

# KETRA

## G2 HIGH OUTPUT LINEAR ACCENT

Type: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_



High performance cove, graze and wash applications

Tunable spectrum single point source produces wide range of white, pastels & saturated colors

Closed-loop color point maintenance to <1 MacAdam ellipse over lifetime and temperature

Programmable digital dimming to 0.1%

Connects with Ketra's N3 Satellite for power, wireless control and connection to Ketra's library of light content

Ketra's technology ensures consistent appearance and guaranteed compatibility over LED technology generations

Integrated on-board power supply does not require remote transformer

Infinitely adjustable, 180° rotation, constant torque hinge does not require locking but includes optional locking screw

Excellent near-field color mixing

### HARDWARE ORDERING GUIDE

<input type="text"/>								
Product Line	G2	12	Lumens	BT	Beam Angle	Region & Voltage	A	WH
	Model	Length		Platform & Control			Interface	Housing Color

Order Code:

Product Line	Code	Platform & Control (see page 5 color chart)	Code	Region & Voltage	Code
Commercial	<b>CM-</b>	Wide Gamut, Tunable	<b>BT</b>	North America, 120VAC 60Hz	<b>11</b>
Residential (Homeworks compatible)	<b>HW-</b>			North America, 277VAC 60Hz	<b>12</b>
Model		Beam Angle		Interface	
G Series 12" Linear Accent	<b>G2</b>	Graze (10 X 60°)	<b>GR</b>	Leader Cable	<b>A</b>
Length		Narrow Flood (30 X 45°)	<b>NFL</b>	Housing Color	
1 foot (12 inch)	<b>12</b>	Flood (60 X 60°)	<b>FL</b>	White	<b>WH</b>
		Wide Flood (120 X 120°)	<b>WFL</b>		
Lumens					
1000	<b>10</b>				
700	<b>07</b>				
400	<b>04</b>				

770-000003-01 r46

Specifications are subject to change without notice

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

#### OPTICAL PERFORMANCE

Lumen Output <sup>2</sup>	G2.10 1000lm/ft, G2.07 700lm/ft, G2.04 400lm/ft
CRI (Ra) <sup>3</sup>	>90
Lumen Maintenance <sup>3</sup>	50,000 hours to L70 @ 25°C Ambient
Color Spatial Uniformity	<2 MacAdam ellipses across field angle
Color Point Maintenance	<1 MacAdam ellipse over product lifetime
Beam Angles	10x60° 30x45° 60x60° 120x120°
Dimming Range <sup>5</sup>	0.1-100% lm output

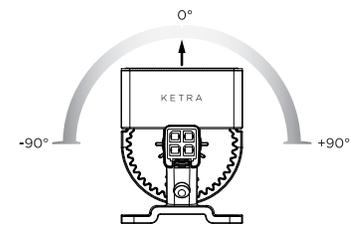
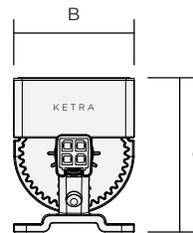
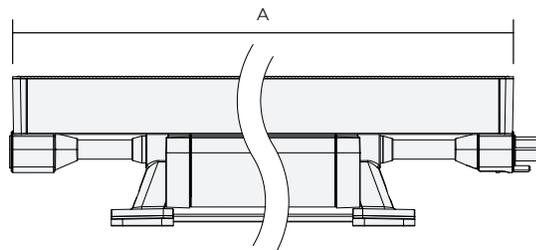
#### ENVIRONMENTAL

Ambient Operating Temperature	-20 - 50°C
Storage Temperature	-20 - 80°C
Humidity	0 - 95%, Non-condensing
Certification	UL, cUL, RoHS
Location	UL Damp Location, IP20

#### FORM FACTOR

Dimensions:

Beam Angle	Dim A	Dim B	Dim C
Wide Flood	12", 305 mm	2", 50.8 mm	2.5", 63.5 mm
Flood			2.5", 63.5 mm
Narrow Flood			2.65", 67 mm
Graze			3.1", 78.7 mm
Rotation	Infinite adjustment through 180°		



#### MECHANICAL

Weight (12")	1.35 lbs, 600 g
Housing Material	Powder Coated Aluminum, Polymer
Lens Material	Non-yellowing heat/UV stabilized PMMA

#### ELECTRICAL

Power Consumption	120V	277V
	G2.10 17W/ft TYP, G2.07 11.5W/ft TYP, G2.04 8W/ft TYP	G2.10 15.5W/ft TYP, G2.07 11W/ft TYP, G2.04 7.7W/ft TYP
Power Factor	>0.9	>0.9
Current	120V	277V
	G2.10 0.14 A G2.07 0.10 A G2.04 0.07 A	G2.10 0.06 A G2.07 0.04 A G2.04 0.03 A
Efficacy	120V	277V
	G2.10 58.8lm/W TYP, G2.07 60.9lm/W TYP, G2.04 50lm/W TYP	G2.10 64.5lm/W TYP, G2.07 60.9lm/W TYP, G2.04 51.9lm/W TYP
Max. Qty of Fixtures Per N3		40
Max Total Run Length, including cable, Per N3		100ft
Input voltage		120 VAC 60Hz, 277 VAC 60Hz +/- 10%
Total Harmonic Distortion (THD)		< 5%

<sup>1</sup> All performance measurements taken with fixture stabilized at 25°C ambient, 100% power input, unless otherwise stated, within CCT range of 2700 - 5000K.

<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.

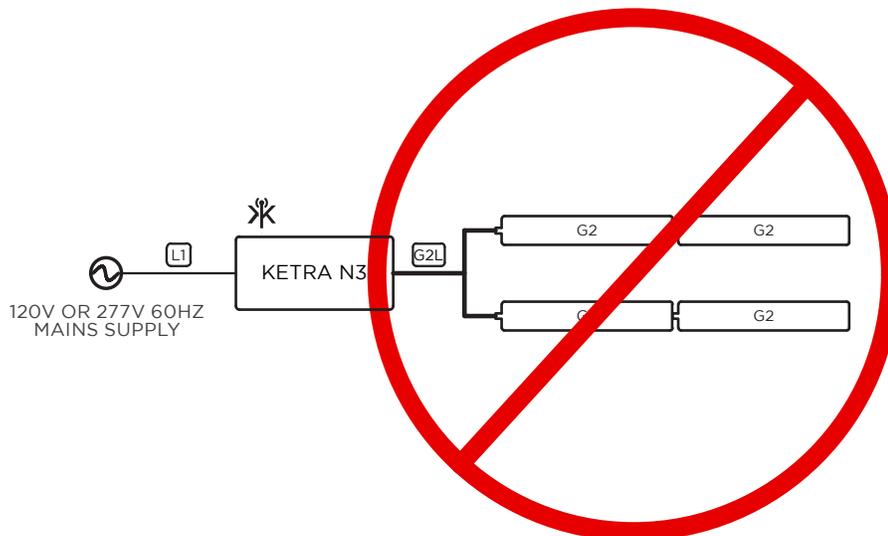
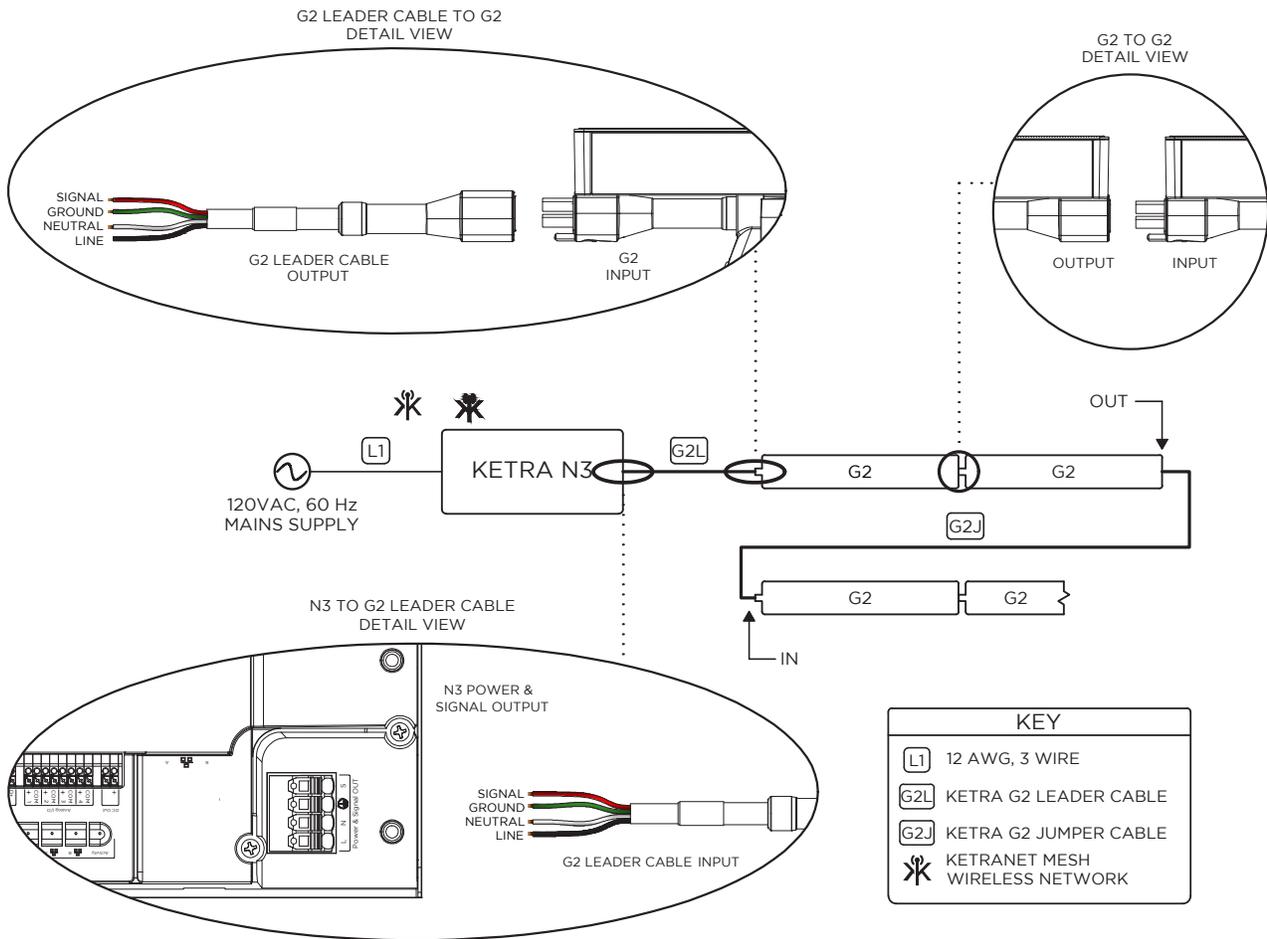
### ACCESSORIES

Leader 50', White (with Terminator)	UN-G2L6001CWH
Leader 50', Black (with Terminator)	UN-G2L6001CBK
Leader 10', White (with Terminator)	UN-G2L1201CWH
Leader 10', Black (with Terminator)	UN-G2L1201CBK
Lead Out 10', White	UN-G2LO1201CWH
Lead Out 10', Black	UN-G2LO1201CBK
Jumper 1', White	UN-G2J0121CWH
Jumper 1', Black	UN-G2J0121CBK
Jumper 5', White	UN-G2J0601CWH
Jumper 5', Black	UN-G2J0601CBK
Jumper 10', White	UN-G2J1201CWH
Jumper 10', Black	UN-G2J1201CBK
Jumper 25', White	UN-G2J3001CWH
Jumper 25', Black	UN-G2J3001CBK
Terminator (Optional Replacement)	UN-G2TC
G2 Hex Louver, 45°, White (NFL, FL, WFL)	UN-G212HLST45WH
G2 Hex Louver, 45°, Black (NFL, FL, WFL)	UN-G212HLST45BK
G2 Hex Louver 45°, White (GRAZE)	UN-G212HLGR45WH
G2 Hex Louver 45°, Black (GRAZE)	UN-G212HLGR45BK
G2 Hex Louver 65°, White (NFL, FL, WFL)	UN-G212HLST65WH
G2 Hex Louver 65°, Black (NFL, FL, WFL)	UN-G212HLST65BK
G2 Hex Louver 65°, White (GRAZE)	UN-G212HLGR65WH
G2 Hex Louver 65°, Black (GRAZE)	UN-G212HLGR65BK
G2 Alignment Track	UN-G2TRKZP48
N3 Satellite, Recessed Rated Housing, Commercial	CM-N3IND16RECBK
N3 Satellite, Recessed Rated Housing, Residential (HomeWorks)	HW-N3IND16RECBK
N3 Satellite, Plenum Rated Housing, Commercial	CM-N3IND16PLEBK
N3 Satellite, Plenum Rated Housing, Residential (HomeWorks)	HW-N3IND16PLEBK

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### EXAMPLE WIRING DIAGRAM



STAR TOPOLOGIES ARE NOT SUPPORTED

### DIAGNOSTIC REPORTING

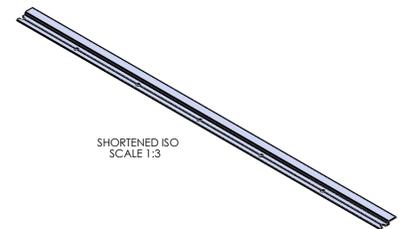
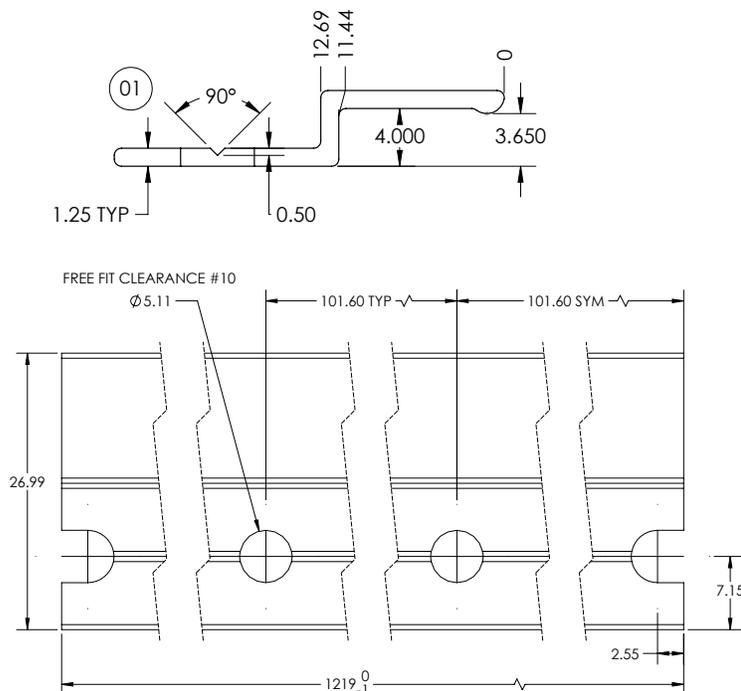
Prior to commissioning in Design Studio, Ketra's G2 Linear should power on to a default white state. If it powers on to some other color, that means there is a problem in the installation conditions. See the table below for each color's meaning.

Color	Condition	Correction
Red	Low input voltage on the power line	Ensure that the input voltage is 120V or 277V, + or - 10%
Magenta	Signaling wire connection not detected	Cut power and reconnect the red conductor of the leader cable to the N3's "S" port
Red-Green-Blue Pattern	Line and neutral wiring switched	Cut power, and reverse line and neutral wiring
Red-Green Pattern*	Line and neutral wiring switched	Cut power, and reverse line and neutral wiring
Yellow	Multiple runs of G2 detected	Cut power and disconnect all but one run of G2. Only one run can be connected to a satellite
Turquoise	More than 40 G2 detected	Remove the turquoise linears and reboot the satellite
Green	More than 100ft run length detected (including cables and fixtures)	Remove excess cabling and/or fixtures, and reboot the satellite
Dark Blue		

\* for product ordered in 2019

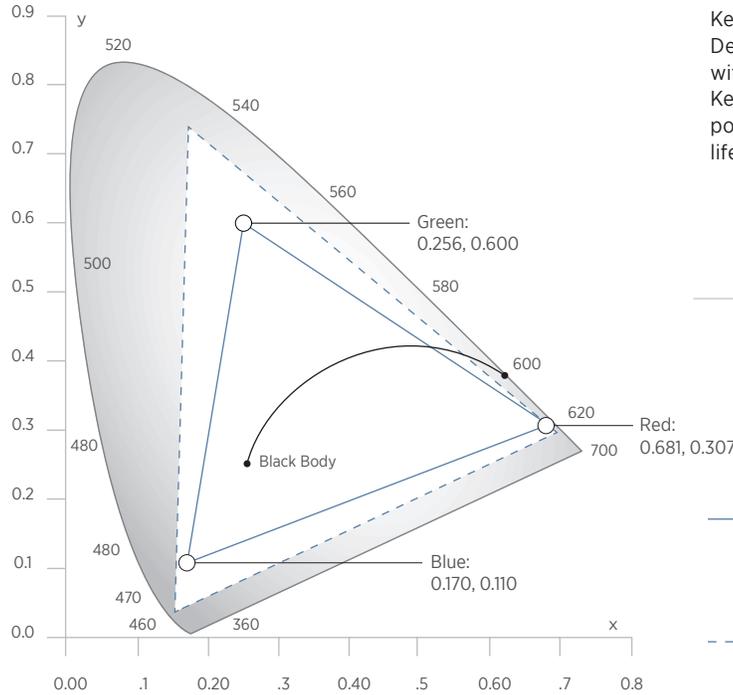
### G2 ALIGNMENT TRACK - G2TRKZP48

Note: All alignment track measurements are shown in mm.



### WIDE GAMUT

CIE 1931 Color Chart



Ketra's G2 Linear Accent 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 below. 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 Luminaire shall employ closed loop optical and thermal feedback capable of maintaining color point accuracy of <1 MacAdam ellipse.

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

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

LED Luminaire shall be a single source multi-die emitter.

LED Luminaire shall be sealed, meeting UL damp location and IP20 requirements.

LED Luminaire shall be dimmable to 0.1% of measured luminous flux with digital dimming.

LED Luminaire shall be UL listed and RoHS compliant.

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

LED Luminaire lamp shall be # \_\_\_\_\_