

S38 Tunable 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 onestep 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.

	S38				
Product Line	Model	Lumens	System/Beam Angle	Region /Voltage / Base	Housing Color
Order code:					

roduct Line Code		System/Beam Angle Code		Region/ Voltage/ Base	Code	
Commercial CM- (Athena compatible)		KetraNet Wide Gamut, CTSP Tunable Spot (10°)		North America, 120 V∼ 60 Hz, E26		
				North America, 120 V \sim 60 Hz, GU24	11G24	
Residential	HW-	KetraNet Wide Gamut,	BTFL			
(HomeWorks compatible)		Tunable Flood (25°)		Housing Color		
		KetraNet Wide Gamut,	BTWFL	White	WH	
Model		Tunable Wide Flood (40°)		Black		
S-Series Lamp	S38	KetraNet Wide Gamut,	BTVFL	DIACK	BK	
		Tunable Very Wide Flood (60°)				
Lumens		CCX Wide Gamut,	GTSP			
900 1	09	Tunable Spot (10°) 4	0131			
1100 ¹	11	CCX Wide Gamut,	GTFL			
900 High-Efficacy ^{2, 3}	09H	Tunable Flood (25°) ⁴				
1100 High-Efficacy 2,3	11H	CCX Wide Gamut,	GTWFL			
-		Tunable Wide Flood (40°) 4				
		CCX Wide Gamut, Tunable Very Wide Flood (60°) 4	GTVFL			

¹ This option is not available for sale in California.

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

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

⁴ CCX stands for Clear Connect-Type X.



SPECIFICATIONS¹

Optical Performance

 Lumen Output²
 900 lm/ 1100 lm

 CRI (Ra)³
 >90 (R9 >90)

Lumen Maintenance³ 50,000 hours to L70 @ 25 °C TA

Color Point Maintenance⁴ One-step MacAdam Ellipse over

product lifetime

Color Point Range⁴ 1400 °K–10,000 °K, Fully Saturated, &

Pastel

Equivalent Traditional Lamp 75W/ 100W halogen PAR38

Dimming Range 0.1-100%

Environmental

Operating Temperature 0 to 50 °C

Storage Temperature -20 to 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 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 13 W/ S38.11 18 W

Power Factor >0.9
Current 170 mA Max

Efficacy S38.09 69 lm/W / S38.11 62 lm/W

Emergency Lighting Evaluated by UL_® for use in emergency

lighting systems in accordance with standard UL₀ 924 and CSA C22.2 No. 141 when paired with the LVS™ model LUT-SHUNT-A-TD (UL₀ 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.

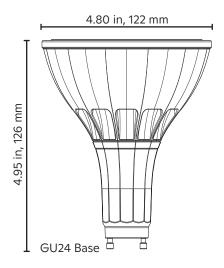
Accessories

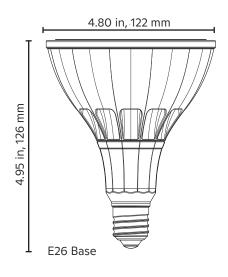
Includes Tall Snoot

S38 Accessory Short Snoot
S38 Accessory Tall Snoot
S38 Accessory 45° Hex Louver Includes Short Snoot
S38 Accessory 15° Baffle
S38 Accessory 15° Baffle
S38 Agrees S48 S755 WH/BK
S38 Accessory 15° Baffle
S38 Agrees S48 S755 WH/BK



- $^{\rm 2}$ $\,$ 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.



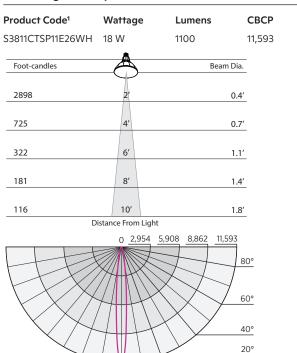


CAD files available upon request



ISO FOOTCANDLE CHARTS: 2700 - 5000K VALUES ONLY

Beam Angle: 10° Spot (SP)



Beam Angle: 40° Wide Flood (WFL)

Wattage	Lumens	СВСР
VH 18 W	1046	4198
	Bear	m Dia.
2'		1.4'
4'		2.9'
6'	\	4.3'
8'		5.8'
10'		7.2'
Distance From Light	t	
0 305	611 916 1,	222
		80°
		60°
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		40° 20°
	VH 18 W 2' 4' 6' 8' Distance From Light	Bear 2' 4' 6' 8' Distance From Light

 $^{^{\}mbox{\scriptsize 1}}$ Performance data applies to all base types and housing colors.

Beam Angle: 25° Flood (FL)

Product Code ¹	Wattage	Lumens	СВСР
3811BTFL11E26WH	18 W	1100	4873
Foot-candles		Beam Di	ia.
1218	2'\	0.	8'
305	4'	1.0	6'
135	6'	2.	3'
76	8'	3	.1'
49	10'	3.	9'
D	istance From Light		
	0 1,218	2,437 3,655 4,873	80°
			40° 20°

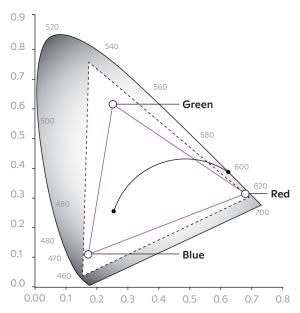
Beam Angle: 60° Very Wide Flood (VFL)

18 W	1100 Beam Dia 2.2	818
-		a.
2'	2.2	
	Z.Z),
4'	\ 4.3	<u>;</u>
6'	6.5	5'_
8'	8.6	;
10'	10.8	3'
tance From Ligh	t	_
0 205	411 616 821	
		80°
4		60°
/ 		40° 20°
	6' 8' 10' tance From Ligh	6' 6.5 8' 8.6 10' 10.8 tance From Light 0 205 411 616 821



WIDE GAMUT

CIE 1931 Color Chart



Ketra's Tunable LED S38 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.

S38 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 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.

Lighting System Capable of the Following Dimming Functionality:

- 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.
- Changing intensity while maintaining full color spectrum or CCT.
- 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).

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