

# KETRA

## S38 TUNABLE LAMP

Type: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_



Fully tunable spectrum single point source produces wide range of 90+ CRI 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

Wirelessly dimmable to 0.1%

On-board wireless control enables individual addressability and control at a competitive system level price point

### HARDWARE ORDERING GUIDE

<input type="text"/>	S38	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Product Line	Model	Lumens	Platform/ Control/Beam Angle	Region/ Voltage/ Base	Housing Color

Order Code: \_\_\_\_\_

Product Line	Code	Platform/Control/Beam Angle	Code
Commercial	<b>CM-</b>	Wide Gamut, Tunable Spot (10°)	<b>CTSP</b>
Residential (Homeworks compatible)	<b>HW-</b>	Wide Gamut, Tunable Flood (25°)	<b>BTFL</b>
Model		Wide Gamut, Tunable Wide Flood (40°)	<b>BTWFL</b>
S Series Lamp	<b>S38</b>	Wide Gamut, Tunable Very Wide Flood (60°)	<b>BTVFL</b>
Lumens		Region/ Voltage/ Base	
900	<b>09</b>	North America, 120VAC 60Hz, E26	<b>11E26</b>
1100 <sup>1</sup>	<b>11</b>	North America, 120VAC 60Hz, GU24	<b>11G24</b>
		Housing Color	
		White	<b>WH</b>
		Black	<b>BK</b>

<sup>1</sup> This option is not available for sale in California.

\* For Title 24 and Title 20 compliant model numbers or for more information, please contact Customer Service at [ketrasupport@lutron.com](mailto:ketrasupport@lutron.com) or 844.588.6445.

## SPECIFICATIONS<sup>1</sup>

### OPTICAL PERFORMANCE

Lumen Output <sup>2</sup>	900 lm/ 1100 lm
CRI (Ra) <sup>3</sup>	>90 (R9 >90)
Lumen Maintenance <sup>3</sup>	50,000 hours to L70 @ 25°C TA
Color Spatial Uniformity	<2 MacAdam ellipses across field angle
Color Point Maintenance <sup>4</sup>	<1 MacAdam ellipse over product lifetime
Color Point Range <sup>4</sup>	1400°K-10,000°K, Fully Saturated, & Pastel
Equivalent Traditional Lamp	75W/ 100W halogen PAR38
Dimming Range <sup>5</sup>	0.1-100% lm

### ENVIRONMENTAL

Operating Temperature	0 to 50°C
Storage Temperature	-20 - 80°C
Humidity	0 - 95%, Non-condensing
Certification	UL, cUL, RoHS, FCC Class B
Location	UL Damp Location, IP20, Suitable for use in fully enclosed luminaires

### MECHANICAL

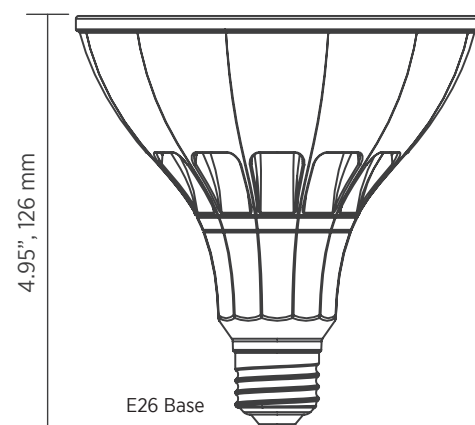
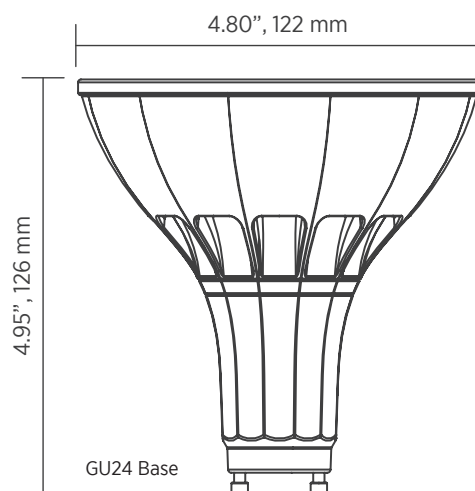
Weight	13.8 oz, 390 g
Housing Material	Powder Coated Aluminum, Polymer
Lens Material	Non-yellowing PMMA
Base Type	E26 GU24

### ELECTRICAL

Power consumption	S38.09 13W/ S38.11 18W
Power Factor	>0.9
Current	170 mA Max
Efficacy	S38.09 69 lm/W / S38.11 62 lm/W

### ACCESSORIES

S38 Accessory Short Snoot	S38ASNT55 WH/BK
S38 Accessory Tall Snoot	S38ASNT30 WH/BK
S38 Accessory 45° Hex Louver Includes Short Snoot	S38ALUV45 WH/BK
S38 Accessory 15° Baffle Includes Tall Snoot	S38ABFL15 WH/BK



CAD files available upon request

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

<sup>2</sup> Lumen measurement complies with IES LM-79-08 testing procedures.

<sup>3</sup> Lumen maintenance values calculated in accordance to TM-21 procedures based on LM-80 compliant measurement data.

<sup>4</sup> Intensity and color point controlled via Ketra's wireless network

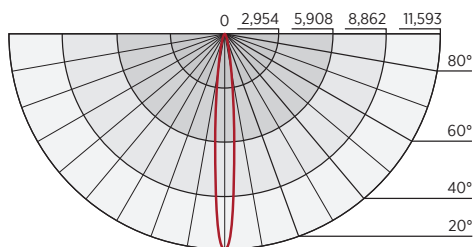
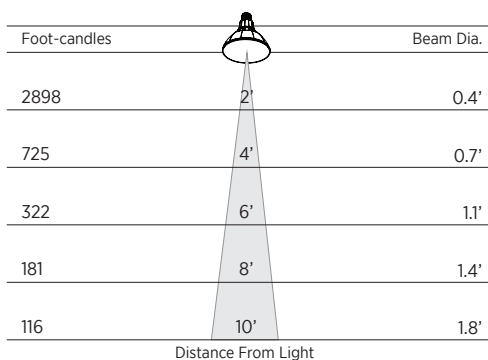
<sup>5</sup> Suitable for use in fully enclosed luminaires

## ISO FOOTCANDLE CHARTS: 2700 - 5000K VALUES ONLY

LM-79 compliant IES files available upon request.

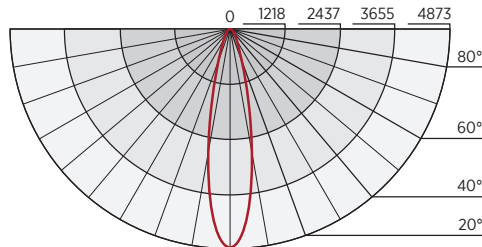
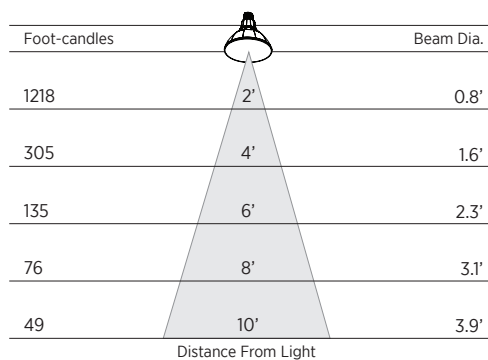
### Beam Angle: 10° Spot (SP)

Product Code <sup>1</sup>	Wattage	Lumens	CBCP
S3811BTSP11E26WH	18W	1100	11,593



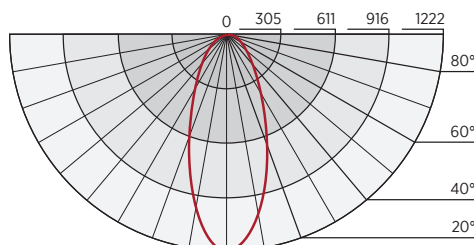
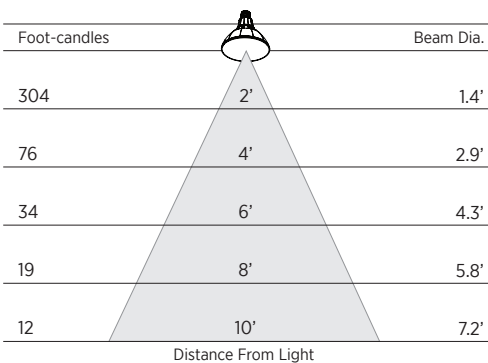
### Beam Angle: 25° Flood (FL)

Product Code <sup>1</sup>	Wattage	Lumens	CBCP
S3811BTFL11E26WH	18W	1100	4873



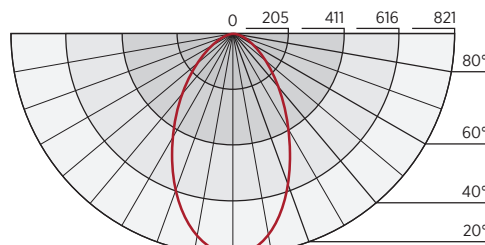
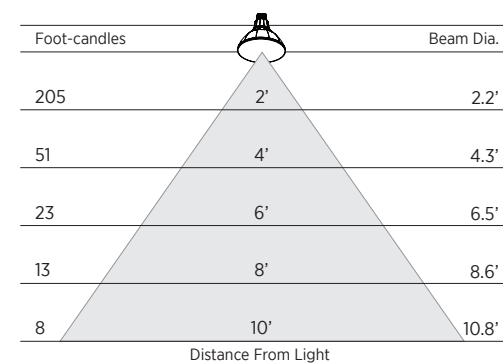
### Beam Angle: 40° Wide Flood (WFL)

Product Code <sup>1</sup>	Wattage	Lumens	CBCP
S3811BTWFL11E26WH	18W	1100	1217



### Beam Angle: 60° Very Wide Flood (VFL)

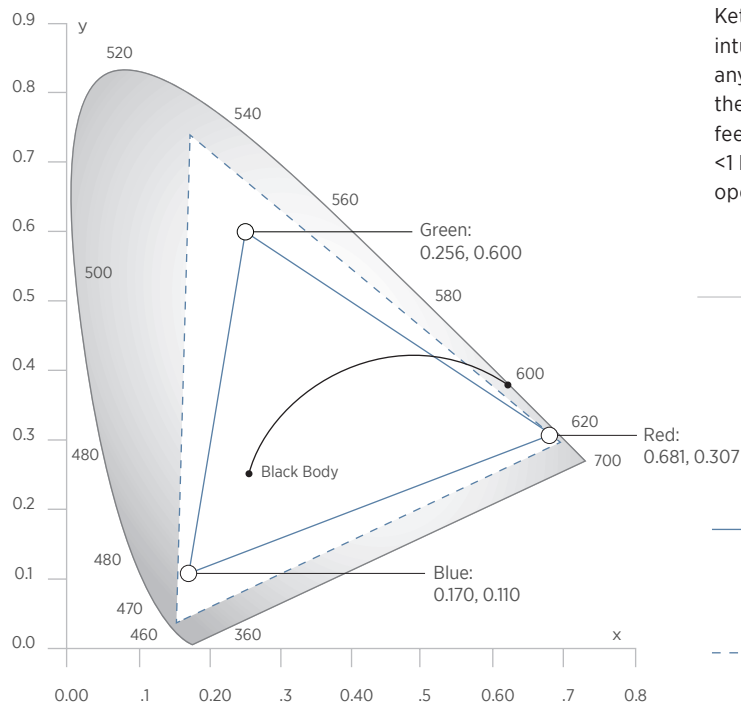
Product Code <sup>1</sup>	Wattage	Lumens	CBCP
S3811BTVFL11E26WH	18W	1100	818



<sup>1</sup> Performance data applies to all base types and housing colors.

## WIDE GAMUT

CIE 1931 Color Chart



Ketra's PARS38 Tunable lamp can easily be configured via Ketra's intuitive Design Studio software. 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.

- Calibrated Gamut:** Color point is maintained to an accuracy of <1 MacAdam ellipse over the lifetime of the product and across operating temperature range.
- Expanded Gamut:** Color calibration is relaxed such that each product produces the most saturated color it is capable of.

## 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 dye.

LED PAR38 lamp shall be sealed, meeting UL damp location (and UL Wet Location with Wet Location Trim) requirements.

LED PAR38 lamp shall be dimmable to 0.1% of measured luminous flux with wireless 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 PAR38 lamp are warrantied 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 # \_\_\_\_\_