



Look. Performance. Confidence.



Catalog Number
Notes
Type

S-SERIES LED Lamps

ALSP20

PAR 20 LED Lamp

SPECIFICATION GRADE



FEATURES & SPECIFICATIONS

INTENDED USE

Ideal for track, recessed and accent lighting use in both commercial and retail applications.

CONSTRUCTION

Housing: High quality, cast aluminum, advanced thermal design for optimal cooling efficiency.

Optics: Optimally engineered specular faceted reflector for efficient distribution.

EXPECTED LIFE

50,000 hours - L70 lumen depreciation design criteria.

RATED LIFE

25,000 hours - L70 after 6000 hours, initial ENERGY STAR® qualification tested.

Max. Luminous Intensity: 1400cd (480L); 650cd (530L)

LUMEN OUTPUT

480 lumens (480L), 530 lumens (530L)

Operating Temperature: -22°F to 104 °F (-30 °C to +40 °C)

Color Temperature (CRI): 2700K (82CRI); 4000K (85CRI)

ELECTRICAL SYSTEM

Uses High Brightness LED mounted to efficient thermal transfer system

8-watt high efficiency integral driver 110-120VAC.

Actual wattage may differ by +10%/ -15% when operating between 110-120V +/- 10%.

Dimmable down to 10%.

LISTING

UL and C-UL Listed to U.S. and Canadian safety requirements.

Damp location listed.

Tested in accordance with IESNA LM-79 standards.

Suitable for use in totally enclosed fixtures per UL1993.

ENERGY STAR® qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at:

http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

DIMENSIONS

Diameter: 2-9/16"

Length: 3-11/16"

Weight: 0.31 lbs

All dimensions are inches.

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

Example: ALSP20 480L DIM

LED LAMP					
Series	Lumen output ¹	Beam angle	Color temperature	Base	Dimming
ALSP20 PAR 20 LED Lamp	480L 8W, 480 lumens	(blank) 30 degrees ²	(blank) 2700K	(blank) E26	DIM Dimmable
	530L 8W, 530 lumens	45 45 degrees ³	40K 4000K		

Notes

1 Total system delivered lumens.

2 30° available only in 480L.

3 45° available only in 530L.

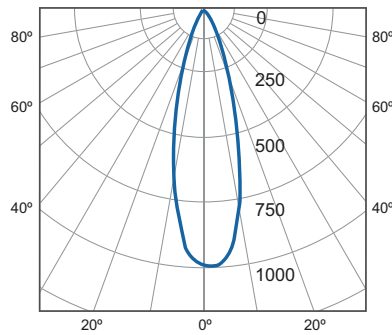
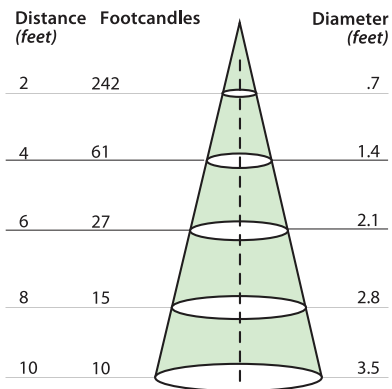


ALSP20 — PAR 20 LED Lamp

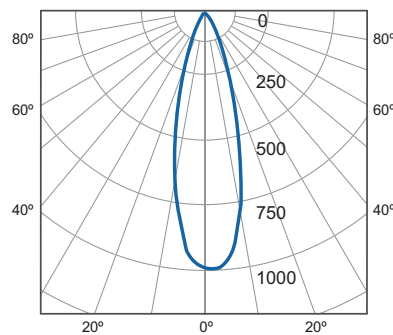
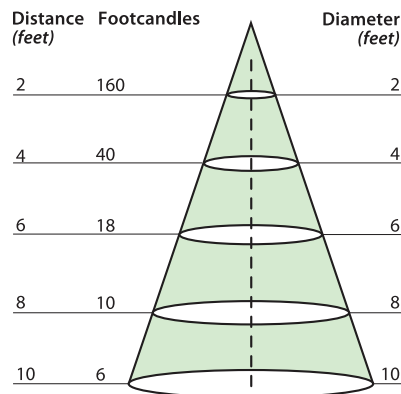
SPECIFICATION GRADE

PHOTOMETRICS

PAR 20 480L 30° Beam Angle



PAR 20 530L 45° Beam Angle



LED REPLACEMENT CHARTS

Product	Acculamp		Halogen	
	ALSP20 480L	ALSP20 530L 45		
Lumens	480	530	420	550
Watts	8W	8W	50W	50W
Beam Spread	30	45	25	40
Candela	1400	650	1100	900
CCT	2700K/4000K	2700K/4000K	2850K	2850K
CRI	82/85	82/85	100	100
Life	50,000 hours		2,500 hours	



Look. Performance. Confidence.

ALSP20 — PAR 20 LED Lamp

SPECIFICATION GRADE

LED LAMP AND DIMMER COMPATIBILITY

Mfg	Cat No.	Dimming Method	Wattage	Comments
Acuity Brands - Sensor Switch	nLight NSPS PCD ELV 120	Reverse Phase	480W	maximum load
Leviton	6633-P	Forward Phase	600W	
Leviton	6681	Forward Phase	600W	
Leviton	IPIO6	Forward Phase	600W	
Leviton	6613-P	Forward Phase	600W	
Leviton	6631-LW	Forward Phase	600W	
Leviton	6161-I	Forward Phase	500W	
Leviton	RP106-1	Forward Phase	600W	
Lutron	TG-603P	Forward Phase	600W	
Lutron	AY-103P	Forward Phase	1000W	
Lutron	DV-600P	Forward Phase	600W	
Lutron	DVCL-153PD	Forward Phase	600W	Adjust low end trim
Lutron	TG-600P	Forward Phase	600W	
Lutron	C-L wall mount Dimmers	Forward Phase	600W	Adjust low end trim
Lutron ELV Digital Fade	MRF2-6ELV	Reverse Phase	600W	Adjust low end trim. Set load type to reverse phase
Lutron Graphic Eye QS	PHPM-PA	Reverse Phase	1920W	Adjust low and high end trim. Set load type to reverse phase.
Lutron Graphic Eye QS	PHPM-WBX 3 wire fluorescent	Reverse Phase	1920W	Adjust low and high end trim. Set load type to reverse phase.
Lutron Graphic Eye QS	Main unit family	Forward Phase		Adjust low end trim
Lutron HomeWorks QS	HQRD-6NA	Neutral Adaptive	600W	Adjust low and high end trim. Set load type to reverse phase.
Lutron RadioRA2	RRD-6NA	Phase Adaptive	600W	Adjust low end trim. Set load type to reverse phase
Lutron RadioRA2	RRD-6NA	Phase Adaptive	600W	Adjust low and high end trim. Set load type to reverse phase.

Note: Most forward phase dimmers have a minimum load requirement of 40-60 watts. A single 8W watt LED lamp on a 600W dimmer may flicker if the minimum load requirement is not met, consider a synthetic minimum load, LUTRON-LBX or other equivalent. This requires a 2-gang wall box and additional wiring to the dimmer.

Depending on the quantity of LED lamps on the dimming circuit, an approximate 10% to 100% dimming range may be obtainable. Most available dimmers were designed around older technology and resistive or incandescent lamp loads, therefore performance can vary with LED load and is not guaranteed. Please see the manufacturer's instructions on dimmers for use with LED lamps and do not exceed the 150W LED load for 600W rated dimmer.

Acculamp LED-20 Amp Circuit Load

Use the table (right) as a guide, for the approximate quantity of Acculamp LED lamps on a typical standard 20-amp circuit (derated to 80% - 16 amps). Use a licensed electrician to determine proper wire gauges and circuit breakers according to the National Electrical Code and local codes. Do not overload circuit with more lamps than the approximate quantity shown below for a typical standard 20-amp circuit breaker for approximately 7X multiple of inrush current. Circuit breakers with higher inrush trip curve characteristics, such as **High Magnetic** types, are available. Consult with a licensed electrician for proper determination.

Lamp Model	Wattage	Operating Amps	Approx. Quantity
ALSP20 480L DIM	8W	0.1	69
ALSP20 480L 40K DIM	8W	0.1	69
ALSP20 530L 45 DIM	8W	0.1	69
ALSP20 530L 45 40K DIM	8W	0.1	69



Look. Performance. Confidence.