

## DESCRIPTION

The Boca 631 is a tiny 3" diameter dual lens inground fixture for use with a low voltage MR16 lamp. The non-adjustable beam provides a crisp, white halogen light source for grazing or uplighting in constricted areas. The dual lens design greatly reduces the top glass temperature and allows for installation in pedestrian areas. Designed for recess mounting in concrete, brick, stone or dirt, it is suitable for drive-over applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### Material

Recessed housing is constructed from extruded aluminum. Trim ring is precision-machined from corrosion-resistant 6061-T6 aluminum.

### Finish

Fixtures are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

### Gasket

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

### 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.

### Hardware

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

### Socket

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

### Electrical

The line voltage fixture, has an integral 12V magnetic transformer included for connection to 120V line voltage. The low voltage fixture requires a remote 12V transformer (not included). Initial power draw on LED equipped fixtures is 12 watts. When sizing transformer use 12 watts per LED fixture. Nominal power draw after startup is 8 watts. The LED module is designed to operate within the range 12V +/- 1.2V. Any less or more voltage can cause premature failures. Dimming only available for 120V option. See technical notes for compatible dimmer switches.

### Lamp

Halogen Lamp not included. SORAA LED modules are included and are available in three color temperatures (2700,3000 and 4000 and three distributions (spot, narrow, and flood). Both color temperature and distribution must be specified when ordering.

### 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.

### Recessed Housing

Recessed housing is available to ship in advance of complete fixture for rough-in purposes. Equipped with 1/2" conduit hub. Specify option -LBB and order separately recessed housing from below:

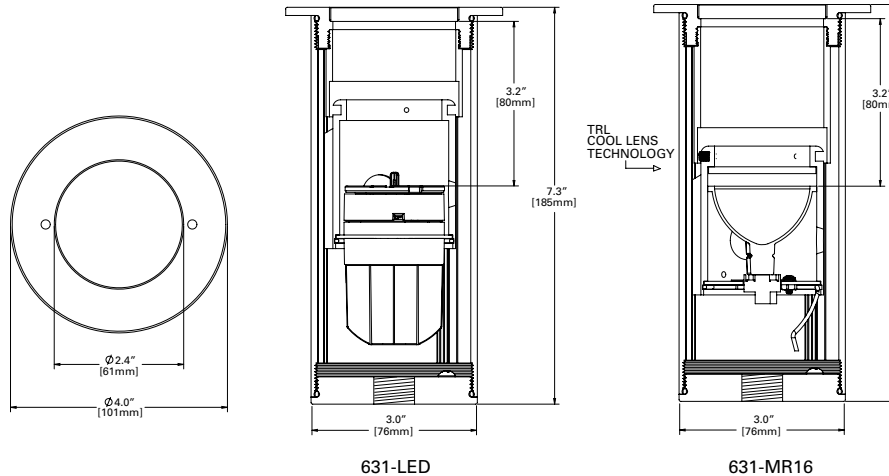
631-BK-BB (low voltage)  
631-BK-BB-IT (line voltage)



**631**  
**BOCA**

**LED**  
**HALOGEN**

**APPLICATIONS:**  
**GROUND-MOUNT**  
**RECESSED**



**CERTIFICATION DATA**  
UL and cUL Wet Location Listed  
LM79 / LM80 Compliant  
ROHS\* Compliant  
IP66 Ingressed Protection Rated

**TECHNICAL DATA**  
20W Max. Halogen Line Voltage  
50W Max. Halogen Low Voltage  
8W LED  
Low Voltage  
Line Voltage

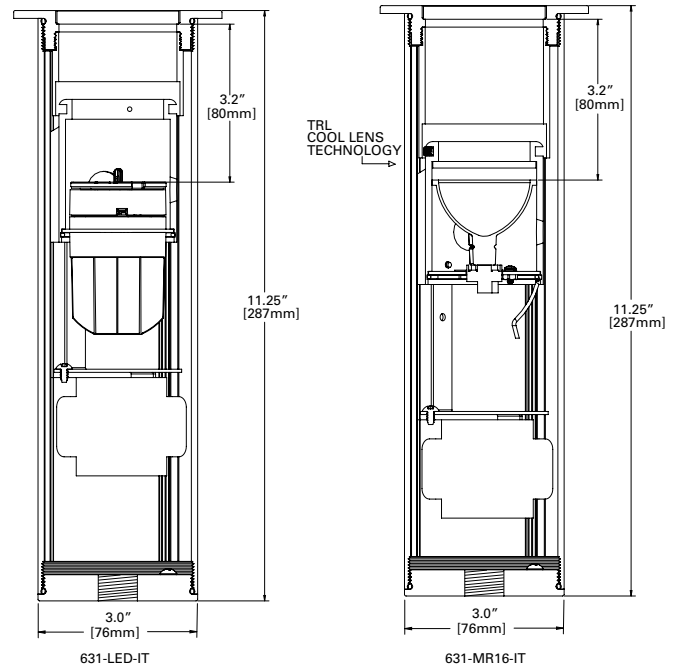
## ORDERING INFORMATION

Sample Number: 631-50MR16-12-BZ-LBB or 631-20MR16-120/12-BZ-IT-LBB

Series	Source (for LED, select from each column and combine)	Voltage	Finish	Options <sup>2,3</sup>
631=LED or MR16 3" Diameter Non-adjustable Dual Lens Boca Inground	20MR16=20W max. Halogen MR16 when selecting integral transformer option (lamp not included).	12=12 Volt Remote Transformer Required (not included) 120/12=120V to 12V Integral Transformer	<b>Painted</b> BK=Black BZ=Bronze CS=City Silver VE=Verde WT=White <b>Premium Finish</b> NBR=Natural Brass NCP=Natural Copper NBZ=Natural Bronze* NSS=Natural Stainless Steel	IT=Integral Transformer (specify voltage) - 20W max. lamp. LBB=Less Back box
	50MR16=50W max. Halogen MR16 (lamp not included)			
	8LED=8W LED 27=2700K 30=3000K 40=4000K 10=10° Spot 25=25° Narrow 36=36° Wide			

NOTES: 1 Custom and RAL color matching available upon request. Consult factory for further information. 2 When selecting IT option must specify voltage. 3 When specifying LBB option the back box needs to be ordered separately 631-BK-BB or 631-BK-BB-IT \*For natural bronze ROHS material consult factory. \*\*Drive over fixtures not qualified for roadway or heavy traffic applications.

Filters (2.00" Diameter)	Optical Lenses (2.00" Diameter)	Optical Louvers (2.00" Diameter)
<b>F71</b> = Peach Dichroic <b>F72</b> = Amber Dichroic <b>F73</b> = Green Dichroic <b>F74</b> = Medium Blue <b>F75</b> = Yellow Dichroic <b>F76</b> = Red Dichroic <b>F77</b> = Dark Blue Dichroic <b>F78</b> = Light Blue Dichroic <b>F79</b> = Neutral Density Dichroic <b>F80</b> = Magenta Dichroic <b>F22</b> = Red Color <b>F33</b> = Blue Color <b>F44</b> = Green Color <b>F55</b> = Yellow Color <b>F66</b> = Mercury Vapor	<b>LSL</b> =Linear Spread Lens (elongates standard beam spread) <b>DIF</b> =Diffused Lens (provides even illumination) <b>OSL</b> =Overall Spread Lens (increases standard beam spread)	<b>LVR</b> =45° Hex Cell Louver (reduces glare)



PHOTOMETRIC DATA

**Boca 631**  
CBCP=11,000

**Cone of Light**

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	45	4'0"
10'0"	102	3'0"
8'0"	159	2'0"
6'0"	283	1'6"
4'0"	638	1'0"
2'0"	2550	0'6"

Lamp Wattage Multiplier  
20W x 0.32

**Boca 631**  
CBCP=3200

**Cone of Light**

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"

Lamp Wattage Multiplier  
42W x 0.72

**Boca 631**  
CBCP=2000

**Cone of Light**

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	7	12'0"
10'0"	17	8'0"
8'0"	27	6'6"
6'0"	48	5'0"
4'0"	106	3'0"
2'0"	431	1'6"

Lamp Wattage Multiplier  
20W x 0.30

**Boca 631**  
CBCP=1200

**Cone of Light**

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
15'0"	5	17'0"
10'0"	11	11'6"
8'0"	17	9'0"
6'0"	30	7'0"
4'0"	67	4'6"
2'0"	269	2'0"

LAMP INFORMATION

Lamp	ANSI Code	Watts	Beam Spread	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

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

TECHNICAL INFORMATION

- 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.