



LED-8024E/M 45W Post Top Retrofit

**Models**

LED-8024-XX-E27, 120-277VAC, CE, ROHS, 3000K, 4000K & 5700K CCT

LED-8024-XX-E40, 120-277VAC, CE, ROHS, 3000K, 4000K & 5700K CCT

**Description**

Light Efficient Design's Post Top/Bollard retrofits replace HID lamps up to 250W 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**

- 45W LED Replaces up to 250W MH or HPS HID Lamps
- Up to 6,930 lumen output and 145 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
- IP20 Rating - Lamps must not be exposed directly to water



TECHNICAL SPECIFICATIONS

MODEL	VOLTAGE	WATTAGE	LUMENS*	LPW*	REPLACES	BASE	CCT	CRI*	THD*	PF*	R9*	Duv*	LIGHT DISTRIBUTION	DIMMABLE
LED-8024-NW-E27-A	120-277V	45W	6062	130	Up to 250W HID	E27	3000K	85.4	19.79	0.9364	21	-0.0024	360°	No
LED-8024-CW-E27-A			6924	145			4000K	85.1	10.06	0.963	21	-0.0015		
LED-8024-DL-E27-A			6619	144			5700K	84	10.49	0.9898	19	0.0016		
LED-8024-NW-E40-A			5893	132			3000K	84.1	13.16	0.9903	16	-0.003		
LED-8024-CW-E40-A			6930	145			4000K	84.7	9.02	0.9684	14	0.0002		
LED-8024-DL-E40-A			6632	143			5700K	84.5	11.97	0.9598	15	-0.0014		




PACKAGING SPECIFICATIONS

MODEL	PRODUCT DIMENSION	PRODUCT WEIGHT	UNIT CARTON DIMENSION	UNIT CTN WT	SHIPPER CARTON DIMENSION	SHIPPER CTN WT	CARTON QUANTITY
LED-8024-XX-E27-A	240 X 86 mm.	.56 KG	125 X 125 X 292 mm	0.658 KG	395 X 395 X 307 mm	6.22KG	9
LED-8024-XX-E40-A	244 X 86 mm.	.56 KG	125 X 125 X 292 mm	0.658 KG	395 X 395 X 307 mm	6.22KG	9

ENERGY SAVING vs. HID

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

Mounting Orientation

LED Lamp Power (watts)	45	Zonal Lumen Summary						Lumens Per Zone						BASE DOWN	BASE UP	HORIZONTAL
HID Lamp Power (watts)	250	Zone	Lumens	% Luminaire	Zone	Lumens	% Total	Zone	Lumens	% Total	Zone	Lumens	% Total			
HID Ballast Power (watts)	38	0-30	287.9	4.2%	0-10	21.3	0.3%	90-100	746.4	10.8%	10-20	82.2	1.2%	100-110	694.7	10%
Total power Savings (watts)	242.5	0-40	601.2	8.7%	20-30	184.3	2.7%	110-120	600.9	8.7%	30-40	313.3	4.5%	120-130	472.3	6.8%
Annual Energy Savings	£97	60-90	1,619.1	23.4%	40-50	447.0	6.5%	130-140	334.2	4.8%	50-60	570.9	8.3%	140-150	196.5	2.8%
Lifetime Energy Savings over 50,000 hrs)	£946	70-100	2,228.3	32.2%	60-70	667.0	9.6%	150-160	82.0	1.2%	60-70	667.0	9.6%	150-160	82.0	1.2%
		90-120	2,042.0	29.5%	70-80	727.9	10.5%	160-170	17.9	0.3%	70-80	727.9	10.5%	160-170	17.9	0.3%
		0-180	6,913.9	100%	80-90	754.1	10.9%	170-180	1.0	0%	80-90	754.1	10.9%	170-180	1.0	0%

Recommended Minimum Fitting Size		THERMAL SPECIFICATIONS	
Width	302	OPERATING TEMPERATURE	-40°C to +50°C
Height	188	IN-SITU TEMP MEASUREMENT/L70	
Volume (Cu. Cm.)	5677.6	LED TEMPERATURE*	64.2
		L70 LED LUMEN MAINTAINENCE*	>60,000 hrs
* FROM ISTMT REPORT AT 25°C			

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