



LED-8029E/M 45W Bollard / Post Top Retrofit

Models

LED-8029-XX-E27-A, 120-277VAC, CE, ROHS, 3000K, 4000K & 5700K CCT

LED-8029-XX-E40-A, 120-277VAC, CE, ROHS, 3000K, 4000K & 5700K CCT

Description

Light Efficient Design's Post Top/Bollard retrofits replace HID lamps up to 150W 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. Internal fans have thermal feedback and a long life (70,000 hours).

Features

- 29W LED Replaces up to 150W MH or HPS HID Lamps
- Up to 3,425 lumen output and 147 LPW efficacy
- Available in either E27 or E40 screw base
- Suitable for enclosed fittings
- Advanced active cooling: Active cooling and dynamic 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

LED-XX-E27-A

LED-XX-E40-A



TECHNICAL SPECIFICATIONS

MODEL	VOLTAGE	WATTAGE	LUMENS*	LPW*	REPLACES	BASE	CCT	CRI*	THD*	PF*	R9*	Duv*	LIGHT DISTRIBUTION	DIMMABLE
LED-8029-NW-E27-A	120-277V	24W	3024	138	Up to 150W HID	E27	3000K	81.3	10.08	0.9927	3	-0.0001	360°	No
LED-8029-CW-E27-A			3422	142			4000K	82	16.7	0.9838	6	0.0004		
LED-8029-DL-E27-A			3425	143			3000K	81.9	11.5	0.9815	4	0.0053		
LED-8029-NW-E40-A	120-277V	24W	3431	147	Up to 150W HID	E40	3000K	81.9	14.27	0.9884	4	-0.0001	360°	No
LED-8029-CW-E40-A			3374	141			3000K	81.9	16.12	0.9847	6	0.0008		
LED-8029-DL-E40-A			3374	139			3000K	82	11.5	0.991	9	0.0023		










PACKAGING SPECIFICATIONS

MODEL	PRODUCT DIMENSION	PRODUCT WEIGHT	UNIT CARTON DIMENSION	UNIT CTN WT	SHIPPER CARTON DIMENSION	SHIPPER CTN WT	CARTON QUANTITY
LED-8029-XX-E27-A	171 X 74 mm.	.40 KG	120 X 120 X 225 mm	0.549 KG	375 X 375 X 240 mm	5.45KG	9
LED-8029-XX-E40-A	180 X 74 mm	.40 KG	120 X 120 X 225 mm	0.549 KG	375 X 375 X 240 mm	5.45KG	9

ENERGY SAVING vs. HID

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

Mounting Orientation

LED Lamp Power (watts)	29	<table border="1"> <thead> <tr> <th colspan="3">Zonal Lumen Summary</th> <th colspan="6">Lumens Per Zone</th> </tr> <tr> <th>Zone</th> <th>Lumens</th> <th>% Luminaire</th> <th>Zone</th> <th>Lumens</th> <th>% Total</th> <th>Zone</th> <th>Lumens</th> <th>% Total</th> </tr> </thead> <tr> <td>0-30</td> <td>198.9</td> <td>7.5%</td> <td>0-10</td> <td>18.5</td> <td>0.7%</td> <td>90-100</td> <td>252.6</td> <td>9.5%</td> </tr> <tr> <td>0-40</td> <td>363.0</td> <td>13.6%</td> <td>10-20</td> <td>63.6</td> <td>2.4%</td> <td>100-110</td> <td>231.1</td> <td>8.7%</td> </tr> <tr> <td>0-60</td> <td>835.9</td> <td>31.3%</td> <td>20-30</td> <td>116.9</td> <td>4.4%</td> <td>110-120</td> <td>198.6</td> <td>7.4%</td> </tr> <tr> <td>60-90</td> <td>803.4</td> <td>30.1%</td> <td>30-40</td> <td>164.0</td> <td>6.1%</td> <td>120-130</td> <td>152.2</td> <td>5.7%</td> </tr> <tr> <td>70-100</td> <td>784.7</td> <td>29.4%</td> <td>40-50</td> <td>218.4</td> <td>8.2%</td> <td>130-140</td> <td>102.9</td> <td>3.9%</td> </tr> <tr> <td>90-120</td> <td>682.3</td> <td>25.6%</td> <td>50-60</td> <td>254.5</td> <td>9.5%</td> <td>140-150</td> <td>60.4</td> <td>2.3%</td> </tr> <tr> <td>0-90</td> <td>1,639.3</td> <td>61.5%</td> <td>60-70</td> <td>271.3</td> <td>10.2%</td> <td>150-160</td> <td>24.9</td> <td>0.9%</td> </tr> <tr> <td>90-180</td> <td>1,028.3</td> <td>38.5%</td> <td>70-80</td> <td>270.8</td> <td>10.2%</td> <td>160-170</td> <td>5.4</td> <td>0.2%</td> </tr> <tr> <td>0-180</td> <td>2,667.6</td> <td>100%</td> <td>80-90</td> <td>261.3</td> <td>9.8%</td> <td>170-180</td> <td>0.2</td> <td>0%</td> </tr> </table>						Zonal Lumen Summary			Lumens Per Zone						Zone	Lumens	% Luminaire	Zone	Lumens	% Total	Zone	Lumens	% Total	0-30	198.9	7.5%	0-10	18.5	0.7%	90-100	252.6	9.5%	0-40	363.0	13.6%	10-20	63.6	2.4%	100-110	231.1	8.7%	0-60	835.9	31.3%	20-30	116.9	4.4%	110-120	198.6	7.4%	60-90	803.4	30.1%	30-40	164.0	6.1%	120-130	152.2	5.7%	70-100	784.7	29.4%	40-50	218.4	8.2%	130-140	102.9	3.9%	90-120	682.3	25.6%	50-60	254.5	9.5%	140-150	60.4	2.3%	0-90	1,639.3	61.5%	60-70	271.3	10.2%	150-160	24.9	0.9%	90-180	1,028.3	38.5%	70-80	270.8	10.2%	160-170	5.4	0.2%	0-180	2,667.6	100%	80-90	261.3	9.8%	170-180	0.2	0%	<table border="1"> <thead> <tr> <th>BASE DOWN</th> <th>BASE UP</th> <th>HORIZONTAL</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>APPROVED</td> <td>APPROVED</td> <td>APPROVED</td> </tr> </tbody> </table>			BASE DOWN	BASE UP	HORIZONTAL				APPROVED	APPROVED	APPROVED
Zonal Lumen Summary			Lumens Per Zone																																																																																																																			
Zone	Lumens	% Luminaire	Zone	Lumens	% Total	Zone	Lumens	% Total																																																																																																														
0-30	198.9	7.5%	0-10	18.5	0.7%	90-100	252.6	9.5%																																																																																																														
0-40	363.0	13.6%	10-20	63.6	2.4%	100-110	231.1	8.7%																																																																																																														
0-60	835.9	31.3%	20-30	116.9	4.4%	110-120	198.6	7.4%																																																																																																														
60-90	803.4	30.1%	30-40	164.0	6.1%	120-130	152.2	5.7%																																																																																																														
70-100	784.7	29.4%	40-50	218.4	8.2%	130-140	102.9	3.9%																																																																																																														
90-120	682.3	25.6%	50-60	254.5	9.5%	140-150	60.4	2.3%																																																																																																														
0-90	1,639.3	61.5%	60-70	271.3	10.2%	150-160	24.9	0.9%																																																																																																														
90-180	1,028.3	38.5%	70-80	270.8	10.2%	160-170	5.4	0.2%																																																																																																														
0-180	2,667.6	100%	80-90	261.3	9.8%	170-180	0.2	0%																																																																																																														
BASE DOWN	BASE UP	HORIZONTAL																																																																																																																				
																																																																																																																						
APPROVED	APPROVED	APPROVED																																																																																																																				
HID Lamp Power (watts)	150	<table border="1"> <thead> <tr> <th colspan="2">Recommended Minimum Fitting Size</th> <th colspan="2">THERMAL SPECIFICATIONS</th> </tr> <tr> <th>Width</th> <th>Height</th> <th>OPERATING TEMPERATURE</th> <th>-40°C to +50°C</th> </tr> </thead> <tbody> <tr> <td>226</td> <td>178</td> <td colspan="2">IN-SITU TEMP MEASUREMENT/L70</td> </tr> <tr> <td>4022.8</td> <td>178</td> <td>LED TEMPERATURE*</td> <td>49.5</td> </tr> <tr> <td></td> <td>4022.8</td> <td>L70 LED LUMEN MAINTAINENCE*</td> <td>>54,000 hrs</td> </tr> <tr> <td colspan="4">* FROM ISTMT REPORT AT 25°C</td> </tr> </tbody> </table>						Recommended Minimum Fitting Size		THERMAL SPECIFICATIONS		Width	Height	OPERATING TEMPERATURE	-40°C to +50°C	226	178	IN-SITU TEMP MEASUREMENT/L70		4022.8	178	LED TEMPERATURE*	49.5		4022.8	L70 LED LUMEN MAINTAINENCE*	>54,000 hrs	* FROM ISTMT REPORT AT 25°C																																																																																										
Recommended Minimum Fitting Size								THERMAL SPECIFICATIONS																																																																																																														
Width	Height	OPERATING TEMPERATURE	-40°C to +50°C																																																																																																																			
226	178	IN-SITU TEMP MEASUREMENT/L70																																																																																																																				
4022.8	178	LED TEMPERATURE*	49.5																																																																																																																			
	4022.8	L70 LED LUMEN MAINTAINENCE*	>54,000 hrs																																																																																																																			
* FROM ISTMT REPORT AT 25°C																																																																																																																						
HID Ballast Power (watts)	23																																																																																																																					
Total power Savings (watts)	143.5																																																																																																																					
Annual Energy Savings	£57																																																																																																																					
Lifetime Energy Savings over 50,000 hrs)	£560																																																																																																																					