Ketra A20 Lamp

PRODUCT DESCRIPTION

Ketra full-spectrum light source that delivers omni-directional or semi-directional beam patterns.



FEATURES

High Def Palette—covers a wide range of 16.7 million colors, including pastels, saturated colors and high CRI whites spanning from 1400 K to 10,000 K.

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.

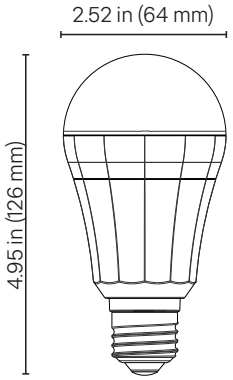
Color Lock—maintains your desired color point at a one-step MacAdam Ellipse across all Ketra product families and over each product's lifetime.

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.

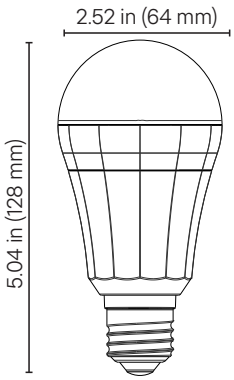
FINISH

White

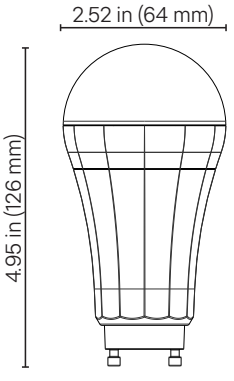
Black



E26 Base



E27 Base



GU24 Base

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SPECIFICATIONS[1]

Optical Performance

Delivered Lumens[2]	600 lm (omni-directional) 800 lm (semi-directional)
CRI (Ra)[3]	>90 (R9 >90)
Lumen Maintenance[3]	50,000 hours to L70 @ 25 ˚C Ambient
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 Lamp	40 W / 60 W Incandescent lamp
Dimming Protocol	Wireless RF / Lutron Clear Connect–Type X (CCX)
Dimming Range[4]	0.1-100%
Lumen Maintenance Code	9
Lamp Photometric Code	930/359
Survival Rate	100%

Mechanical

Weight	8.39 oz (234 g)
Housing Material	Powder Coated Aluminum, Polymer
Lens Material	Non-yellowing PMMA
Base Type	E26, GU24 (120 V∼) E27 (220-240 V∼)

Environmental

Ambient Temperature	32 to 122 ˚F (0 to 50 ˚C)
Extended Ambient Temperature[5]	-13 to 32 ˚F (-25 to 0 ˚C)
Humidity	0-95%, Non-condensing
Certification	UL, cUL, RoHS, FCC Class B, CE, UKCA, NOM, CRT
Location	UL Damp Location, IP20
Outdoor / Indoor[5]	Outdoor use available for residential enclosed/covered patio applications only
Warranty	www.lutron.com/warranty or call 1.844.LUTRON1 (U.S.A./Canada) or +1.610.282.3800 (others) for a printed copy.

Electrical

	120 V∼ 60 Hz	220-240 V∼ 50 Hz
Power consumption	A20.06 - 7.6 W (648 lm) A20.08 - 8.8 W (853 lm) A20.08 HE – 8.8 W (853 lm)	A20.06 - 8.0 W (600 lm) A20.08 - 8.0 W (850 lm)
Power Factor	>0.9	>0.9
Current	100 mA Max	40 mA Max
Efficacy	A20.06 - 85.3 lm/W A20.08 - 96.7 lm/W A20.08 HE – 96.7 lm/W	A20.06 - 75 lm/W A20.08 - 105 lm/W
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).[6]	Not applicable
Wiring	CCX devices require continuous power for optimal mesh performance and must be wired such that their power cannot be inadvertently or frequently interrupted. Bypass any dimmer or switch in between the breaker and the CCX device.	

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

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SPECIFICATIONS (cont.)

Communication: Clear Connect - Type X (CCX) Link

- Maximum of 100 CCX devices per wireless processor.
- All CCX devices associated with a wireless processor must be within 75 ft (23 m) of that processor.
- Depending on the geographical region, the system setup requirements in the table below need to be followed.

Specification	120 V~ Regions[1]	220-240 V~ Regions[2]
Maximum distance from wireless processor within where there must be at least two CCX devices	25 ft (7.6 m)	19.7 ft (6 m)
Maximum distance between CCX devices and two or more non-battery powered CCX devices	25 ft (7.6 m)	19.7 ft (6 m)
Maximum distance between groups or clusters of CCX devices	25 ft (7.6 m)	19.7 ft (6 m)

1 See Lutron Application Note #745 (P/N 048745) at www.lutron.com for more information.
2 See Lutron Application Note #842 (P/N 048842) at www.lutron.com/europe for more information.

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ORDERING GUIDE

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

CM-	A20	06	I	GT	OD	11	E26	WH
Product	Model	Lumens	Location	System	Beam Angle	Region/Voltage	Base	Housing Finish

Order code: CM-A200611GTI11GTOD

Product	Code
Commercial (Athena and myRoom XC compatible)	CM-
Residential (HomeWorks compatible)	HW-

Model	
A-Series Lamp	A20

Lumens	
600 (Omni-Directional only)[1]	06
800 (Semi-Directional only)[1]	08
800 (Semi-Directional only) High-Efficacy[2,3]	08H

Location	Code
Indoor	I
Outdoor (HomeWorks resi products only)[4]	O

System	
CCX[5]	GT
CCX, ETSI Compliant[5,6]	ET

Beam Angle	
Omni-Directional	OD
Semi-Directional	SD

Region/Voltage	
120 V⁓ 60 Hz	11
220-240 V⁓ 50 Hz[6]	24

Base	Code
E26 (120 V⁓)	E26
GU24 (120 V⁓)	G24
E27 (220-240 V⁓)[6]	E27

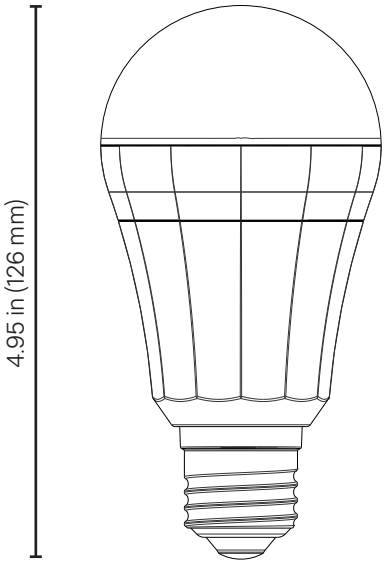
Housing Finish	
White	WH
Black	BK

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 For residential enclosed/covered patio outdoor applications only. More details are available in the Environmental section of the Specifications page.
5 CCX stands for Clear Connect-Type X.
6 System ET, Region Code 24, and E27 Base are mutually exclusive configurations for lamps sold to 220-240 V⁓ regions.

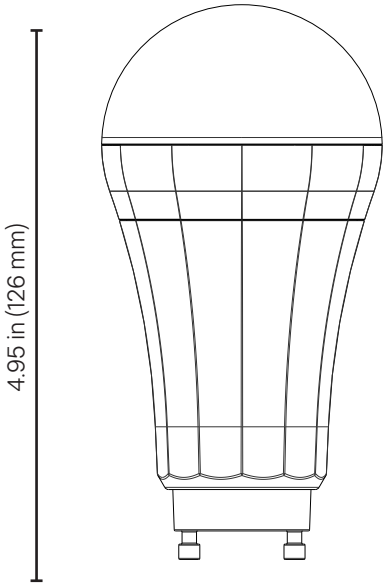
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PRODUCT DIMENSIONS

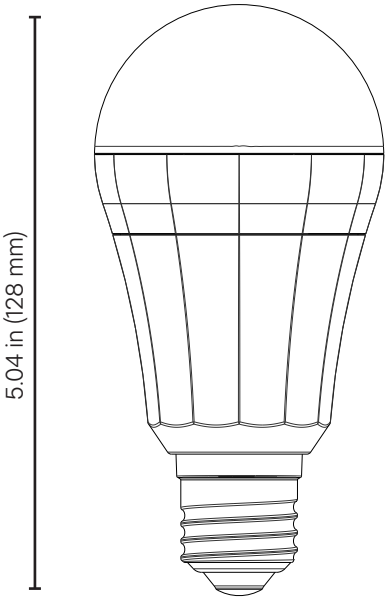
E26 BASE (120 V~)



GU24 BASE (120 V~)



E27 BASE (220-240 V~)

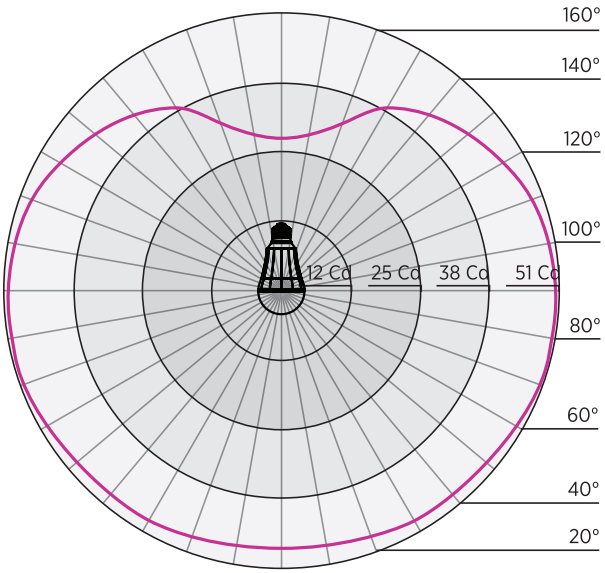


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PHOTOMETRIC DATA: 2700 - 5000K VALUES ONLY

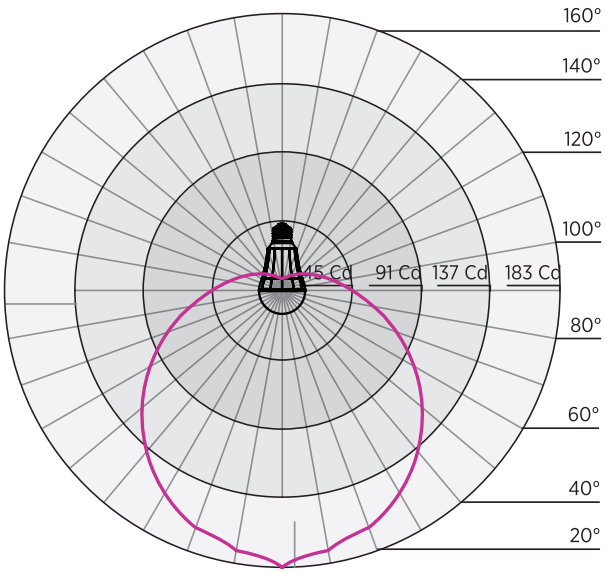
A20 - Omni-Directional

Model Number	Wattage	Delivered Lumens	Max Cd
A20.06.OD	8 W	600	51



A20 - Semi-Directional

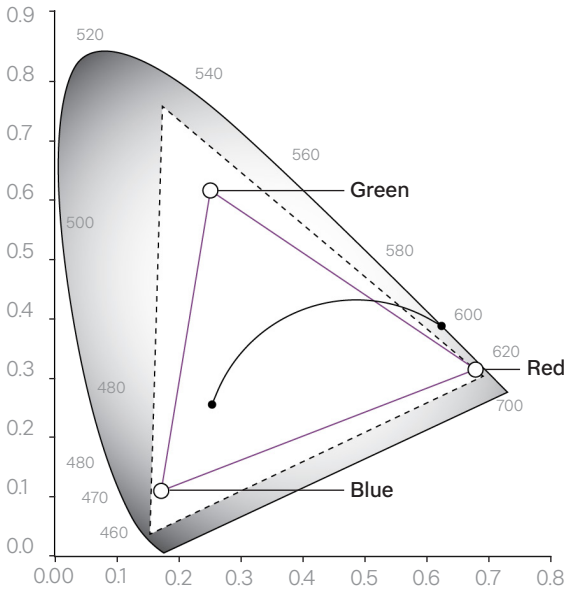
Model Number	Wattage	Delivered Lumens	Max Cd
A20.08.SD	9 W	800	183



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WIDE GAMUT

CIE 1931 Color Chart



Ketra's A20 tunable lamp can easily be commissioned into Lutron HomeWorks, Athena, or myRoom XC systems. The product can reproduce any color point within the triangle shaped gamut indicated in the chart to the left. With Ketra's Color Lock tool, 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 lock not guaranteed such that each product produces the most saturated color of which it is capable.

A20 GENERAL SPECIFICATIONS

Color Point Maintenance[1]: 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 2700 K to 5000 K.

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

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

Diagnostic Reporting Capability[2]: Clear Connect-Type X (CCX) light sources provide diagnostics and built-in technology to check input voltage and wireless connectivity

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:

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 1400 K to 10,000 K Correlated Color Temperature (CCT).

1 Color point maintenance not guaranteed in the expanded gamut or while operating at ambient temperatures between -13 to 32 ˚F (-25 to 0 ˚C).
2 For diagnostics support or more information, please contact Lighting Technical Support at lightingsupport@lutron.com or 1.844.LUTRON1 (1.844.588.7661).

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