

9866-B0W

Motion Sensor Downlight

DATE

PROJECT

TYPE

CATALOG NO.

ENERGY
STAR®cETLus
ListedDamp
LocationNoma Oficial
Mexicana

9866-B0W

PRODUCT OVERVIEW

FEATURES

- Low profile design for easy installation
- Automatic On/Off PIR Sensor - no switch needed
- Field selectable color temperature (CCT)
- Mounting bracket included to fit 3-1/2 or 4-1/2 standard junction boxes

3 Selectable CCTs
3000K/4000K/5000K



30/180 Seconds
Auto Time-off Options



PERFORMANCE

Catalog No.	Size	Lumen Output ¹	Input Power	CRI	Color Temperature
9866-B0W	8-Inch Round	1440Lm	18W	80	3000K / 4000K / 5000K

1. Values are nominal and vary based on CCT

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TECHNICAL INFORMATION

MATERIAL SPECIFICATIONS

Fixture

Polycarbonate and Aluminum

Bracket

Metal

Sizes

Available in 8-inch diameter model

Finish

White

Lens

Polycarbonate light diffuser for uniform even light distribution

Trim Style

Smooth

LED CHARACTERISTICS

Color Temperature

Selectable CCT: 3000K / 4000K / 5000K

Factory default set to 4000K

Color Rendering Index (CRI)

80

Color Consistency

<6-Step MacAdam Ellipse binning to achieve Fixture to Fixture Color Consistency

Beam Angle

113°

LED Life

30,000 Hours @ 70% Lumen Maintenance

ELECTRICAL

Driver

Constant Current, 120V: 0.15A

Power Factor

≥0.9

Input Voltage

120V

Operating Frequency

60Hz

Operating Temperature

-13°F to 104°F (-25°C to 40°C)

Dimmable

No

INSTALLATION

No housing required. Secure luminaire to ceiling with included metal bracket and screws. Suitable for installation in most 3-1/2 and 4-1/2 standard round junction boxes. Wall mount compatible.

SENSOR SETTINGS

Sensor Technology

Passive Infrared (PIR)

Detection Angle

90°

Max Mounting Height

10 Feet

Motion Modes

Switch 1: 30/180 seconds auto time-off options

Switch 2: Sensor Modes

Daytime - Turns off lamp regardless of ambient light

Nighttime - Only turns lamp on when sensor detects motion and there is no ambient light

Switch 3: Sensor ON/OFF

Turns off sensor so lamp can be used with a single pole switch

Adjustable Sensor Settings

Integrated switches to adjust sensor modes and hold times

Hold Times

30 Seconds, 180 Seconds

COMPLIANCE

cETLus

cETLus listed in accordance with UL 1598 and CSA C22.2 No. 250.0

Environment

Suitable for Damp Locations, covered ceilings

Energy Rating

ENERGY STAR® Certified

National Electric Code (NEC)

Suitable for use in clothes closets when installed in accordance with NFPA® 70 Section NEC® 410.16 (A)(1) (C)(1) spacing requirements

Noma Oficial Mexicana (NOM)

Lawful for sale in Mexico

RoHS

Mercury and UV free, RoHS-compliant components

FCC

Complies with Part 15 of the FCC Rules

5 YEAR LIMITED WARRANTY

Leviton warrants to its customer and the original end user the LED electronics and components of its properly installed LED products, to be free of defects in material and workmanship, in normal use, for a period of five (5) years from the date of shipment by Leviton and warrants the painted finish for a period of one (1) year from the date of shipment by Leviton.

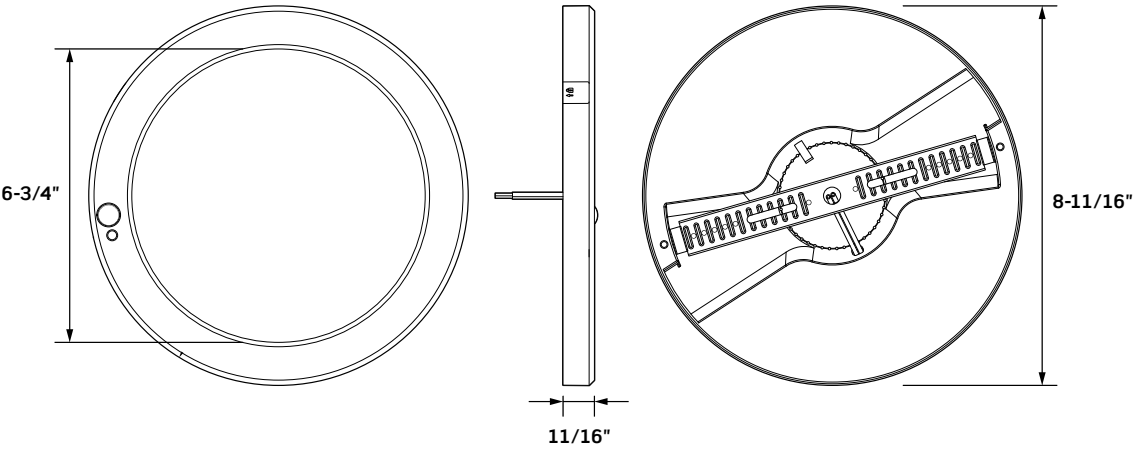
See the rest of our warranty [here](#).

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DIMENSIONS

9866-B0W



ORDERING INFORMATION

MOTION SENSOR DOWNLIGHT



CAT. NO.	Description	UPC Number	Std. Pack
9866-B0W	8" Round Motion Sensor Downlight	07847787745 6	20

9866-B0W
Motion Sensor Downlight

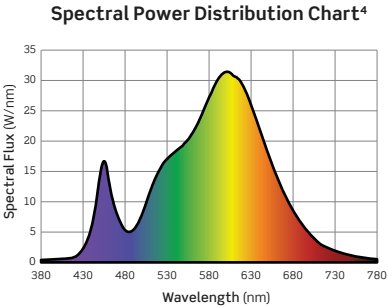
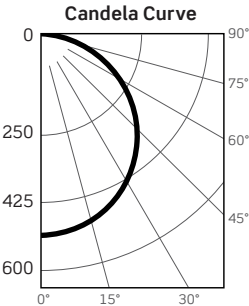
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PHOTOMETRICS

9866-001-B0W: 8-Inch Round Motion Sensor Downlight

Fixture Delivered Lumens: 1474
Total Watts@120V: 17.7
Lumens Per Watt: 83.3
Center Beam Candle Power: 510
Beam Distribution: 113°
Spacing Criterion: 1.38
Color Rendering Index (CRI)¹: 81.8
Color Temperature (CCT)²: 2999K
Designed for 50,000 Hour Lamp Life³
LM-63 Test No. G26030501
LM-79 Test No. S26031001

Cone of Light		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	14.2	18.0
8 FT	8.0	24.0
10 FT	5.1	30.0
12 FT	3.5	36.0
14 FT	2.6	42.0
16 FT	2.0	48.0



PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), Trim Finish, and Wattage.
To estimate lumen output of other combinations, multiply the published results by the following factors:

9866	
CCT	80 CRI
3000K	1.00
4000K	1.22
5000K	1.13

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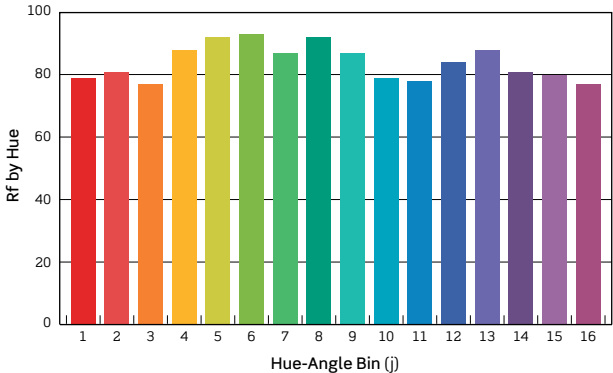
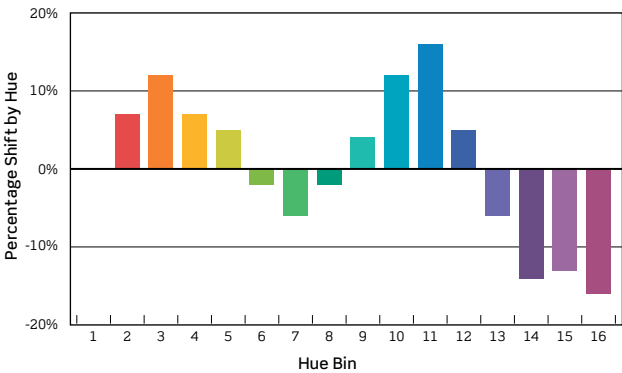
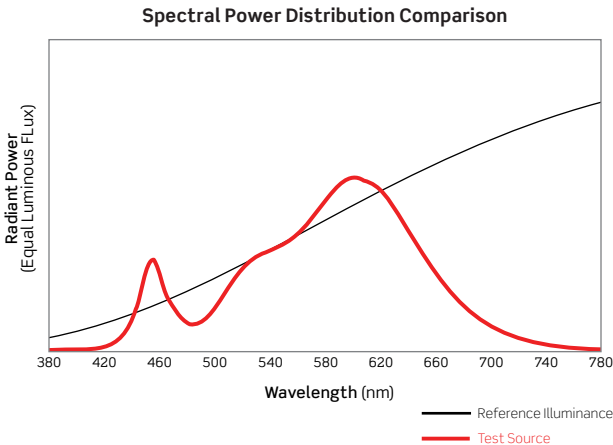
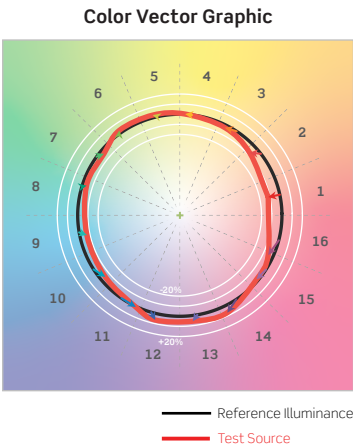
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PHOTOMETRICS

TM-30 DATA: 9866-001-B0W 8-Inch Motion Sensor Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S26031001

R _f	84
R _g	96
CCT(K)	2999K
D _{uv}	0.0008
u ^l	0.2503
v ^l	0.5225



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	7%	12%	7%	5%	-2%	-6%	-2%	4%	12%	16%	5%	-6%	-14%	-13%	-16%
R _f VALUE	79	81	77	88	92	93	87	92	87	79	78	84	88	81	80	77

Colors are for visual orientation purposes only