

ULTRA LED Retrofit PAR20 Lamps

Dimmable



LED technology offers reduced energy and maintenance costs when compared with conventional light sources. Lasting 20 times longer and using only 8 watts, LED PAR20 lamps are a high-quality replacement for 50W halogen PAR20 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 36° beam angles.

Key Features & Benefits

- 8W LED lamp designed as replacement of 50W halogen PAR20 lamps
- Dimmable 10%–100%*
- 50,000 hours life at 70% lumen maintenance
- Suitable for indoor and outdoor use
- Available in 3000K CCT with 85 CRI (2700K targeted for Fall 2010)
- Medium base for direct replacement
- Power factor 0.95
- Reduces energy consumption up to 84%
- 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
78636	LED8PAR20/DIM/830/NFL25	8	3000K	25°	36
78637	LED8PAR20/DIM/830/FL36	8	3000K	36°	39

Application Information

Market Segments

- Art galleries and museums
- Hospitality
- Residential
- Retail

Applications

- Accent/display lighting
- Recessed downlighting
- Track lighting

Application Notes

1. Operating temperature range between -40°F and +113°F (-40°C and +45°C)
2. UL 1993 listed
3. Suitable for use in indoor and outdoor environments
4. Suitable for dimmers or in luminaires controlled by a dimmer
5. Not intended for use with emergency light fixtures or exit lights
6. Not to be used in enclosed fixtures
7. 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
78636	LED8PAR20/DIM/830/NFL25	8	Medium	120	50,000	350	3000K	1260	25°	85	0.95
78637	LED8PAR20/DIM/830/FL36	8	Medium	120	50,000	350	3000K	713	36°	85	0.95

1. Hours lifetime with 70% lumen maintenance 2. Thermally stable typical lumens (±10%) 3. Thermally stable typical CCT (±10%)
 4. CRI – Color Rendering Index

Ordering Guide

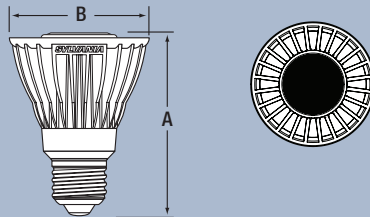
LED	8	PAR20	/	DIM	/	830	/	NFL	25
LED Lamps and Retrofits	Wattage: 8	Lamp Type: PAR20		Dimmable		CRI, CCT: 830: 80+ CRI, 3000K CCT		Beam Type: NFL: Narrow Flood	Beam Angle: 25°

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	6	Lutron	LG-600P	600	6
Lutron	DV-600PR-WH	600	6	Lutron	D-600PH	600	6
Lutron	TG-600PR-WH	600	6	Lutron	TT-300NLH	600	6
Lutron	AY600P	600	6	Lutron	TG-603PG	300	3
Lutron	Q600P	600	6	Leviton	6633-PL	600	6
Lutron	GL600	600	6	Leviton	6684	600	6
Lutron	CN-600PHW	600	6	Leviton	6631	600	6
Lutron	DV-603PG	600	6	Leviton	IPI06-1LX	600	6
Lutron	S-600	600	6				
Lutron	S-600P	600	6				

Lamp Dimensions

	(A) MOL (inches)	(B) Diameter (inches)
LED8PAR20/DIM	3.4	2.6



Illuminance Cone Diagrams

Similar Halogen	50PAR20	LED8PAR20/DIM/830/NFL25			Similar Halogen	50PAR20	LED8PAR20/DIM/830/FL36		
		Wattage	Lumens	CBCP (cd)			Wattage	Lumens	CBCP (cd)
		8	350	1260			8	350	713
				25					36
Watts (W)	50				Watts (W)	50			
Avg. Rated Life (hrs)	2,500	Distance feet	Footcandles*	Diameter feet	Avg. Rated Life (hrs)	2,500	Distance feet	Footcandles*	Diameter feet
Lumens	550	2	315	0.9	Lumens	550	2	178	1.3
CBCP (cd)	1200	4	79	1.8	CBCP (cd)	900	4	45	2.6
Beam Angle	30°	6	35	2.7	Beam Angle	40°	6	20	3.9
		8	20	3.5			8	11	5.2
		10	13	4.4			10	7	6.5

*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
LED8PAR20/DIM	50,000	50PAR20	2,500	42	\$231	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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lighting facts[™]

A Program of the U.S. DOE

Light Output (Lumens)	350
Watts	8
Lumens per Watt (Efficacy)	44
Color Accuracy Color Rendering Index (CRI)	85
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-HGZ51Y
 Model Number: LED8PAR20/DIM830/NFL25
 Type: Replacement lamps

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