



## LED-8039E/M 18W Bollard / Post Top Retrofit

### Models

LED-8039E/MXX-A, 120-277VAC, cULus, 3000K, 4000K & 5700K CCT

LED-8039E/MXXC-A, 347VAC, cUL, 3000K, 4000K or 5700K CCT

### Description

Light Efficient Design's Post Top/Bollard retrofits replace HID lamps up to 100W HID. Advanced Active Cooling technology improves thermal performance and delivers the highest light output along with longer LED and driver life versus lamps limited to passive cooling without temperature control. All models are tested by UL under 1598C that insures that retrofitted fixture retains safety certification as well as approved by UL for enclosed fixtures.

### Features

- 18W LED Replaces 100W MH or HPS HID Lamps
- Up to 3,000 lumen output and 140 LPW efficacy
- Available in E26 Edison & EX39 Mogul screw base
- UL approved for damp environments and enclosed fixtures
- Passive cooling with active temperature control
- Integrated 6kA surge
- 50,000 hour rated LED life (supported by LM80 and ISTMT reports (see website)
- 5 Year Limited Warranty - see website for details
- Insect/dust resistant housing



### TECHNICAL SPECIFICATIONS - USA 120-277V - ALL MODELS cULus

| MODEL         | VOLTAGE  | WATTAGE | LUMENS* | LPW* | REPLACES | BASE | CCT   | CRI* | THD*   | PF*    | R9* | Duv*   | LIGHT DISTRIBUTION | DIMMABLE |
|---------------|----------|---------|---------|------|----------|------|-------|------|--------|--------|-----|--------|--------------------|----------|
| LED-8039E30-A | 120-277V | 18W     | 2758    | 142  | 100W HID | E26  | 3000K | 81.4 | 0.118  | 0.968  | 3   | 0.0003 | 360°               | No       |
| LED-8039E40-A |          |         | 2983    | 148  |          |      | 4000K | 81.8 | 0.1126 | 0.9711 | 5   | 0.0005 |                    |          |
| LED-8039E57-A |          |         | 2465    | 146  |          |      | 5700K | 82.2 | 0.1172 | 0.9774 | 9   | 0.0023 |                    |          |
| LED-8039M30-A | 120-277V | 18W     | 2758    | 142  | 100W HID | EX39 | 3000K | 81.4 | 0.118  | 0.968  | 3   | 0.0003 | 360°               | No       |
| LED-8039M40-A |          |         | 2983    | 148  |          |      | 4000K | 81.8 | 0.1126 | 0.9711 | 5   | 0.0005 |                    |          |
| LED-8039M57-A |          |         | 2465    | 146  |          |      | 5700K | 82.2 | 0.1172 | 0.9774 | 9   | 0.0023 |                    |          |

### TECHNICAL SPECIFICATIONS - CANADA 347V - ALL MODELS cUL

| MODEL          | VOLTAGE | WATTAGE | LUMENS* | LPW* | REPLACES | BASE | CCT   | CRI* | THD*   | PF*    | R9* | Duv*   | LIGHT DISTRIBUTION | DIMMABLE |
|----------------|---------|---------|---------|------|----------|------|-------|------|--------|--------|-----|--------|--------------------|----------|
| LED-8039E30C-A | 347V    | 18W     | 2919    | 142  | 100W HID | E26  | 3000K | 81.4 | 0.1444 | 0.9512 | 3   | 0.0003 | 360°               | No       |
| LED-8039E40C-A |         |         | 3053    | 149  |          |      | 4000K | 81.9 | 0.1454 | 0.9499 | 6   | 0.0005 |                    |          |
| LED-8039E57C-A |         |         | 2695    | 148  |          |      | 5700K | 82   | 0.1438 | 0.9428 | 5   | 0.0041 |                    |          |
| LED-8039M30C-A | 347V    | 18W     | 2919    | 142  | 100W HID | EX39 | 3000K | 81.4 | 0.1444 | 0.9512 | 3   | 0.0003 | 360°               | No       |
| LED-8039M40C-A |         |         | 3053    | 149  |          |      | 4000K | 81.9 | 0.1454 | 0.9499 | 6   | 0.0005 |                    |          |
| LED-8039M57C-A |         |         | 2695    | 148  |          |      | 5700K | 82   | 0.1438 | 0.9428 | 5   | 0.0041 |                    |          |

### PACKAGING SPECIFICATIONS

| MODEL     | PRODUCT DIMENSION | PRODUCT WEIGHT | UNIT CARTON DIMENSION | UNIT CTN WT | SHIPPER CARTON DIMENSION | SHIPPER CTN WT | CARTON QUANTITY |
|-----------|-------------------|----------------|-----------------------|-------------|--------------------------|----------------|-----------------|
| LED-8039M | 7.10" x 2.59"     | 0.57 Lbs       | 4.3 X 4.3 X 7.9 in.   | 0.792 lbs.  | 13.7 X 13.7 X 8.5 in.    | 8.074 Lbs      | 9               |
| LED-8039E | 6.22" x 2.59"     | 0.57 Lbs       | 4.3 X 4.3 X 7.9 in.   | 0.792 lbs.  | 13.7 X 13.7 X 8.5 in.    | 8.074 Lbs      | 9               |

### ENERGY SAVING vs. HID

### ZONAL LUMENS/ LUX DISTANCE DATA (see LM79 for more information)

### Mounting Orientation

| LED Lamp Power (watts)                   | 18     | Zonal Lumen Summary |         |             |       |        |         | Lumens Per Zone |        |         | BASE DOWN                        | BASE UP                | HORIZONTAL                   |         |
|--|--------|---------------------|---------|-------------|-------|--------|---------|-----------------|--------|---------|----------------------------------|------------------------|------------------------------|---------|
| HID Lamp Power (watts)                   | 100    | Zone                | Lumens  | % Luminaire | Zone  | Lumens | % Total | Zone            | Lumens | % Total |                                  |                        |                              |         |
| HID Ballast Power (watts)                | 15     | 0-30                | 110.1   | 4.9%        | 0-10  | 9.2    | 0.4%    | 90-100          | 235.4  | 10.5%   | APPROVED                         | APPROVED               | APPROVED                     |         |
| Total power Savings (watts)              | 97     | 0-40                | 221.0   | 9.9%        | 10-20 | 33.0   | 1.5%    | 100-110         | 219.4  | 9.8%    | Recommended Minimum Fixture Size | THERMAL SPECIFICATIONS |                              |         |
| Annual Energy Savings                    | \$ 55  | 0-60                | 570.7   | 25.4%       | 20-30 | 67.9   | 3.0%    | 110-120         | 188.6  | 8.4%    |                                  | OPERATING TEMPERATURE  | -40°F to +122°F              |         |
| Lifetime Energy Savings over 50,000 hrs) | \$ 534 | 60-90               | 692.4   | 30.9%       | 30-40 | 110.9  | 4.9%    | 120-130         | 148.3  | 6.6%    | Width                            | #REF!                  | IN-SITU TEMP MEASUREMENT/L70 |         |
|  |        | 70-100              | 707.7   | 31.5%       | 40-50 | 156.0  | 7.0%    | 130-140         | 102.1  | 4.6%    | Height                           | #REF!                  | LED TEMPERATURE*             | 48.5    |
|  |        | 90-120              | 643.3   | 28.7%       | 50-60 | 193.7  | 8.6%    | 140-150         | 57.5   | 2.6%    | Volume (Cu. In.)                 | #REF!                  | L70 LED LUMEN MAINTAINENCE*  | >54,000 |
|  |        | 0-90                | 1,263.1 | 56.3%       | 60-70 | 220.0  | 9.8%    | 150-160         | 23.9   | 1.1%    | * FROM ISTMT REPORT AT 77°F      |                        |                              |         |
|  |        | 90-180              | 980.3   | 43.7%       | 70-80 | 234.1  | 10.4%   | 160-170         | 5.1    | 0.2%    |                                  |                        |                              |         |
|  |        | 0-180               | 2,243.4 | 100%        | 80-90 | 238.3  | 10.6%   | 170-180         | 0.1    | 0%      |                                  |                        |                              |         |