

Rania S38 Lamp

PRODUCT DESCRIPTION

The Rania luminaire solution seamlessly integrates natural white PAR 38 lamps into both retrofit upgrades and new construction designs.

FEATURES

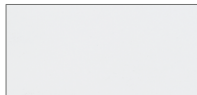
Exceptional White Light—Rania leverages a breakthrough three-channel solution, paired with proprietary optics and state of the art color mixing technology to deliver a wide CCT range and replicates natural white light more faithfully than any light source other than Ketra.

Natural Show—the lamp's wide color temperature range and native control enable it to participate in Lutron's Natural Show. Natural Show automatically adjusts the intensity and color temperature of the light over the course of the day. It can be used to bring the outside in by matching outdoor light—from the cool bright light at noon to the warm lower light in the evening.

TruBeam—produces uniform color across any available beam angle.



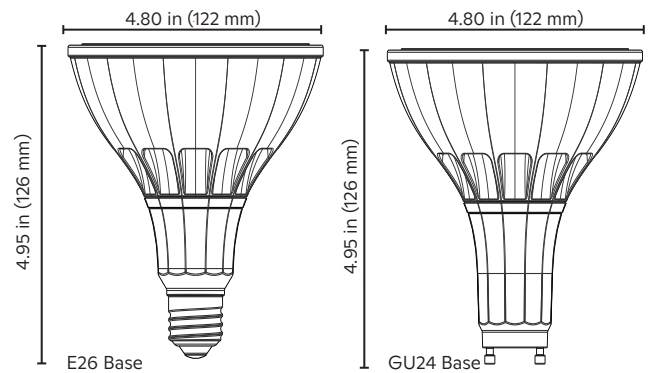
Finish



White



Black



SPECIFICATIONS¹

Optical Performance

Delivered Lumens ²	1000 lm
CRI (Ra) ²	>90 from 2700 K to 5000 K
R9 ²	>80
Lumen Maintenance ³	50,000 hours to L70 @ 25 °C TA
CCT Range	1800 K to 5500 K
Equivalent Traditional Lamp	75 W/ 100 W halogen PAR38
Dimming Protocol	Wireless RF / CCX (Lutron Clear Connect-Type X)
Dimming Range	0.1-100%

Environmental

Ambient Temperature	32 to 122 °F (0 to 50 °C)
Extended Ambient Temperature ⁴	-13 to 32 °F (-25 to 0 °C)
Humidity	0 - 95%, Non-condensing
Certification	UL, cUL, RoHS, FCC Class B
Location	UL Damp Location, IP20
Outdoor / Indoor ⁴	Outdoor use available for residential enclosed/covered patio applications only
Warranty	5 year fixture, LED, and dimming warranty

Mechanical ⁵

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

Electrical

Power consumption	14.3 W
Power Factor	>0.9
Current	120 mA Max
Efficacy	83 lm/W (at 4000 K)
Emergency Lighting	Evaluated by UL ⁶ for use in emergency lighting systems in accordance with standard UL ⁶ 924 and CSA C22.2 No. 141 when paired with the LVS™ model LUT-SHUNT-A-TD (UL ⁶ file E206507). ⁶

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

² Lumen and color characteristic measurements comply with IES LM-79-08 testing.

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

⁴ Color accuracy not guaranteed in Extended Ambient Temperature range in outdoor applications.

⁵ For lamp accessories, please refer to the S38 Accessories spec https://www.ketra.com/hubfs/2023%20Spec%20Sheet%20Updates/TA_S38_Spec_3662384.pdf#page=4

⁶ 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.

ORDERING GUIDE

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

	S38			GT		11		
Product Line	Model	LED Type / Lumens	Location	System	Beam Angle	Region/Voltage	Base	Housing Finish

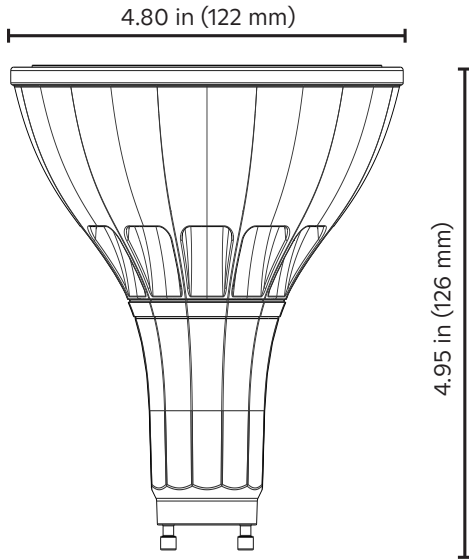
Order code: _____

Product Line	Code	Location	Code	Region/Voltage	Code
Commercial (Athena and myRoom XC compatible)	CM-	Indoor	I	North America, 120 V~ 60 Hz	11
Residential (HomeWorks compatible)	HW-	Outdoor (HomeWorks resi products only)	O	Base	
				E26	E26
				GU24	G24
Model		System			
S-Series Lamp	S38	CCX ³	GT	Housing Finish	
		Beam Angle		White	WH
LED Type / Lumens				Black	BK
Rania Wide Tunable White (1000 lm) ¹	TW	Spot (10°)	SP		
Rania Wide Tunable White High-Efficacy (1000 lm) ²	TH	Flood (25°)	FL		
		Wide Flood (40°)	WFL		
		Very Wide Flood (60°)	VFL		

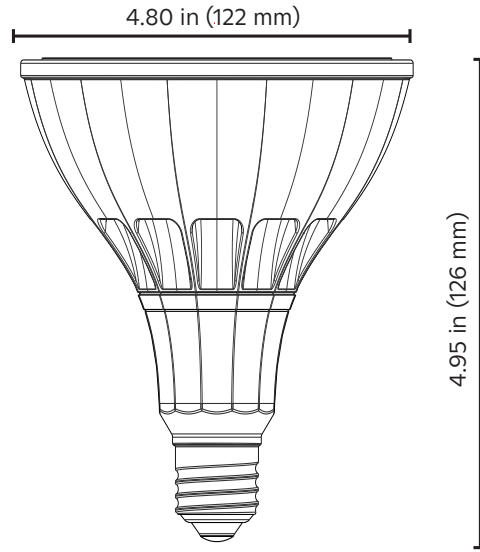
¹ This option is not available for sale in California.
² High-efficacy light sources are Title 20 and Title 24 JA8 compliant (tested at 4000 K).
³ CCX stands for Clear Connect-Type X.

PRODUCT DIMENSIONS

GU24 Base



E26 Base



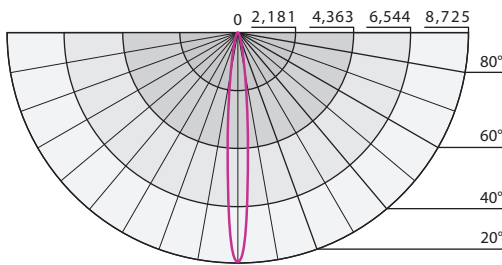
CAD files available upon request

PHOTOMETRIC DATA: 3000 K VALUES ONLY

Beam Angle: 10° Spot (SP)

Model Number ¹	Wattage	Delivered Lumens	CBCP
S38TWIGTSP11E26WH	14.3 W	1000	8725

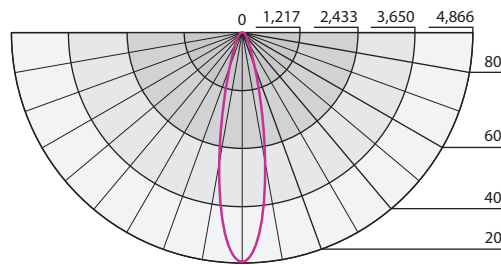
Foot-candles	Beam Dia.
2181	0.4 ft (0.12 m)
545	0.7 ft (0.21 m)
242	1.1 ft (0.34 m)
136	1.4 ft (0.43 m)
87	1.8 ft (0.55 m)



Beam Angle: 25° Flood (FL)

Model Number ¹	Wattage	Delivered Lumens	CBCP
S38TWIGTFL11E26WH	14.3 W	1000	4866

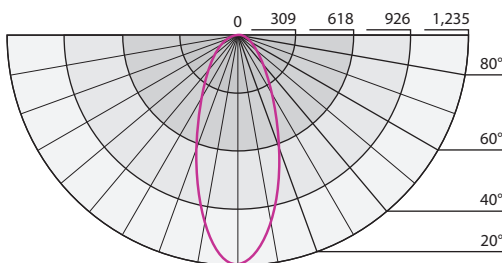
Foot-candles	Beam Dia.
1217	0.8 ft (0.24 m)
304	1.6 ft (0.49 m)
135	2.3 ft (0.70 m)
76	3.1 ft (0.95 m)
49	3.9 ft (1.19 m)



Beam Angle: 40° Wide Flood (WFL)

Model Number ¹	Wattage	Delivered Lumens	CBCP
S38TWIGTWFL11E26WH	14.3 W	1000	1235

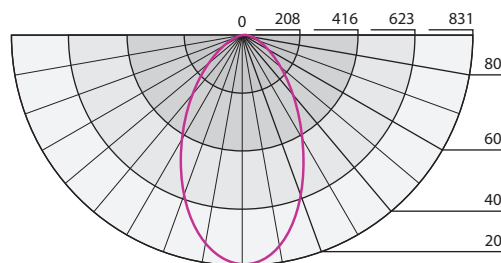
Foot-candles	Beam Dia.
309	1.4 ft (0.43 m)
77	2.9 ft (0.88 m)
34	4.3 ft (1.31 m)
19	5.8 ft (1.77 m)
12	7.2 ft (2.19 m)



Beam Angle: 60° Very Wide Flood (VFL)

Model Number ¹	Wattage	Delivered Lumens	CBCP
S38TWIGTVFL11E26WH	14.3 W	1000	831

Foot-candles	Beam Dia.
208	2.2 ft (0.67 m)
52	4.3 ft (1.31 m)
23	6.5 ft (1.98 m)
13	8.6 ft (2.62 m)
8	10.8 ft (3.29 m)



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

General Specifications

The Rania S38 lamp can easily be commissioned into Lutron HomeWorks, Athena, or myRoom XC systems.

Wireless Capability: The LED light source has an integrated wireless control.

Color Rendering Index (CRI): Capable of CRI greater than 90 at any point along the Black Body Curve from 2700 K to 5000 K.

Single Source Multi-Die Modular Emitter/LED Module Design: Employ a single source multi-die modular emitter/LED module consisting of LEDs binned to 3-step MacAdam ellipses.

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

Diagnostic reporting capability¹: Clear Connect-Type X (CCX) light sources provide diagnostics and built-in technology to check input voltage and wireless connectivity.

Limited Warranty: www.lutron.com/warranty or call 1.844.LUTRON1 (U.S.A./Canada) or +1.610.282.3800 (Others) for a printed copy.

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.

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

Color Point Range: Single light source capable of producing white light from 1800 K to 5500 K Correlated Color Temperature (CCT).

¹ For diagnostic support or more information, please contact Lighting Technical Support at lightingsupport@lutron.com or 1.844.LUTRON1 (1.844.588.7661).