

# BOUNCE AE

**Recessed LED Troffer**

## BRM2 Series / 2 Illuminated Sides

The BRM series is a grid lay-in luminaire designed to eliminate glare from the office environment. The LEDs are concealed from view and the top reflector indirectly reflects soft diffuse light into the work space.

**Construction:** Standard housings are die-formed 22 gauge cold rolled steel with a matte white powder coat painted finish.

**Driver:** Reflector / driver cover is finished with high reflectant white paint. Drivers are standard constant current electronic drivers with 0-10V dimming input with dimming range from 100% down to 1% and Universal (UNV) voltage from 120 - 277V, 50/60 Hz.

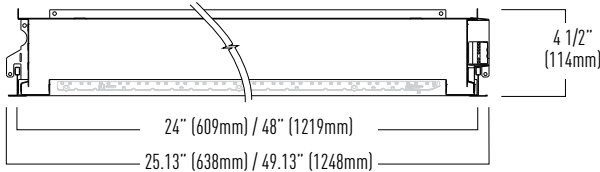
**LED Module:** Distributed LED array in a variety of lumen output packages. LED color is available in 3000K, 3500K, 4000K or 5000K and in 80CRI or 90CRI. Module is replaceable. Projected life is 90% of the light output at 100,000 hrs.

**Mounting:** Installs into most grid ceilings (1", 9/16", and Tegular or "Slot-T"). May also be installed into inaccessible ceilings with a separate flange kit (FLG).

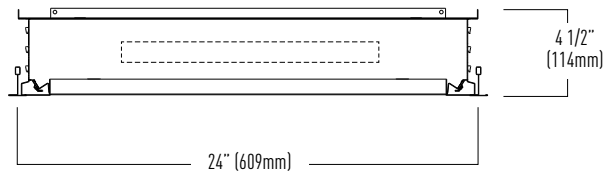
**Labels:** ETL Listed, conforms to UL Standard 1598/8750, CSA Standard C22.2 and Damp Location.

**Warranty:** 5-Year Warranty Standard

Side view of gear tray (2x2, 2x4)



End view of gear tray (2x2, 2x4)



**ORDERING INFORMATION** / Example: BRM2-24-55-L35-U-D-W

SERIES	SIZE	LUMEN PACKAGE <sup>1</sup>	CRI/CCT	BATTERY OPTIONS
<b>BRM2</b> - Recessed Luminaire, Concealed LEDs on 2 Opposing Sides (4 sides are illuminated on the 2'x4' model)	<b>22</b> - 2' x 2'	<b>2' x 2'</b>	<b>L30</b> - 80 CRI, 3000K <b>L35</b> - 80 CRI, 3500K <b>L40</b> - 80 CRI, 4000K <b>L50</b> - 80 CRI, 5000K <b>H30</b> - 90 CRI, 3000K <b>H35</b> - 90 CRI, 3500K <b>H40</b> - 90 CRI, 4000K <b>TW</b> - Tunable White 90 CRI, 2700-6000K	<b>B10</b> - 10 Watt Battery Pack (CEC Compliant) <b>B14</b> - 14 Watt Battery Pack (CEC Compliant) <b>B15</b> - 15 Watt Battery Pack (CEC Compliant)
	<b>24</b> - 2' x 4'	<b>20</b> - 2000 Lumens (19W) <b>25</b> - 2500 Lumens (25W) <b>30</b> - 3000 Lumens (30W) <b>35</b> - 3500 Lumens (36W) <b>40</b> - 4000 Lumens (42W) <b>45</b> - 4500 Lumens (48W)		
		<b>2' x 4'</b>		
		<b>35</b> - 3500 Lumens (33W) <b>40</b> - 4000 Lumens (39W) <b>45</b> - 4500 Lumens (44W) <b>50</b> - 5000 Lumens (50W) <b>55</b> - 5500 Lumens (55W) <b>60</b> - 6000 Lumens (61W) <b>65</b> - 6500 Lumens (67W) <b>70</b> - 7000 Lumens (74W)		

VOLTAGE	DRIVER	LUMINAIRE FINISH	MOUNTING OPTIONS	OPTIONS
<b>UNV</b> - Universal <b>120V</b> - 120 Volt <b>227V</b> - 277 Volt	<b>Dimming 0-10V</b> <b>D</b> - Dim to 1% (Standard) <b>D02</b> - Dim to 1%, Fade to Off <b>D02</b> - Eldoled Solodrive, Dim to 0% <b>LUTRON</b> - See options on page 2 <b>DALI Dimming</b> <b>ELE</b> - Eldoled Ecodrive, Dim to 1% <b>ELS</b> - Eldoled Solodrive, Dim to 0%	<b>WH</b> - White (Standard)	<b>FLG</b> - Flange Kit for Sheet Rock Ceiling Applications	<b>CP</b> - Chicago Plenum <b>GLR</b> - Fusing <b>FLEX</b> - 6' of Flex, 5-wire <b>UP</b> - Unit Pack <b>GTD*</b> - Generator Transfer Device

Notes:  
 1. Nominal lumen output for 3500K and 80 CRI  
 2. Consult factory for specifications and manufacturer.  
 3. 6TD emergency option is voltage specific, specify 120V or 277V.

**PHOTOMETRIC DATA**

**BRM2-22-31-L35**

ITL Test #: ITL94197

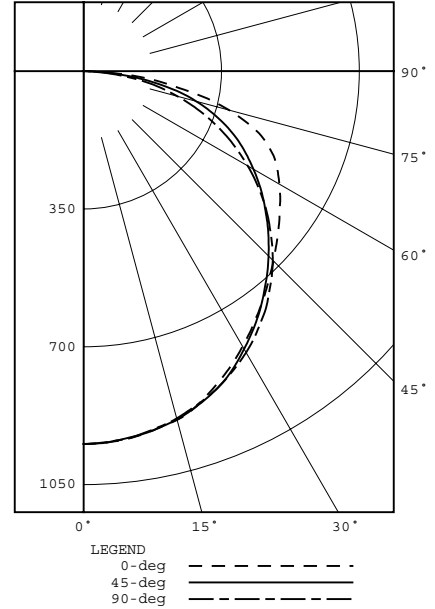
Total Delivered Lumens: 3111

Input Watts: 31.2

ZONAL LUMEN SUMMARY	ZONE	LUMENS	%FIXT
	0- 30	742	23.9
	0- 40	1225	39.4
	0- 60	2251	72.4
	0- 90	3111	100.0
	90-180	0	0.0
	0-180	3111	100.0

EFFICACY = 99.7 lm/W  
 CIE TYPE - DIRECT  
 PLANE : 0-DEG 90-DEG  
 SPACING CRITERIA : 1.27 1.30  
 BEAM ANGLE (50%) : 140.7 X 121.0 DEGREES  
 FIELD ANGLE (10%) : 171.4 X 166.8 DEGREES  
 LUMINOUS LENGTH : 20.688 20.688

LUMINANCE DATA IN CANDELA/SQ M	ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG	
45	3493.	3401.	3478.	
55	3839.	3504.	3485.	
65	4602.	3771.	3488.	
75	5345.	4142.	3456.	
85	5070.	3657.	2701.	



**DRIVER INFORMATION**

NULITE CAT#	DRIVER MANUFACTURER / SERIES	DIMMING / CONTROL PROTOCOL	DIM RANGE	NOTES/ DESCRIPTION
<b>D</b>	Signify Xitanium, Osram OTI	0-10v	100% -1%	Standard Nulite driver, reflects base fixture price
<b>D0</b>	Signify Xitanium, Osram OTI	0-10v	100%- 1% (Steps from 1% to 0% or OFF)	Standard Nulite driver, reflects base fixture price
<b>D02</b>	Eldoled Solodrive	0-10v	100% - 0%	Able to choose from 4 dimming curve options
<b>L11</b>	Lutron Hi-Lume Premier (PEQ0E) Max lumen package 03	0-10v	100% - 0.1%	Hi-lume Premier 0.1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
<b>L15</b>	Lutron Hi-Lume Series (LDE1)	0-10v	100% - 1%	Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
<b>L16</b>	Lutron 5 Series (LDE5)	0-10v	100% - 5%	5 Series EcoSystem LED Driver
<b>ELE</b>	Eldoled Ecodrive	DALI	100% - 1%	
<b>ELS</b>	Eldoled Solodrive	DALI	100% -1%	Able to choose from 2 dimming curve options
<b>TW10</b>	Eldoled Dual Drive combined with Dual 0-10v DALI Translator	Tunable White, 0-10v	100% - 0%	2 channel tunable white system mixes 2700K and 6000K LEDs on the same Nulite LED PCB to create any CCT between 2700K and 6000K. Two channel drivers will be programmed for constant lumen output throughout the CCT range.
<b>TWDA</b>	Eldoled Dual Drive	Tunable White, DALI	100% - 0%	

## PRODUCT DETAILS

**LIGHT SOURCE** LED custom linear array is mounted with quick-connect wiring to facilitate service. A wide array of lumen packages are available. All luminaire configurations tested in accordance with IESNA LM-79. Diodes tested in accordance with IESNA LM-80.

**DRIVER** Standard constant current integral electronic driver with 0-10V dimming input standard; dimming range from 100% down to 1%. Dims to 0%, DALI, and Tunable white available. Universal (U), 120 volt (1), and 277 volt (2).

**TUNABLE WHITE** Aims to create environments that are optimal for visual, mental, and biological health. Two channel tunable white system mixes 2700K and 6000K LEDs on the same Nulite LED PCB to create any CCT between 2700K and 6000K. Two channel drivers will be programmed for constant lumen output throughout the CCT range.

**OPTIONAL DALI** Digital Addressable Lighting Interface is a simple two-wire control connection that goes to each fixture to form the control network. DALI enables dimmable transformers, relay modules, emergency fittings, and controllers from different manufacturers to be mixed and matched into a single control system, allowing LED drivers to be controlled independently from lighting control circuits.

### OPTIONAL BATTERY AND EMERGENCY OPTIONS

Recyclable Ni-Cad battery pack, battery run time is 90 minutes. Recharge time of 24 hours. 6W or 10W battery packs are available. Total output is determined by exact efficacy of specific configuration multiplied by battery wattage (i.e. RP13-B-FF-05L35-1C-U-D-W-4 with a 10W battery pack is a 1220 battery lumen output). Battery option not available in less than 4' lengths. Entire direct fixture housing is on battery for lengths up to 5'. 4' of direct fixture is on battery for 6' - 8' housing lengths. For bi-direct fixtures less than 72", the battery will be split equal power for the direct and indirect portions. For bi-direct fixtures 72" and longer, the full power of the battery will power 4' of the direct portion. Emergency or night light circuit available.

**MOUNTING** Designed to install into most grid ceilings (1", 9/16", and Tegular or "Slot-T"). May also be installed into inaccessible ceilings with a separate flange kit (FLG).

**WARRANTY** 5-year limited warranty on LED and driver from date of shipment. Refer to the full warranty details on [NULITE.LIGHTING](http://NULITE.LIGHTING).

**LUMINAIRE LENGTH** Standard luminaire sizes are nominal 2'x2', and 4'x4' designed to lay into common grid acoustical ceiling systems.

**WEIGHT** 2'x2'-12lbs, 2'x4'-24lbs.

**APPROVALS** ETL listed, conforms to UL Standard 1598 / 8750 and CSA Standard C22.2, indoor dry/damp locations.

### INDEPENDENT TESTING

**IESNA LM79** - Testing method for the Electrical and Photometric Measurements of Solid State Lighting on the complete system, such as luminous flux, electrical power, luminous intensity distribution, and various properties of chromaticity.

**IESNA LM80** - Testing method for measuring lumen maintenance of LED light sources, applies to the LED package, array or module alone, not the complete system.