

Exterior Building Color & Material Samples

Color Drawdowns

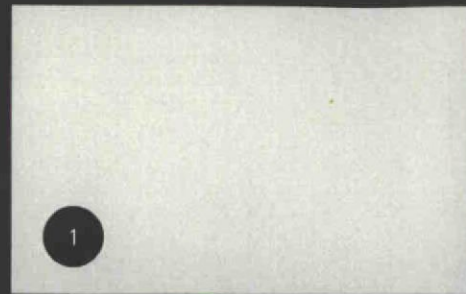
Archaeological Resources

Airport Vicinity Development Checklist

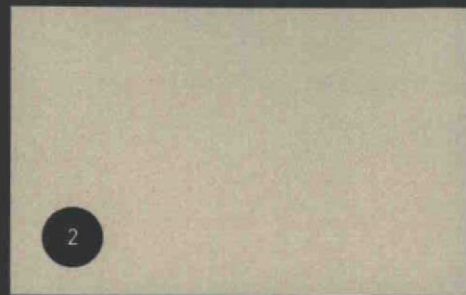
Parking Study

Trip Generation Comparison

Parking Master Plan



1



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12



12

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SOLARBAN® 90 (2) Clear - Clear Glass Insulating Glass Unit						5.47 211	
Exterior Reflectance	Interior Reflectance	U-Value Imperial (W/m²K)		SHGC	LSC		
		Air	Argon				
12%	18%	0.29	0.24	0.23	2.22		

9

MATERIAL LEGEND

- 1 PAINT TO MATCH DUNN EDWARDS PAINTS DE 6226 "FOGGY DAY"
- 2 PAINT TO MATCH DUNN EDWARDS PAINTS DE 6201 "DESERT SUEDE"
- 3 PAINT TO MATCH DUNN EDWARDS PAINTS DEC 750 "BISON BEIGE"
- 4 PAINT TO MATCH DUNN EDWARDS PAINTS DE 6217 "ANCIENT EARTH"
- 5 PAINT TO MATCH DUNN EDWARDS PAINTS DE 6378 "JET"
- 6 METAL STANDING SEAM PANELS TO MATCH ATAS INTERNATIONAL 20 "CLASSIC BRONZE"

- 7 SOFFIT PANELS TO MATCH TRESPA METEON COLOR # NW108 "ITALIAN WALNUT"
- 8 ARCADIA ALUMINUM WINDOWS TO MATCH AB-7 DARK BRONZE ANODIZED
- 9 STOREFRONT GLASS TO MATCH PPG / VITRO SOLARBAN 90 INSULATED GLAZING UNIT
- 10 PREMIUM EXTERIOR VINYL WINDOWS TO MATCH MILGARD "ESPRESSO" FINISH
- 11 FACE BRICK TO MATCH ENDICOTT "DESERT SANDS WITH BLACK"
- 12 CONCRETE MASONRY UNITS 8"x8"x8" HALF BLOCK TO MATCH GLACIER WHITE HONED

Waterview
Scottsdale, AZ

**LUMINAIRE SCHEDULE
and DATASHEETS**

Initial Issue Date
December 6, 2018

Latest Revision Date
December 14, 2018

Revisions:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8



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www.oculuslightstudio.com

02 DB 2017#2

GENERAL NOTES:

1. Luminaires shall have appropriate UL or other labels as required by local codes.
2. Luminaires shall include accessories for installation according to local and national codes.
3. Contractor shall verify the following prior to ordering luminaires:
 - a. locations and recess depths and any structural and other conflicts.
 - b. final voltages and ceiling trim compatibility.
 - c. ceilings more than 3/4" thick which limits trim compatibility.
 - d. luminaires in insulated ceilings, necessitating the need for insulated ceiling type housings.
4. Contractor shall provide approved fire-rated enclosures for luminaires located in a fire-rated ceiling.
5. Responsibility for emergency lighting, code compliance, and circuiting to meet code conformance remains with the Architect and Electrical Engineer as required by law.
6. Contractor shall submit luminaire substitutions prior to bid for review. Contractor shall supply a sample and/or photometric data if requested. If substitution is rejected, Contractor shall provide specified product.
7. Luminaire voltages to be determined by Project Electrical Engineer.
8. All luminaire sockets shall be labeled permanently, in the factory, with wattages indicated in "Lamp Specification" column, not maximum wattages.
9. Electrical Engineer may wire non-adjustable fixtures with emergency circuit(s) and power as needed.

LAST REVISIONS IN BOLD>

Waterview							Initial Issue: December 6, 2018	
Scottsdale, AZ							Latest Issue: December 14, 2018	
Type	Description	Luminaire Specification	Lamp Specification	Input Watts	Dimming Load Type	Luminaire Notes	Location	Rev No.
LB1	LED Pole fixture with: Dimensions: 12"W x 16"L 4"H Mounting height: TBD Finish: Optics: Accessories: Listings: Wetlisted, IP65, CSA	Bega 99 402 series	(Integral) Nominal lumens: 1855 CCT: 3000K CRI: 85	16	0-10	To light pathways and general area lighting	Landscape park throughout	
LB2	LED bollard fixture with: Dimensions: Mounting height: Finish: Optics: Accessories: Listings: Wetlisted, UL	Architectural Lighting CB12R series CB12R-36HORZFLAT-36LED-WW-Finish-Finish-INT	(Integral) Nominal lumens: 663 nominal CCT: 3000K CRI: 70	42	ELV	To light pathways	Landscape park throughout	
LB3	LED bollard fixture with: Dimensions: 7"W x 7"L x 9"H nominal Mounting height: Finish: Gray Optics: 33 beam spread Accessories: Listings: UL, IP66, IK07	iGuzzini iPro Large series J.BG38-UNV-15 Accessories-Pole	(Integral) Nominal lumens: 1615 nominal CCT: 3000K CRI: 80	30	ELV	To light site areas and major pathways Assume 3 heads per fixture	Landscape park throughout	

Waterview						Initial Issue:	December 6, 2018	
Scottsdale, AZ						Latest Issue:	December 14, 2018	
Type	Description	Luminaire Specification	Lamp Specification	Input Watts	Dimming Load Type	Luminaire Notes	Location	Rev No.
LD1	LED fixed downlight with: Dimensions: 4" aperture, 5"W x 10"L x 5"H Mounting height: Finish: White finish Optics: Accessories: Listings: JAB, Energy Star, UL, Wetraed	DMF Lighting DRD2 series DRDH-N-IC-4 DRD2M-10-9-30 DRD2T-R-4-S-WH	(Integral) Nominal lumens: 1000 CCT: 3000K CRI: 93+	13 nominal	TRIAC/ELV	General exterior canopy lighting	Unit Canopies throughout	
LJ1T	LED adjustable tree mounted fixture with: Dimensions: 3"W x 10"L x 2"H nominal Mounting height: Finish: Optics: Soft focus, 15 degree spot Accessories: Tree strap Listings: UL, Wetlisted	BK Lighting Denali series DE-LED-x62-SP-Finish-12-45 Remote Driver	(Integral) Nominal lumens: 1378 CCT: 3000K CRI: 80	20	ELV	Tree uplight/downlight Fixture requires remote driver. Contractor to provide mounting accessories for a complete install on tree	Tree canopies	
LJ2T	LED adjustable tree mounted moonlight fixture with: Dimensions: 3"W x 10"L x 2"H nominal Mounting height: Finish: Optics: Moonlight lens, 15 degree spot Accessories: Tree strap Listings: UL, Wetlisted	BK Lighting Denali series DE-LED-x62-SP-Finish-12-45 Remote Driver Moonlight blue lens	(Integral) Nominal lumens: 1378 CCT: 3000K CRI: 80	20	ELV	Tree downlight and moonlight area Fixture requires remote driver. Contractor to provide mounting accessories for a complete install on tree	Tree canopies	
LJ3	Dimensions: 3"W x 10"L x 2"H nominal Mounting height: Finish: Optics: 15 degree spot Accessories: Listings: UL, Wetlisted	BK Lighting Denali series DE-LED-x62-SP-Finish-12-45 Remote Driver	(Integral) Nominal lumens: 1378 CCT: 3000K CRI: 80	20	ELV	Surface mounted area light	Building Wall	
LL1	LED adjustable bullet stake mounted fixture with: Dimensions: 3"W x 7"L x 2"H Mounting height: Finish: Optics: 31 degree spread Accessories: Soft focus lens Listings: UL, Wetlisted	BK Lighting Delta star series DS-LED-e65-WFL-Finish-12-45 Remote Driver Stake mounted	(Integral) Nominal lumens: 1300 CCT: 3000K CRI: 80	7	ELV	Stake mounted to uplight small trees Fixture requires remote driver. Contractor to provide mounting accessories for a complete install in landscape	Throughout landscape	

Waterview						Initial Issue:	December 6, 2018	
Scottsdale, AZ						Latest Issue:	December 14, 2018	
Type	Description	Luminaire Specification	Lamp Specification	Input Watts	Dimming Load Type	Luminaire Notes	Location	Rev No.
LL2	LED adjustable bullet stake mounted fixture with: Dimensions: 3"W x 7"L x 2"H Mounting height: Finish: Optics: 15 degree spot Accessories: Soft focus lens Listings: UL, Wetlisted	BK Lighting Delta star series DS-LED-e65-SP-Finish-12-45 Remote Driver Stake mounted	(Integral) Nominal lumens: 1300 CCT: 3000K CRI: 80	7	ELV	Stake mounted to upright large trees Fixture requires remote driver. Contractor to provide mounting accessories for a complete install in landscape	Throughout landscape	
LL3	LED adjustable flood bural fixture with: Dimensions: 4"W x 1"W x 4"H nominal Mounting height: Finish: Optics: Wall wash optics Accessories: Cutoff visor Listings: UL, Wetlisted	BK Lighting Yosemite series YO-LED-x84-WW-Finish-CV Bural	(Integral) Nominal lumens: 1924 CCT: 3000K CRI: 80	23	ELV	Stake mounted to upright large area of trees and shrubs Fixture to be confirmed	Throughout landscape	
LN1	LED linear recessed fixture with: Dimensions: 5"W x Length per plan nominal Mounting height: Finish: White finish Optics: HLO Accessories: Listings: ETL, Wetlisted	Lumenwerx VIAWETR-TMG-HLO-LED-90-500-30-Lengthxx-UNV-D1-1-Powerfeed-TRL-W	(Integral) Nominal lumens: 500/FL CCT: 3000K CRI: 90	5.5 nominal	0-10	Wattage shown per linear foot	Canopies throughout	
LPI	LED catenary pendant fixture system with: Dimensions: Mounting height: Finish: Black finish Optics: Frosted gem Accessories: Listings: ETL, IP65	Tegan Kore-EX5 series	(Integral) Nominal lumens: 500/Ft. CCT: 3000K CRI: 82+	6.5 nominal	0-10	Cabanas Seats Contractor to provide brackets and other mounting accessories for a complete install	Pool area throughout	
LS1	LED linear in-channel striplight fixture with: Dimensions: 0.69"W x 0.43"H nominal, length per plan Mounting height: Finish: Silver anodized Optics: Accessories: KM Frosted lens channel Listings: Wetlisted, IP65	Lumina LL30WET-T-30K-SL-SectionEnd-Lengthxx Remote driver	(Integral) Nominal lumens: 228/Ft. CCT: 3000K CRI: NA	3	0-10	Wattage shown per linear foot Fixture requires remote driver. Contractor to provide brackets and other mounting accessories for a complete install	Exterior walkways throughout	

Waterview Scottsdale, AZ						Initial Issue:	December 6, 2018	
						Latest Issue:	December 14, 2018	
Type	Description	Luminaire Specification	Lamp Specification	Input Watts	Dimming Load Type	Luminaire Notes	Location	Rev No.
LS2	LED linear flexible strip light fixture with: Dimensions: 0.76"W x 1.07"H x Length per plan Mounting height: Finish: Optics: Accessories: Listings: Wetlisted, IP67	Lumini KBM-30K-EPP-EC- Length Remote driver	(Integral) Nominal lumens: 122 LM/Ft. CCT: 3000K CRI: NA	3.4 nominal	0-10	Wattage shown per linear foot Fixture requires remote driver. Contractor to provide brackets and other mounting accessories for a complete install	Exterior round planters throughout	
LS3	LED floor lamp fixture with: Dimensions: Mounting height: Finish: Optics: Accessories: Listings: UL, Wetlisted, IP55	Foscarini Twiggy Grid series	(Integral) Nominal lumens: TBD CCT: TBD CRI: TBD	21	Non dim	To provide lounge area lighting Fixture to be confirmed	Lounge areas	
LW1	LED wall mounted fixture with: Dimensions: 3"W x 11"L x 3"H nominal Mounting height: Finish: Optics: Accessories: Listings: UL, Wetlisted, IP65, ADA	Bega 24 374 series 24 374-K3	(Integral) Nominal lumens: CCT: 3000K CRI: 80+	15	0-10	To light garbage collection area ADA compliant fixture	Garbage collection and pathway	
LW2	LED surface mounted trellis fixture with Dimensions: 2"W x 5"H nominal Mounting height: Finish: Optics: Medium flood optic Accessories: Listings: UL, Wetlisted	Bklighting El Capitan series EC-LED-e65-MFL-Finish-12-11-A	(Integral) Nominal lumens: CCT: 3000K CRI: NA	7	Non dim	Trellis downlight Requires remote transformer	Trellis throughout	
LW3	LED wall recessed trimless step light with: Dimensions: 1" aperture nominal Mounting height: Finish: Optics: 30 degree Accessories: Listings: CE, Wetlisted, IP66	Mplighting L302 series L302-2-W30H-N-F-0- InputVoltage- FlangeHeight- BaseHeight-Finish	(Integral) Nominal lumens: 521 CCT: 3000K CRI: 90+ CRI	2.5 nominal	ELV	To light steps Fixture requires remote driver	Unit Patios	

Waterview						Initial Issue:	December 6, 2018	
Scottsdale, AZ						Latest Issue:	December 14, 2018	
Type	Description	Luminaire Specification	Lamp Specification	Input Watts	Dimming Load Type	Luminaire Notes	Location	Rev No.
LW4	LED wall recessed step light with: Dimensions: 3"W x 12"L x 5"H Mounting height: Finish: Optics: Accessories: Listings: NRTL, Wetlisted, IP65	Bega 33 055 series 33 055-K3-Finish	(Integral) Nominal lumens: 480 CCT: 3000K CRI: 80+	8.4 nominal	0-10	To light pathways	Pathways throughout	
LX1	LED guardrail mounted fixture with: Dimensions: 1"W x 1"L x 1"H Mounting height: Finish: Stainless steel Optics: Clear lens Accessories: Listings: ETL, Wetlisted, IP65	KlikUSA KlikLEDPod series LP-40-30-A- RailWallThickness- Dimming-Clear lens standard	(Integral) Nominal lumens: 145 nominal CCT 3000K CRI: 80+	2	0-10	To light stairs	Stair entry areas on 73rd St.	

End of Lighting Fixture Schedule

LED pole top luminaires with asymmetrical flat beam light distribution

Housing: Die-cast aluminum housing and slip fitter. Slip fits 3" O.D. pole top, secures to pole with three stainless steel set screws. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Faceplate is constructed of die-cast aluminum and is secured to housing with mechanically captive stainless steel fasteners. Tempered clear glass. Reflector of pure anodized aluminum. Fully shielded to comply with LEED zones 1 and higher. Fully gasketed for weather tight operation using molded silicone rubber "U-channel" gasket.

Electrical: 16W LED luminaire, 19 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order.

Note: LEDs supplied with luminaire. 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.

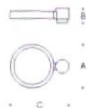
CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 8.6 lbs.

EPA: 0.32

Luminaire Lumens: 1855

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



Single LED Poletop				
	Luminaire	A	B	C
99402	16W LED	11 1/4"	3 1/4"	16"

Recommended for use with 20' to 30' poles.

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 FAX (805) 566-9474 www.bega-us.com
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Project
Waterview
Scottsdale, AZ

12/14/2018
Luminaire Type
LB1

CB12R – Contemporary Concrete Bollard – 12" Round | TYPE

- Warm white (3000K), neutral white (4000K) or bright white (5000K)
- Body and cap are composed of precast concrete reinforced with an internal cage structure of steel
- Grilles are cast aluminum with stainless steel hardware
- Inner lens is sealed to the grille frame
- Integral prewired driver module
- Electrical module is silicone gasketed for weather tight operations
- Color of grilles feature TGIC polyester powder finish coating with choice of 13 standard colors



CB12R

1. MODEL	2. STYLE	3. LIGHT ENGINE	3. CONCRETE FINISH	5. GRILLE FINISH	6. OPTIONS	7. MOUNTING
CB12 R						

1. MODEL

CB12R Concrete Bollard, 12"Ø

2. STYLE

- 24" OAH** *internal or external mounting*
- 24-CO-FLAT *cutoff grille, flat top*
 - 24-HORZ-FLAT *horizontal grille, flat top*
 - 24-VERT-FLAT *vertical grille, flat top*
 - 24-VERT-DOME *vertical grille, dome top*
- 26" OAH** *internal or external mounting*
- 26-CO-DOME *cutoff grille, dome top*
 - 26-HORZ-DOME *horizontal grille, dome top*
- 36" OAH** *internal mounting*
- 36-CO-FLAT *cutoff grille, flat top*
 - 36-HORZ-FLAT *horizontal grille, flat top*
 - 36-VERT-FLAT *vertical grille, flat top*
 - 36-VERT-DOME *vertical grille, dome top*
- 37" OAH** *external mounting*
- 37-CO-FLAT *cutoff grille, flat top*
 - 37-HORZ-FLAT *horizontal grille, flat top*
 - 37-VERT-FLAT *vertical grille, flat top*
 - 37-VERT-DOME *vertical grille, dome top*
- 38" OAH** *internal mounting*
- 38-CO-DOME *cutoff grille, dome top*
 - 38-HORZ-DOME *horizontal grille, dome top*
- 39" OAH** *external mounting*
- 39-CO-DOME *cutoff grille, dome top*
 - 39-HORZ-DOME *horizontal grille, dome top*
- 41" OAH** *internal mounting*
- 41-CO-FLAT *cutoff grille, flat top*
 - 41-HORZ-FLAT *horizontal grille, flat top*
 - 41-VERT-FLAT *vertical grille, flat top*
 - 41-VERT-DOME *vertical grille, dome top*
- 42" OAH** *external mounting*
- 42-CO-FLAT *cutoff grille, flat top*
 - 42-HORZ-FLAT *horizontal grille, flat top*
 - 42-VERT-FLAT *vertical grille, flat top*
 - 42-VERT-DOME *vertical grille, dome top*
- 43" OAH** *internal mounting*
- 43-CO-DOME *cutoff grille, dome top*
 - 43-HORZ-DOME *horizontal grille, dome top*
- 44" OAH** *external mounting*
- 44-CO-DOME *cutoff grille, dome top*
 - 44-HORZ-DOME *horizontal grille, dome top*

3. LIGHT ENGINE

- 36LED-BW 5000K, 42w, 70 CRI
- 36LED-NW 4000K, 42w, 70 CRI
- 36LED-WW 3000K, 42w, 70 CRI

4. CONCRETE FINISH

- MSB *Medium sandblast, natural color finish*
- AGR *Exposed aggregate finish*
- MSB-CC *Medium sandblast, custom color ^{1 2}*
- AGR-CC *Exposed aggregate finish, custom color ^{1 2}*

5. GRILLE FINISH

Standard Color

- WH *Arctic White*
- BL *Black*
- BLT *Matte Black*
- DB *Dark Bronze*
- DGN *Dark Green*
- TT *Titanium*
- WDB *Weathered Bronze*
- MDB *Bronze Metallic*
- VBU *Verde Blue*
- CRT *Corten*
- MAL *Matte Aluminum*
- MG *Medium Grey*
- AGN *Antique Green*
- LG *Light Grey*

Premium Color

- SHK *Shamrock*
- SPP *Salt and Pepper*
- SFM *Seafoam*
- WCP *Weathered Copper*
- RAL *RAL 4 digit Color*
- CUSTOM *Custom Color*

6. OPTIONS

- HSS *House side shield -180°*
- RBC *Single gang electrical box, cast in place with weatherproof cover. ¹*

7. MOUNTING

- INT *Internal, for 24", 26", 36", 38", 41" or 43" OAH only*
- EXT *External, for 24", 26", 37", 39", 42" or 44" OAH only*

¹ Consult Factory.

² Based on Davis colors. For custom color and aggregate, customer must provide aggregate, sand, and colorant.

SPECIFICATIONS

CONCRETE BODY AND CAP

The body and caps are composed of precast concrete reinforced with an internal cage structure of steel. The concrete bodies are one piece castings with a minimum wall thickness of 37/75mm. All threaded inserts are welded to the steel reinforcing cage and cast in place. The base plate for anchoring is 1/4" hot dipped galvanized steel.

GRILLE

Grilles are cast aluminum, minimum wall thickness of .250 inches. All castings are pure aluminum #356 alloy, free of any foreign material or porosity. Grilles have cast-in-place, integral mounting lugs for attachment to the concrete base. The inner lens is sealed to the grille frame. All LED models have an opal DR acrylic lens. The grill assembly has a silicone gasket on the top and bottom for weather tight operation. Recessed stainless steel screws are loosened to remove the top cap for relamping.

CUTOFF

Models with cutoff grille provide IES cutoff classification meaning less than 2.5% of light is emitted above 90° horizontal.

ELECTRICAL MODULE

The electrical module consists of the electrical module and lamp housing. All housing parts are aluminum with stainless steel hardware. The electrical module is prewired on an aluminum strap mounted to the underside of the lamp housing. The electrical module is silicone gasketed for weather tight operation. LED components are 120 thru 277 volt LED constant current driver operates at 350mA.

FINISH

Concrete surface finish is natural concrete with a medium sandblast etch or exposed aggregate. Medium sandblast finish includes a clear anti-vandal sealer.

Grill finish consists of a five stage pretreatment

See next page

JOB	_____
TYPE	_____
NOTES	_____



ARCHITECTURAL AREA LIGHTING
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CB12R – Contemporary Concrete Bollard – 12" Round | TYPE

regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

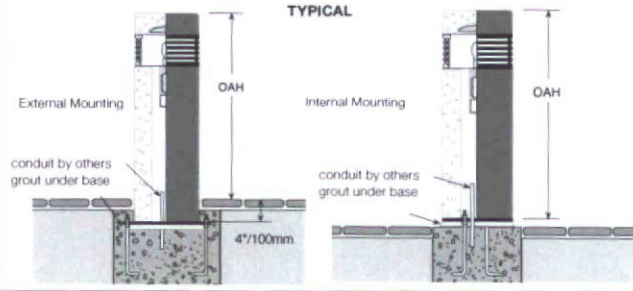
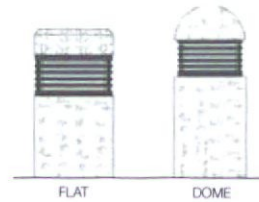
All bollards shall be listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no.250

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:
<http://www.hubbelling.com/resources/warranty/>

MODEL	OAH	GRILLE	TOP	MOUNTING	WT (LBS)	
CB12R	24"	CO	FLAT	EXTERNAL	139	
			INTERNAL	116		
		HORZ	FLAT	EXTERNAL	139	
			INTERNAL	116		
		VERT	DOME	EXTERNAL	135	
			INTERNAL	112		
	26"	CO	FLAT	EXTERNAL	150	
			INTERNAL	127		
		HORZ	DOME	EXTERNAL	135	
			INTERNAL	112		
		36"	CO	FLAT	INTERNAL	186
				INTERNAL	182	
	HORZ		DOME	INTERNAL	182	
			INTERNAL	197		
	VERT		FLAT	EXTERNAL	214	
			INTERNAL	225		
	37"	CO	FLAT	EXTERNAL	210	
			INTERNAL	225		
		HORZ	DOME	EXTERNAL	210	
			INTERNAL	225		
		VERT	FLAT	EXTERNAL	210	
			INTERNAL	225		
	38"	CO	FLAT	INTERNAL	214	
			INTERNAL	210		
HORZ		DOME	INTERNAL	210		
		INTERNAL	225			
VERT		FLAT	INTERNAL	210		
		INTERNAL	225			
42"	CO	FLAT	EXTERNAL	244		
		INTERNAL	240			
	HORZ	DOME	EXTERNAL	240		
		INTERNAL	255			
	VERT	FLAT	EXTERNAL	240		
		INTERNAL	255			
43"	CO	FLAT	INTERNAL	210		
		INTERNAL	210			
44"	CO	FLAT	INTERNAL	210		
		INTERNAL	240			

DIMENSIONS



CB12R VERT 36LED-WW WATTAGE: 37.7 LUMEN OUTPUT: 663 EFFICACY: 17.6 Lm/W

B1 U2 G1

FORWARD LIGHT LUMEN

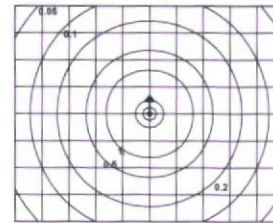
FL	30	1.3%	8
FM	60	16.5%	110
FH	80	17.0%	113
FVH	90	5.9%	39

BACK LIGHT

BL	30	1.3%	8
BM	60	16.5%	110
BH	80	17.0%	113
BVH	90	5.9%	39

UPLIGHT

UL	100	6.8%	45
UH	180	11.7%	78



UPLIGHT 18.5%
DOWNLIGHT 81.5%

3.5' MOUNTING HEIGHT

AAL reserves the right to change product specifications without notice

IES files can be found at www.aal.net



ARCHITECTURAL AREA LIGHTING
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iPRO LARGE
LED

SPECIFICATION SHEET

PAGE 1 OF 3

Project name _____

Type _____



General information

Luminaire characteristics:

Power input: 30W

Lumens: 1615lm to 1904 lm (delivered)

Luminaire efficacy: 53 to 63lm/W

Source: White LED 3000K 85CRI, 4000K 80CRI

Lumen maintenance:

77°F (25°C): >80% of initial lumens at 85 000 hours (L80)

LM-80 (LED) / LM-79 tested

Optics: Available in spot 8° or flood 33° beam

Mounting: Free standing, wall surface. Watertight junction box plate with single cable entry. Adjustable +95° / -5° from horizontal line.

Body: Diecast aluminum body, stainless steel screws and tempered sodium - calcium safety glass.

Electrical: Universal high efficiency electronic power supply rated at 50 000 H, 120-277V.

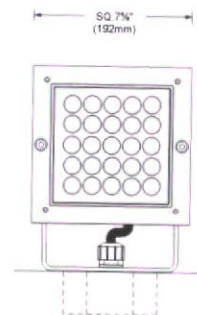
Finish: Gray (RAL9007) or White (RAL9016) painted finish.

Weight: 12.46lbs (5.65kg)

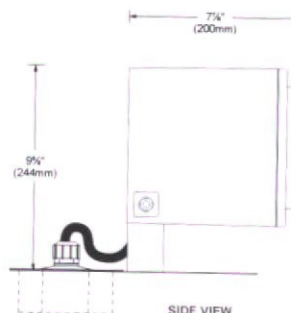
Warranty: 5 years limited warranty.

Certification: cULus listed.

Ratings: IP66, IK07.



FRONT VIEW



SIDE VIEW

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: AUGUST 08, 2014

MGD - R2

iGuzzini
NORTH AMERICA



9320 Blvd. St-Laurent
suite 100, Montréal (Québec)
Canada H2N 1N7
P: 514 523 1339 F: 514 525 6107
www.iguzzini-na.com

Project
Waterview
Scottsdale, AZ

12/14/2018

Luminaire Type

LB

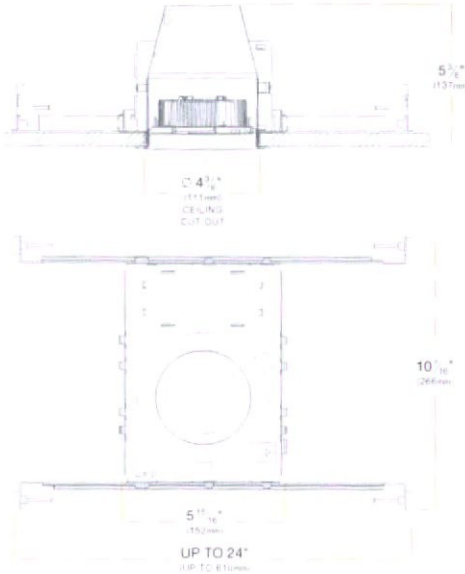


DRD2

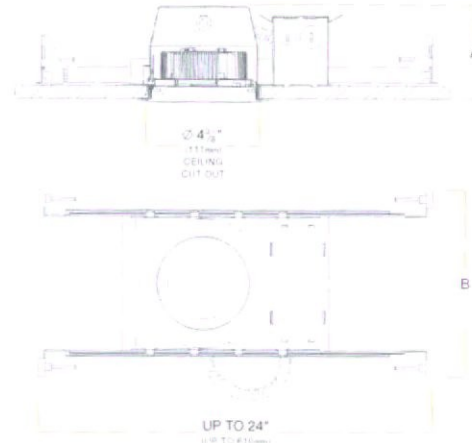
Recessed LED Downlight
General New Construction
4", 5", 6" Aperture

FRAME-IN KIT DIMENSIONS

DRDHNIC4
4" New Construction IC Frame-in Kit



DRDHNIC4S
4" Shallow New Construction IC Frame-in Kit



DRDHNIC4S Measurements	A	B
Standard	3 1/2" [89 mm]	7 1/4" [184 mm]
Alternate Dimming	4" [102 mm]	10" [254 mm]

dmf Lighting 1118 E. 223rd St. Carson, GA 90745 T 1 800 441 4422

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www.dmfighting.com

Page 3 of 10 | V-01.23.18

Project
Scottsdale, AZ

12/14/2018
Luminaire Type





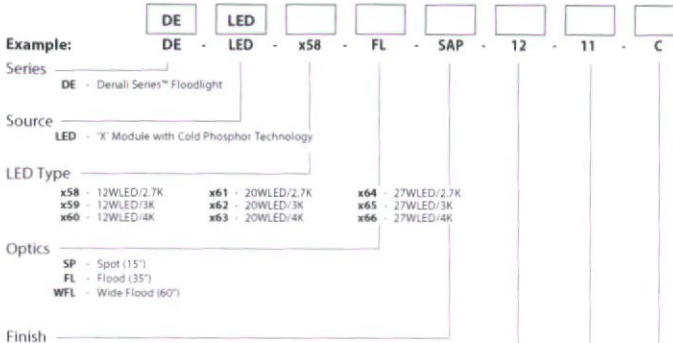
BKSS
12-27W LED



DENALI SERIES™ FLOODLIGHT

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC



Configure Driver Housing Separately
Driver Housing Required

INTEGRAL DRIVER HOUSINGS:
 HP2 - HP2 Housing
 PM2 - Universal Power Module 2
 PM2D - Universal Power Module 2 Dual
 PC - Power Canopy
 PPII - Power Pipe II
 TMB - Pole Mount or Tenon Mount

REMOTE DRIVER HOUSINGS:
 HP2RM - HP2 Remote Housing
 PM2RM - Universal Power Module 2 Remote
 PM2DRM - Universal Power Module 2 Dual Remote
 RM - Remote Wall Mount
 DRM - Dual Remote Wall Mount

Aluminum Finish			Premium Finish		
Powder Coat Color	Satin	Wrinkle	ABP	CMG	RMG
Bronze	BZP	BZW	AMG	CRI	SDS
Black	BLP	BLW	AQW	CRM	SMG
White (Gloss)	WHP	WHW	BCM	HUG	TXF
Aluminum	SAP	—	BGE	MDS	WCP
Verde	—	VER	BPP	NBP	WIR
			CAP	OCP	Also available in RAL Finishes See submittal SUB-1419-00

Lens Type:
 9 - Clear (Standard) 10 - Spread Lens* 12 - Soft Focus Lens* 13 - Rectilinear Lens*

Shielding:
 11 - Honeycomb Baffle*
*Accommodates up to 2 Lens/Shielding media

Cap Style:
 A - 45° B - 90° C - Flush D - 45° less Weep Hole (Interior Use Only) E - 90° less Weep Hole (Interior Use Only)

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559-438-5800 • FAX 559-438-5900 www.bklighting.com • info@bklighting.com	RELEASED 11-7-17	DRAWING NUMBER SUB001113
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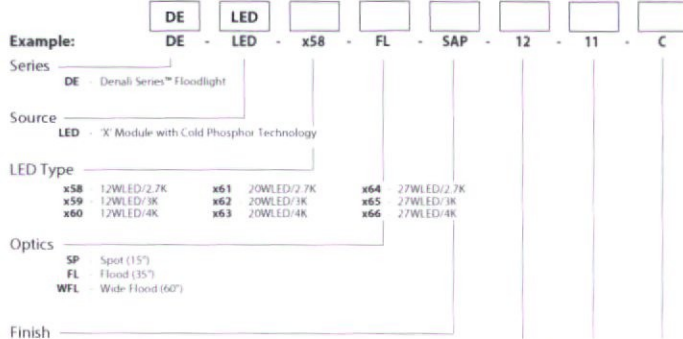
B-K LIGHTING
12-27W LED



DENALI SERIES™ FLOODLIGHT

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC



Configure Driver Housing Separately

Driver Housing Required

INTEGRAL DRIVER HOUSINGS:

- HP2 HP2 Housing
- PM2 Universal Power Module 2
- PM2D Universal Power Module 2 Dual
- PC Power Canopy
- PPII Power Pipe II
- TMB Pole Mount or Tension Mount

REMOTE DRIVER HOUSINGS:

- HP2RM HP2 Remote Housing
- PM2RM Universal Power Module 2 Remote
- PM2DRM Universal Power Module 2 Dual Remote
- RM Remote Wall Mount
- DRM Dual Remote Wall Mount

Aluminum Finish			Premium Finish		
Powder Coat Color	Satin	Wrinkle	ABP	CMG	RMG
Bronze	BZP	BZW	AMG	ARI	SDS
Black	BLP	BLW	AQW	CRM	SMG
White (Gloss)	WHP	WHW	BCM	HUG	TXF
Aluminum	SAP	—	BGE	MDS	WCP
Verde	—	VER	BPP	NBP	WIR
			CAP	OCP	Also available in RAL Finishes See Submittal SUB-1439-00

Lens Type:

- 9 Clear (Standard)
- 10 Spread Lens*
- 12 Soft Focus Lens*
- 13 Rectilinear Lens*

Shielding:

- 11 Honeycomb Baffle*
*Accommodates up to 2 Lens/Shielding media

Cap Style:

- A 45°
- B 90°
- C Flush
- D 45° less Weep Hole (Interior Use Only)
- E 90° less Weep Hole (Interior Use Only)

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA	RELEASED	DRAWING NUMBER
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Project
Scottsdale, AZ

12/14/2018
Luminaire Type
LJT

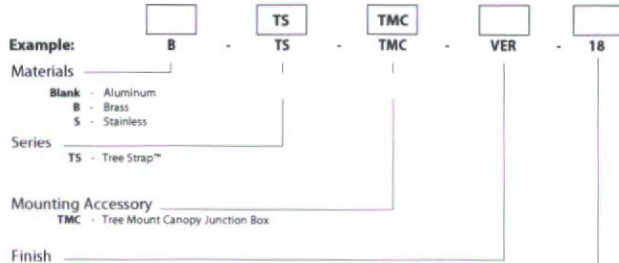


Low Voltage / **B-K LIGHTING**

TREE STRAP JUNCTION BOX

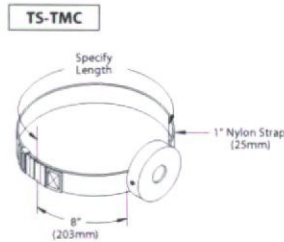
PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC



Aluminum & Brass Finishes			Brass Finishes		Premium Finish					
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
Bronze	BZP	BZW	Polished	POL	AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
Black	BLP	BLW	Mittique™	MIT	AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
White (Gloss)	WHP	WHW	Stainless Finishes		BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
Aluminum	SAP	—	Machined	MAC	BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
Verde	—	VER	Polished	POL	BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
			Brushed	BRU	CAP	Clear Anodized Powder	OCF	Old Copper		<i>Also available in RAL Finishes See submittal 648-1439-00</i>

Adjustable Strap Length (Specify Length) _____
Minimum 3" Adjustable Strap (Standard)



All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Canopy
2 9/16" diameter canopy. Machined from solid billet with chamfered edge. 7/8" Dia. Slip Hole for use with 1/2" LP threaded nipple.

Installation
Tree Strap™ mounting system facilitates non-invasive installation. Adjustable nylon strap is mold and mildew resistant and will not hinder tree growth.

Finish
StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGic polyester

powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
Suitable for indoor or outdoor use. RoHS compliant. Made in USA.



B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE	DRAWING NUMBER
		07-01-14	SUB-2136-00

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Project
Scottsdale, AZ

12/14/2018

Luminaire Type

LJ1T LJ T



B-K LIGHTING

the power of dimming **adjust e-lume** TECHNOLOGY

DELTA STAR™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example: - **DS** - **LED** - **e65** - **SP** - **A7** - **BZW** - **12** - **11** - **A** - **3605L**

Material
Blank - Aluminum
B - Brass
S - Stainless Steel

Series
DS - Delta Star™

Source
LED - "e" Technology with Integral Dimming Driver (See Specifications for Dimming)
 Designed for use with remote 12VAC BRSS1* transformers. Requires magnetic Low Voltage dimmer.

LED Type
e64 - 7WLED/2.7K
e65 - 7WLED/3K
e66 - 7WLED/4K
e74 - 7WLED/Amber

Optics*
NSP - Narrow Spot (Red Indicator)
SP - Spot (Green Indicator)
MFL - Medium Flood (Yellow Indicator)
WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity (Factory setting)
A9 (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**

Aluminum Finish			Brass Finish		Premium Finish		
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	CMG	RMG
Bronze	BZP	BZW	Polished	POL	AMG	ARI	SDS
Black	BLP	BLW	Mitique™	MIT	AQW	CRM	SMG
White (Gloss)	WHP	WHW	Stainless Finish		BCM	HUG	TXF
Aluminum	SAP	---	Machined	MAC	BGE	MDS	WCP
Verde	---	VER	Polished	POL	BPP	NBP	WIR
			Brushed	BRU	CAP	OCF	Also available in RAL Finishes See submittal SUB-1439-00

Lens Type
12 - Soft Focus Lens
13 - Rectilinear Lens

Shielding
11 - Honeycomb Baffle

Cap Style
A - 45°
B - 90°
D - 45° less Weep Hole (Interior Use Only)
E - 90° less Weep Hole (Interior Use Only)

Option
3605L - 3605L™ Rotational Knuckle Mounting System

DRIVER DATA	Input Volts	InRush Current	Operating Current	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRF (Typ.)
e64	2700K	7.0	80
e65	3000K	7.0	80
e66	4000K	7.0	80
e74	Amber (590nm)	7.0	~

L70 DATA

Minimum Rated Life (hrs.)
70% of initial lumens(L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	e66 CBCP	Visual Indicator
Narrow Spot	13°	6889	Red Dot
Spot	15°	5225	Green Dot
Medium Flood	23°	1984	Yellow Dot
Wide Flood	31°	1300	Blue Dot

B-K LIGHTING	40429 Brickyard Drive • Modesto, CA 95336 • USA	SUBMITTAL DATE	DRAWING NUMBER
	559 436 5900 • FAX 559 438 5900 www.bklighting.com • info@bklighting.com	10-24-18	SUB000930

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12/14/2018

Project

Scottsdale, AZ

Luminaire Type

LL1 LL



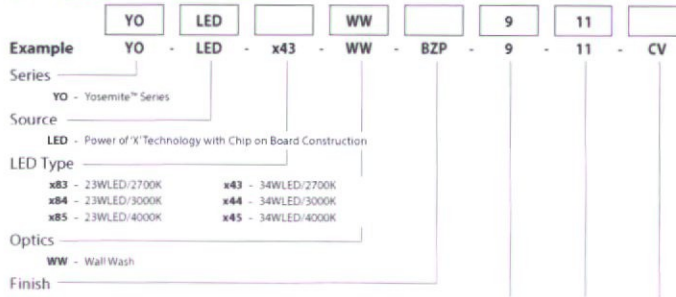
BK LIGHTING



YOSEMITE™ SERIES (YO)

PROJECT:	
TYPE:	
CATALOG NUMBER:	YO LED WW 9 11
SOURCE:	LED - 'X' Technology with COB Construction
NOTES:	

CATALOG NUMBER LOGIC



Configure Driver Housing Separately Driver Housing Required

INTEGRAL DRIVER HOUSINGS:	
HP2	HP2 Housing
PM3	Universal Power Module 3
PM3D	Universal Power Module 3 Dual
PCB	Power Canopy III
TMB	Pole Mount or Tension Mount
REMOTE DRIVER HOUSINGS:	
HP2RM	HP2 Remote Housing
PM3RM	Universal Power Module 3 Remote
PM3DRM	Universal Power Module 3 Dual Remote
RM	Remote Wall Mount
DRM	Dual Remote Wall Mount

Powder Coat Standard Finish			Powder Coat Premium Finish		
Powder Coat Color	Satin	Wrinkle	ABP	CMG	RMG
Bronze	BZP	BZW	AMG	CRI	SDS
Black	BLP	BLW	AQW	CRM	SMG
White (Gloss)	WHP	WHW	BCM	HUG	TXF
Aluminum	SAP	—	BGE	MDS	WCP
Verde	—	VER	BPP	NBP	WIR
			CAP	OCP	Also available in RAL Finishes See submittal SUB-1439-00

- Lens Type: 9 - Clear
- Shielding: 11 - Honeycomb Baffle
- Accessories:
 - CV - Cutoff Visor
 - CS - Cutoff Shroud
 - BD - Adjustable Barn Doors

LM79 DATA

BK No.	Delivered Lumens	CCT (Typ.)	CRI (Ra, Typ.)	Input Watts (Typ.)
x83	1884	2700K	80	23
x84	1924	3000K	80	23
x85	1965	4000K	80	23
x43	2611	2700K	80	34
x44	2631	3000K	80	34
x45	2744	4000K	80	34

L70 DATA

Minimum Rated Life (hrs.) - 70% of initial lumens (L70)
50,000
50,000
50,000
50,000
50,000
50,000

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559 438 5800 • FAX 559 438 5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
11-06-2017

DRAWING NUMBER
SUB-2573-00

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Project
Scottsdale, AZ

12/14/2018
Luminaire Type
LL3

VIA WET LED

RECESSED



LUMENWERX
WWW.LUMENWERX.COM



DESCRIPTION

Via Wet offers architectural lighting for wet locations in both exterior and interior applications. With a simple 3 3/4" high by 4 1/2" wide profile of extruded aluminum, Via Wet can be installed in recessed, ceiling, wall, or pendant mounting.

Fully sealed, Via Wet is suitable for extreme weather condition, -20°C/-4°F to 40°C/104°F. A choice of output options provides up to 1000 lumens per foot section.

PROJECT: _____

TYPE: _____

NOTES: _____

IMPORTANT: Fixture must be installed with lens facing down.

ORDER GUIDE

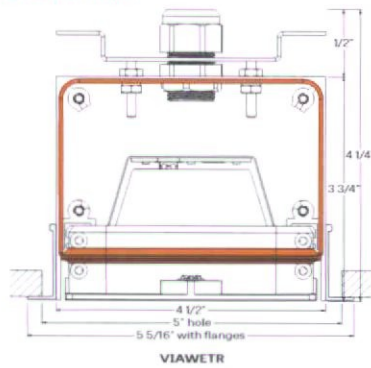
IC RATED

VIAWETR		LED				
LUMINAIRE ID	PROTECTIVE OPTICS	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.
VIAWETR - via wet recessed	TMG - Tempered Clear Glass	HLO - High-Efficiency Lambertian Optic	LED - high performance LED	80 BOCRI	500 - min. low output 500lm/ft	30 - 3000k
	PYC - Clear Polycarbonated	PMO - Precision Micro-Prism Optic		90 90CRI	750 - medium output 750lm/ft	35 - 3500k
					1000 - max. high output 1000lm/ft	40 - 4000k
					#### - other required lm/ft	50 - 5000k

LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL	POWER FEED	MOUNTING	FINISH
Standard sections - 3', 4'	120 - 120V	D1 - 1% dimming 0-10V	1 - 1 circuit	TF - top feed	TRM - trim	W - matte white
For all other specify length	277 - 277V	DA - Dali	•EM - emergency light circuit	EF - end feed	TRL - trimless	CF# - custom finish specify RAL#
#FT - nominal length in feet	UNV - 120V-277V		•NL - night light circuit			
Continuous Run - 4 sections joint together	347 - 347V		•GTD### - generator transfer device, 120V or 277V			

See page 2 for ordering code detailed information.

CROSS SECTION



OPTICS AND PROTECTIVE OPTICS



TMG • HLO - Tempered Clear Glass with High Efficiency Lambertian Optic

File Name: VIAWET-RECESSED-SPEC

Page: 1 / 5

November 24, 2018



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Project
Scottsdale, AZ

12/14/2018
Luminaire Type
L

VIA WET LED

RECESSED



OPTICS AND PROTECTIVE OPTICS

Via Wet is available with a clear tempered glass (TMG) or a clear, UV stabilized polycarbonate (PYC) protective enclosure, which are installed outside of the luminaire optic itself.

The Precision Micro Optic (PMO) option utilizes a special catadioptric lens with a two-dimensional array of prisms designed to eliminate glare while maintaining high efficiency and clean luminous appearance. The High efficiency Lambertian Optic (HLO) option uses a diffuser that combines 88% transmission with good source obscuration.

LIGHT SOURCE - LED

Custom linear array of mid-flux LED's are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

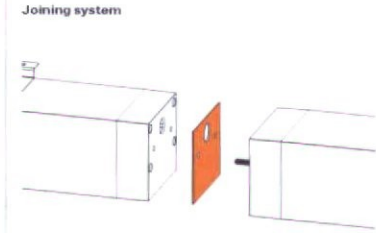
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	22	2000	92
medium output	4000K	33.5	3000	90
high output	4000K	45.5	4000	88

LUMINAIRE LENGTH

Via Wet is made up of standard 3, and 4 foot sections that can be joined cleanly and securely for continuous runs in all configurations.



All individual sections are joined together onsite using the 1/4"-20 screws and nuts provided. The joint between 2 adjacent individual sections is sealed by a silicone gasket attached to one of the 2 sections. The electrical connection between sections is made through the holes provided in the end-caps.

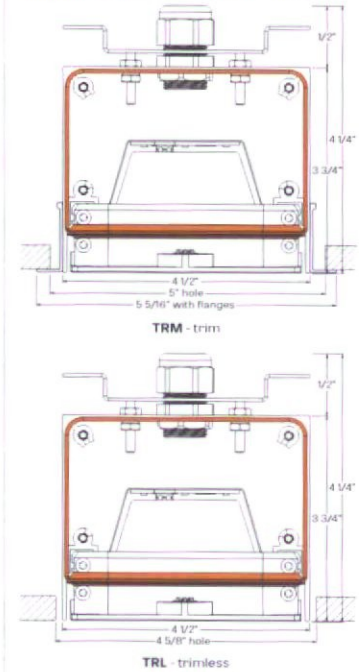
ELECTRICAL

Factory-set adjustable output current electronic driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control.

Rated life (90% survivorship) of 50,000 hours at -20°C min. and 40°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency >84%, PF >0.9, THD <20%. DMX (RDM compatible) and DALI protocol drivers are also available. Low-temperature, -40°C rated, 0-10V (10% minimum) dimming drivers are also available upon request. Power grommet for cable diameter between 0.276" and 0.512" (7-13mm). All of our standard 0-10V drivers are NEMA 410 compliant.

MOUNTING OPTIONS

Mountings are available with trim or trimless



File Name: VIAWET-RECESSED-SPEC

Page: 3 / 5

November 24, 2018



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NEW Featuring Tegan's Exclusive
"Powerspan Cable"

Exton Powerspan Cable System

Kore-EX5 IP65
Cable Mount Pendant with Gem



- Category:** Exton features Tegan's exclusive Powerspan Cable. Tensioned or swagged mounting with various Gems, Glass Envelopes and Shades. Designed for use with a remote Power Supply Enclosure with Driver. Optional 0-10V Dimming.
- Material:** Power Cable: Embedded stainless steel wire in the center of the Custom Cable with 10 gauge conductors inside a IP-65 Self-Sealing Jacket.
Mounting: Powdercoated or anodized steel and aluminum.
Kore-EX5 LED Module: UV stable exterior anodized aluminum, UV stable polycarbonate glass lenses, O-rings.
Gem: 100% machined, clear/frosted acrylic.
- Finish:** Powerspan Cable: Black (BLK) only. Custom finishes not available.
Kore-EX5 LED Module: Exterior rated, brushed, two-step electrolytic color anodizing. Anodized Black (BLK) or Anodized Aluminum (AL).
Gem: Clear/frosted acrylic or Amber/frosted glass.
Pendant Power Cord: Clear with aluminum Kore-EX5 Module and black with black Kore-EX5 Module.
SJ Cord is factory cut in 1" (.025m) increments as specified from 2" (.05m) min. up to 14' (4.3m) max.
Mounting: Anodized Aluminum or Powder Coat Black.
- Power Supply Enclosure:** Refer to Exton Power Supply IP20 Specsheat, IP24 Specsheat or IP66 Specsheat for details.
- Powerspan Cable:** Exton Powerspan, Self-Sealing Cable is IP-65 for interior/ exterior use. Supplied in 1' (30.5cm) increments, with End Cap, as a stand alone to be tensioned or swagged. Field cuttable.
- Mounting:** Surface Mount 2" Wrap Bracket, Black (EX-SWB-2-BLK), Surface Mount 3" Wrap Bracket, Black (EX-SWB-3-BLK), Vertical Surface Mount Bracket, Black finish (EX-VSB-BLK), Horizontal Surface Mount Bracket, Black finish (EX-HSMB-BLK), Standoff Bracket, Black finish (SOBR-BLK) Surface Mount "Drape" Bracket, Black finish (EX-FSDB-BLK), Tensioning Surface End Bracket, Black finish (EX-TSEB), Tree Strap & Buckle, Black finish (EX-TSB-BLK). Exton End Cap - Black finish (EX-EC-BLK).
- Pole Mounting:** Tegan has partnered with AV Poles & Lighting. Poles can be ordered from Tegan Lighting. AV is well-versed on the Exton System and has installed many similar tensioned projects. As required, engineering services will be provided in the quote to insure proper structural installation per code requirements. Refer to Exton Application Guide for information and more details. Poles can also be provided by others; engineering is required by others to ensure structural integrity. Note: **Tegan will not be responsible for Poles/Engineering provided by others.**
- Cable Span:** Maximum Cable mounting is 110' (33.5m). Note that the cable must be a continuous run without interruption. 250W max. per circuit. When specifying cable length, add 20% to the run length for installation.
- Kore-EX5 LED Module:** Kore-EX5 LED Pendant - Anodized Aluminum or Anodized Black finish.
- Power Feed:** Exton IP-65 Power Feed for Remote Power Supply - Black Finish (EXPF-BLK); Field paintable; contact Factory for custom colors. J-Box by others.
- LED:** High Wattage Array Cree LED, 2-Step Macadam. 5W @ 500 (estimated; in testing) with 2700K 82-85 CRI typical. All values are initial lumens. For exact lumen output and wattage consumption data, please consult LM79 reports. Online power consumption does not include driver losses. Contact factory for 2400K, 3500K, 4000K or 90 CRI.



teganlighting.com • info@teganlighting.com • 415-504-3536 • TG33 5/18/18 1

Project
Scottsdale, AZ

OCULUS LIGHT STUDIO

12/14/2018

Luminaire Type



5855 Green Valley Circle Ste 306 Culver City CA 90230 USA USA T +1 310 715 8333 F +1 310 715 8337

Exton Powerspan Cable System

Kore-EX5 IP65
Cable Mount Pendant with Gem

- Electrical:** 24VDC. Total input watts: 6.5W. 250W max. per circuit.
- Optics:** A 15" reflector is supplied in all decorative options to maximize decorative element illumination.
- Remote Power Supply:** The Exton System is designed for use with a Remote Power Supply Enclosure and Driver. Refer to Exton Power Supply IP20 Specs sheet, IP24 Specs sheet or IP66 Specs sheet for details. Use of Tegan Lighting Power Enclosures and Drivers only. If supplied "by others" the warranty and listing are void.
- Gems:** Flat Gem, Frosted Cylinder Gem, Frosted Sphere Gem.
- Engineering:** Due to mathematical laws, tightening and loading any taut end-supported flexible cable puts tensile loads upon its supports (walls, trees, posts, etc.) that is orders of magnitude greater than the weight of the cable and its dynamic loading. Taut installations require extremely strong end supports, and it is up to the specifier and installer to match the strength of the end support structures with the combined level of tautness and static (weight of cable/fixtures) and dynamic (e.g. wind/ice/vermin) load of the cable.
- Installation:** Exton is not approved or listed for indoor pool/sauna installations. Refer to Installation Instructions #23 for details. For system layout, and specification assistance, refer to the Exton Application Guide for details.
- Labels:** ETL Listed; Tested to UL 2108 Low Voltage Lighting Systems. In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear on teganlighting.com are the most recent version and supersede all other versions that exist in any other printed or electronic form. Kore-EX5 Module and Cable - 3 year warranty Envelopes and Architectural Shades: **limited three year warranty.** Refer to Exton Application Guide for details. Consult with an Arborist for proper tree installation per the type of tree(s). Tegan Lighting is not liable for any damage/injury as a result of tree installation. Refer to Installation Instructions #23 for more details.



teganlighting.com • info@teganlighting.com • 415-504-3536 • TG33 5/18/18 2

Project

Scottsdale, AZ

OCULUS LIGHT STUDIO

12/14/2018

Luminaire Type

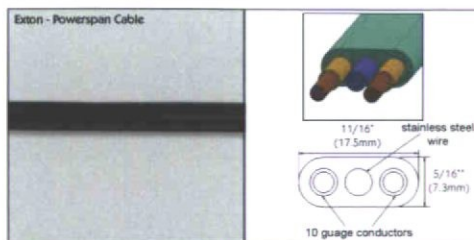


5855 Green Valley Circle Ste 306 Culver City CA 90230 USA USA T +1 310 715 8333 F +1 310 715 8337

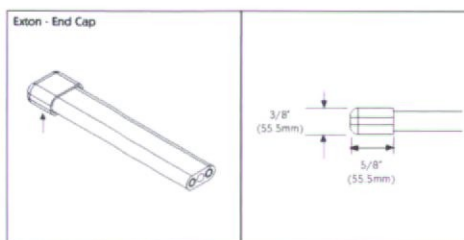
Exton Powerspan Cable System

Kore-EX5 IP65
Cable Mount Pendant with Gem

Exton - Powerspan Cable

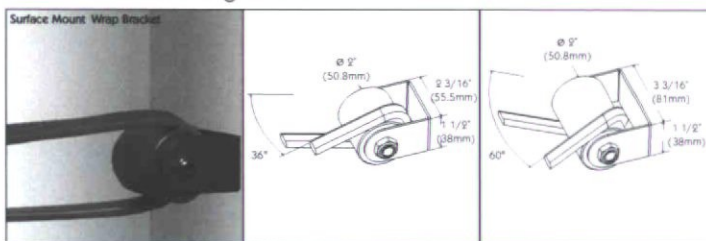


Exton - Powerspan Cable - Black (EX-C-BLK)
Exton Self-Sealing Powerspan Cable is IP-65 for interior/exterior applications. Order in 1' (30.5cm) increments for up to 110' (33.5m) maximal span. Field cuttable. 94VDC at 950W Max. per run. Available in Black finish (only). Refer to Installation Instructions Sheet 93 and Exton Application Guide for details.

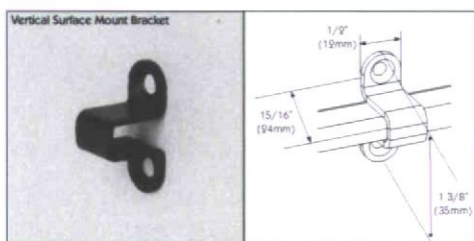


Exton End Cap - Black Finish (EX-EC-BLK)
Exton End Cap is for interior/exterior applications. One (1) required per run. Available in Black finish (only). Refer to Installation Instructions Sheet 93 and Exton Application Guide for details.

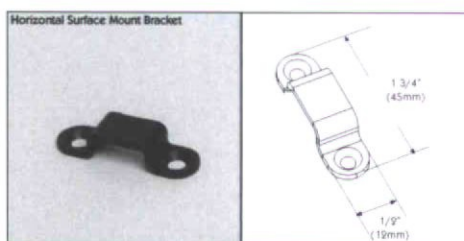
Exton - Cable - Mounting Brackets



Surface Mount 2\"/>



Vertical Surface Mount Bracket, Black (EX-VSB-BLK)
Vertical Surface Mount Bracket for Exton Powerspan Cable can be mounted to any suitable surface, wall, tree, pole, beam, etc. 950W per run, for up to a 110' run. Available in anodized Black (BLK) finish. Can be field painted or contact factory for custom colors. Hardware provided by others. Use fasteners as per the specification of a licensed structural engineer for the mounting substrate. Refer to Installation Instructions Sheet 93 and Exton Application Guide for details. Refer to page one for mounting Exton Brackets to Pole(s).



Horizontal Surface Mount Bracket, Black (EX-HSMB-BLK)
Horizontal Surface Mount Bracket for Exton Powerspan Cable can be mounted to any suitable surface, wall, tree, pole, beam, etc. 950W per run, for up to a 110' run. Available in anodized Black (BLK). Can be field painted or contact factory for custom colors. Hardware provided by others. Use fasteners as per the specification of a licensed structural engineer for the mounting substrate. Refer to Installation Instructions Sheet 93 and Exton Application Guide for details. Refer to page one for mounting Exton Brackets to Pole(s).



LineLED LL Series Wet | IP 65 rated linear LED strip - 24V



LL18 LL30 LL36 LL54

Applications: outdoor / wet location, above cabinet, cove lighting, counter accent, architectural accents, under banisters, decks, gazebos, barbeque stations and wet bars.

LineLED Wet is a new small profile, more energy efficient LED strip for wet locations. The LineLED Wet has superior light output, a durable but flexible circuit board and it is very easy to install.

Due to the sealing bond needed to guarantee the wet-rating, exact lengths are required to order the LineLED Wet. Extending and turning corners in the field require custom production.

LineLED Wet is not suitable for applications where LEDs can become submerged for extended period of time.

Mounting
LED strip is equipped with 3M™ adhesive transfer tape (9472LE).

Approvals
IP65

Beam Angle
120°

Operating voltage
24 VDC

Average life
50,000 hours

Warranty
3 years



Technical information

MODEL	LL18 WET	LL30 WET	LL36 WET	LL54 WET
LEDS/ft	18	30	36	54
Light output 3000K	113 lum/ft	182 lum/ft	228 lum/ft	319 lum/ft
Average power consumption (for 1.5" section)	1.5 W/ft	2.5 W/ft	3.0 W/ft	4.5 W/ft
Cutting increment	4.00"	2.50"	2.00"	1.3"
Maximum run length (in series)	30 ft	30 ft	30 ft	26 ft
Maximum system length	100 ft	48 ft	39 ft	26 ft
Dimensions	0.42" W 0.15" H	0.42" W 0.15" H	0.42" W 0.15" H	0.42" W 0.15" H

CCT INFO/LUMEN MULTIPLIER		TM-30-15		
Color temperature	Multiplier <small>(Inferred from 3000K)</small>	CRI	R _f	R _g
2200K	0.87	83	81	92
2400K	0.73	98	93	98
2700K	0.81	98	95	101
2900K	0.86	98	93	100
3000K	1.00	92	90	99
3500K	1.05	94	90	99
4100K	1.28	90	85	95

SECTION START/END OPTIONS



Ordering code

MODEL	ENCLOSURE	COLOR TEMPERATURE	SECTION START	SECTION END	LENGTH
LL18WET	T	22K	SL	NC	
LL18WET	T Tube	22K 2200K	SL Soldered lead wires (72")	SL Soldered lead wires (72")	view table above for increment options and maximum run length.
LL30WET		24K 2400K		NC No connector	
*LL36WET		27K 2700K			
*LL54WET		29K 2900K			
		30K 3000K			
		35K 3500K			
		41K 4100K			

* Title 24 JAB Compliant

REV0.7 06222018



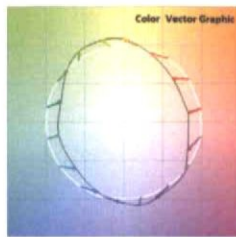
LineLED LL Series Wet IP 65 rated linear LED strip - 24V



TM-30-15: Data

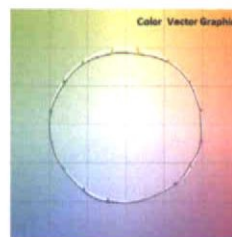
based on I136 values

22K CCT



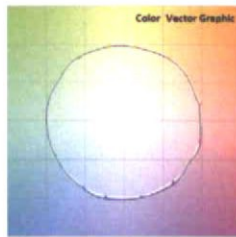
Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	83	10%	2%
2	83	10%	2%
3	83	10%	2%
4	83	10%	2%
5	83	10%	2%
6	83	10%	2%
7	83	10%	2%
8	83	10%	2%
9	83	10%	2%
10	83	10%	2%
11	83	10%	2%
12	83	10%	2%
13	83	10%	2%
14	83	10%	2%
15	83	10%	2%
16	83	10%	2%
17	83	10%	2%
18	83	10%	2%
19	83	10%	2%
20	83	10%	2%
21	83	10%	2%
22	83	10%	2%

24K CCT



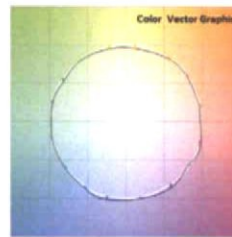
Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	0%
2	93	1%	0%
3	93	1%	0%
4	93	1%	0%
5	93	1%	0%
6	93	1%	0%
7	93	1%	0%
8	93	1%	0%
9	93	1%	0%
10	93	1%	0%
11	93	1%	0%
12	93	1%	0%
13	93	1%	0%
14	93	1%	0%
15	93	1%	0%
16	93	1%	0%
17	93	1%	0%
18	93	1%	0%
19	93	1%	0%
20	93	1%	0%
21	93	1%	0%
22	93	1%	0%

27K CCT



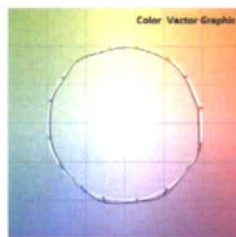
Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	1%	0%
2	96	1%	0%
3	96	1%	0%
4	96	1%	0%
5	96	1%	0%
6	96	1%	0%
7	96	1%	0%
8	96	1%	0%
9	96	1%	0%
10	96	1%	0%
11	96	1%	0%
12	96	1%	0%
13	96	1%	0%
14	96	1%	0%
15	96	1%	0%
16	96	1%	0%
17	96	1%	0%
18	96	1%	0%
19	96	1%	0%
20	96	1%	0%
21	96	1%	0%
22	96	1%	0%

29K CCT



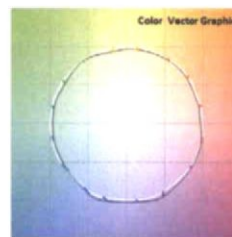
Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	0%
2	97	1%	0%
3	96	1%	0%
4	96	1%	0%
5	96	1%	0%
6	96	1%	0%
7	96	1%	0%
8	96	1%	0%
9	96	1%	0%
10	96	1%	0%
11	96	1%	0%
12	96	1%	0%
13	96	1%	0%
14	96	1%	0%
15	96	1%	0%
16	96	1%	0%
17	96	1%	0%
18	96	1%	0%
19	96	1%	0%
20	96	1%	0%
21	96	1%	0%
22	96	1%	0%

30K CCT



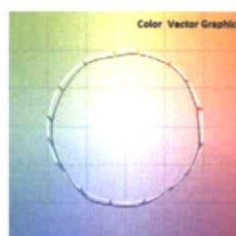
Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	4%	0%
2	92	3%	0%
3	89	2%	1%
4	93	1%	2%
5	92	3%	2%
6	96	3%	0%
7	92	3%	1%
8	90	2%	0%
9	93	1%	0%
10	84	-2%	0%
11	88	2%	10%
12	89	0%	3%
13	93	2%	3%
14	88	1%	7%
15	89	0%	-6%
16	89	0%	-1%

35K CCT



Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	0%
2	94	1%	0%
3	93	1%	0%
4	92	1%	1%
5	90	3%	1%
6	90	0%	0%
7	92	-6%	1%
8	94	-1%	2%
9	90	1%	0%
10	82	-1%	17%
11	83	1%	10%
12	89	0%	0%
13	93	2%	1%
14	90	0%	0%
15	90	1%	0%
16	89	0%	0%

41K CCT



Hour Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	85	0%	1%
2	90	2%	2%
3	90	2%	0%
4	88	-6%	0%
5	87	2%	0%
6	90	-6%	0%
7	87	0%	2%
8	85	-6%	0%
9	90	-6%	10%
10	75	-2%	100%
11	76	1%	17%
12	90	1%	2%
13	88	0%	-6%
14	90	0%	0%
15	81	1%	10%
16	81	0%	0%

LineLED LL Series Wet | IP 65 rated linear LED strip - 24V

Power consumption per linear foot - loads tested with PSD series of power supplies (page 4)

Length of strip (LF)	LL18WET-T		LL30WET-T		LL36WET-T		LL54WET-T	
	W/ft	Total wattage	W/ft	Total wattage	W/ft	Total wattage	W/ft	Total wattage
1	1.65	1.65	2.70	2.70	3.25	3.25	5.15	5.15
2	1.65	3.30	2.70	5.40	3.25	6.50	5.30	10.60
3	1.65	4.95	2.70	8.10	3.25	9.75	5.25	15.80
4	1.63	6.58	2.65	10.60	3.20	12.80	5.20	20.80
5	1.63	8.21	2.65	13.25	3.20	16.00	5.15	25.90
6	1.62	9.83	2.60	15.90	3.15	18.90	5.10	30.80
7	1.62	11.45	2.60	18.70	3.15	22.05	5.05	35.70
8	1.62	13.07	2.60	21.60	3.10	24.80	5.00	40.60
9	1.60	14.67	2.55	23.40	3.10	27.90	4.95	44.80
10	1.60	16.30	2.55	25.50	3.05	30.30	4.90	48.90
11	1.57	18.07	2.51	28.05	3.05	33.50	4.85	53.30
12	1.57	19.64	2.51	30.60	3.00	36.00	4.80	57.60
13	1.57	21.21	2.50	32.50	3.00	39.00	4.75	62.00
14	1.55	22.76	2.50	35.00	3.00	42.00	4.70	66.30
15	1.55	24.31	2.50	37.50	3.00	45.00	4.65	70.60
16	1.55	25.86	2.45	39.75	2.95	47.20	4.60	75.00
17	1.52	27.38	2.45	41.65	2.95	50.15	4.55	79.40
18	1.52	28.90	2.45	44.10	2.90	52.30	4.50	77.00
19	1.52	30.42	2.4	45.90	2.90	55.10	4.45	81.30
20	1.50	31.20	2.4	48.00	2.85	57.00	4.4	85.80
21	1.50	32.70	2.4	50.40	2.85	59.85	4.35	90.30
22	1.50	34.20	2.35	52.75	2.80	61.80	4.3	94.80
23	1.48	35.68	2.35	54.75	2.80	64.80	4.25	99.30
24	1.47	37.15	2.35	56.40	2.75	66.00	4.20	103.80
25	1.47	38.62	2.3	57.90	2.75	68.75	4.15	108.30
26	1.45	40.07	2.3	59.80	2.70	70.20	4.1	112.80
27	1.45	41.52	2.3	61.70	2.70	72.90		
28	1.43	42.20	2.25	63.00	2.65	74.20		
29	1.42	43.00	2.25	64.50	2.65	76.85		
30	1.40	43.70	2.25	67.50	2.60	78.00		
31	1.40	45.10	2.20	69.00	2.60	80.60		
32	1.38	46.50	2.20	70.40	2.55	81.60		
33	1.37	47.70	2.15	72.00	2.55	84.15		
34	1.37	49.00	2.15	73.50	2.50	83.00		
35	1.36	50.45	2.15	75.20	2.50	87.30		
36	1.36	51.70	2.10	77.40	2.45	88.20		
37	1.36	52.50	2.10	77.70	2.45	90.65		
38	1.36	53.00	2.10	79.80	2.40	91.20		
39	1.35	53.90	2.10	81.60	2.40	93.60		
40	1.35	54.80	2.05	82.90				
41	1.35	55.75	2.05	84.00				
42	1.34	57.09	2.05	85.10				
43	1.34	58.43	2.00	86.90				
44	1.33	59.76	2.00	88.00				
45	1.33	61.07	2.00	90.00				
46	1.32	61.97	1.95	91.20				
47	1.32	62.70	1.95	92.55				
48	1.31	63.50	1.95	93.60				
49	1.31	64.05						
50	1.30	64.80						
51-60	1.30-1.25	65.20-70.80						
61-70	1.25-1.20	71.00-76.20						
71-80	1.20-1.10	77.00-81.60						
81-90	1.10-1.00	82.00-86.20						
91-100	1.00-0.95	87.00-91.40						

Accessories

Mounting clip:
recommended at every 12" when
used in 1/2" step of housing down.

Part # CL-2



Splice Box:
24V rated, low voltage
splice box, gray.

Part # LVSP-WET



Connector:
low voltage splice box wet table
management girth.

Part # LVSP-WET-CH



REVO 7 06222018

Project
Scottsdale, AZ

12/14/2018
Luminaire Type
LS1

Kurba Horizontal | Flexible LED strip - 24 VDC



Kurba Horizontal is a direct view, small profile, energy efficient and flexible LED strip suitable for wet locations capable of horizontal bends up to 2.5" radius. Built with robust factory made power feeds or joiners, Kurba Horizontal mounts to a specifically designed aluminum extruded channel.

Operating voltage
24 VDC

Operating temperature
4°F to 113°F
(-20°C to 45°C)

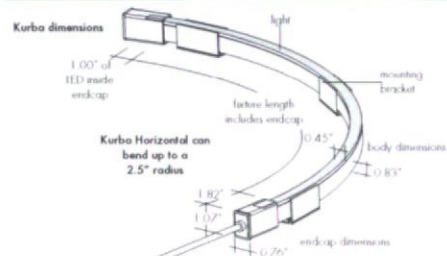
Average life
50,000 hours

Dimming
low voltage dimmer and class 2 dimming power supply required

Approvals
Class 2 wet listed, IP67

Warranty
3 years

Applications:
Outdoor wet location

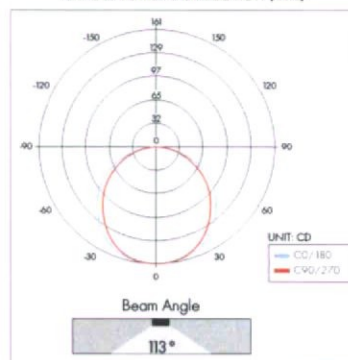


Technical information

MODEL	KBM-XX
LEDS/ft	22
Light output at 3000K	122 lm/ft
Average power consumption at 4"	3.4 W/ft
Ordering increment	3.275'
Maximum run length (in series)	26 ft

CCT INFO/LUMEN MULTIPLIER	
Color temperature	Multiplier (Inferred from 3000K)
2400K	1.00
2700K	1.03
3000K	1.00
3500K	1.09
4100K	1.10

CANDLE POWER DISTRIBUTION (41K)



SECTION START/END OPTIONS



Ordering code for straight run

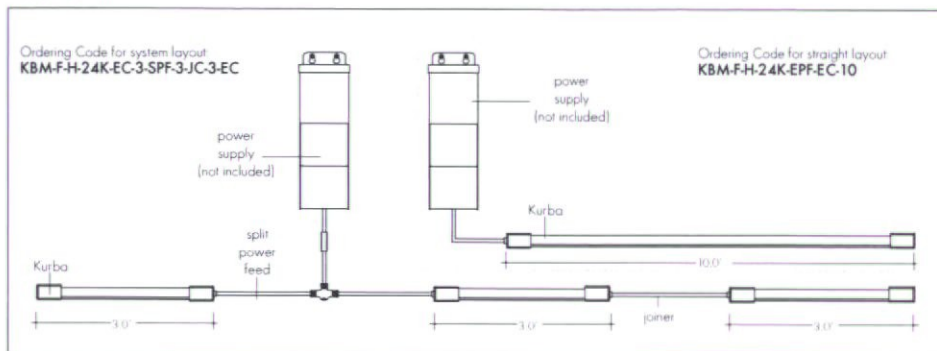
MODEL	COLOR TEMPERATURE	SECTION START	SECTION END	LENGTH
KBM-F-H	24K	EPF	EC	
KBM - Kurba medium flat horizontal	24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 41K - 4100K	EPF - End power feed (72" wire lead)	EC - End cap EPF - End power feed (72" wire lead)	view table above for ordering increment (6" minimum)

Kurba Horizontal Flexible LED strip - 24 VDC



Kurba System Run

Sample layout



SECTION START/END OPTIONS

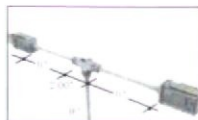
End power feed
(72" wire lead)



End cap



Split Power Feed



Factory Joiner



Ordering code for system run

MODEL	COLOR TEMPERATURE	SECTION START	FIXTURE LENGTH	JOINER TYPE	FIXTURE LENGTH	SECTION END
KBMF-H	24K	EPF		SPF		EC
KBM Kurba medium flat horizontal	24K 2400K 27K 2700K 30K 3000K 35K 3500K 41K 4100K	EC End cap EPF End power feed (72" wire lead)	view table on page 1 for ordering increments and maximum run length	SPF Split power feed JC Joiner	view table on page 1 for ordering increment (6" minimum)	EC End cap EPF End power feed (72" wire lead)

Each system run must be kept under power supply max wattage. Refer to page 4 for power supply information. Additional runs can be added to system, by continuing the same ordering code logic reference sample above.

Mounting Accessories & Optional Connectors

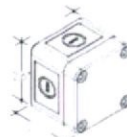
aluminum channel
Part # MC-KBM-F-H-28



mounting bracket,
recommended every 8 inches
Part # MB-KBM-F-H-2IN



Splice Box - We recommend using splice boxes for all joins.
Part # LVSP-WET



Connector - Use end caps for all run terminations.
Part # LVSP-WET-CM

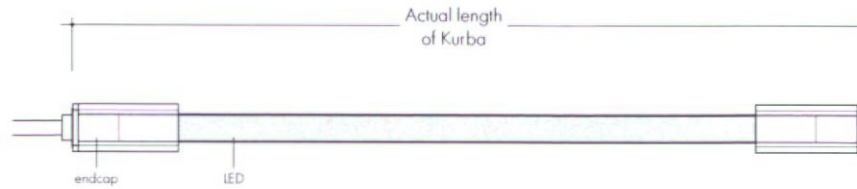


Kurba Horizontal Flexible LED strip - 24 VDC



Power consumption per fixture length

Based on operation with PSD series of power supplies.



Nominal Length	Actual Length	W/ft	Total wattage
1'	11.5/16"	3.20	3.20
2'	24.7/16"	3.20	6.40
3'	37.8/16"	3.30	9.90
4'	47.6/16"	3.40	13.70
5'	60.7/16"	3.28	16.40
6'	73.9/16"	3.35	20.10
7'	83.6/16"	3.40	23.80
8'	96.8/16"	3.31	26.50
9'	109.9/16"	3.38	30.40
10'	119.6/16"	3.41	34.10
11'	132.8/16"	3.35	36.80
12'	145.10/16"	3.34	40.10
13'	155.7/16"	3.39	44.00
14'	168.8/16"	3.32	46.70
15'	181.10/16"	3.32	50.50
16'	198.7/16"	3.32	53.90
17'	204.9/16"	3.36	56.50
18'	214.6/16"	3.36	60.40
19'	227.8/16"	3.35	63.80
20'	240.9/16"	3.33	66.70
21'	250.6/16"	3.34	70.00
22'	263.8/16"	3.34	73.40
23'	276.10/16"	3.30	76.00
24'	286.7/16"	3.31	79.50
25'	299.8/16"	3.28	82.10
26'	312.10/16"	3.28	85.30

Kurba Horizontal Flexible LED strip - 24 VDC

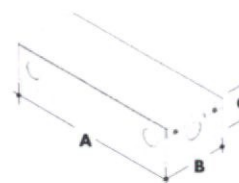
Power supply

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

Non-Dimming:

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV	40	24V	U2ND	D
PSV - PSV Series	40 - 40 W 60 - 60 W 96 - 96 W	24 - 24 VDC	U2ND - Non Dimming	D - Dry Location IP65 - Wet Location

MODELS	PSV Dry	PSV Wet
A Length	9.2"	9.5"
B Width	3.4"	4.12"
C Depth	1.9"	2.3"

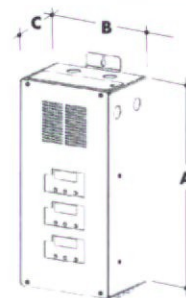


Dimming 0-10V:

MODEL	POWER	OUTPUT	DIMMING
PS010V	3X100	24	LIN
PS010V - 0-10V Power Supply dims down to 0%	3X100 - 3 X 100 WATT	24 - 24 VDC	LIN - Linear LOG - Logarithmic

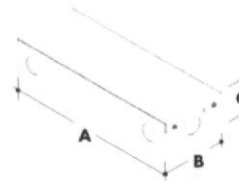
- features eldoLED's LINEARdrive configurable 0-10V drivers.
- Suitable for dry location only.

MODELS	PS010V
A Length	15.75"
B Width	6.60"
C Depth	4.80"



MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV	40	24V	U2DIM	D
PSV - PSV Series dims down to 5%	40 - 40 W 60 - 60 W 96 - 96 W	24 - 24 VDC	U2DIM - Dimming 0-10V	D - Dry Location IP65 - Wet Location

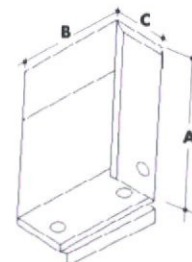
MODELS	PSV Dry	PSV Wet
A Length	9.2"	9.5"
B Width	3.4"	4.12"
C Depth	1.9"	2.3"



Dimming Magnetic low voltage:

MODEL	POWER	OUTPUT	INPUT
PSD	48	24	Blank - 120 V 240 - 240 V 277 - 277 V
PSD - PSD Series dims down to 0%	48 - 48 W 96 - 96 W 288 - 288 W (3x 96W)	24 - 24 VDC	

MODELS	PSD 48	PSD 96	PSD 288
A Length	11.25"	11.25"	13.06"
B Width	3.42"	3.42"	8.42"
C Depth	3.42"	3.27"	4.47"



Twiggy Grid, outdoor
by Marc Sadler

FOSCARINI



DESCRIPTION

A lamp-icon in its outdoor version. Based on the image of a fishing rod as it curves, Twiggy Grid embodies its flexibility, clarity and strength, gathering them into an object with a vivid personality.

MATERIALS

Coated fiberglass-based composite material, PMMA, coated metal and aluminium

COLORS

Carmine, Greige

Project

Scottsdale, AZ

OCULUS LIGHT STUDIO

12/14/2018

Luminaire Type

LS

5855 Green Valley Circle Ste 306 Culver City CA 90230 USA USA T +1 310 715 8333 F +1 310 715 8337

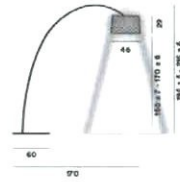
Twiggy Grid, outdoor

technical details

FOSCARINI

Twiggy Grid

SCHEMATIC & LIGHT EMISSION



MATERIAL

Coated fiberglass-based composite material, PMMA, coated metal and aluminium

COLORS



LIGHT SOURCE

LED Included 21W

CERTIFICATIONS



ENERGY EFFICIENCY

A++

ACCESSORIES

Twiggy Grid

LED wall luminaires - directed

BEGA

Application

LED wall mounted luminaires with directed light designed to be mounted at various heights for general purpose illumination or glare free illumination when below eye level.

Materials

Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy

Matte safety glass

Silicone applied robotically to casting, plasma treated for increased adhesion

High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65

Weight: 3.6 lbs

Electrical

Operating voltage 120-277V AC

Minimum start temperature -40° C

LED module wattage 12.3W

System wattage 15.0W

Controllability 0-10V, TRIAC, and ELV dimmable

Color rendering index Ra > 80

Luminaire lumens 1,077 lumens (3000K)

Lifetime at Ta = 15° C > 500,000 h (L70)

Lifetime at Ta = 45° C 108,000 h (L70)

LED color temperature

4000K - Product number + **K4**

3500K - Product number + **K35**

3000K - Product number + **K3**

2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:

Type:

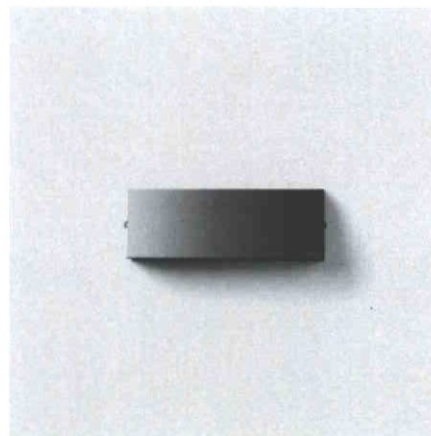
BEGA Product:

Project:

Modified:



LED wall luminaires - directed		LED	A	B	C
24374		12.3W	11 /	4 /	3 /



BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
© copyright BEGA 2018 Updated 01/29/18

12/14/2018

Project

Scottsdale, AZ

Luminaire Type

L 1



B-K LIGHTING

the power of dimming
adjust-e-lume® TECHNOLOGY

EL CAPITAN™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC



Material
Blank - Aluminum
B - Brass
S - Stainless Steel

Series
EC - El Capitan Series™

Source
LED - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)
Designed for use with remote 12VAC BKSIL™ transformers. Requires magnetic Low Voltage dimmer.

LED Type
e64 - 7WLED/2.7k
e65 - 7WLED/3k
e66 - 7WLED/4k
e74 - 7WLED/Amber

Optics*
NSP - Narrow Spot (Red Indicator)
SP - Spot (Green Indicator)
MFL - Medium Flood (Yellow Indicator)
WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity (Choose factory setting)
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

Aluminum Finish			Brass Finish		Premium Finish		
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	CMG	RMG
Bronze	BZP	BZW	Polished	POL	AMG	CRI	SDS
Black	BLP	BLW	Mitigue™	MIT	AQW	CRM	SMG
White (Gloss)	WHP	WHW	Stainless Finish		BCM	HUG	TYF
Aluminum	SAP	—	Machined	MAC	BGE	MDS	WCP
Verde	—	VER	Polished	POL	BPP	NBP	WIR
			Brushed	BRU	CAP	OCP	Also available in RAL Finishes See submittal SUB-1439-00

Lens Type
12 - Soft Focus Lens
13 - Rectilinear Lens

Shielding
11 - Honeycomb Baffle*

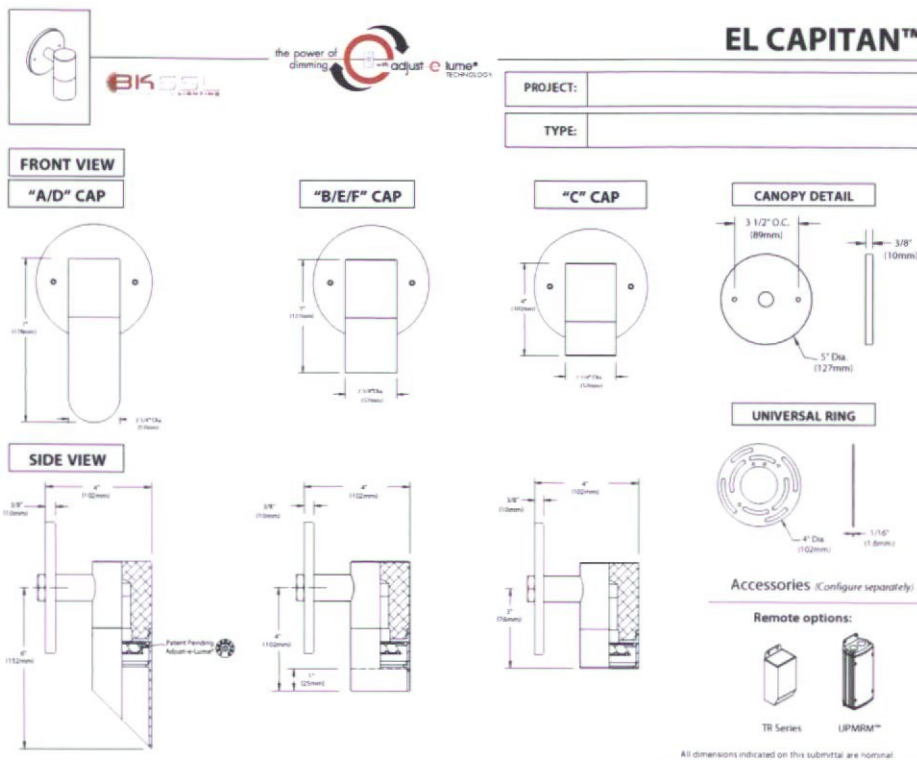
Cap Style
A - 45°
B - 90°
C - Flush
D - 45° less Weep Hole (Interior Use Only)
E - 90° less Weep Hole (Interior Use Only)
F - 90° cutoff with Flush Lens

*Accommodates up to 2 Lens/Shielding media

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559-438-5800 • FAX 559-438-5800 www.bklighting.com • info@bklighting.com	RELEASED 10-23-18	DRAWING NUMBER SUB000942
	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.		

Project
Scottsdale, AZ

12/14/2018
Luminaire Type
LW2



SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body
Fully machined from solid billet. Limbody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal.

Cap
Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), 1° deep bezel with 90° cutoff ('B' or 'E'), flush lens ('C') cap styles, or 1° deep cutoff with flush mounted lens ('F'). 'A' and 'B' caps include weephole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

Dimming
Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming, Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Installation
5" dia., machined canopy with stainless steel universal mounting ring permits mounting to 4" octagonal junction box (by others). Suitable for upright or downlight installation.

Remote Transformer
For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring
XLPE, 18GA, 150C, 600V, rated and certified to UL3321.

Hardware
Tamper-resistant, stainless steel hardware. Canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHS compliant, 15 stage chrome-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. Suitable for indoor or outdoor use. Suitable for use in wet locations. RoHS compliant. Made in USA.

*Teflon is a registered trademark of DuPont Corporation.
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559 438 5800 • FAX 559 438 5900 www.bklighting.com • info@bklighting.com	RELEASED 10-23-18	DRAWING NUMBER SUB000942

Project
W
Scottsdale, AZ

12/14/2018
Luminaire Type
LW2



L302 (trimless)

Application Exterior/interior directional in-grade luminaire for lighting walls, columns, architectural features or landscape features. Applicable for mounting into floors, walls, ceilings or other surfaces where a non-obtrusive luminaire is required. Suitable for drive-over and walk-over applications. For wet / dry locations.

Recommended Projects - Commercial, Institutional, Retail, Clinic, Hospitality, Religious, Educational, Architecture

IP Rating 66

Mounting Comes with splice box, aluminum flange and level gauge. Can be buried in earth/gravel or cast into concrete/paving stone with or without mounting base. Designed to be cast into concrete or inserted into paving stone. Includes 6" wire lead. Can be mounted with MK1 and MK2 (consult with factory). Can be used with Single Gang Box (not included; can be purchased directly from MP Factory). See page 3, 4, 5.

Electrical Powered by remote dimmable/ non-dimmable driver (sold separately).

*See website for recommended drivers

*Remote emergency driver / inverter options available. Consult factory.

Power 1.5 Watt (at 350 mA, 1.0 Watt)

Consumption 3.0 Watt (at 700 mA, 2.5 Watt)

Light Output 1.0 Watt, 47-62lm

2.5 Watt, 75-79lm

*For additional details, see page 3-5.

Warranty 5 years limited warranty

Estimated useful life of LED is 50,000 hours.

Material Solid anodized aluminum or stainless steel (316) with tempered glass lens, RoHS compliant.

Drive Over Rating 2200kg/4850lbs

Weight 1.8lbs (0.816kg) base extra

Approval 

Type:

Project:

Modified:

Quantity:

Notes:

DISCLAIMER - MP Lighting is a complete system from all component product manufacturers with minimum 100,000 hours (at 120° A) guarantee. Manufacturer's specifications to produce due to improper dimming system installation. The above will not be covered under warranty. Only DC drivers are recommended for dimming systems. Consult MP Lighting for recommended drivers.

*MP Lighting reserves the right to stop sales distribution at any time and without notice to make design changes to any of our products.

Order Guide

Example: L302-1-W275-N-C-LM-0-A-S-2-56

Code	Wattage	Color	Beam	Lens	Mounting	Angle Bracket*	Input Voltage	Flange Height	Base Height	Finish
L302 -										
	1 = 1W 2 = 2.5W	W205 = 2000K, 80+ CRI W225 = 2200K, 80+ CRI W275 = 2700K, 80+ CRI W305 = 3000K, 80+ CRI W355 = 3500K, 80+ CRI W415 = 4100K, 80+ CRI W27H = 2700K, 90+ CRI W30H = 3000K, 90+ CRI W35H = 3500K, 90+ CRI	T = thin spot S = spot N = narrow flood W = wide flood	C = clear F = frosted	LM = louver, matte anodized LB = louver, black anodized HM = hex louver, matte anodized HB = hex louver, black anodized	0 = no angle 20 = 20° angle X = custom (20° max.)	D = DC A = 12V AC	\$ = standard flange/box, 2-7/8" P = paving stone flange/box, 5-1/2"	0 = no base 2 = 2" (51mm) 6 = 6" (152mm)	MA = matte clear anodized BA = black anodized BZ = bronze anodized SS = stainless steel 316
		*W205 AC only *W275 DC only				* Max 20 angle bracket without louver option * (optional) angle bracket factory set. Cannot be field adjusted			**please go to page 2 & 3 for more info on custom bases	

www.mplighting.com | 1.877.708.1184 | 604.708.1185

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11-2017

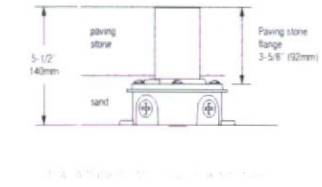
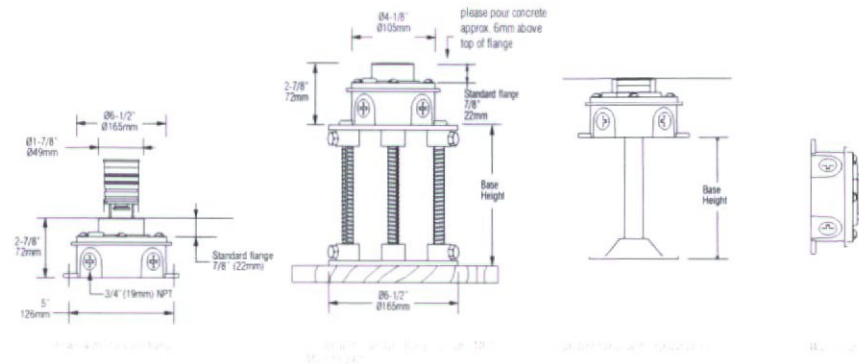
Project
W
Scottsdale, AZ

12/14/2018

Luminaire Type

LW

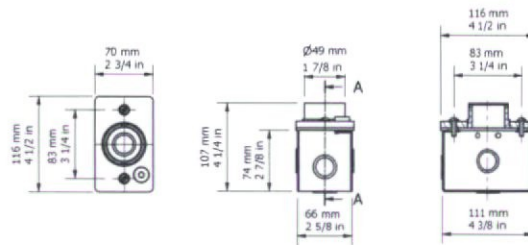
DIMENSION:



CUSTOM RECTANGULAR BOXES ORDER GUIDE:

Code	Custom Flange + Box
EBX - L01	<p>SGB1 = MPLIGHTING Single gang box, 4-1/4" (111mm) x 4-1/4" (111mm)</p> <p>SGB = Single gang box berville SCMBD1-K, 4-3/4" (120mm) x 4-3/4" (120mm)</p> <p>SFD = Scepter FD, 4-1/4" (111mm) x 4-1/4" (111mm)</p>

Single gang box 1-1/2" (38mm) x 1-1/2" (38mm)
Please refer to the SGB1, SGB, SFD, and SFD1 drawings.



LED recessed wall luminaires - asymmetrical

BEGA

Application

LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

Materials

Luminaire housing and faceplate constructed of die-cast aluminum marine grade, copper free (± 0.3% copper content) A360.0 aluminum alloy
 Clear safety glass
 Silicone applied robotically to casting, plasma treated for increased adhesion
 High temperature silicone gasket
 Mechanically captive stainless steel fasteners
 Stainless steel screw clamps
 Composite installation housing

NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 2.1 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-40° C
LED module wattage	8.4 W
System wattage	11.0 W
Controllability	0-10V, TRIAC, and ELV dimmable
Color rendering index	Ra > 80
Luminaire lumens	480 lumens (3000K)
Lifetime at Ta=15°C	374,000 h (L70)
Lifetime at Ta=25°C	202,000 h (L70)

LED color temperature

- 2700K - Product number + **K27**
- 3000K - Product number + **K3**
- 3500K - Product number + **K35**
- 4000K - Product number + **K4**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

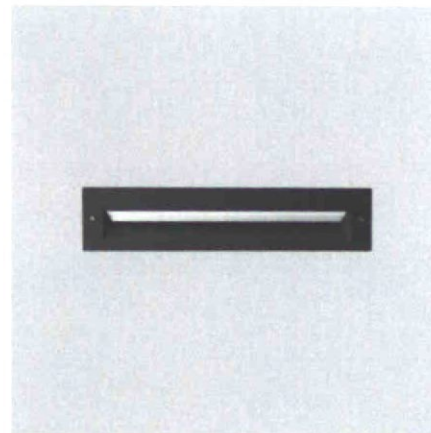
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

Type:
 BEGA Product:
 Project:
 Modified:



Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.



LED recessed wall luminaires - asymmetrical

	LED	A	B	C
33055	8.4 W	12 1/2"	2 1/4"	5"

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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12/14/2018

Luminaire Type

LW

Project
W
 Scottsdale, AZ



2840 N Brookfield Rd, Suite 3 | PH 262 505 5124 | www.klikusa.com
 Brookfield, WI 53045 | FX 262 753 6562 | sales@klikusa.com

Project Name: Location:

Specifier: Rep Agency:

Fixture Type: Product Code:

KLIC LEDpod™ 40 Patented

Description

Discrete, seamless point source LED fixture for use in all code-compliant handrail, especially curving ramps and helical stairs as well as long runs on bridges and pedestrian paths. Asymmetric optic allows mounting at rail nadir, eliminating uncomfortable glare issues.

Housing

Clear-anodized aluminum body as standard. Color-match anodized or bronze body as options, consult factory.

Silicone gasket insulates fixture from parent metal, eliminating possibility of galvanic corrosion.

- Anodized aluminum standard
- Bronze option
- Color match anodize, consult factory

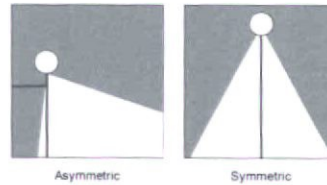
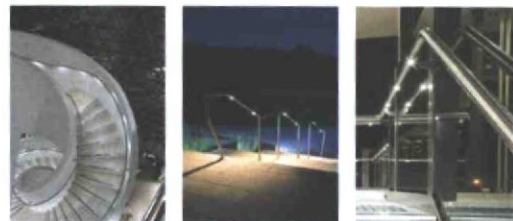
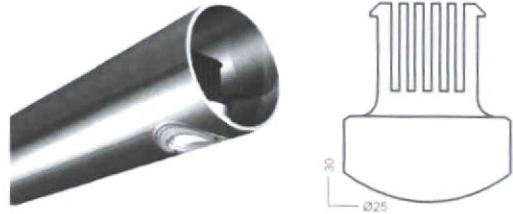
Mounting

Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in railing material, eliminates threading, gluing or exposed fasteners common among other handrail fixtures. All conductors remain internal to railing to provide secure and safe wiring. Tamperproof option available for extreme environments, consult factory.

- Tube Size \varnothing 1.5" - 1.75", Max wall 2". Other sizes available upon request.
- Cut Out: 25mm
- Weight: 0.16 LBS

Electrical/LED Driver

- Input Voltage: 24 VDC
- Operating Temp: -40 to 120° F
- Efficiency: 88 lm/W
- Driver: Must use class 2 driver
 - Primary Driver: 110 - 277 VAC UL Listed Constant Voltage
 - Secondary Driver: 350 - 500mA Constant Current
- Control: DALI, 0-10V, DMX
 - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA 3R required



Listings

- ETL listed, UL 1598/CSA 22.2, CE
- cETL
- IP65 rated. All IP rated luminaires tested to AS80529-2004. Degrees of protection provided by enclosures (IP Code)
- IK08 Impact Resistance
- Wet location rated



Product Codes Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: LP4030KA40DIM

Fixture Type	Rail Size ^{1, 2}	Color ¹	Distribution	Rail Wall Thickness	Dimming ⁴	Lens Option
LP LEDpod	40 1.50" Tube -or- 1.66" Pipe	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K AMB Amber	A Asymmetric S Symmetric	1512 1.5" Tube x 120" Wall 05 Sch 5 Pipe 10 Sch 10 Pipe 40 Sch 40 Pipe 80 Sch 80 Pipe CUST Non-stock	DIM Dimmable Note: 1.5 Watt is non-dimmable	Clear lens standard Add FRS for frosted diffused lens

1. Additional sizes are available as special order, contact factory for rail dimensions other than those shown on this sheet.
2. Bronze material requires a special clip, contact factory for more information.
3. Also available in blue (BLU), green (GRN), red (RED), and custom color temperature (as special order).
4. Additional charges and lead time apply for this feature.
5. Tamper proof option offers additional protection in extreme environments. Additional charges and lead time apply for this feature. To specify, add "TP" to product code.
6. To Specify 1.5 Watt, add "0350" to product code.

Project
W
 Scottsdale, AZ

12/14/2018
 Luminaire Type
L



2840 N Brookfield Rd, Suite 3 | PH 262 505 5124 | www.klikusa.com
 Brookfield, WI 53045 | FX 262 753 6582 | sales@klikusa.com

Project Name: _____ Location: _____
 Specifier: _____ Rep Agency: _____
 Fixture Type: _____ Product Code: _____

LED Performance

LED Cree XT-E
 CCT 2700, 3000, 4000 (others available)
 CRI 80-85
 Life 80% at 50k hrs and 85° C
 Binning 2 McAdam Step
 Warranty 5 Year Warranty

Lumens/Fixture or Pod

STANDARD	SPECIAL ORDER
2W/POD Transparent	1.5W/POD Transparent
3000K 145	3000K 107
4000K 154	4000K 114
5000K 176	5000K 130

*Contact factory for 1.5W POD

Optics				Reflector	
Beam Angle				Symmetrical	Asymmetrical
LOR defined by optics				76	74
lm	W	mA	V	System Lumens @4000K	
120	1.4	350	3	92	89
162	1.9	500	3	124	120

Remote Mounting Distance Chart

24 VDC 100W Driver	Approximate Distance From Driver to First LED at 37 Fixtures			
Wire Size	10 AWG	12 AWG	14 AWG	16 AWG
Distance	525'	328'	213'	131'

Calculations based on 2' centers between pods
 Increased spacing reduces number of pods per circuit

Primary Driver

Primary Driver	Secondary LED Driver	Spacing	Maximum KLIIK LEDpods™ *
110 - 277 Primary Voltage Remotely Mounted Dimming Control 10' x 1.5' x 2"	500mA	24"	37
	350mA	24"	50

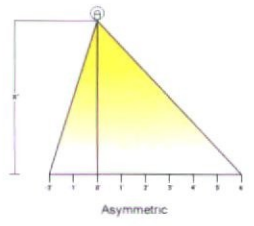
*Based on 16 AWG between LEDpods

Accessories

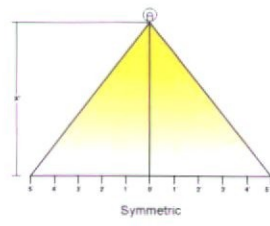
- LP100WPRITRNDND Class 2 Driver, Non-Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty Used for non-dimming KLIIK LEDpods
- LP100WPRITRNDIM Class 2 Driver, Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty Used for dimming KLIIK LEDpods
- LPNEMA3RENCLE NEMA 3R Drip Proof Enclosure, 4' x 4' x 18" (IP32 Equivalent)
- LPNEMA4ENCLE NEMA 4 Watertight Enclosure, 14' x 8' x 6" (IP66 Equivalent)
- LPNEMA6ENCLE NEMA 6P Submersible Enclosure 15' x 8' x 6" (IP67 Equivalent)

Additional driver & enclosure configurations available

KLIIK LEDpod™ Footcandle Chart



X = Rail Height (34" Tall Handrail or 42" Tall Guardrail)
 Optic Height: 34" - 1.57" (Handrail Diameter) = 32.43" (2.7')
 42" - 1.57" (Handrail Diameter) = 40.43" (3.37')



		2' 1' 0' 1' 2' 3' 4' 5' 6' 7'										
1.5 Watt	KLIIK LEDpod™ 40 350mA Asymmetric	34" Tall Handrail	0.39	0.96	4.09	5.09	3.63	2.64	1.27	0.58	0.24	0.08
	KLIIK LEDpod™ 40 350mA Symmetric	34" Tall Handrail	2.74	5.22	6.00	5.22	2.74	0.91	0.15	0.05	0.02	0.01
2 Watt	KLIIK LEDpod™ 40 500mA Asymmetric	34" Tall Handrail	0.53	1.29	5.53	6.87	4.90	3.57	1.72	0.78	0.33	0.11
	KLIIK LEDpod™ 40 500mA Symmetric	34" Tall Handrail	3.70	7.05	8.11	7.05	3.70	1.23	0.20	0.07	0.03	0.01

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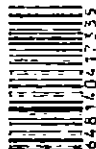
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