

KETRA™

S38 Tunable Lamp

- Fully tunable spectrum single point source produces wide range of white, pastels and saturated colors
- Closed-loop color point maintenance to <1 MacAdam ellipse over lifetime and temperature
- Integrated temperature protection maintains product within safe operating conditions
- Programmable digital dimming to 1%
- Integrated wireless control for seamless connection with Ketra's predefined light content
- Ketra's technology ensures consistent appearance and guaranteed compatibility as LED technology evolves



Hardware Ordering Guide

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Series	Form Factor	Lumens	Platform	Control	Beam Angle	Region	Base Type	Housing Color

Series	Code	Platform (see page 4 color chart)	Code	Region	Code
S Series Lamp	S	Wide Gamut	A	NA 120 V 60 Hz	1
Form Factor	Code	Control	Code	Base Type	Code
PAR38	38	Tunable	T	E26 GU24	E26 G24
Lumens	Code	Beam Angle	Code	Housing Color	Code
900	09	Spot (10°) Flood (25°) Wide Flood (40°) Very Wide Flood (60°)	SP FL WFL VFL	White Black Silver	WH BK S

Ketra lamps can be ordered with a variety of custom light settings, including specific color points and correlated color temperatures.

Contact Ketra for more details.

770-000001-01-9

Specifications are subject to change without notice.

Specifications¹

Optical Performance

Lumen Output	900 lm ²
Color	Red: 330 lm, Green: 435 lm, Blue: 130 lm ³
CRI (Ra)	>90
Lumen Maintenance	25,000 hours to L70 @ 25°C T _A ⁴
Color Spatial Uniformity	<2 MacAdam ellipses across field angle
Color Point Maintenance	<1 MacAdam ellipse over product lifetime
Equivalent Traditional Lamp	75W halogen PAR38
Dimming Range	1 - 100% lm ⁵

Environmental

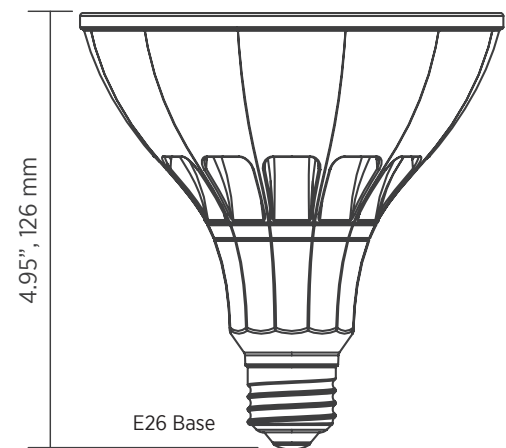
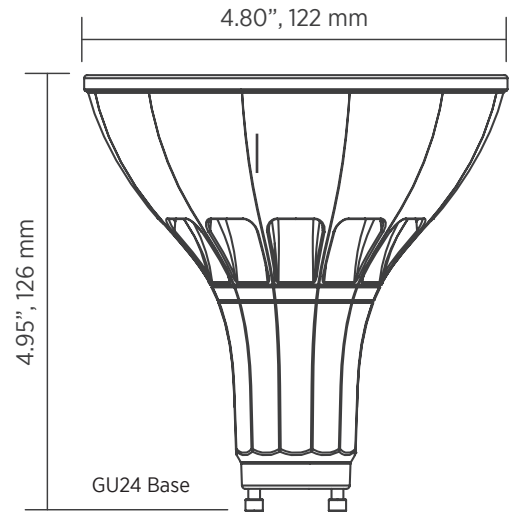
Operating Temperature (T _A)	0 - 50°C ⁶
Storage Temperature	-20 - 80°C
Humidity	0 - 95%, Non-condensing
Certification	UL, cUL, RoHS, FCC Class B
Location	UL Damp Location, IP50

Mechanical

Weight	13.8 oz, 390 g
Housing Material	Powder Coated Aluminum, Polymer
Lens Material	Non-yellowing PMMA
Base Type	E26 or GU24

Electrical

Power Consumption	17W
Power Factor	>0.9
Current	170 mA Max
Efficacy	>50 lm/W



CAD files available upon request

¹ All performance measurements taken at 3000K, 25°C ambient, 100% power input, unless otherwise stated.

² Lumen measurement complies with IES LM-79-08 testing procedures.

³ See color gamut chart at the end of this document.

⁴ Lumen maintenance values calculated in accordance to TM-21 procedures based on LM-80 compliant measurement data.

⁵ Intensity and color point controlled via Ketra's wireless network

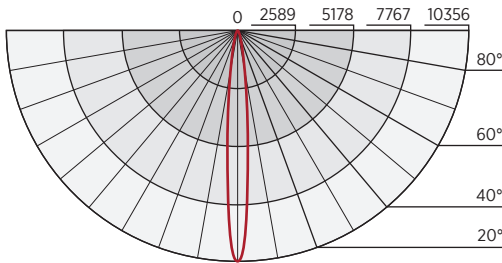
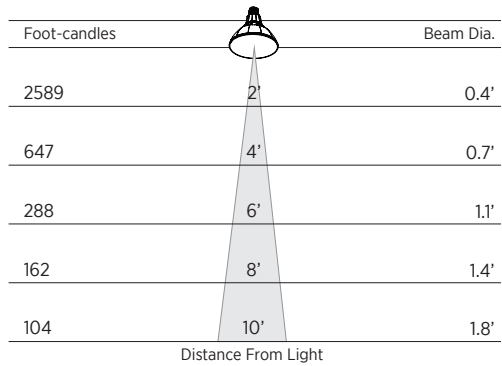
⁶ Not to be used in fully enclosed luminaires.

ISO Footcandle Charts: 2700 - 5000K Values Only

LM-79 compliant IES files available upon request.

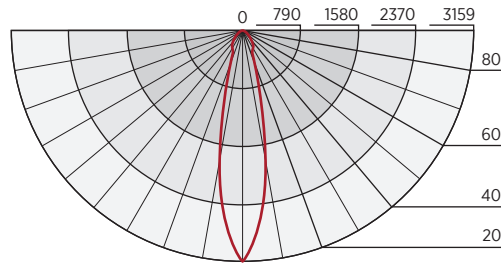
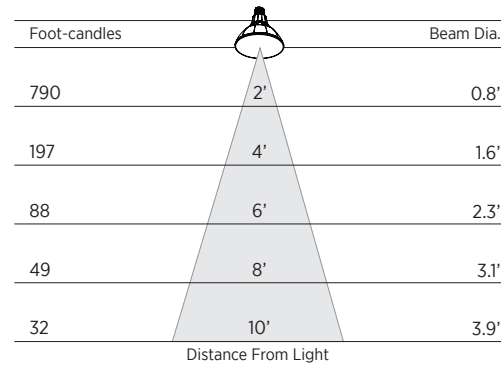
Beam Angle: 10° Spot (SP)

Product Code ¹	Wattage	Lumens	CBCP
S3809ATSPIE26WH	17W	900	10356



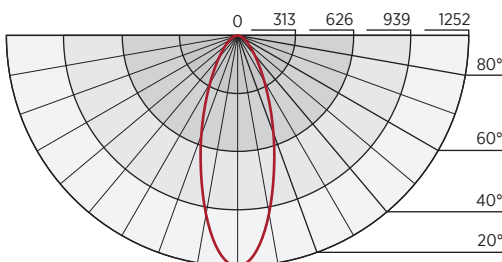
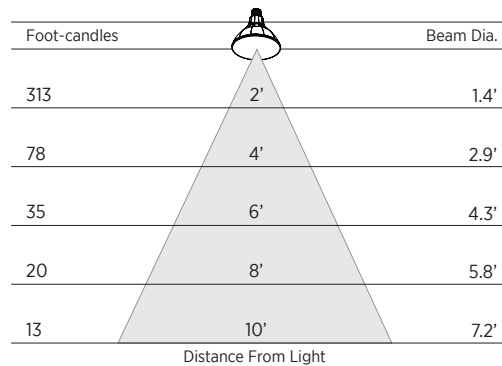
Beam Angle: 25° Flood (FL)

Product Code ¹	Wattage	Lumens	CBCP
S3809ATFLIE26WH	17W	900	3159



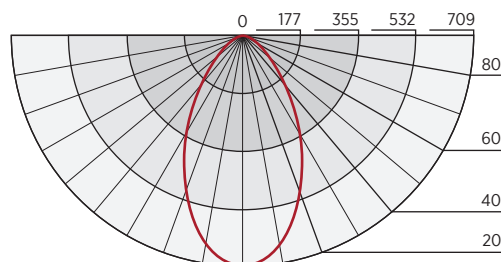
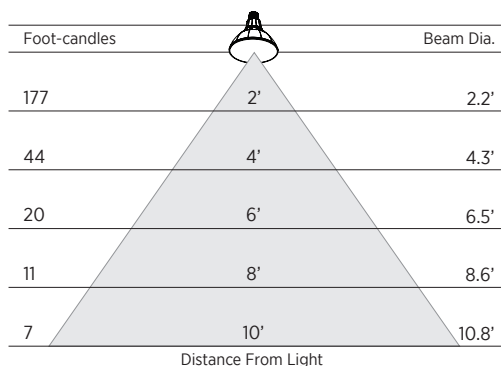
Beam Angle: 40° Wide Flood (WFL)

Product Code ¹	Wattage	Lumens	CBCP
S3809ATWFLIE26WH	17W	900	1252



Beam Angle: 60° Very Wide Flood (VFL)

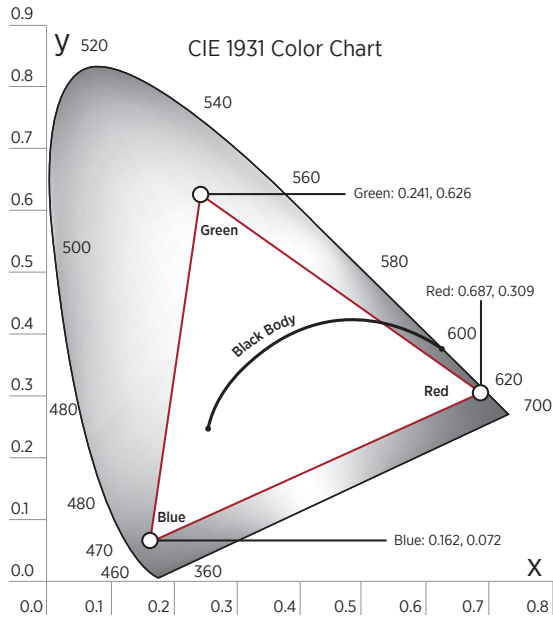
Product Code ¹	Wattage	Lumens	CBCP
S3809ATVFLIE26WH	17W	900	709



¹ Performance data applies to all base types and housing colors.

Wide Gamut:

Ketra's tunable spectrum PAR38 lamp can easily be configured via our intuitive Design Studio software tool. The product can reproduce any color point within the triangle shaped gamut indicated in the chart below. With Ketra's innovative optical and thermal feedback system, the color point is maintained to an accuracy of <1 MacAdam ellipse over the lifetime of the product and across operating temperature range.



General Specifications:

- LED PAR38 lamp shall employ closed loop optical and thermal feedback capable of maintaining color point accuracy of <1 MacAdam ellipse.
- LED PAR38 lamp shall have color spatial uniformity of <2 MacAdam ellipses over full field angle.
- LED PAR38 lamp shall have an integrated wireless control onboard.
- LED PAR38 lamp shall be capable of a CRI >90 at any point along the Black Body Curve from 2700 - 5000K.
- LED PAR38 lamp shall be a single source multi-die emitter consisting of both monochromatic and phosphor converted blue LED die.
- LED PAR38 lamp shall be sealed, meeting UL damp location and IP50 requirements.

- LED PAR38 lamp shall be compatible with E26 or GU24 base sockets.
- LED PAR38 lamp shall be dimmable to 1% of measured luminous flux with digital dimming.
- LED PAR38 lamp shall be UL listed and RoHS compliant.
- LED PAR38 lamp shall be capable of in situ firmware and software upgrades.
- Ketra LED Lamps are warranted to be free from material defects in material and workmanship for five (5) years or 25,000 hours from date of shipment, whichever is less.

LED PAR38 lamp shall be # _____