

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumière

BOCA 631

LED / Halogen
Ground-Mount
Recessed

Typical Applications

- Hospitality • Commerical Landscape • Outdoor Area/Site • Residential
- Architectural

Interactive Menu

- Order Information [page 2](#)
- BOCA 631 MR16 Halogen Photometric Data [page 3](#)
- Product Warranty

Product Certification



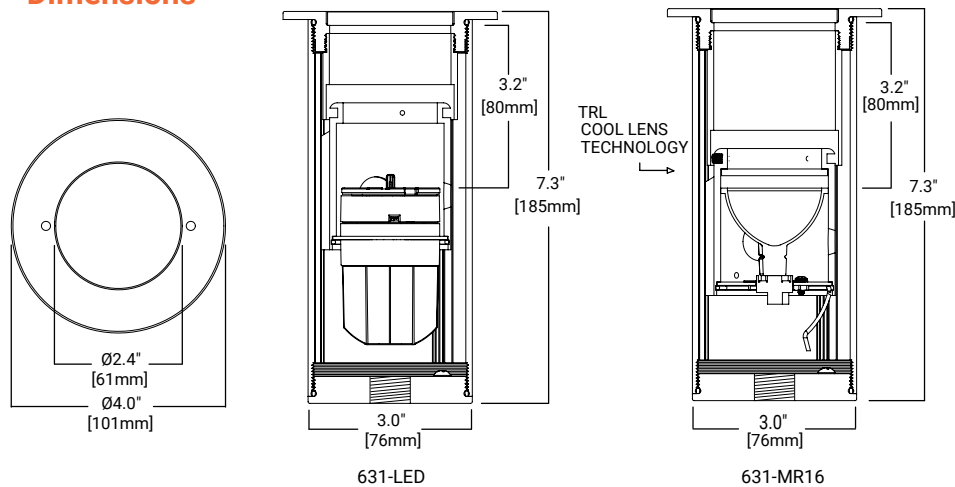
Product Features



Top Product Features

- Temperature reduction lens greatly reduces top lens temperature
- Extruded aluminum recessed housing
- Machined aluminum, brass, bronze, copper or stainless steel trim ring
- Siphon Protection System (S.P.S)
- Three-year warranty

Dimensions



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

Order Information

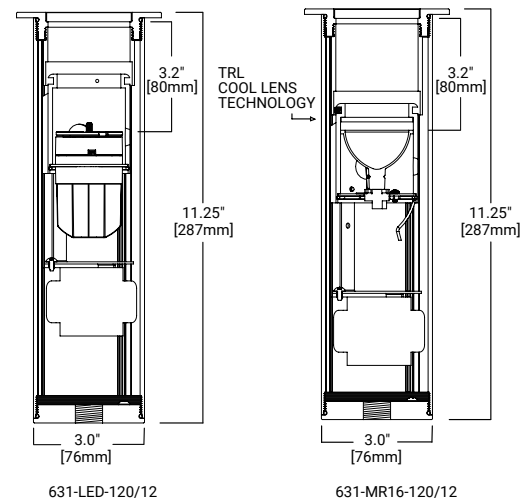
SAMPLE ORDER NUMBER: **631-50MR16-12-BZ-LBB**

Domestic Preferences	Series	Source (select from each column and combine)	Voltage	Finish	Options
Domestic Preferences ⁽¹⁾	Series	Source (select from each column and combine)	Voltage	Finish ^(2,3)	Options ⁽³⁾
Blank =Standard BAA =Buy American Act	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	Painted BK =Black BZ =Bronze CS =City Silver VE =Verde WT =White	LBB =Less Back Box
Notes (1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes	Notes * Not Title 20 compliant.	Notes	Notes (2) Custom and RAL color matching available upon request. Consult factory for further information. * For natural bronze ROHS material consult factory. (3) Consult factory for premium/natural metals material finish.	Notes (3) When specifying LBB option the back box needs to be ordered separately 631-BK-BB or 631-BK-BB-IT.

Optical Accessories - Order Separately

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)
Notes	Notes	Notes

631 Integral Transformer



Product Specifications

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

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)

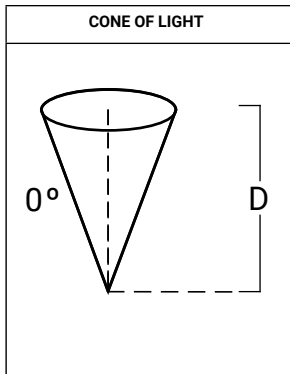
Warranty

- 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

**Drive over fixtures not qualified for roadway or heavy traffic applications.

BOCA 631 MR16 Halogen Photometric Data

[View IES files](#)



Horizontal Illuminance on Surface - Boca 631 Standard Recessed Hood - 50W MR16

Filename	631-50MR16-12-BK-NSP.ies	
Lamp	50W MR16 NSP	
CBCP	11,000	
D	FC	Beam Diameter
2'	2550	1'6"
4'	638	1'0"
6'	283	1'6"
8'	159	2'0"
10'	102	3'0"
15'	45	4'0"

Filename	631-50MR16-12-BK-NFL.ies	
Lamp	50W MR16 NFL	
CBCP	3,200	
D	FC	Beam Diameter
2'	725	1'0"
4'	181	2'6"
6'	81	4'0"
8'	45	5'0"
10'	29	6'6"
15'	13	10'0"

CCT MULTIPLIER TABLE

LAMP WATTAGE	MULTIPLIER
20W	0.32
35W	0.57

Filename	631-50MR16-12-BK-FL.ies	
Lamp	50W MR16 FL	
CBCP	2,000	
D	FC	Beam Diameter
2'	431	1'6"
4'	106	3'0"
6'	48	5'0"
8'	27	6'6"
10'	17	8'0"
15'	7	12'0"

Filename	631-50MR16-12-BK-WFL.ies	
Lamp	50W MR16 WFL	
CBCP	1,200	
D	FC	Beam Diameter
2'	269	2'0"
4'	67	4'6"
6'	30	7'6"
8'	17	9'0"
10'	11	11'6"
15'	5	17'0"

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.