluminum reflector. Slip fitter and arm extensions are die-cast aluminum secured by six (6) socket head stainless steel set screws threaded into stainless steel inserts. Pole extension is extruded aluminum with a die-cast aluminum cap. Slip fits 3" O.D. pole top or tenon. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

**Enclosure:** One piece die-cast aluminum, hinged, trim frame with 1/4" thick tempered glass, silicone sealed to trim. Tool-less entry for maintenance. Fully gasketed for weather tight operation for downlighting only.

**Electrical:** Lampholders: Fluorescent type multiple wattage sockets are GX24q-3, GX24q-4 (26, 32, 42W). Ballasts are located in the luminaire and are electronic universal voltage, available 120V through 277V, minimum start temperature of -22°C.

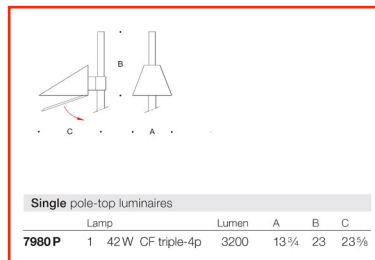
**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.


**UL** listed for US and Canadian Standards, suitable for wet locations. Protection class: IP66.

**Weight:** 25.4 lbs.

**Effective Projection Area (EPA):** 1.4 ft<sup>2</sup>

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<h1>COTTONWOODS RESORT</h1> <h2>CP-3</h2> <h3>ASI-03 LIGHTING REVISIONS</h3> <h4>SCOTTSDALE, AZ</h4>		<b>TYPE</b> PP1
			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b> 11/10/2015
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
EXTERIOR RATED COMPACT FLUORESCENT PARKING LOT POLE LIGHT WITH 12 FOOT POLE. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	BEGA 7980P POLE: 0908HR POLE HEIGHT: 9'-8" FINISH: TBD <b>HEIGHT: 12'</b>	<b>LAMP</b> GX24q-3 3000 KELVIN	
		<b>WATTAGE</b> 32	
<b>LOCATION</b> PARKING LOTS		<b>VOLTAGE</b> 120	
		<b>SOURCE</b> COMPACT FLUORESCENT	

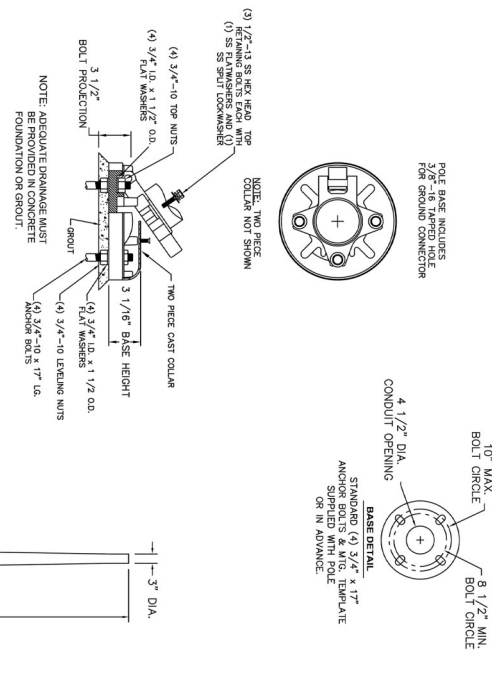
**DISCLAIMER**

BEGA - US WARRANTS THE SPECIFIC ANCHOR BOLTS & NUTS (AND DESCRIPTIONS) AND STRUCTURAL CHANGES TO THE POLE REQUESTED BY THE CUSTOMER. BEGA - US IS NOT RESPONSIBLE FOR THE INCOMPATIBILITY OF THE ANCHOR BOLTS AND POLES WITHOUT REVIEW BY THE BEGA - US ENGINEERING DEPT. CHANGES TO THE POLE REQUIRE ADEQUATE PREPARATION AND SHIPPING.

SEE LUMINAIRE SPECIFICATION SHEET FOR ADDITIONAL DETAILS

POLE NO.	MPH - 70	80	100	120
0908HR	EPA - 18.1	13.2	10.0	7.7

NOTE: DATA ABOVE ASSUMES GRADE LEVEL INSTALLATION AND CAUTION: RAISING OR LOWERING OF THE POLE REQUIRES ADEQUATE PREPARATION AND SHIPPING.



POLE BASE INCLUDES 3/8" x 16 TAPERED HOLES FOR GROUND CONNECTOR

NOTE: TWO PEGS TO BE SHOWN

NOTE: ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION OR GROUT.

NOTE: (3) 1/2"-13 SS HEX HEAD TOP RETAINING BOLTS EACH WITH (1) 3/4" x 1 1/2" SS SHUT LOCK WASHER

(4) 3/4"-10 TOP NUTS

(4) 3/4" ID. x 1 1/2" O.D. FLAT WASHERS

3 1/2" BOLT PROJECTION

NOTE: TWO PEGS TO BE SHOWN

(4) 3/4"-10 TOP NUTS

(4) 3/4" ID. x 1 1/2" O.D. FLAT WASHERS

3 1/16" BASE HEIGHT

3 1/2" BOLT PROJECTION

(4) 3/4"-10 x 1 1/2" O.D. FLAT WASHERS

(4) 3/4"-10 x 1 1/2" LG. ANCHOR BOLTS

NOTE: ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION OR GROUT.

1" TO 6" OD TAPERED ALUM. POLE W/ WINGED BASE, W/ BEGA

12 5/8" DIA.

3" DIA.

10" MAX. BOLT CIRCLE

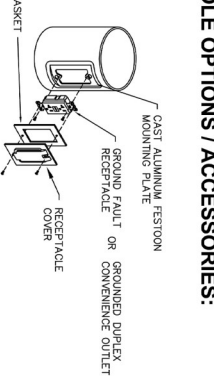
8 1/2" MIN. BOLT CIRCLE

4 1/2" DIA. CONDUIT OPENING

BASE DETAIL

STANDARD (3) 3/8" x 1 1/2" ANCHOR BOLTS TO BE SUPPLIED WITH POLE OR IN ADVANCE.

**RECEPTACLE OPTION**



NOTE: GFI COVERS PROVIDED ARE INTENDED FOR PORTABLE EQUIPMENT CONNECTED TO THE OUTLET WHEN ATTENDED. WET LOCATION LISTED WHEN COVER IS CLOSED.

RECEPTACLE OPTION

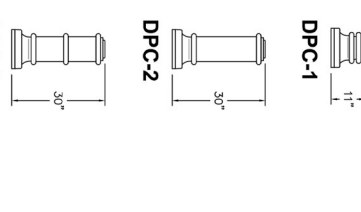
GASKET

CAST ALUMINUM RESTON MOUNTING PLATE

GROUND FAULT OR GROUNDED DUPLEX RECEPTACLE

RECEPTACLE COVER

**POLE OPTIONS / ACCESSORIES:**



DPC-1 11"

DPC-2 30"


DPC-3 30"

DECORATIVE POLE BASE COVERS (DPC)


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Catalog No.:	0908HR		
Description:	POLE - Aluminum Tapered 3" to 5" Dia. x 9'-8"		
Drawn by:	Bob Mc	Date:	4/15/14
		File Name:	0908HR

SCALE: NONE - DO NOT SCALE DRAWING



1000 Bega Way  
Carpinteria, Ca. 93013  
(805) 684-0533

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			<b>ISSUE DATE</b> 4/23/2015								
			<b>REVISED</b> 7/6/2015								
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>								
EXTERIOR RATED POST TOP POLE LIGHT WITH 12 FOOT POLE. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		BEGA 7120LED-K3-<FINISH> FINISH: TBD POLE: 906HR HEIGHT: 12'	<table border="1"> <tr> <td><b>LAMP</b></td> <td>LED INCLUDED 3000 KELVIN</td> </tr> <tr> <td><b>WATTAGE</b></td> <td>39</td> </tr> <tr> <td><b>VOLTAGE</b></td> <td>120</td> </tr> <tr> <td><b>SOURCE</b></td> <td>LED</td> </tr> </table>	<b>LAMP</b>	LED INCLUDED 3000 KELVIN	<b>WATTAGE</b>	39	<b>VOLTAGE</b>	120	<b>SOURCE</b>	LED
<b>LAMP</b>	LED INCLUDED 3000 KELVIN										
<b>WATTAGE</b>	39										
<b>VOLTAGE</b>	120										
<b>SOURCE</b>	LED										
<b>LOCATION</b>	POOL										

Pole top luminaires with symmetrical light distribution

**Housing/fitter:** Die-cast aluminum construction with a spun aluminum cap. The fixture slip fits a 3" O.D. pole top or tenon and is secured by four (4) socket head stainless steel set screws threaded into stainless steel inserts. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** Molded 1/8" high impact acrylic diffuser with light diffusing matte white surface.

**Electrical:** 39W LED luminaire, 45.2 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**UL listed for US and Canadian Standards, suitable for wet locations.** Protection class: IP65.

**Weight:** 23.1 lbs.

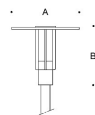
**Effective Projection Area (EPA):** 1.3 ft<sup>2</sup>

**Luminaire Lumens:** 1916  
Tested in accordance with LM-79-08


Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



NOT USED



Lamp	A	B
7120LED 39W LED Recommended for use with 14' to 16' poles	25%	23%

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			<b>ISSUE DATE</b> 4/23/2015	
			<b>REVISED</b> 7/6/2015	
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION		
EXTERIOR RATED POST TOP POLE LIGHT WITH 12 FOOT POLE. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.	BEGA 7120LED-K3-<FINISH> FINISH: TBD POLE: 906HR HEIGHT: 12'	<b>LAMP</b>	LED INCLUDED 3000 KELVIN	
		<b>WATTAGE</b>	39	
<b>LOCATION</b> POOL			<b>VOLTAGE</b>	120
			<b>SOURCE</b>	LED

Type:  
Project:  
Options:  
Modified:  
Luminaire:  
Fixture EPA:  
Optional Tenon:  2 3/8" φ x 3 1/2" H  
GCO:   
GFI:

Approval:

NOT USED

**906HR 5" Straight round hinged pole**

Wall thickness: 0.063"

Shaft: Extruded from a new seamless 6063 aluminum alloy tube heat treated to a T-6 condition.

Anchor base: Round cast aluminum A356 alloy, heat treated to a T-6 condition. Anchor base and shaft continuously welded at the pole top and inside bottom of anchor base casting. Pole base is a hinged two piece casting. Hinge

Pole shaft to be welded to upper base casting which is secured to lower base casting by three (3) stainless steel bolts. Bolts to be fastened to cast-in stainless threaded inserts in lower casting. Cast round two piece base cover supplied with pole.

Anchor bolts: Four (4) 3/4" x 1 1/2" galvanized steel anchor bolts supplied with double nuts and flat washers. Maximum bolt projection 3/8". For luminaires requiring threaded inserts and pole cap -specify: 1D (single); 2D (2 @ 180°); 3D (3 @ 120°).

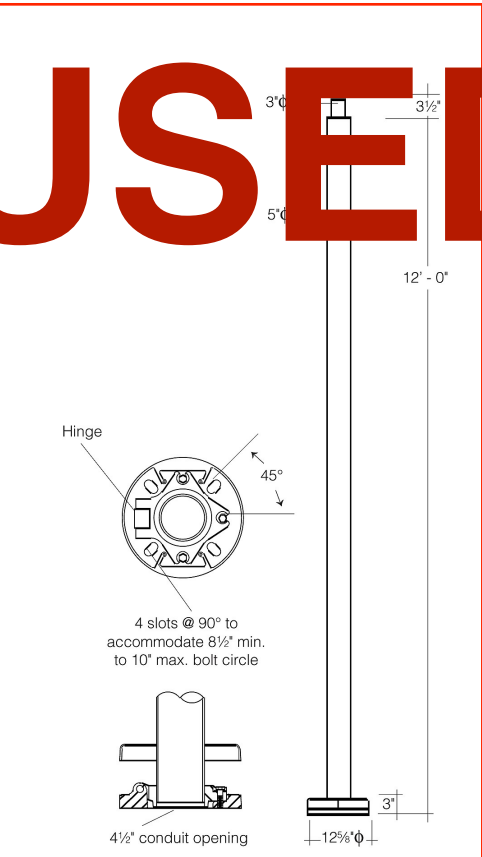
GCO/GFI: Standard location is opposite the hinge. Height above base for ballast in luminaires is 18". For single luminaires with a pole base mounted (PBM) ballast the minimum height is 24" and 42" minimum for double PBM luminaires.


Weight: 52.0 lbs.

**Disclaimer**

BEGA-US warrants the specific anchor bolts and pole combination according to the product number(s) and description(s) indicated on this submittal sheet. Structural changes to the pole requested by the customer, including changes to pole length, may affect the compatibility of the anchor bolts and corresponding poles. BEGA-US is not responsible for the incompatibility of the anchor bolts and poles resulting from such structural changes without review by the BEGA-US engineering department. This includes, but is not limited to, any labor charges, charges for replacement materials and shipping.

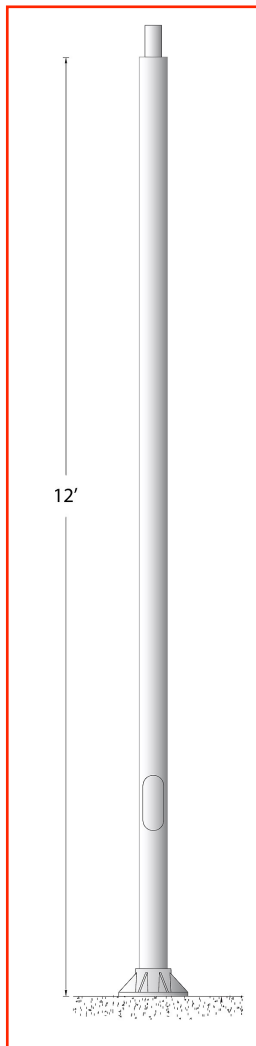
Pole wind load rating:  
MPH: 70 80 90 100 120  
EPA: 14.4 10.5 8.2 6.5 4.4  
**Note:** Data above assumes grade level installation and a maximum luminaire weight of 50 lbs.



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			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b>
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED 12' POLE WITH NO DRILL CAP TOP AND GFCI BOX 6" FROM TOP OF POLE AT BACK. FIXTURE TO BE MOUNTED TO CONCRETE PAD MINIMUM 2" ABOVE EARTH.		LIGMAN APD-RSA-4012-12'-4"-.125"-06 BRONZE HEIGHT: 12' GFCI: 6" FROM TOP AT BACK OF POLE FINISH: BRONZE WITH NO DRILL AND CAP TOP.WITH DRILLING FOR	<b>LAMP</b> N/A  <b>WATTAGE</b> N/A
<b>LOCATION</b>	EVENT COURTYARDS FOR FESTOON LIGHTING		<b>VOLTAGE</b> 120
			<b>SOURCE</b> N/A

LIGMAN USA ROUND STRAIGHT ALUMINUM POLE : 12Ft

APD-RSA-4012-12'-4"-.125"- Color



**Round Straight Aluminum Pole**

Finish : Outdoor Rated UV Stabilized Polyester Powder coat.  
Base Cover : Two Piece Cast Aluminum painted to match pole  
Pole Height: 12Ft  
Pole Diameter: 4"  
Wall Thickness: 0.125"

Maximum EPA  
Includes 1.3 gust factor

<b>Mph</b>	70	80	90	100	110
<b>EPA</b>	6	4	2.8	1.7	1

Color (Please Specify)

- 01-Black - RAL 9011
- 02- Dark Grey - RAL 7043
- 03-White - RAL 9003
- 04 - Metallic Silver - RAL 9006
- 05-Matt Silver - RAL 9006
- 07- Custom - RAL
- 06-Bronze - RAL 6014

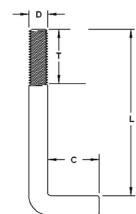
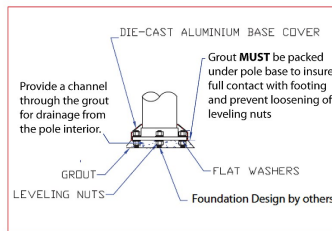
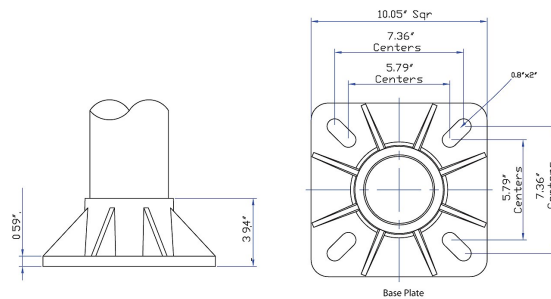
**Anchor Bolt** D x L x C x T

Anchor Bolt Size in Inches: 3/4 x 18 x 4 x 6  
Bolt Projection: 2"

**Not to scale template:**

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts. Since it is "not to scale," Ligman accepts no responsibility for its intended use. Refer to Site plans and specification before installing any anchor bolts.

Contact Ligman Lighting USA for a Bolt Template before pouring Anchor Bolts.




Head Office:  
3302 NW 211th Terrace  
Hillsboro,  
Oregon  
97125  
USA

Tel: 503-645-0500  
Fax: 503-645-8100  
Email: info@ligmanlightingusa.com  
Website: www.ligmanlightingusa.com

Ligman Lighting USA reserves the right to change specifications without prior notice.



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			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b>
FIXTURE DESCRIPTION	MANUFACTURER & PART #	TECHNICAL INFORMATION	
RECESSED WET LISTED LED STEP LIGHT	BEGA 2382 LED-<FINISH> FINISH: TBD  <span style="background-color: yellow; display: inline-block; width: 150px; height: 15px;"></span> TYPICAL MOUNTING HEIGHT 18" AFF	<b>LAMP</b>	LED INCLUDED 3000 KELVIN
		<b>WATTAGE</b>	7.5
<b>LOCATION</b>	STAIRS / RAMPS	<b>VOLTAGE</b>	120
		<b>SOURCE</b>	LED

Recessed wall luminaires with directed light

**Housing:** Constructed of die-cast aluminum with integral wiring compartment. Mounting tabs provided.

**Enclosure:** One piece die-cast aluminum faceplate. Clear tempered glass; .125" thick, machined flush to faceplate surface. Faceplate is secured by two (2) flush, socket head, stainless steel captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature, molded silicone rubber gasket for weather tight operation.

**Electrical:** 5.6W LED luminaire, 7.5 total system watts, -25° C start temperature. Integral 120V through 277 V electronic LED driver, 0 -10V dimming. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4).

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

**Finish:** Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**UL listed,** suitable for wet locations and for installation within 3 feet of ground. IC rated. Protection class: IP65.



Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:

**Luminaire Lumens:** 155  
Tested in accordance with LM-79-08



Lamp	A	B	C
2382 LED ADA	5.6W	LED 6%	2 3/4 3 1/4



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			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED 18" WALL MOUNTED LED SIGNAGE AND ENTRY LIGHTING FOR GUESTROOM IDENTIFICATION		HINKLEY CASCADE 1834BZ-LED FINISH: BRONZE <b>HEIGHT: 18"</b>  TYPICAL MOUNTING HEIGHT 7' AFF	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
			<b>WATTAGE</b>	15
<b>LOCATION</b>	CASITA MAIN ENTRY		<b>VOLTAGE</b>	120
			<b>SOURCE</b>	LED

# HINKLEY & R


HINKLEY LIGHTING, INC.  
 33000 PIN OAK PARKWAY | AVON LAKE, OHIO 44012  
 [PH] 440.653.5500 [F] 440.653.5555  
 HINKLEYLIGHTING.COM | FREDRICKRAMOND.COM



<b>CASCADE 1834BZ-LED</b>	
BRONZE	
WIDTH:	8.0"
HEIGHT:	<b>18.0"</b>
WEIGHT:	4.0 LBS
MATERIAL:	EXTRUDED ALUMINUM
GLASS:	AMBER ETCHED ORGANIC RAIN
BACKPLATE WIDTH:	8.0"
BACKPLATE HEIGHT:	18.0"
SOCKET:	1-15W UNI-100 *INCLUDED
DARK SKY:	YES
<b>LED INFO:</b>	
LUMENS:	800
COLOR TEMP:	2700k
CRI:	96
LED WATTAGE:	15w
INCANDESCENT EQUIVALENCY:	100w
DIMMABLE:	NO
NOTES:	PATENT: US AND FOREIGN PATENTS PENDING
EXTENSION:	4.0"
TTO:	4.8"
CERTIFICATION:	C-US WET RATED
VOLTAGE:	120V
UPC:	640665183443

AT HINKLEY, WE EMBRACE THE DESIGN PHILOSOPHY THAT YOU CAN MERGE TOGETHER THE LIGHTING, FURNITURE, ART, COLORS AND ACCESSORIES YOU LOVE INTO A BEAUTIFUL ENVIRONMENT THAT DEFINES YOUR OWN PERSONAL STYLE. WE HOPE YOU WILL BE INSPIRED BY OUR COMMITMENT TO KEEP YOUR 'LIFE AGLOW.'

lifeAGLOW®

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			<b>ISSUE DATE</b>	4/23/2015
			<b>REVISED</b>	
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>	
EXTERIOR RATED 15.5" WALL MOUNTED LED AREA LIGHTING FOR GUESTROOM PATIOS		HINKLEY SHELTER 1326KZ-LED FINISH: BRONZE HEIGHT: 15.5"  TYPICAL MOUNTING HEIGHT 7' AFF	<b>LAMP</b>	LED INCLUDED 2700 KELVIN
<b>LOCATION</b>	CASITA PATIOS		<b>WATTAGE</b>	5
			<b>VOLTAGE</b>	120
			<b>SOURCE</b>	LED

# HINKLEY & R.

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33000 PIN OAK PARKWAY | AVON LAKE, OHIO 44012  
[PH] 440.653.5500 [F] 440.653.5555  
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<b>SHELTER 1326KZ-LED</b>	
BUCKEYE BRONZE	
WIDTH:	4.5"
HEIGHT:	15.5"
WEIGHT:	3.0 LBS
MATERIAL:	SOLID ALUMINUM
GLASS:	CLEAR SEEDY
BACKPLATE WIDTH:	4.5"
BACKPLATE HEIGHT:	12.0"
SOCKET:	1-5W DSLG-40 *INCLUDED
DARK SKY:	YES
<b>LED INFO:</b>	
LUMENS:	400
COLOR TEMP:	2700k
CRI:	90
LED WATTAGE:	5w
INCANDESCENT EQUIVALENCY:	40w
DIMMABLE:	No
EXTENSION:	4.8"
TTO:	5.8"
CERTIFICATION:	C-US WET RATED
VOLTAGE:	120V
UPC:	640665132687

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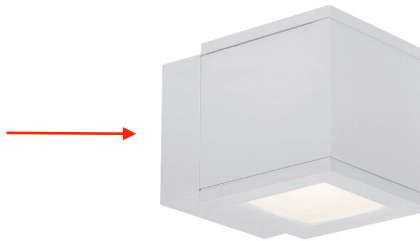
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			<b>ISSUE DATE</b> 4/23/2015
			<b>REVISED</b> 7/6/2015
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>
EXTERIOR RATED WALL MOUNTED SQUARE DOWNLIGHT SCONCE WITH SOFTENING LENS		WAC LIGHTING WS-W2504-<FINISH> FINISH: TBD	<b>LAMP</b> LED INCLUDED 3000 KELVIN
		TYPICAL MOUNTING HEIGHT 7'-AFF	<b>WATTAGE</b> 16 PLUS INRUSH FACTOR
<b>LOCATION</b>	AMENITY BUILDINGS		<b>VOLTAGE</b> 120
			<b>SOURCE</b> LED

**RUBIX** - model WS-W2504, WS-W2505  
LED Wall Mount

**WAC LIGHTING**  
Responsible Lighting®



Fixture Type:

Catalog Number:

Project:

Location:

**PRODUCT DESCRIPTION**

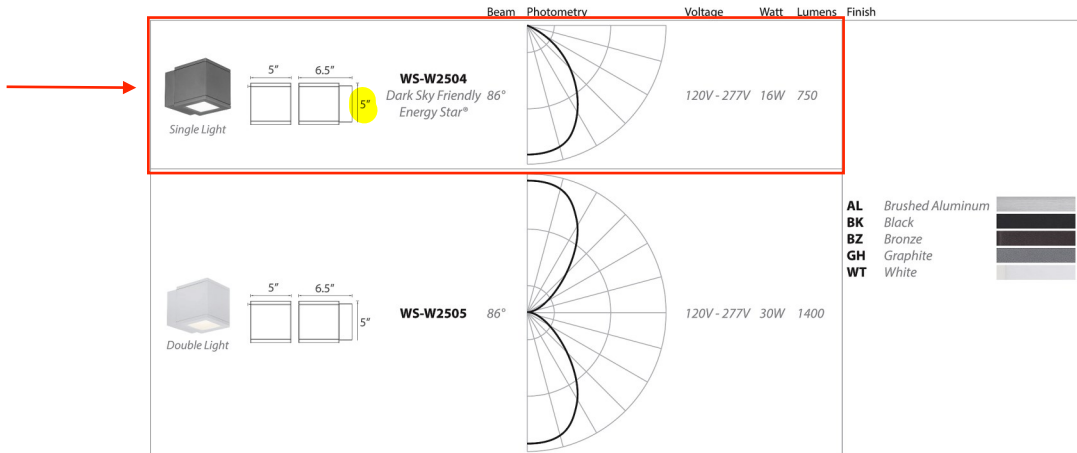
Available in single- and twin-light configurations, this die cast aluminum LED wall luminaire is wet location listed for a broad range of exterior lighting applications. Designed with a square profile, this version of Rubix mounts upwards or downwards.

**FEATURES**

- Energy Star® rated
- CEC Title 24 Compliant
- Mounts up or down
- IP65 Rated, ETL & cETL Wet Location Listed
- Die-Cast Aluminum Construction
- Universal Voltage Input (120V - 277V)
- Dimming: ELV (120V) or 0-10V


**SPECIFICATIONS**

**Construction:** Aluminum with etched glass.  
**Power:** Integral driver in luminaire. 120V - 277V input.  
**Light Source:** High output LED  
**Mounting:** Mounts directly to junction box  
**Dimming:** 0-10V Dimming: 100%-10%  
 ELV Dimming: 100%-15% (120V only)  
**Finish:** Brushed Aluminum (AL), Black (BK), Bronze (BZ), Graphite (GH), White (WT)  
**Color Temp:** 3000K  
**CRI:** 90  
**Rated Life:** 70,000 hours  
**Standards:** Energy Star® rated, IP65 Rated, ETL & cETL Wet Location Listed, CEC Title 24 Compliant, Dark Sky Friendly.



-   
 Example: **WS-W2504-GH**

wacighting.com Phone (800) 526.2588 Fax (800) 526.2585	Headquarters/Eastern Distribution Center 44 Harbor Park Drive Port Washington, NY 11050	Central Distribution Center 1600 Distribution Ct Lithia Springs, GA 30122	Western Distribution Center 1750 Archibald Avenue Ontario, CA 91760
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 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>WW4</b>								
			<b>ISSUE DATE</b> 4/23/2015								
			<b>REVISED</b>								
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION								
SURFACE MOUNTED WET LOCATION LISTED ROUND LED DOWNLIGHT WITH SOFTENING LENS		HK LIGHTING ZXL30i-WM-<HOOD TYPE>-<GLARE SHIELD>-120-25W-HKLED-3K-<FINISH> FINISH: TBD  <div style="background-color: yellow; padding: 2px; display: inline-block;">TYPICAL MOUNTING HEIGHT 9' AFF</div>	<table border="1"> <tr> <td><b>LAMP</b></td> <td>LED INCLUDED 3000 KELVIN</td> </tr> <tr> <td><b>WATTAGE</b></td> <td>25 PLUS INRUSH FACTOR</td> </tr> <tr> <td><b>VOLTAGE</b></td> <td>120</td> </tr> <tr> <td><b>SOURCE</b></td> <td>LED</td> </tr> </table>	<b>LAMP</b>	LED INCLUDED 3000 KELVIN	<b>WATTAGE</b>	25 PLUS INRUSH FACTOR	<b>VOLTAGE</b>	120	<b>SOURCE</b>	LED
<b>LAMP</b>	LED INCLUDED 3000 KELVIN										
<b>WATTAGE</b>	25 PLUS INRUSH FACTOR										
<b>VOLTAGE</b>	120										
<b>SOURCE</b>	LED										
<b>LOCATION</b>	AMENITY BUILDING TRELLIS										



## ZXL30i-WM

Wall Mount ▲ ZX30-WM Series



### Characteristics



### Technical Data

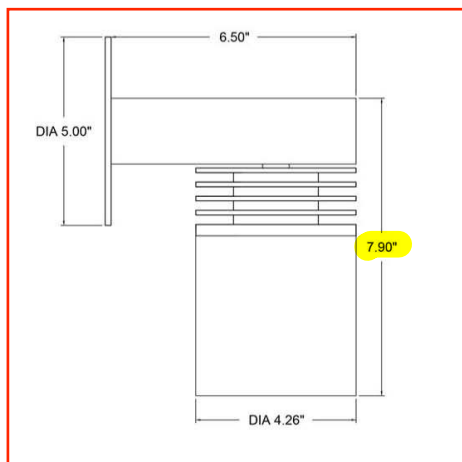
<b>Material</b>	Housing/Cap/Scem - Machined silicone magnesium aluminum alloy (6061-T6) resistant to corrosion Stainless steel (SS304) hardware
<b>Lamp</b>	HK LED
<b>Hoods</b>	A, B
<b>Voltage</b>	120V
<b>Wattage</b>	25W
<b>Color Temp</b>	3K, 4.5K, 6K
<b>Power Supply</b>	Integral LED Driver


PROJECT \_\_\_\_\_

FIXTURE TYPE \_\_\_\_\_

### Ordering Guide

<b>Series</b>	ZXL30i-WM
<b>Hoods</b>	A B
<b>Glare Shields (optional)</b>	GSL GSA GSS
<b>Voltage</b>	120V
<b>Wattage</b>	25W
<b>Lamp</b>	HK LED
<b>Color Temp</b>	3K 4.5K 6K
<b>Scem (optional)</b>	FSS
<b>Finish</b>	BK (black) BZ (bronze) WT (white) ABK (anodized black) ACL (anodized clear) CC (custom)



 <p>2 Executive Circle, Suite 290 Irvine, California 92614</p> <p>(949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>WW5</b>								
			<b>ISSUE DATE</b>  4/23/2015								
			<b>REVISED</b>								
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>								
EXTERIOR RATED WALL MOUNTED SQUARE LED DOWNLIGHT WITH LATERAL DISTRIBUTION		LUMIERE LIGHTING 303-W1-LEDB1-3000K-UNV-T2-WHITE DISTRIBUTION: TYPE II - LATERAL FINISH: WHITE  <div style="background-color: yellow; padding: 2px;"> <b>TYPICAL MOUNTING HEIGHT 7'-AFF</b> </div>	<table border="1"> <tr> <td><b>LAMP</b></td> <td>LED INCLUDED 3000 KELVIN</td> </tr> <tr> <td><b>WATTAGE</b></td> <td>8.8 PLUS INRUSH FACTOR</td> </tr> <tr> <td><b>VOLTAGE</b></td> <td>120</td> </tr> <tr> <td><b>SOURCE</b></td> <td>LED</td> </tr> </table>	<b>LAMP</b>	LED INCLUDED 3000 KELVIN	<b>WATTAGE</b>	8.8 PLUS INRUSH FACTOR	<b>VOLTAGE</b>	120	<b>SOURCE</b>	LED
<b>LAMP</b>	LED INCLUDED 3000 KELVIN										
<b>WATTAGE</b>	8.8 PLUS INRUSH FACTOR										
<b>VOLTAGE</b>	120										
<b>SOURCE</b>	LED										
<b>LOCATION</b>	EXTERIOR SERVICE AREAS ICE MACHINES										

## lumière

### DESCRIPTION

Eon 303 - W1 and 303 - W2 are compact, low profile, dimmable, ADA compliant LED luminaires. Model 303 - W1 provides either upright or downlight depending upon how it is mounted. Model 303 - W2 provides both upright and downlight simultaneously. Dimming is achieved with a standard ELV reverse phase dimming driver or, for the 303 - W1 model only, an optional 0 - 10V dimming driver. Both models mount directly to any wall surface over a standard 4" jbox and come standard with a universal input LED driver (120 - 277V, 50/60 Hz). Both fixtures may be used indoors or outdoors and carry an IP66 rating.

<b>Catalog #</b>	<b>Type</b>
<b>Project</b>	
<b>Comments</b>	<b>Date</b>
<b>Prepared by</b>	

### SPECIFICATION FEATURES

#### A ... Material

Head and backplate are precision-machined from corrosion-resistant 6061-T6 aluminum, C360 brass, C932 bronze, C110 copper or 303/304 stainless steel.

#### B ... Finish

Fixtures constructed from aluminum are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available. Aluminum fixtures can also be brushed and clear coat painted.

#### Brass, Bronze, Copper or Stainless Steel

Fixtures constructed from brass, bronze, copper or stainless steel are left unpainted to reveal the natural beauty of the material. Brass, bronze and copper will patina over time.

#### C ... Gasket

The backplate is sealed with a high temperature silicone gasket to prevent water intrusion into the jbox.

#### D ... Lens

Diffused, tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. EDGE LIT option: when specified with the EDGE LIT option, the glass will be slightly thicker, diffused, tempered and sealed in the same manner referenced above. The added glass thickness will offer a brighter line of light around the edge of the glass that will accentuate the fixture's aesthetics and styling.

#### E ... Mounting

Both models mount directly to a standard 4" jbox. Model 303 - W1 provides downlight or upright. Model 303 - W2 provides non-adjustable upright and downlight.

#### F ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

#### G ... Electrical

Both models comes standard with a universal input LED driver (120-277, 50/60Hz). The standard driver is ELV reverse phase dimmable. For the single head model only, 303 - W1, an optional 0 - 10V dimming driver is also available.

#### H ... LED

LEDs are included and available in three color temperatures (2700K, 3000K & 4000K) and a variety of optics. Both color temperature and distribution must be specified when ordering - see reverse side for details and catalog logic. For the up and down model, 303 - W2, the upright is always a T5X, type V extra wide flood. The specified distribution (T2, T4 or T5) is associated with the downlight.

#### I ... Labels & Approvals

UL and cUL listed, standard wet label. IP66 rated.

#### J ... Warranty

Lumiere warrants its fixtures against defects in materials & workmanship for five (5) years. Auxiliary equipment such as transformers, ballasts and LED drivers carry the original manufacturer's warranty.

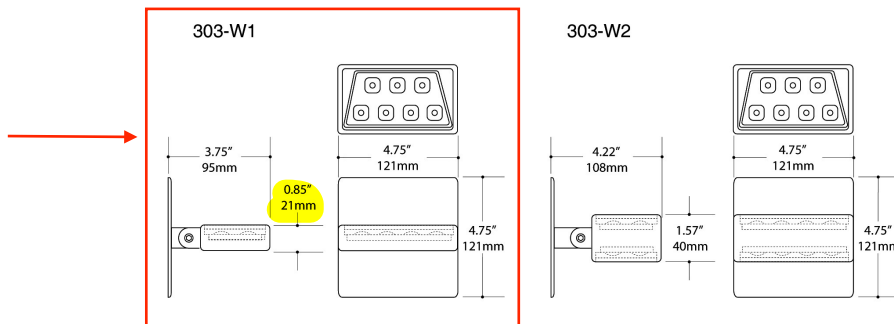



**EON**  
**303-W1/303-W2**

8.8 W LED  
17.6 W LED

LED  
WALL

**IP66**



 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p> <p>LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b>		<b>TYPE</b> <b>WW5</b>								
			<b>ISSUE DATE</b> 4/23/2015								
			<b>REVISED</b>								
<b>FIXTURE DESCRIPTION</b>		<b>MANUFACTURER &amp; PART #</b>	<b>TECHNICAL INFORMATION</b>								
EXTERIOR RATED WALL MOUNTED SQUARE LED DOWNLIGHT WITH LATERAL DISTRIBUTION		LUMIERE LIGHTING 303-W1-LEDB1-3000K-UNV-T2-WHITE DISTRIBUTION: TYPE II - LATERAL FINISH: WHITE  <div style="background-color: yellow; padding: 2px; text-align: center;">TYPICAL MOUNTING HEIGHT 7' AFF</div>	<table border="1"> <tr> <td><b>LAMP</b></td> <td>LED INCLUDED 3000 KELVIN</td> </tr> <tr> <td><b>WATTAGE</b></td> <td>8.8 PLUS INRUSH FACTOR</td> </tr> <tr> <td><b>VOLTAGE</b></td> <td>120</td> </tr> <tr> <td><b>SOURCE</b></td> <td>LED</td> </tr> </table>	<b>LAMP</b>	LED INCLUDED 3000 KELVIN	<b>WATTAGE</b>	8.8 PLUS INRUSH FACTOR	<b>VOLTAGE</b>	120	<b>SOURCE</b>	LED
<b>LAMP</b>	LED INCLUDED 3000 KELVIN										
<b>WATTAGE</b>	8.8 PLUS INRUSH FACTOR										
<b>VOLTAGE</b>	120										
<b>SOURCE</b>	LED										
<b>LOCATION</b>	EXTERIOR SERVICE AREAS ICE MACHINES										

**LED INFORMATION**

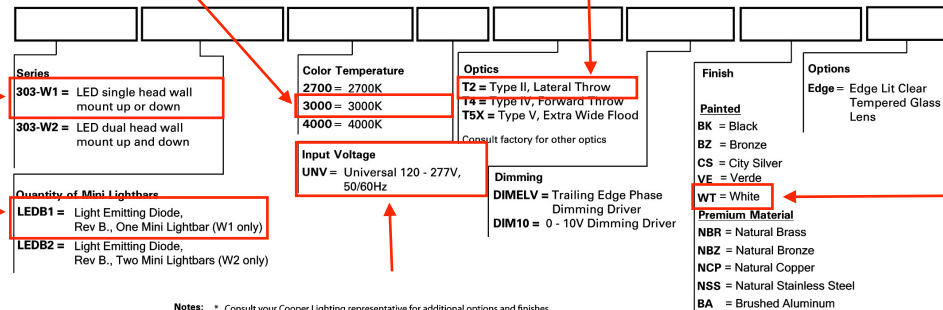
LED	Watts	Distribution	Total Lumens	CRI	°K	Life (hrs.)	Volts
T2, 2700K	8.8	Type II - Lateral Throw	364	95	2700	50000	120V - 277V, 50/60 Hz
T2, 3000K	8.8	Type II - Lateral Throw	364	85	3000	50000	120V - 277V, 50/60 Hz
T2, 4000K	8.8	Type II - Lateral Throw	607	65	4000	50000	120V - 277V, 50/60 Hz
T4, 2700K	8.8	Type IV - Forward Throw	340	95	2700	50000	120V - 277V, 50/60 Hz
T4, 3000K	8.8	Type IV - Forward Throw	340	85	3000	50000	120V - 277V, 50/60 Hz
T4, 4000K	8.8	Type IV - Forward Throw	566	65	4000	50000	120V - 277V, 50/60 Hz
T5X, 2700K	8.8	Type V - Flood	381	95	2700	50000	120V - 277V, 50/60 Hz
T5X, 3000K	8.8	Type V - Flood	381	85	3000	50000	120V - 277V, 50/60 Hz
T5X, 4000K	8.8	Type V - Flood	635	65	4000	50000	120V - 277V, 50/60 Hz
T2, 2700K	17.6	Type II - Lateral Throw	745	95	2700	50000	120V - 277V, 50/60 Hz
T2, 3000K	17.6	Type II - Lateral Throw	745	85	3000	50000	120V - 277V, 50/60 Hz
T2, 4000K	17.6	Type II - Lateral Throw	1242	65	4000	50000	120V - 277V, 50/60 Hz
T4, 2700K	17.6	Type IV - Forward Throw	721	95	2700	50000	120V - 277V, 50/60 Hz
T4, 3000K	17.6	Type IV - Forward Throw	721	85	3000	50000	120V - 277V, 50/60 Hz
T4, 4000K	17.6	Type IV - Forward Throw	1201	65	4000	50000	120V - 277V, 50/60 Hz
T5X, 2700K	17.6	Type V - Flood	762	95	2700	50000	120V - 277V, 50/60 Hz
T5X, 3000K	17.6	Type V - Flood	762	85	3000	50000	120V - 277V, 50/60 Hz
T5X, 4000K	17.6	Type V - Flood	1270	65	4000	50000	120V - 277V, 50/60 Hz

**NOTES AND FORMULAS**


- Apply appropriate light loss factors where necessary.
- Photometry is LM-79 compliant.

**ORDERING INFORMATION**

Sample Number: 303 - W2 - LEDB2 - 3000 - UNV - T2 - BA



Notes: \* Consult your Cooper Lighting representative for additional options and finishes

 <p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<b>COTTONWOODS RESORT CP-3 ASI-03 LIGHTING REVISIONS SCOTTSDALE, AZ</b>		<b>TYPE</b>  <b>WW6</b>
			<b>ISSUE DATE</b>  8/18/2015
			<b>REVISED</b>
FIXTURE DESCRIPTION		MANUFACTURER & PART #	TECHNICAL INFORMATION
SURFACE MOUNTED WET LOCATION LISTED ROUND LED RETROFIT DOWNLIGHT WITH SOFTENING LENS		HK LIGHTING ZX16-WM-Soi-A-12V-SORAA MR16-BIPIN-<FINISH> FINISH: TBD  PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED <span style="background-color: yellow; display: inline-block; width: 150px; height: 15px;"></span>	<b>LAMP</b> SORAA MR16-50-B01-12-927-10 (Flicker Free) 10 DEGREE  <b>WATTAGE</b> 50
<b>LOCATION</b>	EXTERIOR MAIN BUILDING SKYLIGHT	TYPICAL MOUNTING HEIGHT 10' AFF	<b>VOLTAGE</b> 120
			<b>SOURCE</b> LED RETROFIT





## ZX16-WM-SOI

Wall Mount ▲ ZX16-WM Series



### Characteristics

-  Listed
-  Soraa compatible

### Technical Data

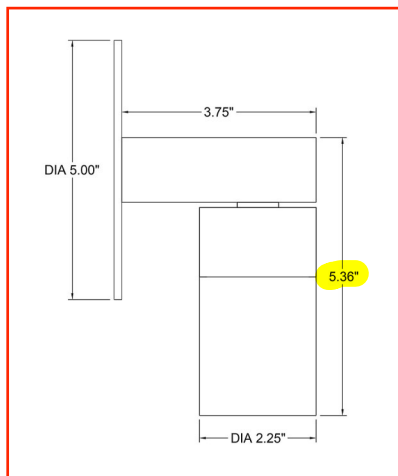
<b>Material</b>	Housing/Cap/Stem - Machined silicone magnesium aluminum alloy (6061-T6) resistant to corrosion Stainless steel (S304) hardware
<b>Lamp</b>	Halogen MR16, Soraa MR16
<b>Hoods</b>	A, B
<b>Socket</b>	Bi-pin, G4, GX5.3, GY6.35
<b>Voltage</b>	12V


PROJECT \_\_\_\_\_

FIXTURE TYPE \_\_\_\_\_

### Ordering Guide

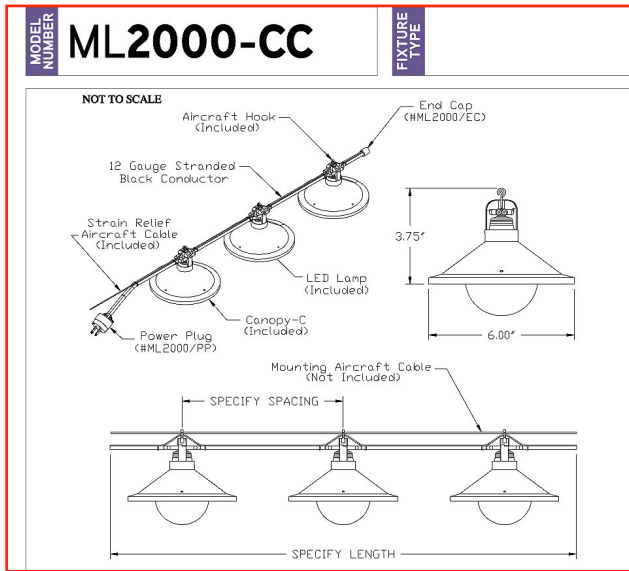
<b>Series</b>	ZX16-WM-SOI	
<b>Hoods</b>	A	B
<b>Glare Shields (optional)</b>	GSL GSA GSS	
<b>Voltage</b>	12V	
<b>Lamp</b>	Halogen MR16 Soraa MR16	
<b>Socket</b>	Bi-pin G4 GX5.3 GY6.35	
<b>Stem (optional)</b>	FSS	
<b>Finish</b>	BK (black) BZ (bronze) WT (white) ABK (anodized black) ACL (anodized clear) CC (custom)	



 <p><b>THE Ruzika COMPANY</b> LIGHTING DESIGN AND THEATRICAL CONSULTING</p>	<p>2 Executive Circle, Suite 290 Irvine, California 92614 (949) 253-3479 (949) 250-0181 fax info@ruzika.com www.ruzika.com</p>	<p><b>COTTONWOODS RESORT</b> <b>CP-3</b> <b>ASI-03 LIGHTING REVISIONS</b> <b>SCOTTSDALE, AZ</b></p>		<p><b>TYPE</b></p>	<p><b>XX1</b></p>
				<p><b>ISSUE DATE</b></p>	<p>4/23/2015</p>
				<p><b>REVISED</b></p>	<p>7/6/2015</p>
FIXTURE DESCRIPTION		MANUFACTURER & PART #		TECHNICAL INFORMATION	
<p>EXTERIOR RATED AND SHIELDED LED FESTOON STRING LIGHTS WITH 24 INCH CENTERS</p>		<p>CALI ML2000-CC-24-LED2.7K-WET-WHITE- &lt;EXTERIOR FINISH&gt; INTERIOR FINISH:WHITE EXTERIOR FINISH:TBD 24"CENTERS</p> <p>BUILD TO ORDER LENGTHS</p> <p style="background-color: yellow;">TYPICAL MOUNTING HEIGHT 10' AFF</p>		<p><b>LAMP</b></p>	<p>LED INCLUDED</p>
				<p><b>WATTAGE</b></p>	<p>2.5 PER LAMP</p>
<p><b>LOCATION</b></p>	<p>SITE EVENT LAWNS</p>			<p><b>VOLTAGE</b></p>	<p>120</p>

**marketLITE™**  
Manufactured in the U.S.A.

FEATURES	
<b>APPLICATIONS</b>	Indoor and Outdoor
<b>VOLTAGE</b>	120V
<b>LAMP</b>	LED Lamp Included
<b>WATTS</b>	2.5W
<b>LENGTH</b>	Built to Order
<b>FINISH</b>	Black
<b>FEED</b>	Standard 6' Leads
<b>STRAIN RELIEF</b>	Aircraft Cable Included
<b>LISTING</b>	Dry or Wet Location
<b>OPTIONS</b>	Incandescent Lamps Mesh, Cages, Canopies
<b>LED LAMP LIFE</b>	50,000 Hours
APPLICATIONS	
<p>Designed for indoor and outdoor use, marketLITE is ideal for many applications including the amusement, recreation, and architectural industries.</p> <p>marketLITE is used in: Restaurants, Casinos, Street Decorations, Amusement Parks, Shopping Malls, Promenades, and many more.</p>	
ELECTRICAL	
<p>marketLITE with LEDs is available in 120 Volts. marketLITE is a 20 amp system (12 gauge wire). LEDs consume only 2.5 watts and provide lumen output equal to a 25 watt incandescent lamp. No transformers or drivers are required.</p>	
INSTALLATION	
<p>marketLITE is an easy-to-install lighting product that can be field cut to meet your lighting requirements.</p>	



**LAMP SPECIFICATIONS**

LAMP NUMBER	DESCRIPTION	LUMENS
LED-2.7K	2700K Warm White	135
LED-5.0K	5000K Cool White	145
LED-A	Amber LED	
LED-R	Red LED	
LED-G	Green LED	
LED-B	Blue LED	
LED-RGB	RGB LED	

**HOW TO ORDER OR SPECIFY Product Code: (Fill in the Blanks)**

SERIES	SPACING	LAMP #	DRY OR WET	CANOPY INSIDE	CANOPY OUTSIDE
Example: ML2000-CC	12"	LED-2.4K	WET	WH	BK
ML2000-CC	12" O/C	LED-2.7K	Indoor (DRY)	Natural (NA)	Natural (NA)
	18" O/C	LED-5.0K	Outdoor (WET)	Chrome (CR)	Chrome (CR)
	24" O/C	LED-R		White (WH)	White (WH)
	36" O/C	LED-G		Black (BK)	Black (BK)
	48" O/C	LED-B		Green (GN)	Green (GN)
	60" O/C	LED-A		Red (RD)	Red (RD)
		LED-RGB		Silver (SR)	Silver (SR)



CALIFORNIA ACCENT LIGHTING, INC.  
2034 E. Lincoln Ave. #431, Anaheim, CA 92806  
ph. 800.921.CALI (2254) or 714.535-7900 \ fax. 714.535.7902  
info@callighting.com \ callighting.com

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