

ULTRA HD Professional Series LED PAR Lamps

High Definition Lighting



Key Features & Benefits

- 95 typical CRI
- Excellent color quality – within a 3-step MacAdam ellipse
- R9 greater than 60
- Assembled in USA
- No warm up time, instant on with full light output and stable color
- Lasts up to 20 times longer than comparable PAR lamps
- Available in 2700K and 3000K color temperature
- Reduces energy consumption up to 80%
- UV and IR free
- RoHS compliant
- Dimmable to 10%*
- Mercury and lead free
- Long life: up to 50,000 hours (L₇₀)
- Suitable for damp locations

* Performance may vary depending on dimmer use in application. Please refer to Dimmer Compatibility List (RETRO-DIM) for a list of compatible dimmers or visit www.sylvania.com/LEDretrofit



The SYLVANIA ULTRA HD Professional Series family of LED PAR lamps offers premium performance in every category. With exceptional color quality, efficiency, and electrical design standards, this top-tier family of lamps is designed to ensure the highest aesthetics while complying with the most stringent sustainability goals. Designed to be the most efficient replacements for halogen at 3000K, these SYLVANIA LED lamps last up to 20 times longer and are rated for use in damp locations. An optimized LED selection process is used to ensure that color within the ULTRA HD Professional family of LED lamps is extremely consistent, within a 3-step MacAdam ellipse. With outstanding color rendering capabilities (95 typical CRI) and exceptionally rich deep red content (R9>60), ULTRA HD Professional Series LED lamps enhance warm color palettes and make whites more crisp, making them ideal for residential, hospitality, healthcare or retail applications. With lamp efficacies higher than 50 lumens per watt and smooth dimming performance, ULTRA HD Professional Series LED lamps are an ideal part of any energy-conservation strategy.

Product Offering

Lamp Type	Wattage	Color Temperature	Beam Angle	Lumens
PAR38	21	3000K	30°	1150
PAR38	20	2700K & 3000K	12°	1000 & 1050
PAR30LN	17	3000K	25° & 40°	970
PAR30	15	3000K	40°	880
PAR20	10	3000K	30°	550
PAR16	8	3000K	36°	390
MR16	7	3000K	36°	400

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For FCC Part 15 user information, please see www.sylvania.com/fcc15b

Application Information

Market Segments

- Art galleries and museums
- Hospitality
- Offices
- Residential
- Restaurants
- Retail

Applications

- Accent/display lighting
- General lighting
- Recessed downlighting
- Track lighting

Application Notes

1. Operating Temperature -40°F and +113°F (-40°C and +45°C)
-4°F to +104°F (-20°C to +40°C)
2. Suitable for outdoor use when used in a UL rated fixture where protected from weather
3. Use in fixtures that support 2lb. lamp
4. Not for use with emergency light fixtures or exit lights
5. Not for use in enclosed fixture
6. All PAR lamps from OSRAM SYLVANIA use polymethyl methacrylate (PMMA) for their lenses. It is a transparent thermoplastic, often used as a lightweight, shatter-resistant alternative to glass.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Information

Item Number	Ordering Abbreviation	Wattage (W)	Base Type	Replaces	Input Voltage (VAC)	Average Rated Life (hrs L ₇₀) ¹	CCT ³	Typical Lumens (lm) ²	CBCP (cd)	CRI ⁴	Beam Angle	R9	Power Factor	ENERGY STAR [®]
78745	LED21PAR38/DIM/P/930/FL30	21	Med	90W PAR38	120	50,000	3000K	1150	3700	95	30°	62	0.7	Yes
78741	LED21PAR38/GU24/DIM/P/930/FL30	21	GU24	90W PAR38	120	50,000	3000K	1150	3700	95	30°	62	0.7	Yes
78904	LED20PAR38/DIM/P/927/WSP12	20	Med	90W PAR38	120	40,000	2700K	1000	14,000	93	12°	77	0.98	Yes
78906	LED20PAR38/DIM/P/930/WSP12	20	Med	90W PAR38	120	40,000	3000K	1050	18,000	93	12°	77	0.98	Yes
78746	LED17PAR30LN/DIM/P/930/NFL25	17	Med	75W PAR30LN	120	50,000	3000K	970	3400	95	25°	62	0.7	Yes
78742	LED17PAR30LN/GU24/DIM/P/930/NFL25	17	GU24	75W PAR30LN	120	50,000	3000K	970	3400	95	25°	62	0.7	Yes
78758	LED17PAR30LN/DIM/P/930/FL40	17	Med	75W PAR30LN	120	50,000	3000K	970	1600	95	40°	62	0.7	Yes
78747	LED15PAR30/DIM/P/930/FL40	15	Med	60W PAR30	120	50,000	3000K	880	1700	95	40°	62	0.7	Yes
78743	LED15PAR30/GU24/DIM/P/930/FL40	15	GU24	60W PAR30	120	50,000	3000K	880	1700	95	40°	62	0.7	Yes
78748	LED10PAR20/DIM/P/930/FL30	10	Med	50W PAR20	120	50,000	3000K	550	1600	95	30°	63	0.9	Yes
78744	LED10PAR20/GU24/DIM/P/930/FL30	10	GU24	50W PAR20	120	50,000	3000K	550	1600	95	30°	63	0.9	Yes
72547	LED8PAR16/GU10/DIM/FL36P	8	GU10	50WPAR16	120	25,000	3000K	390	950	90	36°	50	0.73	No
72546	LED8PAR16/DIM/930/FL36	8	Med	50WPAR16	120	25,000	3000K	390	950	90	36°	50	0.73	No
72544	LED7MR16/DIM/930/FL36	7	GU5.3	35WMR16	12	25,000	3000K	400	1000	95	36°	90	0.91	No

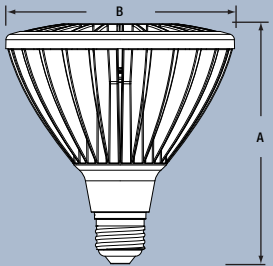
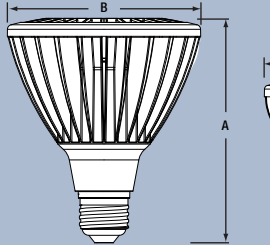
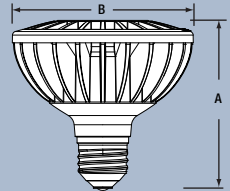
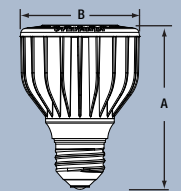
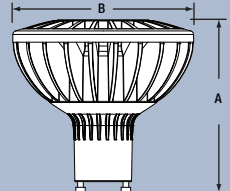
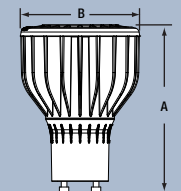
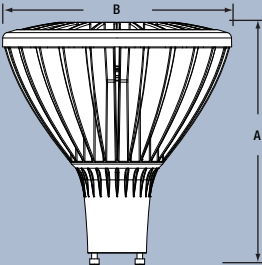
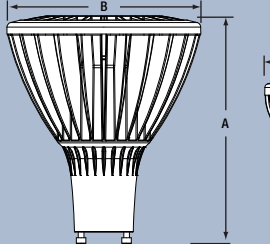
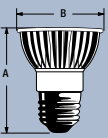
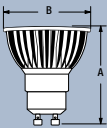
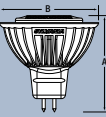
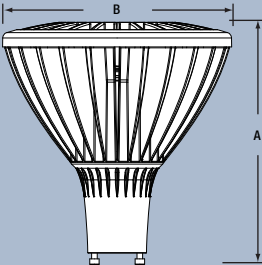
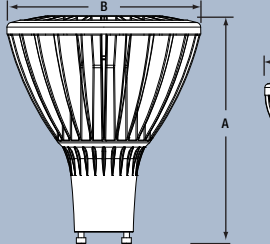
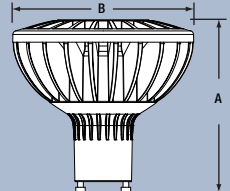
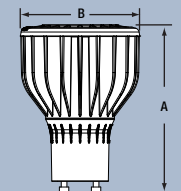
OSRAM SYLVANIA submits most lamps for ENERGY STAR testing. Early qualification for ENERGY STAR lamps begin at 25,000 hours (L₇₀) regardless that the design of the lamp is manufactured for a greater life expectancy. As the lamps pass ENERGY STAR qualifications, manufacturers are able to increase rated life as dictated by ENERGY STAR guidelines becoming either provisionally qualified or fully qualified. Please visit ENERGYSTAR.gov for more information about testing requirements for ENERGY STAR qualified products.

1. Hours lifetime with 70% (L₇₀) lumen maintenance 2. Thermally stable typical lumens (±10%) 3. Thermally stable typical CCT (±10%) 4. CRI – Color Rendering Index

Ordering Guide

LED	21	PAR38	/	DIM	/	P	/	930	/	FL	30
LED Lamps	Wattage 7, 8, 10, 15, 17, 20, 21	Lamp Type: PAR20, PAR30, PAR30LN, PAR38, PAR16, MR16	/	DIM = Dimmable	/	Professional Series	/	CRI, CCT: 930: 90+ CRI, 3000K CCT 2700K CCT	/	Beam Type FL: Flood NFL: Narrow Flood WSP: Wide Spot	Beam Angle 12°, 25°, 30°, 36° 40°

Lamp Dimensions

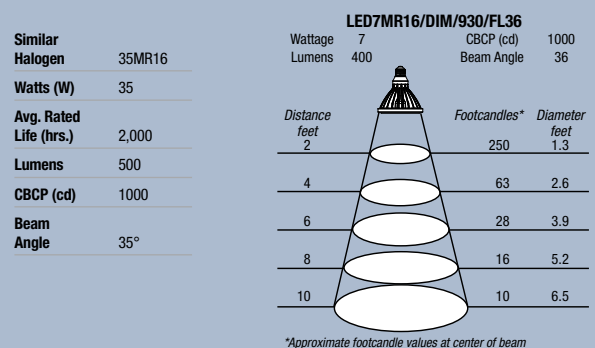
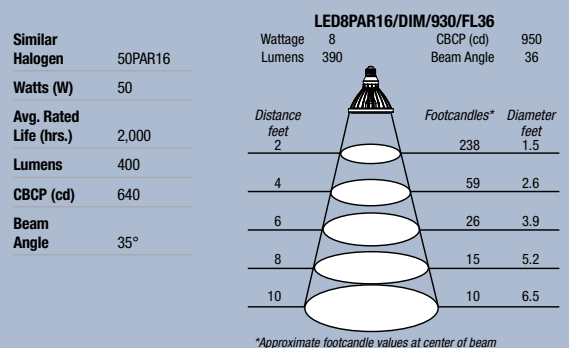
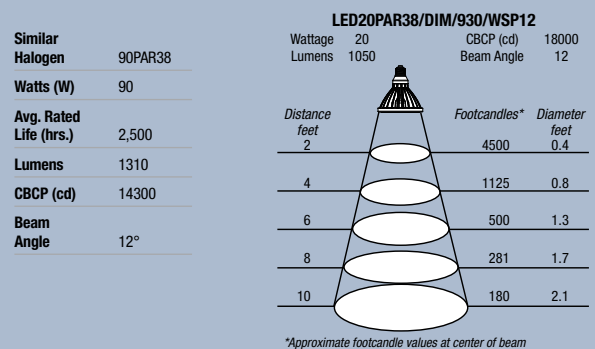
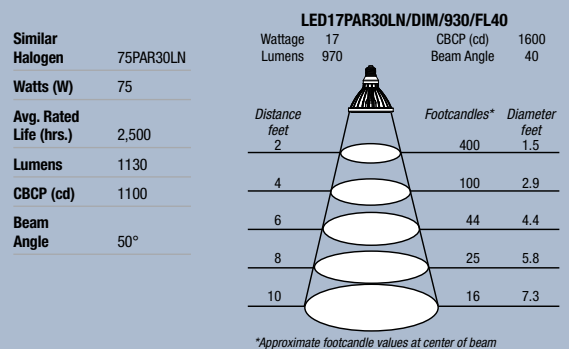
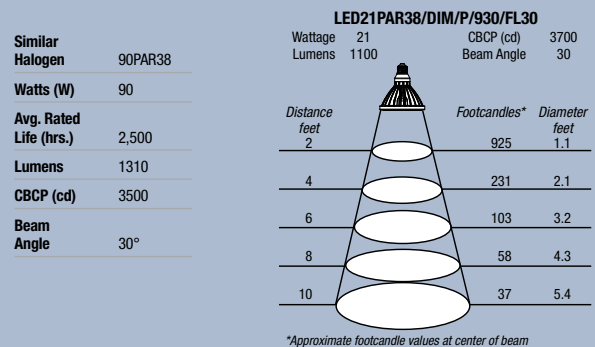
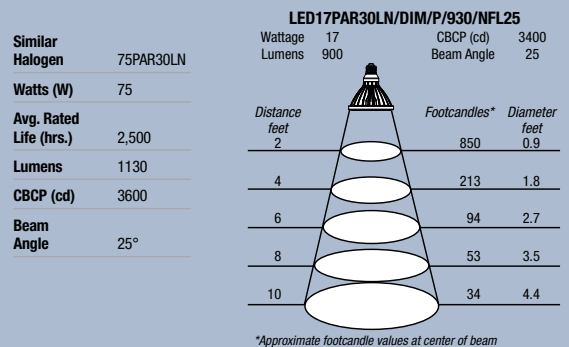
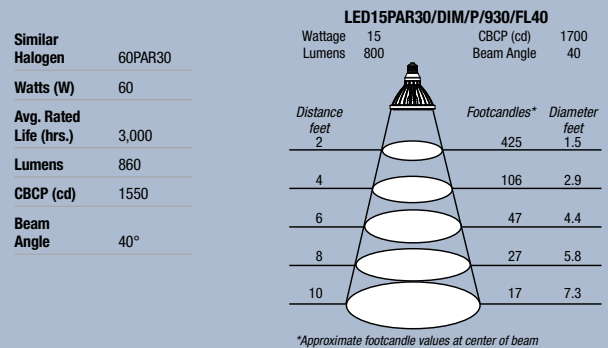
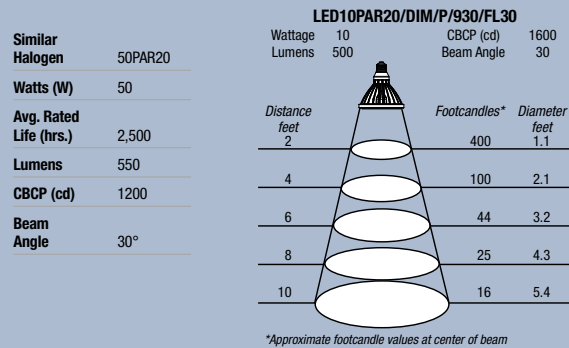
	(A) MOL (inches)	(B) Diameter (inches)	
PAR38 Med Base	4.99	4.76	
PAR38 GU24	5.03	4.76	
PAR30LN Med Base	4.67	4.02	
PAR30LN GU24	4.72	4.02	
PAR30 Med Base	3.53	3.75	
PAR30 GU24	3.60	3.75	
PAR20 Med Base	3.42	2.50	
PAR20 GU24	3.50	2.50	
PAR16 Med Base	3.00	1.96	
PAR16 GU10	2.31	1.96	
MR16 GU5.3	1.90	1.97	
PAR38 GU24			
PAR30LN GU24			
PAR30 GU24			
PAR20 GU24			

Energy Savings

Basic Product Description	LED Life (hrs.)	Similar Halogen	Halogen Life (hrs.)	Watts Saved	Energy Savings*	LED Life vs. Halogen Life
LED21PAR38	50,000	90PAR38	2,500	69	\$379.50	20x
LED20PAR38	40,000	90PAR38	2,500	68	\$299.20	16x
LED17PAR30LN	50,000	75PAR30LN	2,500	58	\$319.00	20x
LED15PAR30	50,000	60PAR30	3,000	45	\$247.50	16x
LED10PAR20	50,000	50PAR20	2,500	40	\$220.00	20x
LED8PAR16	25,000	50PAR16	2,000	42	\$115.00	12.5x

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

Technical Information



lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	550
Watts	10
Lumens per Watt (Efficacy)	55

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-HVTC08
Model Number: LED15PAR20QDMF9030FL30
Type: Replacement Lamp - Directional (R20, PAR20)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	880
Watts	15
Lumens per Watt (Efficacy)	58

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-0115EM
Model Number: LED15PAR20QDMF9030FL40
Type: Replacement Lamp - Directional (R30, PAR30)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	970
Watts	17
Lumens per Watt (Efficacy)	57

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-JKH070
Model Number: LED15PAR30N2DMF9030FL25
Type: Replacement Lamp - Directional (R30, PAR30)

Sample Specification

Lamp(s) shall be ULTRA HD Professional Series lamps (21W PAR38, 20W PAR38, 17W PAR30LN, 15W PAR30, 10W PAR20) having either a medium base or GU24 base. Lamp(s) shall have an average rated life of up to 50,000 at L₇₀. Lamps should have a typical CRI of 95 with a R₉ > 60 and an excellent color quality at 3-step MacAdam ellipse.

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1150
Watts	21
Lumens per Watt (Efficacy)	55

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-ALWCSJ
Model Number: LED21PAR30QDMF9030FL30
Type: Replacement Lamp - Directional (R38, PAR38)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1150
Watts	21
Lumens per Watt (Efficacy)	55

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-780RLC
Model Number: LED21PAR30G24QDMF9030FL30
Type: Replacement Lamp - Directional (R38, PAR38)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	970
Watts	17
Lumens per Watt (Efficacy)	57

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-LS2YV6
Model Number: LED17PAR30LN24QDMF9030FL25
Type: Replacement Lamp - Directional (R30, PAR30)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	880
Watts	15
Lumens per Watt (Efficacy)	58

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-E4DC7N
Model Number: LED15PAR20G24QDMF9030FL40
Type: Replacement Lamp - Directional (R20, PAR20)

lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	550
Watts	10
Lumens per Watt (Efficacy)	55

Color Accuracy	95
Color Rendering Index (CRI)	

Light Color
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-02(8), 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: SBZT-FNA33X
Model Number: LED15PAR20G24QDMF9030FL30
Type: Replacement Lamp - Directional (R20, PAR20)