

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

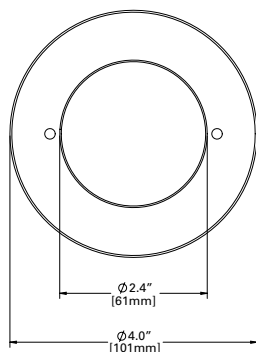
Fixtures are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

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

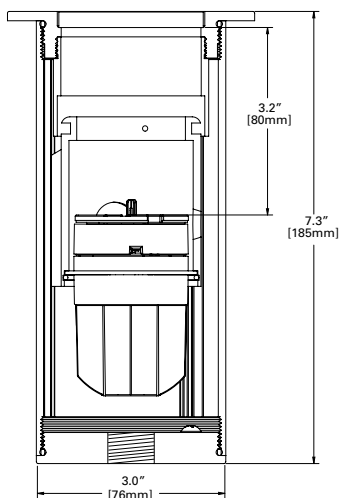
Ceramic socket with 250° C Teflon® coated lead wires and GU5.3 bi-pin base.

Electrical

The line voltage fixture, has an integral 12V magnetic transformer included for connection to 120V, 230V, 240V, or 277V line voltage (specify). The low voltage fixture requires a remote 12V transformer (not included). Dimming only available for 120V option. See technical notes for compatible dimmer switches.

Lamp

Not included. Sora compatible - 6W Max. LED modules are



631-LED

included and are available in four color temperatures (2700,3000,4000,57000 and three distributions (spot, narrow, and flood). Both color temperature and distribution must be specified when ordering. Module has a L70 / 60,000 hour rating.

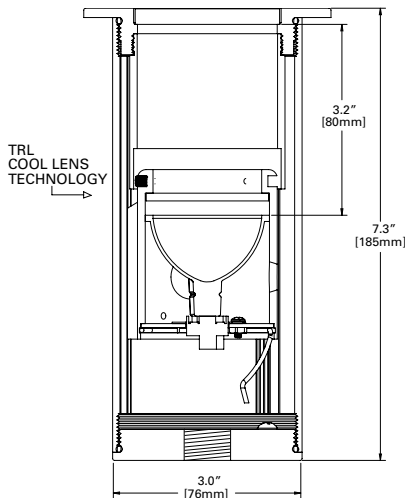
Warranty

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.

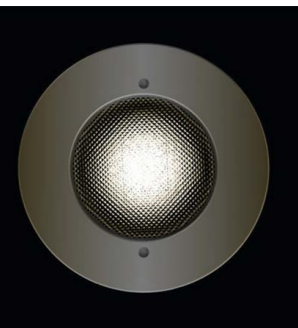
Recessed Housing

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

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



631-MR16



631
BOCA

LED
HALOGEN

APPLICATIONS:
GROUND-MOUNT
RECESSED



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

TECHNICAL DATA
20W Max. Halogen Line Voltage
50W Max. Halogen Low Voltage
6W or 10W LED
Low Voltage
Line Voltage

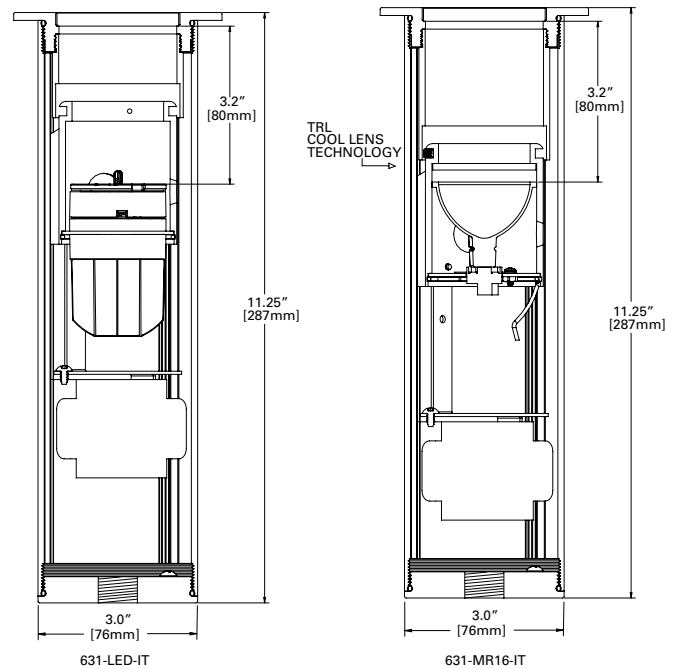
ORDERING INFORMATION

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 ¹	Options ^{2,3}
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). 50MR16=50W max. Halogen MR16 (lamp not included)	12=12 Volt Remote Transformer Required (not included) 120/12=120V to 12V Integral Transformer 230/12=230V to 12V Integral Transformer 240/12=240V to 12V Integral Transformer 277/12=277V to 12V Integral Transformer	Painted BK=Black BZ=Bronze CS=City Silver VE=Verde WT=White Premium Material NBR=Natural Brass NBZ=Natural Bronze* NCP=Natural Copper NSS=Natural Stainless Steel	IT=Integral Transformer (specify voltage) - 20W max. lamp. LBB=Less Back box
	6LED=6W LED 10LED=10W LED 27=2700K 30=3000K 40=4000K 57=5700K 12=12° Spot 21=21° Narrow 41=41° 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.

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



PHOTOMETRIC DATA

Boca 631

Lamp=50MR16/NSP
(EXT)
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**

Lamp=50MR16/NFL
(EXZ)
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**

Lamp=50MR16/FL
(EXN)
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**

Lamp=50MR16/WFL
(FNV)
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.