

## Shallow Mount Round Engine For Close-to-Ceiling or Sconce Luminaires

### Features & Benefits

- Patented 7" and 9" round design provides even illumination
- Ideal for ADA, commercial or decorative luminaires, domes, drums, pendants and sconces
- 90 CRI version meets California Title 24, 80 CRI meets DLC
- Scalable design (32-40 or 72-80) LED and (1) or (2) drivers to meet specific project or application power or lumen requirement
- 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 ..... 350mA and 700mA  
 Typical DC input Voltage to Module..... 21 and 30V

### Ratings and Performance Specifications

Nominal Power Consumption ..... See Table 1  
 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 (driver dependent) ..... 300 and 400 grams  
 Safety/Compliance UL Class 2 Recognized Component..... E321468  
 Safety/Compliance ..... Driver UL E256805

### Application Notes

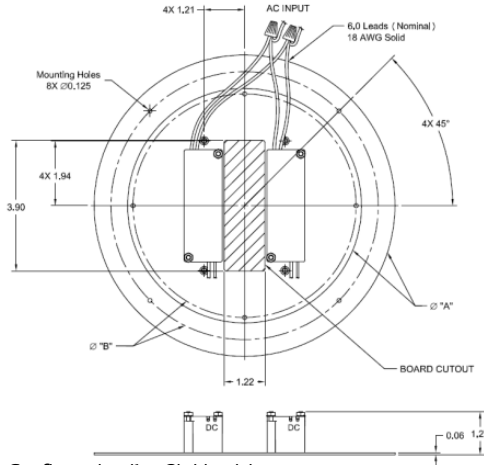
1. The use of any washer (lock, flat, etc.) will void the warranty due to possible damage and/or shorting to the circuit board.
2. Although this module is designed with an integrated heat sink, care should be taken in the luminaire designs to allow heat to escape the system. Contact factory for thermal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

BEP40JL and BEP80GL Series

# BEP40JL and BEP80GL Series

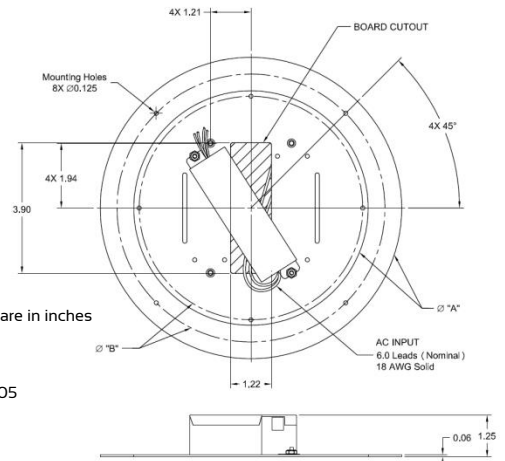
## Physical Dimensions

Ts is measured at the Cathode of DI9



Configuration (1 or 2) driver(s)  
 PS12-350C-DIM, I20VAC Triac/ELV dimming  
 PS18-350C-UNV-H, I20-277VAC non-dimming

| Series | Dimensions |      | Components |        |
|--------|------------|------|------------|--------|
|        | Ø A        | Ø B  | LED        | Driver |
| JL     | 9.00       | 8.00 | 32 or 40   | 1      |
| GL     | 7.00       | 6.68 | 72 or 80   | 1, 2   |



Configuration (1) driver only  
 PS16-350C-DIM-UNV, I20-277VAC, 0-10V dimming

Dimensions are in inches  
 Tolerances:  
 XX = 0.1  
 XXX = 0.01  
 XXXX = 0.005

## Table 1, Performance Characteristics at 25C

Data from laboratory test measurements, actual results may vary.

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

| Part Number      | Diameter (Inches) | Nominal Input |           | Nominal CCT (Kelvin) | Minimum CRI | Nominal Light Output (Lumens) | Power Consumption (WAC) | Nominal Efficacy (AC LPW) | Driver(s)             |
|------------------|-------------------|---------------|-----------|----------------------|-------------|-------------------------------|-------------------------|---------------------------|-----------------------|
|                  |                   | Voltage (VAC) | Dimming   |                      |             |                               |                         |                           |                       |
| BEP32JL-30-80-04 | 7                 | 120-277       | No        | 3000                 | 80          | 1305                          | 9.7                     | 135                       | (1) PS18-350C-UNV-H   |
| BEP32JL-30-80-01 | 7                 | 120           | Triac/ELV | 3000                 | 80          | 1305                          | 10.2                    | 127                       | (1) PS12-350C-DIM     |
| BEP32JL-30-80-05 | 7                 | 120-277       | 0-10VDC   | 3000                 | 80          | 1305                          | 10.5                    | 124                       | (1) PS16-350C-DIM-UNV |
| BEP40JL-30-80-04 | 7                 | 120-277       | No        | 3000                 | 80          | 1632                          | 12.1                    | 135                       | (1) PS18-350C-UNV-H   |
| BEP40JL-30-80-01 | 7                 | 120           | Triac/ELV | 3000                 | 80          | 1632                          | 12.8                    | 127                       | (1) PS12-350C-DIM     |
| BEP40JL-30-80-05 | 7                 | 120-277       | 0-10VDC   | 3000                 | 80          | 1632                          | 13.1                    | 124                       | (1) PS16-350C-DIM-UNV |
| BEP72GL-30-80-05 | 9                 | 120-277       | 0-10VDC   | 3000                 | 80          | 1468                          | 11.8                    | 124                       | (1) PS16-350C-DIM-UNV |
| BEP80GL-30-80-05 | 9                 | 120-277       | 0-10VDC   | 3000                 | 80          | 1632                          | 13.1                    | 124                       | (1) PS16-350C-DIM-UNV |
| BEP72GL-30-80-04 | 9                 | 120-277       | No        | 3000                 | 80          | 2937                          | 21.7                    | 135                       | (2) PS18-350C-UNV-H   |
| BEP72GL-30-80-01 | 9                 | 120           | Triac/ELV | 3000                 | 80          | 2937                          | 23.0                    | 127                       | (2) PS12-350C-DIM     |
| BEP80GL-30-80-04 | 9                 | 120-277       | No        | 3000                 | 80          | 3263                          | 24.1                    | 135                       | (2) PS18-350C-UNV-H   |
| BEP80GL-30-80-01 | 9                 | 120           | Triac/ELV | 3000                 | 80          | 3263                          | 25.6                    | 127                       | (2) PS12-350C-DIM     |

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 Permlight Technologies.

Permlight 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.

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