

Shallow Mount Engine for up to 18" Round or Square Sconce and Close-to-Ceiling Applications

Features & Benefits

- Patented 8" square design provides even illumination in most round or square luminaires
- Ideal for ADA, commercial or decorative luminaires: close to ceiling, drums, pendants, sconces, etc.
- 90 CRI version meets California Title 24, 80 CRI meets DLC
- Scalable design (72 or 88) LED and (1) or (2) drivers to meet specific project or application power or lumen requirements
- Dimmable version to 5% with triac or ELV dimmers
- UNV input 120-277VAC version runs 10-15°C lower operating temperature than competition with similar size
- Requires no heatsink at 40°C ambient in most luminaires
- Lumens/power can be doubled for exterior applications up to 50°C with remote driver and proper heatsink, consult factory



Compatible LED Drivers or Modules

Recommended Maximum DC Input Current to Module 700mA
 Typical DC input Voltage to Module..... 28-33V

Ratings and Performance Specifications

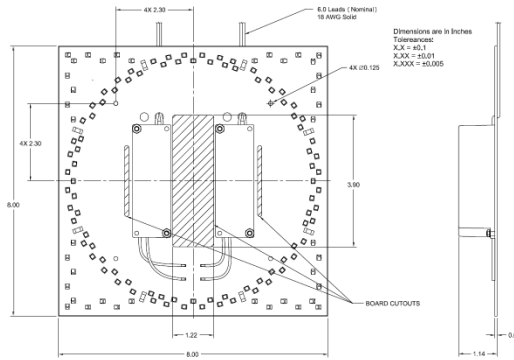
Nominal Power Consumption See Table I
 Recommended Screw Installation Torque 75 inch ounces
 Maximum Operating Range Ambient Temperature (Ta) -20 to +40°C
 Maximum Solder Pad Temperature (Ts) +105°C
 Maximum Driver Case Temperature (@ designated Tmp) +80°C
 Estimated Lumen Depreciation (TM-21) 70% initial lumens (L70) @ 100,000 hours
 Nominal Weight 400 grams
 Safety/Compliance UL Class 2 Recognized Component..... E321468
 Safety/Compliance Driver UL E256805

Application Notes

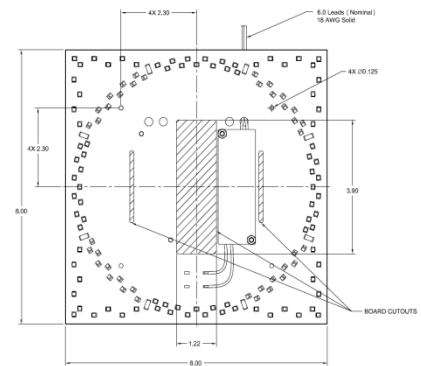
1. The use of any washer (lock, flat, etc.) will void the warranty due to possible damage and/or shorting to the circuit board.
2. Although module is designed with an integrated heat sink, care should be taken in luminaire design to allow heat to escape. Contact factory for thermal guidelines.
3. Abnormal operating conditions such as elevated ambient temperatures can be expected to negatively impact lumen output, product lifetime and/or performance.

BEP88MSR and BEP88MSS Series

Physical Dimensions



Example BEPxxMSR-xx-xx-2x
(2) Drivers and ROUND LED Pattern



Example BEPxxMSS-xx-xx-0x
(1) Driver and SQUARE LED Pattern

Table 1, Performance Characteristics at 25C

Data from laboratory test measurements, actual results may vary.

SKU shown are most popular warm white 3000K, in 80CRI, see multiplier below Table 1.

Part Number*	Nominal Input Voltage (VAC)		Dimming	Nominal CCT (Kelvin)	Minimum CRI	Nominal Light Output (Lumens)	Power Consumption (WAC)	Nominal Efficacy (AC LPW)	Driver
BEP88MSR-30-80-04	120-277		No	3000	80	1795	13.3	135	PS18-350C-UNV-H
BEP88MSR-30-80-01	120		Triac/ELV	3000	80	1795	14.1	127	PS12-350C-DIM
BEP72MSR-30-80-24	120-277		No	3000	80	2937	21.7	135	(2) PS18-350C-UNV-H
BEP72MSR-30-80-21	120		Triac/ELV	3000	80	2937	23.0	127	(2) PS12-350C-DIM
BEP88MSR-30-80-24	120-277		No	3000	80	3589	26.6	135	(2) PS18-350C-UNV-H

* For 8" square LED pattern, change part number prefix to BEPxxJSS.

* -01 = (1) PS12-350C-DIM, -21 = (2) PS12-350C-DIM, -04 = (1) PS18-350C-UNV-H, -24 = (2) PS18-350C-UNV-H

Lumen multiplier: 2000K = 0.7, 2700K = 0.96, 3500K = 1.03, 4000K = 1.05, 5000K = 1.14

Options available

Other power ratings, number of LED, CCT and CRI available on special order
90 CRI minimum available on special order 2700K - 4000K only, subtract 25% lumens

Packaging

Product is marked with SKU and lot information on non-LED side of module.
Sold in groups of (1) unit(s) and packaged in ESD bags with SKU and lot information.

Warranty

5-Year limited warranty in accordance with published warranty conditions. Product must be used with compatible components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system. If product is used with other manufacturer's product, compatibility must be recognized in writing by Perlight Technologies.

Perlight Technologies owns the following United States patents of which one or more may be applicable to the design and/or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.