

ULTRA LED Retrofit PAR38 Lamps

Dimmable



LED technology reduces energy and maintenance costs when compared with conventional light sources. Lasting 20 times longer and with only 18 watts, LED PAR38 lamps are high-quality replacements for 75W halogen PAR38 lamps. They are free of UV and IR radiation, minimizing discoloration and fading of materials. These lamps are dimmable down to 10%* and are rated at 50,000 hours life with a correlated color temperature (CCT) of 3000K. They are available with 25° and 40° beam angles.

Key Features & Benefits

- 18W LED lamp designed for high quality replacement of 75W halogen PAR38 lamps
- Dimmable 10%–100%*
- 50,000 hours life at 70% lumen maintenance
- Suitable for indoor and outdoor use
- Available in 3000K CCT with 87 CRI (2700K targeted for Fall 2010)
- Medium base for direct replacement
- Power factor 0.75
- Reduces energy consumption up to 76%
- Lasts 20 times longer than halogen lamps
- No warm-up time, instant-on with full light output and stable color
- Mercury free and RoHS compliant
- UV and IR free

* Performance may vary depending on dimmer used in application



Product Offering

Item Number	Ordering Abbreviation	Wattage (W)	Color Temperature	Beam Angle	R9
78640	LED18PAR38/DIM/830/NFL25	18	3000K	25°	43
78641	LED18PAR38/DIM/830/FL40	18	3000K	40°	43

Application Information

Market Segments

- Art galleries and museums
- Hotels and hospitality
- Residential
- Retail

Applications

- Accent/display lighting
- Recessed downlighting

Application Notes

1. Operating temperature range between -40°F and +113°F (-40°C and +45°C)
2. UL1993 listed
3. Suitable for use in indoor environments and outdoor environments with open fixtures
4. Suitable for dimmers or in luminaires controlled by a dimmer
5. Not intended for use with emergency light fixtures or exit lights
6. For use in fixtures that can structurally support a lamp weighing two pounds
7. Not to be used in enclosed fixtures
8. Not to be used in enclosed insulated ceilings



Ordering Information

Item Number	Ordering Abbreviation	Wattage (W)	Base Type	Input Voltage (VAC)	Average Rated Life (hrs.) ¹	Typical Lumens (lm) ²	CCT ³	CBCP (cd)	Beam Angle	CRI ⁴	Power Factor
78640	LED18PAR38/DIM/830/NFL25	18	Medium	120	50,000	900	3000K	3100	25°	87	0.75
78641	LED18PAR38/DIM/830/FL40	18	Medium	120	50,000	900	3000K	1500	40°	87	0.75

1. Hours lifetime with 70% lumen maintenance 2. Thermally stable typical lumens (±10%) 3. Thermally stable typically CCT (±10%)
4. CRI – color rendering index

Ordering Guide

LED	18	PAR38	/	DIM	/	830	/	NFL	25
LED Lamps and Retrofits	Wattage 18	Lamp Type: PAR38		Dimmable		CRI, CCT: 830: 80+ CRI, 3000K CCT		Beam Type NFL: Narrow Flood	Beam Angle 25°

Recommended Dimmer List

Make	Dimmer	Dimmer Max. Wattage	Max. Lamps per Dimmer	Make	Dimmer	Dimmer Max. Wattage	Max. Lamps per Dimmer
Lutron	S-600PR-WH	600	5	Lutron	LG-600P	600	5
Lutron	DV-600PR-WH	600	5	Lutron	D-600PH	600	5
Lutron	TG-600PR-WH	600	5	Lutron	TT-300NLH	600	5
Lutron	AY600P	600	5	Lutron	TG-603PG	300	2
Lutron	Q600P	600	5	Leviton	6633-PL	600	5
Lutron	GL600	600	5	Leviton	6684	600	5
Lutron	CN-600PHW	600	5	Leviton	6631	600	5
Lutron	DV-603PG	600	5	Leviton	IPI06-1LX	600	5
Lutron	S-600	600	5				
Lutron	S-600P	600	5				

Lamp Dimensions

	(A) MOL (inches)	(B) Diameter (inches)
LED18PAR38/DIM	5.2	4.72

Illuminance Cone Diagrams

Similar Halogen	75PAR38	LED18PAR38/DIM/830/NFL25			Similar Halogen	75PAR38	LED18PAR38/DIM/830/FL40		
		Wattage Lumens	CBCP (cd) Beam Angle	3100 25			Wattage Lumens	CBCP (cd) Beam Angle	1500 40
Watts (W)	75	18 900	25°	3100	75	18 900	40°	1500	
Avg. Rated Life (hrs.)	2,500	50,000			2,500	50,000			
Lumens	1060	900			1060	900			
CBCP (cd)	3150	3100			1300	3100			
Beam Angle	30°	25°			50°	40°			
		Distance feet	Footcandles*	Diameter feet		Distance feet	Footcandles*	Diameter feet	
		2	775	0.9		2	375	1.5	
		4	194	1.8		4	94	2.9	
		6	86	2.7		6	42	4.4	
		8	48	3.5		8	23	5.8	
		10	31	4.4		10	15	7.3	

*Approximate footcandle values at center of beam

Energy Savings

Basic Product Description	LED Life (hrs.)	Similar Halogen	Halogen Life (hrs.)	Watts Saved	Energy Savings*	LED Life vs. Halogen Life
LED18PAR38/DIM	50,000	75PAR38	2,500	57	\$313	20x

*Energy savings over life of lamp calculated at \$0.11/KWh

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Specification Data

Fixture Description	
Type	
Project/Job	
SYLVANIA lamp	
SYLVANIA ballast	
Notes	

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Light Output (Lumens)	900
Watts	18
Lumens per Watt (Efficacy)	50
Color Accuracy Color Rendering Index (CRI)	87
Light Color Correlated Color Temperature (CCT)	3000 (Bright White)

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: 5BZT-BORPPH
Model Number: LED18PAR38/DIM/830/NFL25
Type: Replacement lamps

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