# KETRA L4R LINEAR RECESSED

Project:	
Comments:	
repared Bv:	



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High performance 4" wide linear recessed fixture

End to end connections allowing for straight continuous lines of light

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

Programmable digital dimming to 0.1%

HARDWARE ORDERING GUIDE

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

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

#### L4R FO PR1 ΒT Configuration Length Model Lumens/ft Platform/ Lens Region/ Hanging Housing Control Option Voltage Style Color Code Code Code Region and Voltage Configuration Model Linear 4" Wide Recessed L4R North America, Standard PR1 11 120VAC 60Hz North America, 12 277VAC 60Hz Lumens/ft Length 04 Continuous Length Available 400 Lumens ---Hanging Style 600 Lumens 06 2' NOM 0002 Flanged, T-Grid FTG 800 Lumens 08 3' NOM 0003 Flanged, Threaded Rod FTR 1000 Lumens 10 4' NOM 0004 Flangeless, Aircraft Cable NAC 6' NOM 0006 Flangeless, NTR 0008 8' NOM Threaded Rod Platform & Control 10' NOM 0010 Flangeless, Wide Gamut, Tunable BT NEB External Mounting Bracket 0012 12' NOM Housing Color Lens Option Flush Opal Lens FO White WН Black ΒK

# SPECIFICATIONS<sup>1</sup> OPTICAL & ELECTRICAL PERFORMANCE

Delivered Lumen Output <sup>2</sup>	L4R.04 L4R.06 L4R.08 L4R.10	400lm/ft 600lm/ft 800lm/ft 1000lm/ft	
CRI (Ra) <sup>3</sup>	>90 (R9 >90)		
Lumen Maintenance <sup>3</sup>	50,000 hours to	L70 @ 25°C TA	
Color Spatial Uniformity	<2 MacAdam elli field angle	pses across	
Color Point Range⁴	1400-10000K, Pastel and Satur	ate colors	
Dimming Range⁴	0.1-100% lm		
Power Consumption	L4R.04 L4R.06 L4R.08 L4R.10	7.7W/ft 10W/ft 12.4W/ft 15.5W/ft	
Voltage	120VAC 60Hz, 277VAC 60Hz		
Power Factor	>0.9		
Current	82 mA Max		
Delivered Efficacy	L4R.04 L4R.06 L4R.08 L4R.10	51.9lm/W 60lm/W 64.5lm/W 64.5lm/W	
Surge Protection	2.5KV		
Control Protocol	KetraNet PLC via	N3	

#### **ENVIRONMENTAL**

Operating Temperature⁵	0 to 50°C
Storage Temperature	-20 - 80°C
Humidity	0 - 95%, Non-condensing
Certification	UL, cUL, RoHS, FCC Class B
Location	UL Damp Location, IP20

#### MECHANICAL

Weight	3.7bs/ft, 1.7kg/ft
Housing Material	Powder Coated Aluminum, Corrosion Protected Steel
Lens Material	UL F1 outdoor rating for UV and water contact PMMA

### PRODUCT DRAWINGS

FLANGED HOUSING





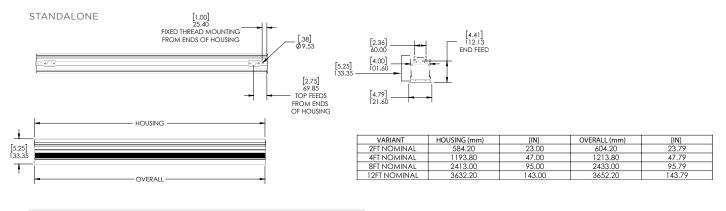
1 All performance measurements taken at 3000K, 25°C ambient, 100% power input, unless otherwise stated.

 $_{\rm 2}$  Lumen measurement complies with IES LM-79-08 testing procedures.

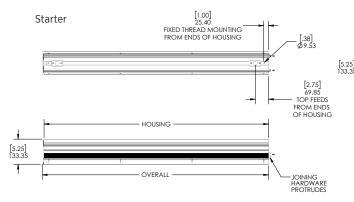
3 Lumen maintenance values calculated in accordance to TM-21 procedures based on LM-80 compliant measurement data.

<sup>4</sup> Intensity and color point controlled via Ketra's wireless network

# PRODUCT DIMENSIONS - FLANGED, T-GRID

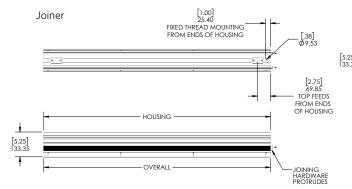


CONTINUOUS RUNS



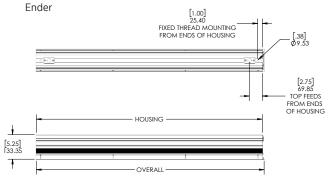
5] 35 —		[4.41] 112.13 END FEED -	
	[4.79] 121.60		

	VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]
Γ	2FT NOMINAL	584.20	23.00	604.20	23.79
	4FT NOMINAL	1193.80	47.00	1213.80	47.79
Γ	8FT NOMINAL	2413.00	95.00	2433.00	95.79
Г	12FT NOMINAL	3632.20	143.00	3652.20	143.79



25] .35 –	[2.36] 60.00 [4.00] 101.60	
.55 -	[4.79]	

VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]
2FT NOMINAL	609.60	24.00	609.60	24.00
3FT NOMINAL	914.40	36.00	914.40	36.00
4FT NOMINAL	1219.20	48.00	1219.20	48.00
6FT NOMINAL	1828.80	72.00	1828.80	72.00
8FT NOMINAL	2438.40	96.00	2438.40	96.00
10FT NOMINAL	3048.00	120.00	3048.00	120.00
12FT NOMINAL	3657.60	144.00	3657.60	144.00



	[2.36] [4.41] 60.00 112.13 [4.60] [107] END FEED	
[5.25] 133.35 –	[4.00]	
	[4.79]	

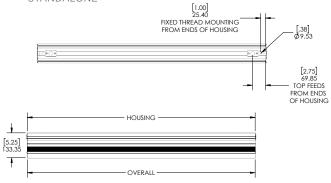
HOUSING

		-	-	
VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]
2FT NOMINAL	609.60	24.00	619.60	24.39
3FT NOMINAL	914.40	36.00	924.40	36.39
4FT NOMINAL	1219.20	48.00	1229.20	48.39
6FT NOMINAL	1828.80	72.00	1838.80	72.39
8FT NOMINAL	2438.40	96.00	2448.40	96.39
10FT NOMINAL	3048.00	120.00	3058.00	120.39
12FT NOMINAL	3657.60	144.00	3667.60	144.39

CAD files available upon request

# PRODUCT DIMENSIONS - FLANGELESS

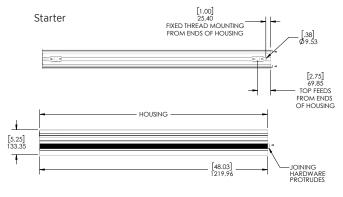


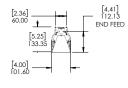


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[5.25]	
[4.00]	L

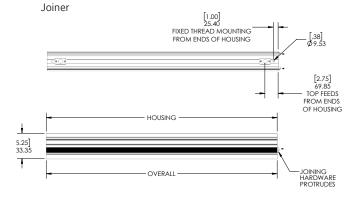
VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]	WEIGHT
2FT NOMINAL	609.60	24.00	611.12	24.06	8lbs
3FT NOMINAL	914.40	36.00	915.92	36.06	12lbs
4FT NOMINAL	1219.20	48.00	1220.72	48.06	16lbs
6FT NOMINAL	1828.80	72.00	1830.32	72.06	23lbs
8FT NOMINAL	2438.40	96.00	2439.92	96.06	31lbs
10FT NOMINAL	3048.00	120.00	3049.52	120.06	39lbs
12FT NOMINAL	3657.60	144.00	3659.12	144.06	46lbs

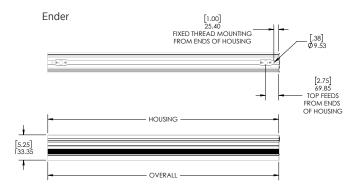
CONTINUOUS RUNS





VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]	WEIGHT
2FT NOMINAL	609.60	24.00	610.36	24.03	8lbs
3FT NOMINAL	914.40	36.00	915.16	36.03	12lbs
4FT NOMINAL	1219.20	48.00	1219.96	48.03	16lbs
6FT NOMINAL	1828.80	72.00	1829.56	72.03	23lbs
8FT NOMINAL	2438.40	96.00	2439.16	96.03	31lbs
10FT NOMINAL	3048.00	120.00	3048.76	120.03	39lbs
12FT NOMINAL	3657.60	144.00	3658.36	144.03	46lbs





CAD files available upon request

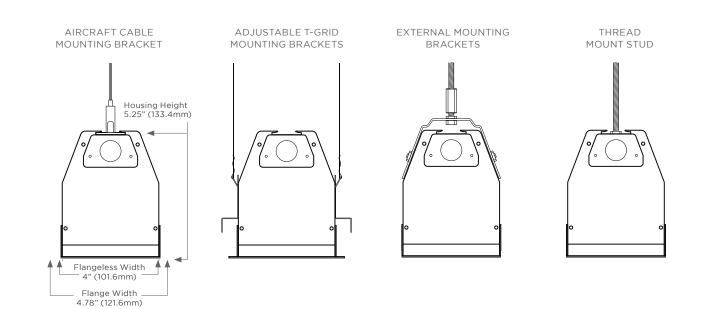
[2.36] 60.00 [5.25] 133.35 [4.00] 101.60

VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]	WEIGHT
2FT NOMINAL	609.60	24.00	609.60	24.00	8lbs
3FT NOMINAL	914.40	36.00	914.40	36.00	12lbs
4FT NOMINAL	1219.20	48.00	1219.20	48.00	16lbs
6FT NOMINAL	1828.80	72.00	1828.80	72.00	23lbs
8FT NOMINAL	2438.40	96.00	2438.40	96.00	31lbs
10FT NOMINAL	3048.00	120.00	3048.00	120.00	39lbs
12FT NOMINAL	3657.60	144.00	3657.60	144.00	46lbs

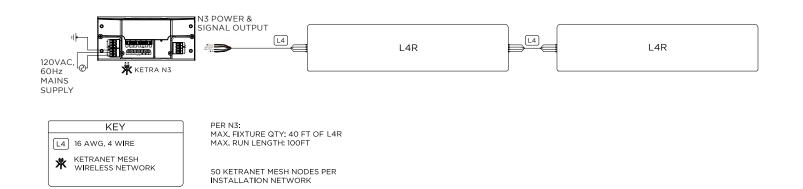
[2.36] 60.00	[4.41] 112.13 END FEED
[5.25] 133.35	1
[4.00]	_

VARIANT	HOUSING (mm)	[IN]	OVERALL (mm)	[IN]	WEIGHT
2FT NOMINAL	609.60	24.00	610.36	24.03	8lbs
3FT NOMINAL	914.40	36.00	915.16	36.03	12lbs
4FT NOMINAL	1219.20	48.00	1219.96	48.03	16lbs
6FT NOMINAL	1828.80	72.00	1829.56	72.03	23lbs
8FT NOMINAL	2438.40	96.00	2439.16	96.03	31lbs
10FT NOMINAL	3048.00	120.00	3048.76	120.03	39lbs
12FT NOMINAL	3657.60	144.00	3658.36	144.03	46lbs

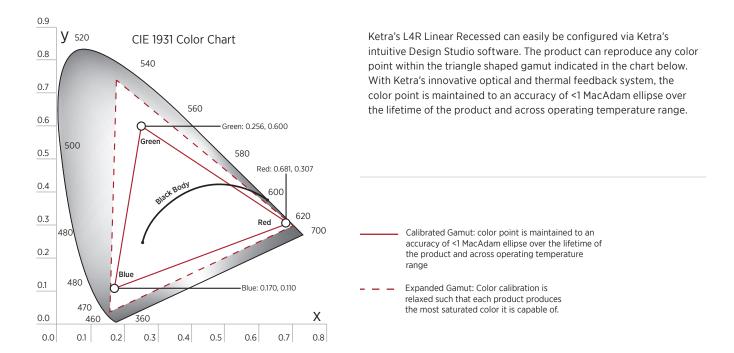
# MOUNTING OPTIONS



WIRING DIAGRAMS



#### WIDE GAMUT



#### GENERAL SPECIFICATIONS

LED linear shall employ closed loop optical and thermal feedback capable of maintaining color point accuracy of <1 MacAdam ellipse.

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

LED linear shall have an integrated wireless control onboard.

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

LED linear shall be a single source multi-die emitter consisting of both monochromatic and phosphor converted blue LED dye.

LED linear shall be sealed, meeting UL damp location requirements.

LED linear shall be dimmable to 0.1% of measured luminous flux with wireless dimming.

LED linear shall be UL listed and RoHS compliant.

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

Ketra's LED L4R linear 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.

LED Linear shall be # \_\_\_\_\_