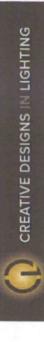
**Exterior Building Color & Material Samples Color Drawdowns Archaeological Resources Airport Vicinity Development Checklist Parking Study Trip Generation Comparison** Parking Master Plan



Scottsdale, Arizona

**Lighting Fixture Specification Manual** April 29, 2019

Project #103425-19

22-DR-2019 4/30/2019

#### **GENERAL NOTES**

- 01. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE A LIGHTING SYSTEM WHICH IS COMPLETE AND OPERATIONAL ALL MATERIALS AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS INTENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR SUBSTITUTIONS TO SPECIFIED LIGHTING AND CONTROL EQUIPMENT SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL OF CREATIVE DESIGNS IN LIGHTING
- 02 THE GENERAL CONTRACTOR AND THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR REVIEWING THE INFORMATION ON ALL OF THESE PLANS. IF THERE ARE ERRORS OR OMISSIONS OR QUESTIONS CONCERNING THESE PLANS PLEASE CALL CREATIVE DESIGNS IN LIGHTING FOR CLARIFICATION.
- 03 APPLICABLE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE (NEC) AND STATE AND LOCAL CODES SHALL GOVERN AND DETERMINE THE MINIMUM STANDARD OF WORK. IN THE EVENT OF CONFLICT BETWEEN THIS DRAWING AND THE APPLICABLE CODE, THE CODE SHALL PREVAIL AND THE INSTALLATION SHALL BE MADE IN CONFORMANCE WITH THE CODE.
- 04. EXCEPT WHERE SPECIFICALLY NOTED, CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
- 05 ALL ELECTRICAL INSTALLATION TO MEET OR EXCEED THE REQUIREMENTS OF THE ELECTRICAL SPECIFICATIONS PREPARED BY THE PROJECT ELECTRICAL FINGINFER
- 06 ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMARY AND SECONDARY OVERCURRENT PROTECTION FOR ALL 12-VOLT AND 24-VOLT REMOTE TRANSFORMERS AND LED DRIVERS. ELECTRICAL CONTRACTOR TO SIZE ALL SECONDARY WIRING FOR REMOTE TRANSFORMERS / DRIVERS TO PREVENT A VOLTAGE DROP OF MORE THAN 1 VOLT. FINAL LOCATION OF ALL REMOTE TRANSFORMERS / DRIVERS TO BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE
- 07 ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL LIGHTING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ANY APPLICABLE SUB-CONTRACTOR (I E. FRAMING, MECHANICAL, CABINETRY, ETC.) PRIOR TO ROUGH-IN.
- OB COORDINATE WITH OWNER/INTERIORS FOR THE SPECIFICATION AND PROCUREMENT OF ALL DECORATIVE FIXTURES DECORATIVE FIXTURES TO BE ASSEMBLED AND INSTALLED BY ELECTRICAL CONTRACTOR VERIFY FINAL LOCATIONS AND MOUNTING HEIGHTS WITH OWNER AND/OR INTERIOR DESIGNER. CONTRACTOR TO COORDINATE DIMMING REQUIREMENTS FOR ALL DECORATIVE FIXTURES WITH DIMMING SYSTEM SPECIFICATIONS
- 09 ALL RECESSED TRIMS AND/OR TRIM RINGS SHALL BE PAINTED TO MATCH COLOR OF CEILING (INTERIOR AND EXTERIOR).
- 10 COORDINATE WITH ARCHITECT/OWNER FOR MOUNTING HEIGHT AND FINAL LOCATIONS OF ALL WALL-BOX SWITCHES AND DIMMER DEVICES:
- 11 ALL DEVICES (I.E. SWITCHES, RECEPTACLES, PHONE JACKS, TELEVISION JACKS, ETC.) TO BE DECORA STYLE AND ALL WALL-BOX DIMMERS SHALL BE LUTRON

   DIVA SERIES OR APPROVED EQUAL COORDINATE WITH ARCHITECT FOR FINISH COLOR IN EACH SPACE AND COORDINATE WITH FIXTURE SCHEDULE FOR DIMMING REQUIREMENTS. SIZE AND DERATE ALL DIMMERS ACCORDING TO MANUFACTURERS SPECIFICATIONS.
- 12 ELECTRICAL CONTRACTOR'S BID SHALL INCLUDE TWO ELECTRICIANS FOR TWO (2) EVENINGS (4 HOUR MINIMUM EACH) FOR FINAL AIM AND FOCUS OF ALL ADJUSTABLE LIGHTING FIXTURES AND SCENE SETTING CONTRACTOR TO PROVIDE ALL NECESSARY LADDERS/LIFTS AS REQUIRED.
- 13 COORDINATE WITH ELECTRICAL SPECIFICATIONS FOR RECESSED FLOOR RECEPTACLES RECEPTACLES TO BE CARLON #976-RFB ~ DEEP RECTANGULAR FLOOR PLUGS WITH COVER PLATE COLOR TO BE DETERMINED BY OWNER & INTERIOR DESIGNER OR APPROVED EQUAL AND EXTERIOR WALL MOUNTED WATERPROOF RECEPTACLES SHALL BE RECESSED WITH ARLINGTON #0BVRIW WATERPROOF IN-USE COVERS VERIFY SWITCHING REQUIREMENTS AND LOCATIONS OF ALL FLOOR PLUGS WITH OWNER AND/OR INTERIOR DESIGNER
- 14 FOR SPECIFIC WIRING INFORMATION AND CIRCUITING REFER TO THE ELECTRICAL PLANS
- 15 ALL FIXTURES TO UTILIZE HIGH-EFFICACY LED SOURCES

## Fixture Schedule





FixtureType	Fixture Specification	Lamp Specification	Fixture Wattage	Load Type	Fixture Voltage	Accessories	Mounting
EM	HOLOPHANE CZA9A-W-EXT	(2) 6 WATT WEDGE-BASE XENON LAMPS (INCLUDED)	12w	NON- DIM	120v		Wall Mount
	wet location emergency wall sconce	fixture					
GZ	LNEA-COLD-OPTQ / LNFC10 / LNEGS1	LED: 3500K   80+CRI (INTEGRAL TO FIXTURE)	12w	0-10vDC	120v	Glare Shield	Surface Mount
	1 foot linear wet location fixture with Driver: Integral This fixture type uses high efficacy la 1) 0-10vDC dimming requires BOTH	imps or sources.			es.		
LU	LUMIERE 613-50MR16-12-NBR / LBB / LVR	MR16-4-2700-30 (Brilliance LED MR16)	4w	MLV	12vAC	Glare Louver	Floor Recessed
	flush to grade 4" diameter wet locati Transformer: Remote (see schedule) Requires: Finish: Natural Brass fixture type uses high efficacy la 1) All LED MR16 lamps shall be Brillia	amps or sources.		with led	lamp	•	
Т#	SEBCO or KICHLER REMOTE 12V AND 24V FUSED MAGNETIC TRANSFORMERS			MLV	120v		Wall Mount

<sup>[</sup>T1] 150w/12vAC - Sebco #1023-12 - type lu uplights

#### General Specification Notes

All recessed trims and/or trim rings shall be painted to match color of ceiling.
 Electrical Contractor to determine fixture housing rating (IC, Non-IC or Remodel) unless otherwise noted.
 No substitutions permitted without prior approval from Creative Designs in Lighting.

<sup>1)</sup> Refer to fixture schedule for part numbers. Refer to plans for locations.

**Fixture Type:** 

Fixture Wattage: 12w

Fixture Voltage: 120v

Load Type: NON-DIM

**EM** 

wet location emergency wall sconce fixture

Manufacturer:

HOLOPHANE

Fixture Line:

**Emergency Wall Sconce** 

Fixture:

Cortez CZA9A

Catalog #:

CZA9A-W-EXT

Mounting:

Wall Mount

Lamp Spec:

(2) 6 WATT WEDGE-BASE XENON

LAMPS (INCLUDED)

General Specification Notes

- 1) All recessed trims and/or trim rings shall be painted to match color of ceiling.
- 2) Electrical Contractor to determine fixture housing rating (IC, Non-IC or Remodel) unless otherwise noted.
- 3) No substitutions permitted without prior approval from Creative Designs in Lighting.



**EM** 



### **FEATURES & SPECIFICATIONS**

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ideal for applications requiring low-profile, attractive emergency lighting.

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing. Available finishes are texturized polyester powder coat paint in brushed nickel, white, black and dark bronze. All finishes can be painted in the field to match the wall color of choice.

U.S. Patent No. D468,046.

Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors; and multi-faceted, highly transmissive refractor that significantly improve photometrics.

**OPTICS** — Standard optics provided with two 6W wedge-base xenon lamps offer 55 percent more light output than standard incandescent lamps.

Forward throw (FWD) option optics provided with two high-brightness white LEDs (10.8W total), projecting an NFPA-101 compliant path 3' wide and 28' forward, when mounted 8-1/2' AFF. The typical life of the LED lamp is 10 years.

All light sources meet requirements for NEC 700.16.

ELECTRICAL — Dual-voltage input capability (120/277V).

Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Thermal protection senses circuitry temperature and adjusts charge current to prevent overheating and charger failure.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated chargevoltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

Edge connectors on printed circuit board ensure long-term durability.

Low-profile, integrated test switch/pilot light located below the lens.

Easily visible green status indicator.

Battery: Sealed, maintenance-free lead-acid (SLA) battery provides 12W rated capacity. Nickel-cadmium battery with Premium and Exterior option packages.

Automatic 48-hour recharge after a 90-minute discharge.

Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Single-circuit battery connection.

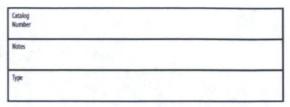
AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80 percent of pominal.

EXT option package includes 20-minute time delay for supplemental lighting during HID startup.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

 $Test \, switch \, provides \, manual \, activation \, of 30-second \, diagnostic testing \, for \, on-demand \, visual \, inspection.$ 



Die-Cast Architectural Emergency Light



#### Self-diagnostics (PREM and EXT option packages)

#### Patented Electronics - U.S. Patent No. D468,046 and 6,502,044.

Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of lamp, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

Postpone automatic test initiates eight hour delay of an automatic test by activating the manual test switch.

INSTALLATION — Back mount only. Universal J-box mounting pattern.

Rigid conduit entry provision on top of the unit.

Forward throw optics with LED light source, 10.8W

Wet location with time delay listed from 32°F to 122°F (0°C to 50°C) 1

LISTINGS — UL Listed. Wet locations and cold temperature (EXT) listed. Damp location (PREM) listed. Wet location (WL) option available with PREM package. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. UL labeled.

WARRANTY — 3-year limited warranty. (Battery is prorated.) Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms\_and\_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25  $^{\circ}$ C. Note: Specifications subject to change without notice.

ORDERIN	IG INFORMATION For short	test lead times, configure p	product using <b>bolded option</b> :	s. <b>Example</b> : CZA9A W EX
CZA9A				The state of the s
Series		Finish	Option	
CZA9A	Die-cast architectural emergency lighting	B Bla BN Bru	hite (blan ack PREM ushed nickel EXT	Features lead calcium battery Features ni-cad battery, self-diagnostics and damp location 32°F to 122°F (0°C to 50°C) Features high-temperature ni-cad battery listed from 0°F to 122°F (-18°C to 50°C), self-diagnostics,

FWD

Mater

1 WL only available with PREM option package.

EMERGENCY CORTEZ CZA9A

## Cortez CZA9A Die-Cast Architectural Emergency Light

#### **SPECIFICATIONS**

	A	ACInput		Output	Watts output	
Туре	Volts	Amps	Watts	volts	1-1/2 hrs.	
CZA9A	120	.11	1.1	6	12	
CENTA	277	.12	1.3			
CZA9A PREM	120	.15	1.4	6	12	
CENTREM	277	.14	1.4			
CZA9A EXT	120	.23	21	6	12	
LANGERI	277	.25	35		12	

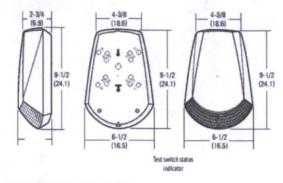
TTERY: Sea	aled Lead-Acid	(SLA)		7
Voltage	Shelf life <sup>2</sup>	Typical life <sup>2</sup>	Maintenance <sup>4</sup>	Optimum temperature
6	12 months	3 - 5 years	none	60°-90°F (16°-32°C)

ATTERY: Nickel-Cadmium					
Voltage	Shelf life <sup>2</sup>	Typical life <sup>2</sup>	Maintenance <sup>4</sup>	Optimum temperature	
6	3 years	7-9 years	none	32°-122°F (0°-50°C)	

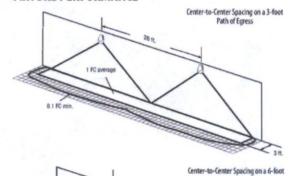
- 1 EXT provided with battery heater.
- 2 At 77°F (25°C).
- 3 Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges.
- 4. All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPN) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

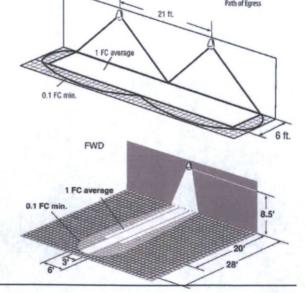
#### MOUNTING

All dimensions are inches (centimeters). Shipping weight: 3.5 lbs. (1.59 kgs.)



#### **FIXTURE PERFORMANCE**





## **SPACING GUIDE**

Xenon Lamp	Path of Egress 3'-wide	Path of Egress 6'-wide
Center-to-Center Spacing	26'	21′

NOTE: Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 8.5, ceiling height: 9, and reflectances: 80/50/20.



CORTEZ CZA9A

Fixture Wattage: 12w

Fixture Voltage: 120v

Load Type: 0-10vDC

GΖ

1 foot linear wet location fixture with 30x60 degree optic and single side glare shield

Manufacturer:

**ACCLAIM** 

Fixture Line:

LinearOne

Fixture:

Exterior

Catalog #:

LNEA-COLD-OPTQ / LNFC10 / LNEGS1

Mounting:

Surface Mount

Accessories:

Glare Shield

Driver

Integral

Lamp Spec:

LED: 3500K | 80+CRI

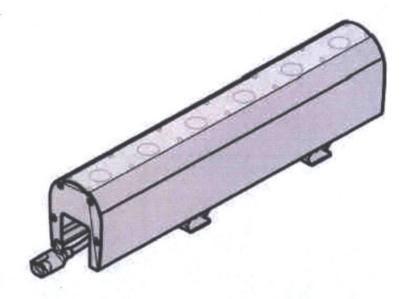
(INTEGRAL TO FIXTURE)

#### Fixture Specification Notes

1) 0-10vDC dimming requires BOTH (1) #12-2 high voltage and (1) #16-2 low voltage wires.

### General Specification Notes

- 1) All recessed trims and/or trim rings shall be painted to match color of ceiling.
- 2) Electrical Contractor to determine fixture housing rating (IC, Non-IC or Remodel) unless otherwise noted.
- 3) No substitutions permitted without prior approval from Creative Designs in Lighting.

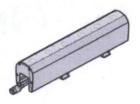


**Fixture Type:** 

GZ

LINEAR ONE







Client:
Project:
Type:
Order Code:

Quantity:

With **Linear One**, we set out to produce a series that works with your vision instead of crowding it. Acclaim Lighting continually strives for simple goals during the design process: be useful, stay out of the way, and function wonderfully. Creativity begins with great design and Linear One is streamlined to work for you. We meticulously craft linear lights that install with no visible cables and create the clutter-free space your work deserves. This means that subtlety enhances your aesthetic as Linear One remains hidden while serving as the powerhouse behind your visual creation. Refined to work with your creativity, Linear One provides end-to-end modular functionality that adapts to your needs and never works against them. Acclaim Lighting is motivated by the passion of its users and strives to produce the very best solutions in architectural lighting. We create beautiful products that work for creativity.

## **SPECIFICATIONS**

Colors	2700K, 3000K, 3500K, 4000K (80 CRI or 90 CRI available), Red, Green, Blue, Amber
Beam Angles	$10^{\circ} \times 10^{\circ}, 30^{\circ} \times 30^{\circ}, 60^{\circ} \times 60^{\circ}, 100^{\circ} \times 100^{\circ}, 10^{\circ} \times 25^{\circ}, 10^{\circ} \times 40^{\circ}, 10^{\circ} \times 70^{\circ}, 30^{\circ} \times 60^{\circ}, 40^{\circ} \times 70^{\circ}$
	Asymmetric (60° x 60° + 20° tilt), Batwing (split 10° x 40° or 40° x 70°)
Housing Lengths	1' (304.8mm), 4' (1219.2mm)
Control	0-100% dimming via internal 0-10V driver, DMX via optional UDM, wireless via optional Aria
Max Fixtures in Series	80' (24m)
Power Consumption	1': 12W, 4': 48W
Operating Voltage	100-277VAC, 50/60 Hz
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	90° mounting bracket included, flat mounting bracket optional
Finish	Silver / finished aluminum, marine environment capability standard
Material	Aluminum body, polycarbonate lens
Ambient Operating Temperature	-40° F to 131° F (-40° C to 55° C)
IP Rating	IP66, wet location - marine environment housing standard
IK Rating	IK10, protection against 5 joule impact (40cm distance)
Fixture Connectors	IP66 End to end multi-pin connection cables included
Warranty	5 Years, limited
Weight	1': 2.4 lbs, 4': 9.7 lbs
Dimensions	L: 12"/48" W: 2.12" H: 3.39" (L: 305/1220 W: 54 H: 86.2mm)
Certifications	<u></u>

acclaimlighting.com

SPECIFICATION SHEET 2.1.1

Specifications subject to change without notice

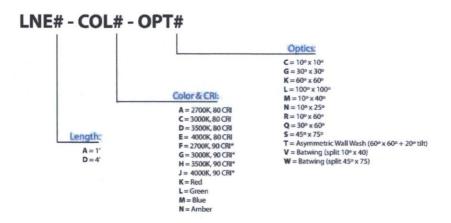
GZ

# LINEAR ONE



## ORDER CODES

\* indicates special order



### RELATED COMPONENTS

#### **Feed Cables**



#### LNFC10

10' Feed Cable for Linear One Exterior Multi-pin connector to bare wire AC + 0-10V

#### LNFC50

50' Feed Cable for Linear One Exterior Multi-pin connector to bare wire AC + 0-10V

### Link Cables



#### LNLC0

6" Link Cable for Linear One Exterior
Multi-pin connector to multi-pin connector, use for curved runs

#### LNLC1

1'Link Cable for Linear One Exterior
Multi-pin connector to multi-pin connector

#### LNLC5

5'Link Cable for Linear One Exterior Multi-pin connector to multi-pin connector

#### LNLC10

10' Link Cable for Linear One Exterior
Multi-pin connector to multi-pin connector

GZ

## LINEAR ONE



## RELATED COMPONENTS

#### **Optional Mounting Accessories**



#### LNMT1

1' mounting track for Linear One Aluminum profile, screws not included

#### LNMT4

4' mounting track for Linear One Aluminum profile, screws not included



#### LNEB1

1' extender bar for Linear One Aluminum body, screws not included

#### LNEB2

2' extender bar for Linear One Aluminum body, screws not included

#### LNEB3

3' extender bar for Linear One Aluminum body, screws not included



#### **LNFMB**

Flat Mounting Bracket for Linear One 2 pcs required per fixture, factory fitted option

#### **Optional Beam Accessories**



#### LNEGS1

1' single sided glare shield for Linear One Exterior

### LNEGS4

4' single sided glare shield for Linear One Exterior



#### LNELV1

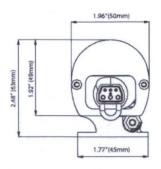
1' full louver for Linear One Exterior (use 4 pcs. for 4' fixture)

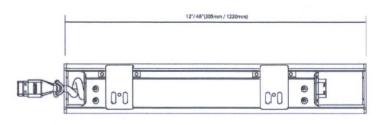
GZ

LINEAR ONE



## DIMENSIONS





## **PHOTOMETRICS**

80 CRI Versions, 10° x 10°, 1'

Color	Lumens(per foot)	Max Candela	Efficacy (I/pw)	CRI	TM30
2700K	739	5643	63	81.1	81.2
3000K	788	6291	67	82.8	81.3
3500K	772	5897	66	84.3	82.6
4000K	770	5790	65	854	83.2

90 CRI Versions, 10° x 10°, 1'

Color	Lumens(per foot)	Max Candela	Efficacy (l/pw)	CRI	TM30
2700K	574	4577	49	90.6	93
3000K	544	3844	47	93	89.2
3500K	569	4012	48	93.8	88.7
4000K	579	4703	48	90.1	90



**Fixture Type:** 

Fixture Wattage: 4w

Fixture Voltage: 12vAC

Load Type: MLV

LU

flush to grade 4" diameter wet location adjustable deeply regressed uplight fixture with led lamp

Manufacturer: LUMIERE

Fixture Line: Uplight

Fixture: Round

Catalog #: 613-50MR16-12-NBR / LBB / LVR

Mounting: Floor Recessed

Accessories: Glare Louver

Transformer Remote (see schedule)

Addl. Finish: Natural Brass

Requirements:

Lamp Spec: MR16-4-2700-30

(Brilliance LED MR16)

#### Fixture Specification Notes

1) All LED MR16 lamps shall be Brilliance LED rated for enclosed fixtures.

#### General Specification Notes

- 1) All recessed trims and/or trim rings shall be painted to match color of ceiling.
- 2) Electrical Contractor to determine fixture housing rating (IC, Non-IC or Remodel) unless otherwise noted.
- 3) No substitutions permitted without prior approval from Creative Designs in Lighting.





LU

#### DESCRIPTION

The Boca 613 is a tiny 4-1/2" diameter inground fixture for use with a low voltage MR16 lamp. The adjustable lamp assembly provides up to 22° vertical tilt and 360° horizontal rotation for precision uplighting, wall washing or general illumination in constricted areas. Designed for recess mounting in concrete, brick, stone or dirt it is suitable drive-over applications.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### A ... Material

Recessed housing is constructed from corrosion-resistant stainless steel. Trim ring is precision-machined from corrosion-resistant 6061-T6 aluminum, solid brass or solid bronze.

#### B ... Finish Painted

Solid brass and stainless steel parts are natural finish. Painted surfaces are double protected by a chromate conversion underocating and a thermoplastic polyester powder coat for mar-resistance and extended weatherability.

#### C ... Gasket

Recessed housing and trim ring are sealed with a high temperature silicone o-ring gasket to prevent water intrusion.

#### D ... Lens

Minimum 1/4" thick tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock. Suitable for drive-over applications.

#### E ... Hardware

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

#### F ... Socket

Ceramic socket with 250° C Teflon® coated lead wires and GU5.3 bi-pin base.

#### G ... Electrical

Remote 12V transformer required (not included). Available from Lumière as an accessory - see the Accessories & Technical Data section of this catalog for details. Bottom of fixture includes two 1/2-14 NPSM brass female conduit fittings for through wiring. Fixture also includes built-in wiring compartment.

## H ... Thermal Cutoff Protection (Optional)

Fixture is suitable for recessed mounting in indoor or outdoor wood flooring (non-IC) when equipped with option T (changes UL/cUL wet label to damp label), and down-watted to 35W (max.), and connected with 150° C (min.) supply wire. Fixture is not suitable for inground or concrete pour applications when equiped with option T.

#### I ... Lamp

Not included. Available from Lumière as an accessory - see reverse side of this page.

#### J ... Labels & Approvals

UL and cUL listed, standard wet label. Fixtures equipped with option T (thermal cutoff protection) are UL/cUL listed, damp label. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

#### K ... Warranty

Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.

#### L ... Recessed Housing

Recessed housing is available to ship in advance of complete fixture for rough-in purposes. Specify option -LBB and order separately accompanying recessed housing from below:

## 613-xx-BB recessed housing:

## 613-xx-T-BB

recessed housing w/T option;

NOTE: replace xx with desired finish- BK, BZ, CS, VE, WT, NBR, or NBZ



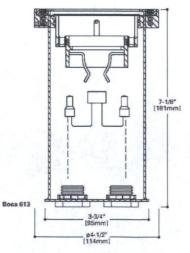
LUMIÈRE°

**BOCA** 

613

50W (max.) MR16 Halogen

Low Voltage





LU

PHOTOMETRIC DATA BOCA 613

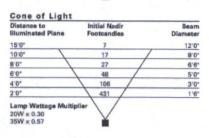
Boca 613 Lamp=50MR16/NSP (EXT) CBCP=11,000

Initial Nadir Footcandles		Beam Diameter
45		4'0"
102		3'0"
159		2'0"
283		1'6"
638		1'0"
	2550	0.6
	45 102 159 283	45 102 159 283 638

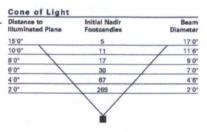
Boca 613 Lamp=50MR16/NFL (EXZ) CBCP=3200

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	13	10'0'
10'0"	29	6.6
8.0*	45	5'0'
6.0.	81	4'0"
4'0"	181	2.6
2'0"	725 /	1'0"

Boca 613 Lamp=50MR16/FL (EXN) CBCP=2000



Boca 613 Lamp=50MR16/WFL (FNV) CBCP=1200



#### LAMP INFORMATION

Lamp	<b>ANSI Code</b>	Watts	<b>Beam Spread</b>	CBCP	°K	Life (hrs.)	Base	Volts
50MR16/NSP	EXT	50	12°	11,000	3050	4000	GU5.3 bi-pin	12
50MR16/NFL	EXZ	50	25°	3200	3050	4000	GU5.3 bi-pin	12
50MR16/FL	EXN	50	40°	2000	3050	4000	GU5.3 bi-pin	12
50MR16/WFL	FNV	50	60°	1200	3050	4000	GU5.3 bi-pin	12
35MR16/SP	FRA	35	20°	3900	3000	4000	GU5.3 bi-pin	12
35MR16/FL	FMW	35	40°	1000	3000	4000	GU5.3 bi-pin	12

NOTE: Inferior quality lamps may adversely affect the performance of this product. Use only name brand lamps from reputable lamp manufacturers.

#### NOTES AND FORMULAS

- . Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.
- Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.
   ORDERING INFORMATION

Series 913=4-1/2" Dia Adjustable 22" Vertical Tilt 360" Horizontal Rotation Boca Inground Source Infosen SamR18=35W Max Halogen 1		Voltage 12=12V Finish Fainted BK=Black BZ=Gronze  Options T=Thermaily rated for use in non-IC 2 wood flooring (changes UL/cUL wet label to damp label) LBB=Housing Shipped in Advance (select LBB option and order -BB Back Box Recessed Housing separately)		Accessories  Filters  F71=Peach Dichroic Filter, 2.00" Dia  F72=Amber Dichroic Filter, 2.00" Dia			
				P73=Green Dichroic Filher, 2.00" Dia F76=Yellow Dichroic Filher, 2.00" Dia F77=Dark Blue Dichroic Filher, 2.00" Dia F79=Neutral Density Dichroic Filher, 2.00" Dia	P74=Medium Blue Dichroic Filter, 2.00° Di P79=Red Dichroic Filter, 2.00° Dia P79=Light Blue Dichroic Filter, 2.00° Dia P80=Magenta Dichroic Filter, 2.00° Dia P33=Blue Color Filter, 2.00° Dia P53=Yellow Color Filter, 2.00° Dia		
MR16, GU5.3 Base  OMR16=50W Max Halogen MR16, GU5.3 Base		CS=City Silver Recessed Housing (order separately) VE=Verde Select housing from Recessed Housing wrr: White section on previous page		F22=Red Color Filter, 2.00" Dia F44=Green Color Filter, 2.00" Dia F86: Morcury Vapor Color Filter, 2.00" Dia			
		Metal NBR: Brass NBZ: Bronze		Optical Lenses  LSL: Linear Spread Lens (elongate standard beam spread), 2,00° Dia  DIF: Diffused Lens (provide even illumination), 2,00° Dia	OSL: Overall Spread Lens (increase beam spread), 2.00" Dia		
otes; 1	Use with T Option. Available with 58MR16 Source (35W maximum) only. Lamp not included.			Optical Louver LVR: Hex Cell Louver (reduce glare), 2.00° Dia			
:	12V remote transformer required - not included.     See ACCESSORIES & TECHNICAL DATA section of the Lumière catalog for Low Voltage Cable & Transformers.			EZX: 20W MR 16 GU5.3 Bi-Pin Very Narrow Spot	ESX: 20W MR16 GU5.3 Bi-Pin Narrow Sp		
	Consult your Cooper Lighting representative for additional options and finishes.			BAB: 20W MR 16 GU5.3 Bi-Pin Flood FRA: 35W MR 16 GU5.3 Bi-Pin Spot	FRB: 35W MR16 GU5.3 Bi-Pin Nerrow Spi FMW: 35W MR16 GU5.3 Bi-Pin Flood		



**Fixture Type:** 

Fixture Voltage: 120v

T#

Manufacturer: SEBCO or KICHLER

Fixture Line: Remote Transformers
Fixture: Magnetic Transformers

Magnetic Transformers Load Type: MLV

Catalog #: REMOTE 12V AND 24V FUSED MAGNETIC TRANSFORMERS

Mounting: Wall Mount

Lamp Spec: - - -

Fixture Specification Notes

1) Refer to fixture schedule for part numbers. Refer to plans for locations.

### General Specification Notes

- All recessed trims and/or trim rings shall be painted to match color of ceiling.
- 2) Electrical Contractor to determine fixture housing rating (IC, Non-IC or Remodel) unless otherwise noted.
- 3) No substitutions permitted without prior approval from Creative Designs in Lighting.

Description: [T1] 150w/12vAC - Sebco #1023-12 - type lu uplights

T#



THE INDUSTRY'S PREMIER LOW VOLTAGE LIGHTING TRANSFORMER



## **FEATURES**

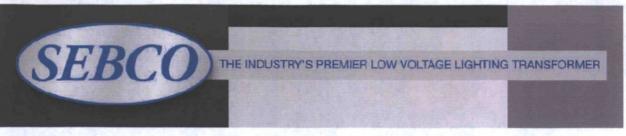
- MAGNETIC
- 10 YEAR FREE REPLACEMENT WARRANTY
- FULLY DIMMABLE, WITH LOW-VOLTAGE MAGNETIC DIMMER
- 1/8" STEEL, POWDER COATED NEMA 3R CASE
- STANDARD WITH MANDATORY SECONDARY PROTECTION
- · AVAILABLE WITH PRIMARY LINE CORD.
- BUILT IN THE USA TO THE HIGHEST STANDARDS

## REQUIREMENTS

- MEETS OR EXCEEDS ALL UL, CUL, ANSI/UL, CSA AND CE REQUIREMENTS
- LISTED TO THE NEWEST UL STANDARDS 2108 AND 1838
- MANDATORY SECONDARY PROTECTION, AS STATED IN THE NATIONAL ELECTRIC CODE ARTICLE 411



T#



PART NUMBER	PRIMARY VOLTAGE	OUTPUT VOLTAGE	BREAKERS	FREQUENCY	DIMENSIONS	WEIGHT
100 Watt						
1022-12	120VAC-1A MAX	12VAC-8.33A MAX	1x10 A	60 Hz	6.75° x 5" x 4.75"	10 LBS.
1022-24	120VAC-1A MAX	24VAC-4.16A	1x5 A	60 Hz	6.75" x 5" x 4.75"	10 LBS.
150 Watt						
1023-12	120VAC-1A MAX	12VAC-8.33A MAX	1x15 A	60 Hz	6.75° × 5" × 4.75"	10 LBS.
1023-24	120VAC-1A MAX	24VAC-4.16A	1x5 A	60 Hz	6.75" x 5" x 4.75"	10 LBS.
250 Watt						
1024-12	120VAC-1A MAX	12VAC-8.33A MAX	1x25 A	60 Hz	6.75° x 5" x 4.75"	13 LBS.
1024-24	120VAC-1A MAX	24VAC-4.16A	1x12 A	60 Hz	6.75" × 5" × 4.75"	13 LBS.
500 Watt						
1025-12	120VAC 4.6 MAX	12VAC 2x25A MAX	2x25 A	60 Hz	8.25" × 5.25" × 5.5"	19 LBS
1025-24	120VAC-4.6 MAX	24VAC-2x10A MAX	1x25 A	60 Hz	8.25" x 5.25" x 5.5"	19 LBS
750 Watt						
1026-12	120VAC-6.5A MAX	12VAC-3x25A MAX	3x25 A	60 Hz	8.25" x 5.85" x 4.5"	23 LBS
1026-24	120VAC-6.5A MAX	24VAC-2x15A MAX	2x15 A	60 Hz	8.25" x 5.85" x 4.5"	23 LBS
1000 Wat	t				7-14	
CLASS 1	100/00 0 00 114/	TOWARD ALDEA MAY	1.05 4	00.11-	10.05% 5.5% 5.55%	00100
1027-12	120VAC-9.2A MAX	12VAC-4x25A MAX	4x25 A	60 Hz	10.25" x 5.5" x 5.75"	28 LBS