

S30 Tunable LED S30 Lamp

The Ketra Difference:

High Def Palette—covers a wide range of 16.7 million colors, including pastels, saturated colors and high CRI whites spanning from 1,400K to 10,000K.

Dynamic Spectrum—precisely tunes the amount of energy across the visible spectrum to produce Natural Light, Natural Dimming and Vibrancy.

TruBeam—produces uniform color across any available beam angle.

Color Lock—maintains your desired color point at a one-step MacAdam Ellipse across all Ketra product families and over each product's lifetime.



ORDERING GUIDE

Please download this PDF to use the interactive drop down features of the ordering guide.

S30					
Product Line	Model	Lumens	System/Beam Angle	Region /Voltage / Base	Housing Color

Order code: _____

Product Line	Code	System/Beam Angle	Code	Region/ Voltage/ Base	Code
Commercial (Athena compatible)	CM-	KetraNet Spot (15°)	CTSP	North America, 120 V~ 60 Hz, E26	11E26
		KetraNet Flood (25°)	BTFL	North America, 120 V~ 60 Hz, GU24	11G24
Residential (HomeWorks compatible)	HW-	KetraNet Wide Flood (40°)	BTWFL	Housing Color	
		KetraNet Very Wide Flood (60°)	BTVFL		
		KetraNet Extra Wide Flood (90° BR Style)	BTXFL		
Model				White	WH
S-Series PAR30 Long Neck LED S30 Lamp	S30	CCX Spot (15°) ⁵	GTSP	Black	BK
		CCX Flood (25°) ⁵	GTFL		
Lumens		CCX Wide Flood (40°) ⁵	GTWFL		
800 ¹	08	CCX Very Wide Flood (60°) ⁵	GTVFL		
1050 ¹	10	CCX Extra Wide Flood (90° BR Style) ^{4,5}	GTXFL		
800 High-Efficacy ^{2,3,4}	08H				
1050 High-Efficacy ^{2,3,4}	10H				

¹ This option is not available for sale in California.

² High-efficacy light sources are Title 20 and Title 24 JA8 compliant.

³ High-efficacy only available for design with Clear Connect-Type X systems.

⁴ Extra Wide Flood beam angle is not available in the high-efficacy lumen options.

⁵ CCX stands for Clear Connect-Type X.

SPECIFICATIONS¹
Optical & Electrical Performance

Lumen Output ²	800 lm/ 1050 lm
CRI (Ra) ³	>90 (R9 >90)
Lumen Maintenance ³	50,000 hours to L70 @ 25 °C TA
Color Point Maintenance ⁴	One-step MacAdam Ellipse over product lifetime
Color Point Range ⁴	1400 °K – 10,000 °K, Fully Saturated, & Pastel
Equivalent Traditional LED S30 Lamp	75W halogen PAR30
Dimming Range ⁴	0.1-100%

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
Outdoor Use	Not for use in outdoor applications

Mechanical

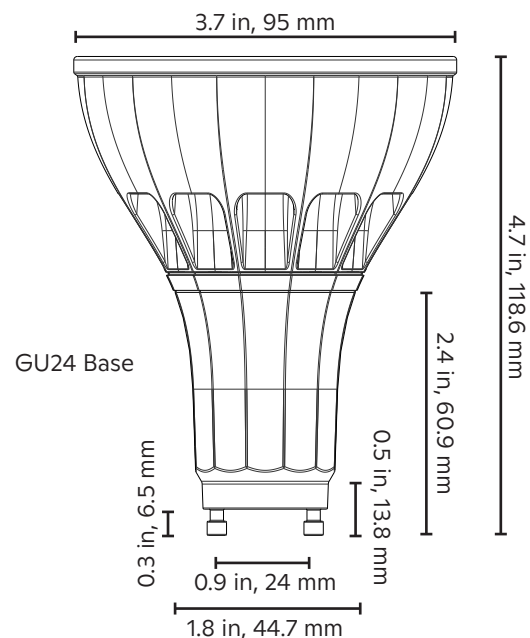
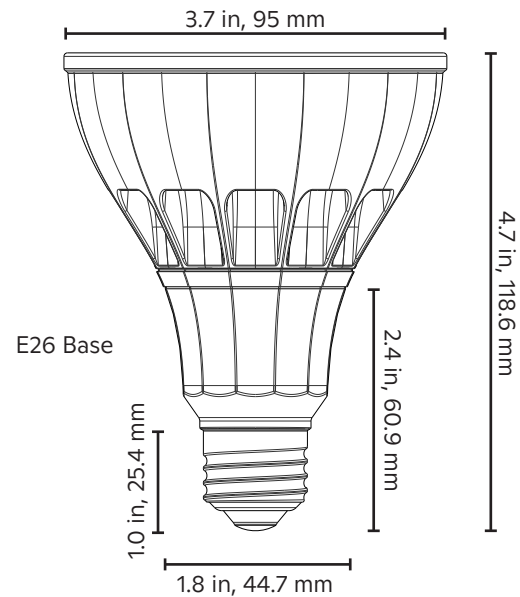
Weight	1.35 lbs, 600 g
Housing Material	Powder Coated Aluminum, Polymer
Lens Material	UL Damp Location, IP20
Base Type	E26 GU24

Electrical

Power Consumption	S30.08 11 W/ S30.10 17 W
Power Factor	>0.9
Current	170 mA Max
Emergency Lighting	Evaluated by UL[®] for use in emergency lighting systems in accordance with standard UL[®] 924 and CSA C22.2 No. 141 when paired with the LVS[™] model LUT-SHUNT-A-TD (UL[®] file E206507). See Lutron Application Note 106 (P/N 048106) at www.lutron.com for wiring details. This is only applicable to CCX fixtures used in an Athena system.

Accessories

S30 Accessory Short Snoot	S30ASNT55 WH/BK
S30 Accessory Tall Snoot	S30ASNT30 WH/BK
S30 Accessory 45° Hex Louver Includes Tall Snoot	S30ALUV45 WH/BK
S30 Accessory 15° Baffle Includes Tall Snoot	S30ABFL15 WH/BK



CAD files available upon request

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

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

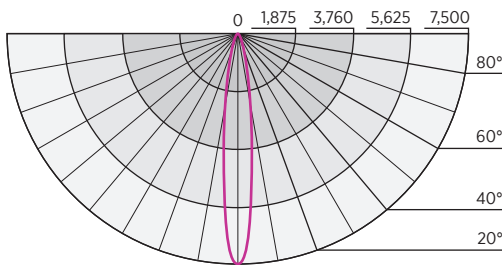
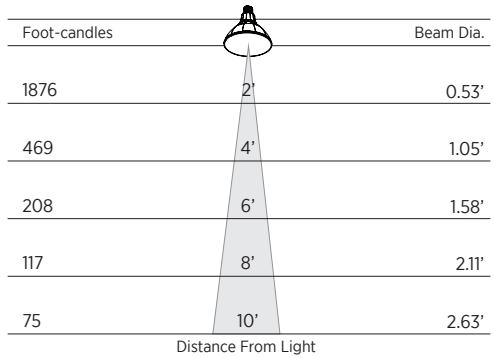
³ Lumen maintenance values calculated in accordance to TM-21 procedures based on LM-80 compliant measurement data.

⁴ Intensity and color point control requires compatible system.

ISO FOOTCANDLE CHARTS: 2700 - 5000 K VALUES ONLY

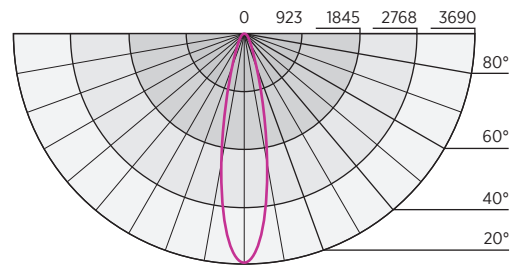
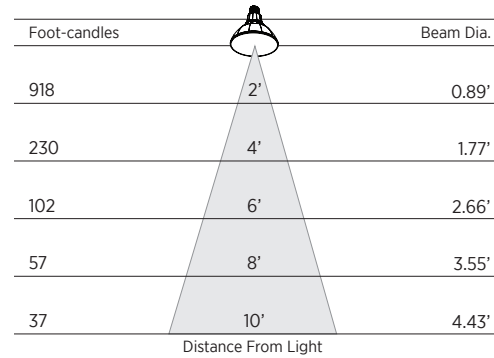
Beam Angle: 15° Spot (SP)

Product Code ¹	Wattage	Lumens	CBCP
S3010CTSP11E26WH	17 W	1050	7501



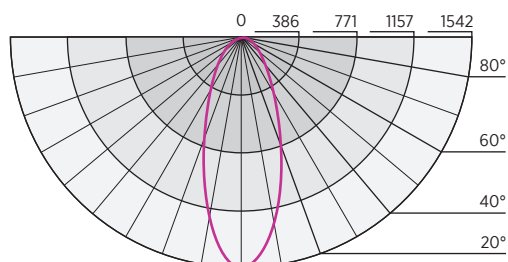
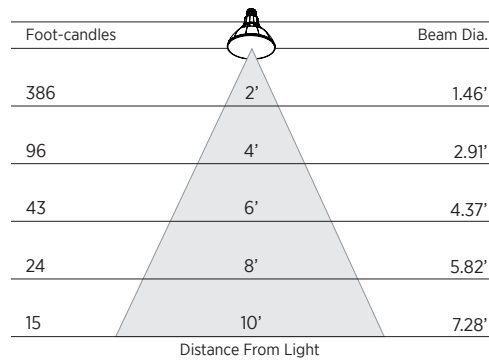
Beam Angle: 25° Flood (FL)

Product Code ¹	Wattage	Lumens	CBCP
S3010BTFL11E26WH	17 W	1050	3672



Beam Angle: 40° Wide Flood (WFL)

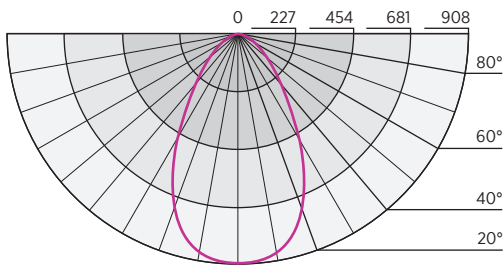
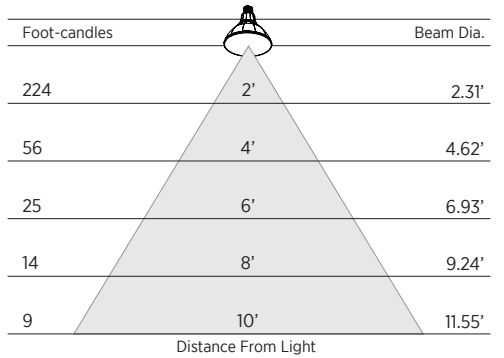
Product Code ¹	Wattage	Lumens	CBCP
S3010BTWFL11E26WH	17 W	1050	1542



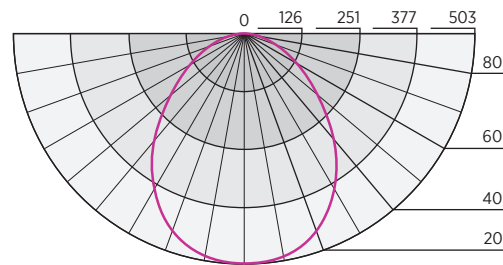
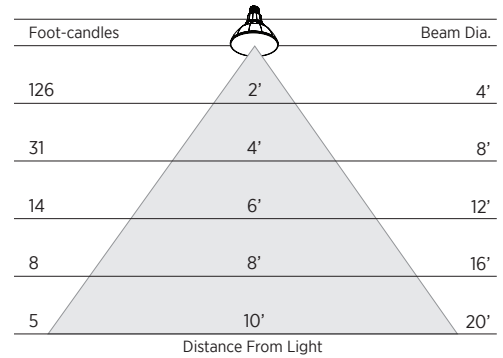
¹ Performance data applies to all base types and housing colors.

ISO FOOTCANDLE CHARTS: 2700 - 5000 K VALUES ONLY
Beam Angle: 60° Very Wide Flood (VFL)

Product Code ¹	Wattage	Lumens	CBCP
S30101BTVFL11E26WH	17 W	1050	897


Beam Angle: 90° Extra Wide Flood (XFL)

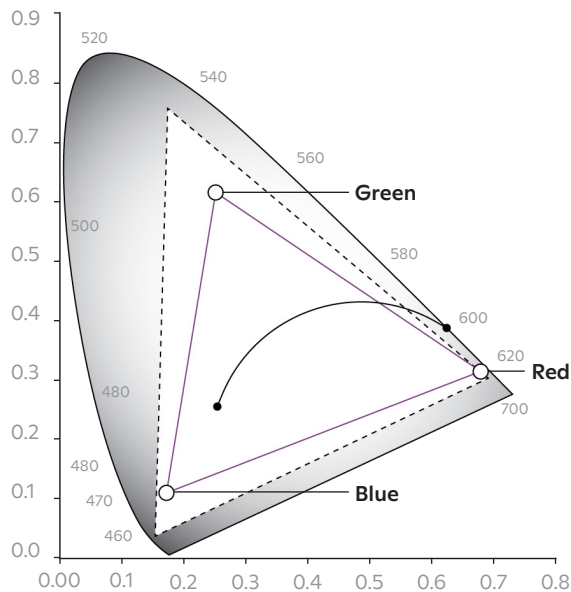
Product Code ¹	Wattage	Lumens	CBCP
S30101BTXFL11E26WH	17 W	1050	503



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

WIDE GAMUT

CIE 1931 Color Chart



Ketra's S30 Tunable LED S30 Lamp can easily be commissioned into Lutron HomeWorks or Athena systems. 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 one-step MacAdam Ellipse over the lifetime of the product and across operating temperature range.

— **Color Lock**—Color point is maintained to an accuracy of one-step 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.

S30 General Specifications

Color Point Maintenance: Employ closed loop optical and thermal feedback capable of maintaining color point accuracy at a one-step MacAdam ellipse over product lifetime.

Wireless Capability: LED light source shall have an integrated wireless control on board.

Color Rendering Index (CRI): Capable of CRI greater than 90 at any point along the Black Body Curve from 2,700K to 5,000K.

Single Source Multi-Dye Emitter Design: Employ a single source multi-dye emitter consisting of both monochromatic and phosphor converted blue LED dye.

LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

Warranty: Ketra's light source is 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.

Lighting System Capable of the Following Dimming Functionality:

1. Automatically mimicking natural daylight by shifting Correlated Color Temperature (CCT) and intensity based on time-of-day.
2. Shifting from high CCT at high intensity to low CCT at low intensity, mimicking dimming curve of an incandescent lamp.
3. Changing intensity while maintaining full color spectrum or CCT.
4. Changing full color spectrum or CCT while maintaining intensity.

Spectral Power Distribution Manipulation: Light system capable of manipulating the Spectral Power Distribution (SPD) by automatically adjusting distributions of color intensity while maintaining the same Correlated Color Temperature (CCT).

Dimming Range: Dimmable from 100 to 0.1 percent measured luminous flux.

Color Point Range: Single light source capable of producing 16.7 million colors and white from 1,400K to 10,000K Correlated Color Temperature (CCT).