

KETRA

G2 HIGH OUTPUT LINEAR ACCENT

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

<u>G2</u>	<u>12</u>	<u></u>	<u>B</u>	<u>T</u>	<u></u>	<u></u>	<u>A</u>	<u></u>
Model	Length	Lumens	Platform	Control	Beam Angle	Region/ Voltage	Interface	Housing Color
Code			Code			Code		
Model			Platform (see page 5 color chart)			Region/ Voltage		
G Series 12" Linear Accent			Wide Gamut			North America, 120VAC 60Hz		
G2			B			11		
North America, 277VAC 60Hz						12		
Length			Control			Interface		
1 foot (12 inch)			Tunable			Leader Cable		
12			T			A		
Lumens			Beam Angle			Housing Color		
1000			Graze (10 X 60°)			White		
10			GR			WH		
700			Narrow Flood (30 X 45°)			Black		
07			NFL			BK		
400			Flood (60 X 60°)					
04			FL					
			Wide Flood (120 X 120°)					
			WFL					

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Specifications are subject to change without notice

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SPECIFICATIONS¹

OPTICAL PERFORMANCE

Lumen Output ²	G2.10 1000lm/ft, G2.07 700lm/ft, G2.04 400lm/ft
CRI (Ra) ³	>90
Lumen Maintenance ³	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 ⁵	0.1-100% lm output

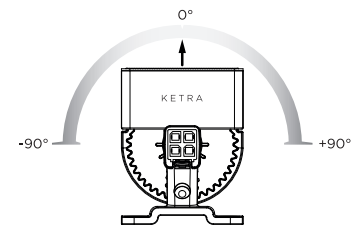
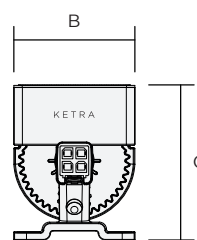
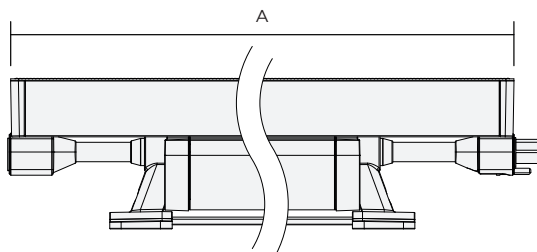
ENVIRONMENTAL

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%

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

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.

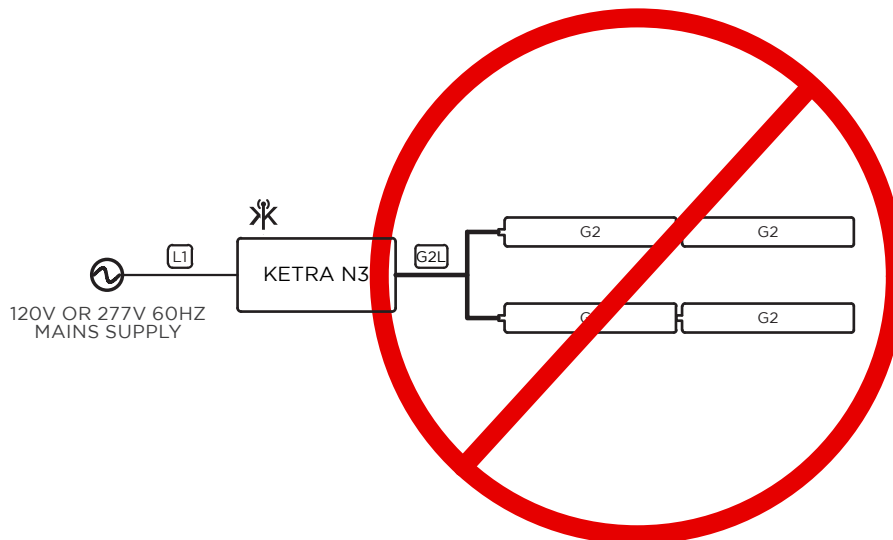
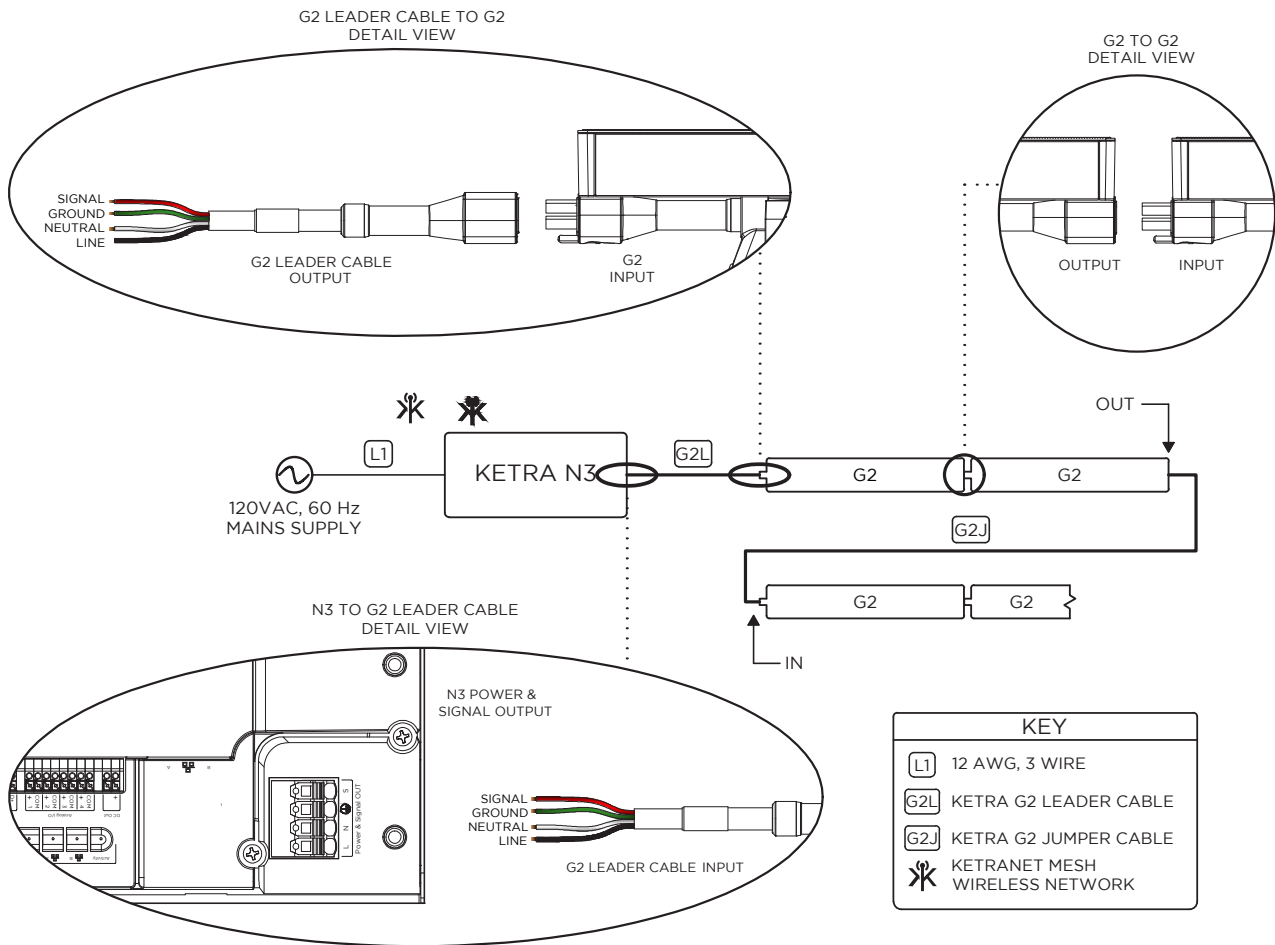
ACCESSORIES

Leader 50', White (with Terminator)	G2L6001CWH
Leader 50', Black (with Terminator)	G2L6001CBK
Leader 10', White (with Terminator)	G2L1201CWH
Leader 10', Black (with Terminator)	G2L1201CBK
Lead Out 10', White	G2LO1201CWH
Lead Out 10', Black	G2LO1201CBK
Jumper 1', White	G2J0121CWH
Jumper 1', Black	G2J0121CBK
Jumper 5', White	G2J0601CWH
Jumper 5', Black	G2J0601CBK
Jumper 10', White	G2J1201CWH
Jumper 10', Black	G2J1201CBK
Jumper 25', White	G2J13001CWH
Jumper 25', Black	G2J3001CBK
Terminator (Optional Replacement)	G2TC
G2 Hex Louver, 45°, White (NFL, FL, WFL)	G212AHEXLUVST45WH
G2 Hex Louver, 45°, Black (NFL, FL, WFL)	G212AHEXLUVST45BK
G2 Hex Louver 45°, White (GRAZE)	G212AHEXLUVGR45WH
G2 Hex Louver 45°, Black (GRAZE)	G212AHEXLUVGR45BK
G2 Hex Louver 65°, White (NFL, FL, WFL)	G212AHEXLUVST65WH
G2 Hex Louver 65°, Black (NFL, FL, WFL)	G212AHEXLUVST65BK
G2 Hex Louver 65°, White (GRAZE)	G212AHEXLUVGR65WH
G2 Hex Louver 65°, Black (GRAZE)	G212AHEXLUVGR65BK
G2 Alignment Track	G2TRKZP48
N3 Satellite, Recessed Rated Housing	N3IND16RECBK
N3 Satellite, Plenum Rated Housing	N3IND16PLEBK

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EXAMPLE WIRING DIAGRAM



STAR TOPOLOGIES ARE NOT SUPPORTED

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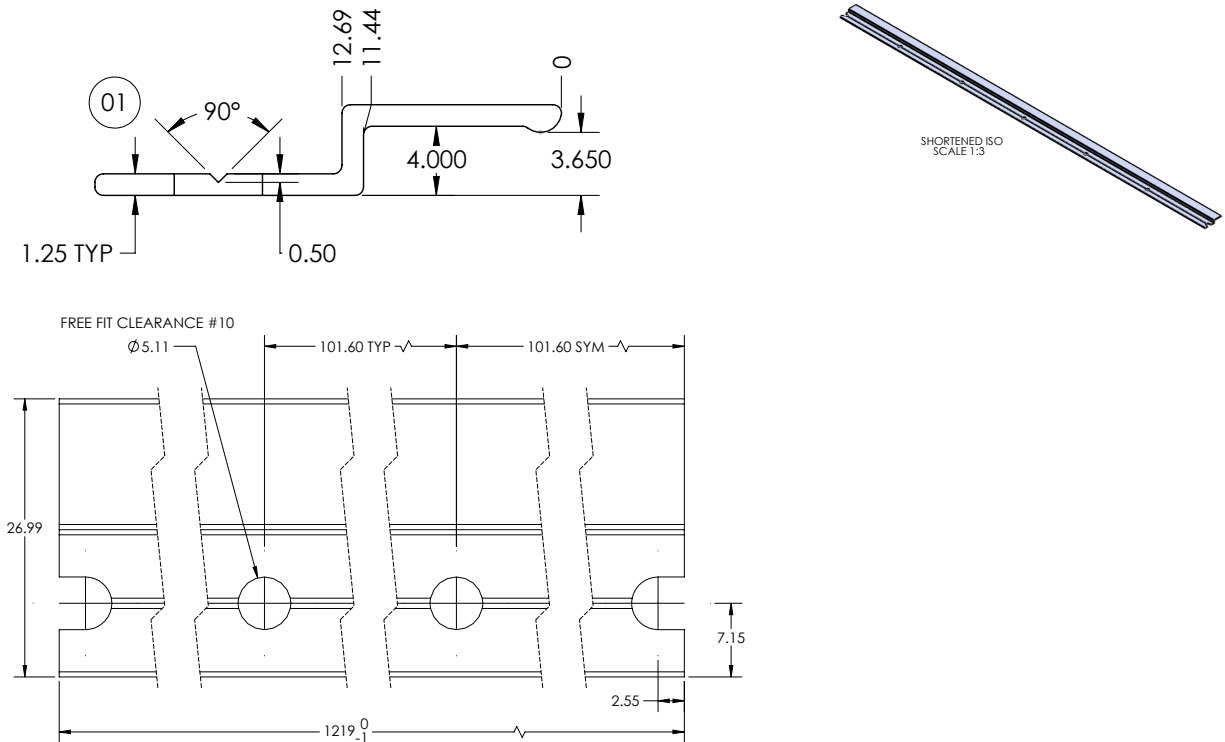
DIAGNOSTIC REPORTING

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
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	Error during G2 discovery	An unexpected error occurred; please contact Ketra Support
Dark Blue		

G2 ALIGNMENT TRACK - G2TRKZP48

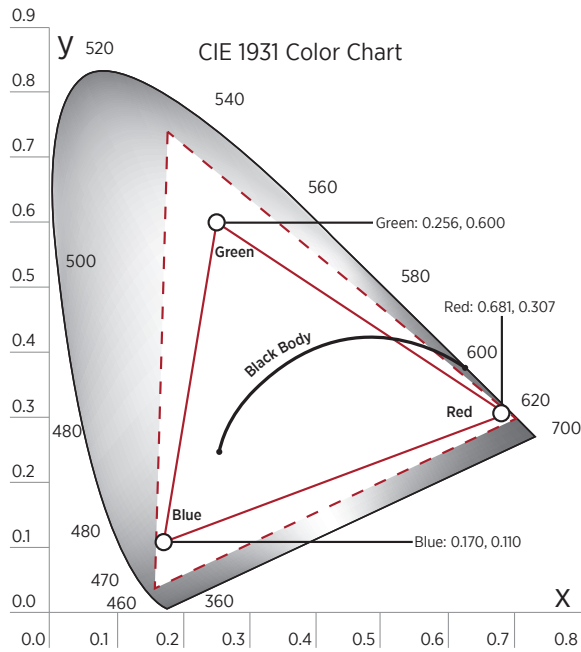
Note: All alignment track measurements are shown in mm.



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WIDE GAMUT



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 # _____