

## S38 Tunable Lamp

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



## ORDERING GUIDE

S38					
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>
		Wide Gamut, Tunable Wide Flood (40°)	<b>BTWFL</b>
		Wide Gamut, Tunable Very Wide Flood (60°)	<b>BTVFL</b>
Model		Region/ Voltage/ Base	
S Series Lamp	<b>S38</b>	North America, 120VAC 60Hz, E26	<b>11E26</b>
		North America, 120VAC 60Hz, GU24	<b>11G24</b>
Lumens		Housing Color	
900	<b>09</b>	White	<b>WH</b>
1100 <sup>1</sup>	<b>11</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.



## S38 TUNABLE LAMP

### SPECIFICATIONS<sup>1</sup>

#### Optical Performance

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

#### Environmental

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

#### Mechanical

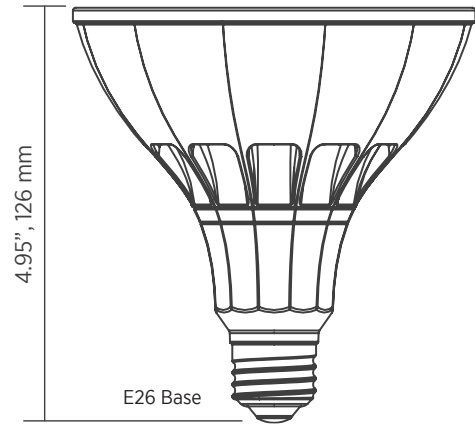
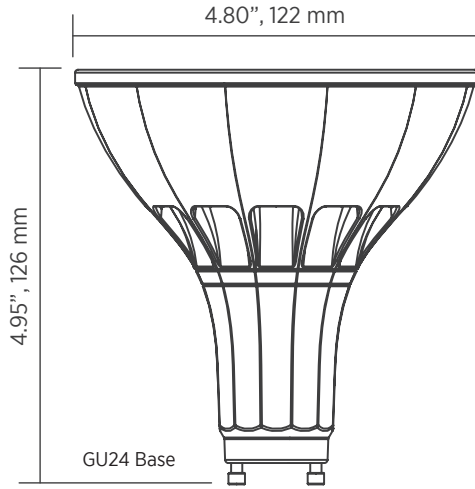
Weight	<b>13.8 oz, 390 g</b>
Housing Material	<b>Powder Coated Aluminum, Polymer</b>
Lens Material	<b>Non-yellowing PMMA</b>
Base Type	<b>E26 GU24</b>

#### Electrical

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

#### Accessories

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



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

770-000001-01-r38

Specifications are subject to change without notice



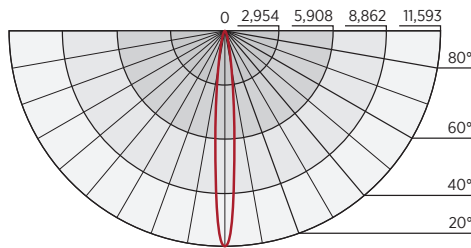
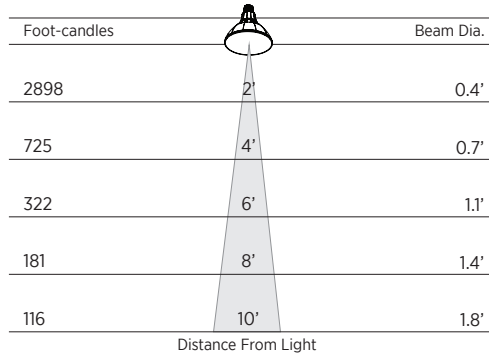
## S38 TUNABLE LAMP

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

LM-79 compliant IES files available upon request.

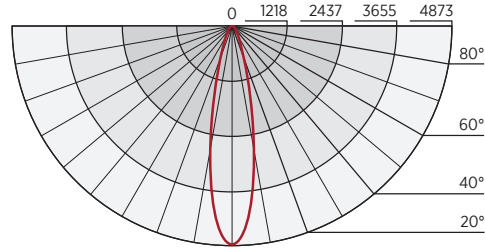
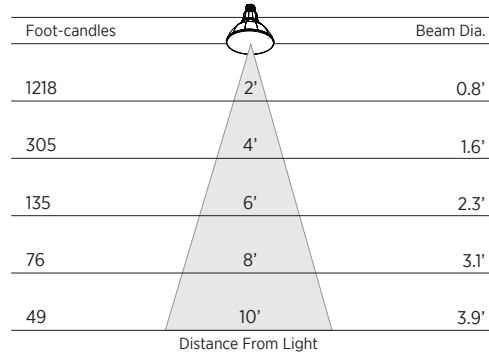
#### Beam Angle: 10° Spot (SP)

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



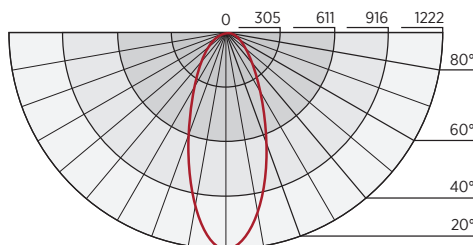
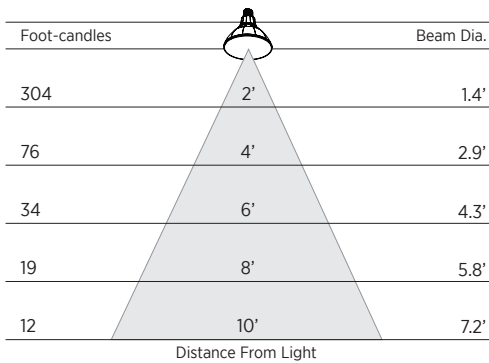
#### Beam Angle: 25° Flood (FL)

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



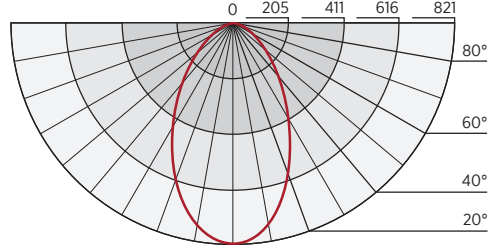
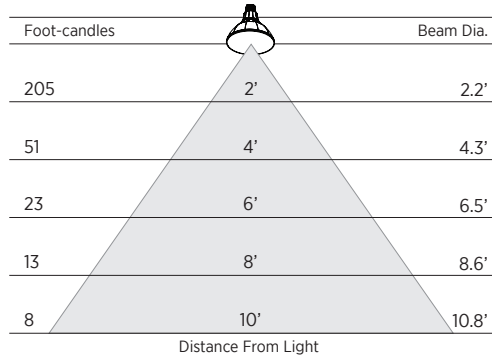
#### Beam Angle: 40° Wide Flood (WFL)

Product Code <sup>1</sup>	Wattage	Lumens	CBCP
S3811BTWFL11E26WH	18W	1046	4198



#### 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.

770-000001-01-r38

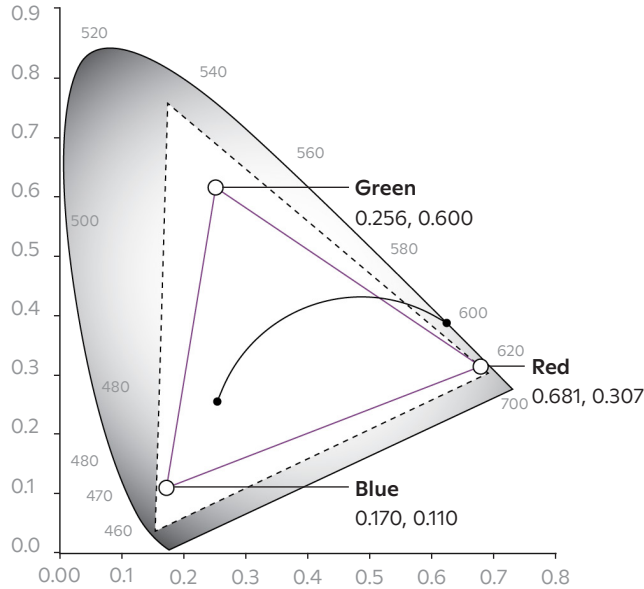
Specifications are subject to change without notice



## S38 TUNABLE LAMP

### WIDE GAMUT

#### CIE 1931 Color Chart



Ketra's S38 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 to the left. 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 S38 lamp shall employ closed loop optical and thermal feedback capable of maintaining color point accuracy of <1 MacAdam ellipse.

LED S38 lamp shall have color spatial uniformity of <2 MacAdam ellipses over full field angle.

LED S38 lamp shall have an integrated wireless control onboard.

LED S38 lamp shall be capable of a CRI >90 at any point along the Black Body Curve from 2700 - 5000K.

LED S38 lamp shall be a single source multi-die emitter consisting of both monochromatic and phosphor converted blue LED die.

LED S38 lamp shall be sealed, meeting UL damp location requirements.

LED S38 lamp shall be dimmable to 0.1% of measured luminous flux with wireless dimming.

LED S38 lamp shall be UL listed and RoHS compliant.

LED S38 lamp shall be capable of in situ firmware and software upgrades.

Ketra's LED S38 lamp is 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 S38 lamp shall be # \_\_\_\_\_

The Ketra logo and KetraNet Mesh are trademarks or registered trademarks of Lutron Ketra, LLC, in the US and/or other countries

770-000001-01-r38

Specifications are subject to change without notice