

Linear

LINI-R XL R020

Fixture Guide

KKDC

Indoor | Recessed | Output up to 731lm/m (223lm/ft)

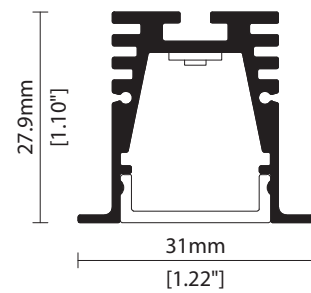


Key applications

- ✓ Architectural detail
- ✓ Ceiling
- ✓ Direct lighting
- ✓ Downlighting
- ✓ Interior

Key features

- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ IP40 dry area



Linear

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Specification sheet



Dimensions	H27.9/W31/L99-2016mm (H1.1/W1.22/L3.89-79.37in) (excluding spring clips)
PCB Cut-point	41.7mm increment/2000mm max (1.64in increment/78.74in max)
LED Pitch	6.95mm-144LED/m (0.27in - 44LED/ft)
Chip	s-line k-line
Cover/Optics	Diffused (110°)
CCT	s-line: 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K k-line: 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
LED binning	s-line: 2-step MacAdam ellipse k-line: 3-step MacAdam ellipse
CRI	≥94
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 50°C (T _c max = 70°C) T _a = -13 to 122°F (T _c max = 158°F)
IP Rating	IP40
Finish	Silver anodised
Mounting	Recessed mounting via spring clip
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

s s-line*	*KKDC tuned CCT range
2-step CCT range	

Base Grade

k k-line	3-step commercial range
	Energy Star CCTs

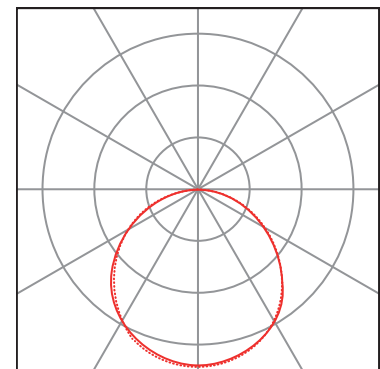
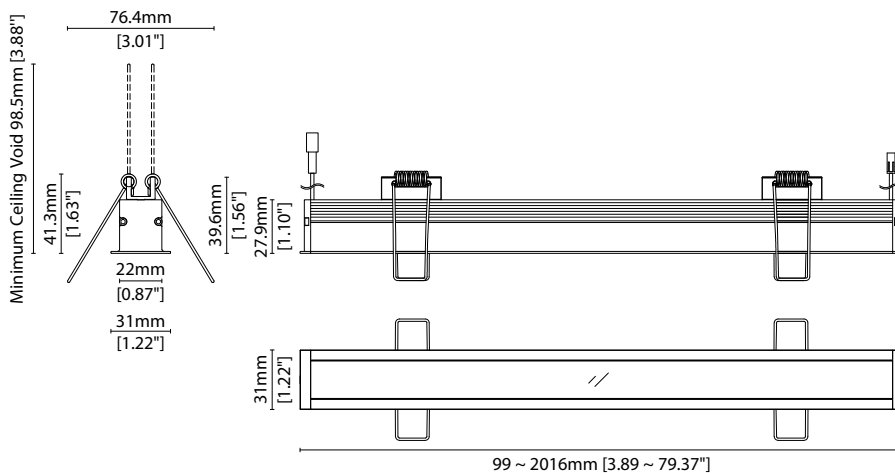
Power consumption	Supply voltage	Supply current
20W/m (6.10W/ft)	24V DC	0.83A/m (0.25A/ft)

Performance Data (3000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	96	98	98	93	95	96	93	87	72	94	93	77	97	99

Diffused Cover

												CRI	R9	Rf	Rg
s-line	731lm/m (223lm/ft)											95	73	-	-
	36.6lm/W														
k-line	690lm/m (210lm/ft)											94	72	-	-
	34.5lm/W														



Data derived from independent UKAS/IESNA LM-79-08 accredited testing of production samples.

LINI-R XL R020

Code Table



FIXTURE

Model	Finish	Cover	Grade ¹	LED	Colour (CCT)	Length Availability ²	IP	Cable Length	Power Feed ³	Input
LINI-R XL	RX Silver Anodised	SA Diffused	C s k	R020 R020	1900K 19 2100K 21 2300K 23 2500K 25 2700K 27 3000K 30 3500K 35 4000K 40 5000K 50	m 99.3-2016mm 83.3mm increments i 3.91-79.37in 3.28in increments (Specify length code OR total run length)	IP40 40	300mm/ 11.81" 1000mm/ 39.37" 0300 1000	Single no sheath tail S00X Double no sheath tail D00X Single no sheath IP20 connector S20X Double no sheath IP20 connector D20X	DC 24V g

¹ Refer to **LED Grading Key** on **Specification sheet** page

² Refer to **Length Availability List** or enter total run length instead of length code

³ Refer to **Power Feed Options** on **Options** pages

Code Example:

RX	-	SA	-	C	-	s	-	R020	-	35	-	m	-	516	-	40	-	0300	-	D00X	-	g
LINI-R XL		Silver Anodised		Diffused		s		R020		3500K		m		516mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V

ACCESSORIES

Connection Accessories

KKCN-01	2 PIN male & female 50mm/1.97" pair
KKCN-03	2 PIN male & female 300mm/11.81" pair
KKCN-06	2 PIN 300mm/11.81" extension lead

PSU/Driver

0-10V/1-10V/DALI/DMX

* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

* Refer to **Power feed** on **Accessories** pages

LED ENGINE VARIANTS (LED STRIP TYPE)

Colour	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	R007	265	81	7	2.13	LINI-R XL R007	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
	R014	534	163	14	4.27	LINI-R XL R014	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
	R020	731	223	20	6.10	LINI-R XL A020	99-2016mm (3.89-79.37in)	41.7mm (3.28in)
Warm Dim/Dynamic White	A040	2000	610	40	12.2	LINI-R XL A040	93-1516mm (3.66-59.68in)	38.46mm (1.51in)
	R207	594	181	16	4.88	LINI-R XL R207	99-2016mm (3.89-79.37in)	83.3mm (3.28in)
RGB	501	Red 61 Green 132 Blue 22 RGB 192	Red 19 Green 40 Blue 7 RGB 59	15.6	4.75	LINI-R XL RGB	99-2016mm (3.89-79.37in)	83.3mm (3.28in)
RGBW	R201	441	134	20	6.10	LINI-R XL RGBW	141-2016mm (5.55-79.37in)	62.5 (2.46in)

* Performance data: A/s-line, diffused cover, 3000K

LINI-R XL R020

Length Availability List



Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0099	i0004	99mm	3.91in	83mm	3.28in	11mm	0.43in	1.67	57
m0141	i0006	141mm	5.55in	125mm	4.92in	11mm	0.43in	2.50	86
m0183	i0007	183mm	7.19in	167mm	6.56in	11mm	0.43in	3.33	115
m0224	i0009	224mm	8.83in	208mm	8.20in	11mm	0.43in	4.17	144
m0266	i0010	266mm	10.47in	250mm	9.84in	11mm	0.43in	5.00	172
m0308	i0012	308mm	12.11in	292mm	11.48in	11mm	0.43in	5.83	201
m0349	i0014	349mm	13.75in	333mm	13.12in	11mm	0.43in	6.67	230
m0391	i0015	391mm	15.39in	375mm	14.76in	11mm	0.43in	7.50	259
m0433	i0017	433mm	17.03in	417mm	16.40in	11mm	0.43in	8.33	287
m0474	i0019	474mm	18.67in	458mm	18.04in	11mm	0.43in	9.17	316
m0516	i0020	516mm	20.31in	500mm	19.69in	11mm	0.43in	10.00	345
m0558	i0022	558mm	21.96in	542mm	21.33in	11mm	0.43in	10.83	374
m0599	i0024	599mm	23.60in	583mm	22.97in	11mm	0.43in	11.67	402
m0641	i0025	641mm	25.24in	625mm	24.61in	11mm	0.43in	12.50	431
m0683	i0027	683mm	26.88in	667mm	26.25in	11mm	0.43in	13.33	460
m0724	i0029	724mm	28.52in	708mm	27.89in	11mm	0.43in	14.17	489
m0766	i0030	766mm	30.16in	750mm	29.53in	11mm	0.43in	15.00	517
m0808	i0032	808mm	31.80in	792mm	31.17in	11mm	0.43in	15.83	546
m0849	i0033	849mm	33.44in	833mm	32.81in	11mm	0.43in	16.67	575
m0891	i0035	891mm	35.08in	875mm	34.45in	11mm	0.43in	17.50	604
m0933	i0037	933mm	36.72in	917mm	36.09in	11mm	0.43in	18.33	632
m0974	i0038	974mm	38.36in	958mm	37.73in	11mm	0.43in	19.17	661
m1016	i0040	1016mm	40.00in	1000mm	39.37in	11mm	0.43in	20.00	690
m1058	i0042	1058mm	41.64in	1042mm	41.01in	11mm	0.43in	20.83	719
m1099	i0043	1099mm	43.28in	1083mm	42.65in	11mm	0.43in	21.67	747
m1141	i0045	1141mm	44.92in	1125mm	44.29in	11mm	0.43in	22.50	776
m1183	i0047	1183mm	46.56in	1167mm	45.93in	11mm	0.43in	23.33	805
m1224	i0048	1224mm	48.20in	1208mm	47.57in	11mm	0.43in	24.17	834
m1266	i0050	1266mm	49.84in	1250mm	49.21in	11mm	0.43in	25.00	862
m1308	i0051	1308mm	51.48in	1292mm	50.85in	11mm	0.43in	25.83	891
m1349	i0053	1349mm	53.12in	1333mm	52.49in	11mm	0.43in	26.67	920
m1391	i0055	1391mm	54.76in	1375mm	54.13in	11mm	0.43in	27.50	949
m1433	i0056	1433mm	56.40in	1417mm	55.77in	11mm	0.43in	28.33	977
m1474	i0058	1474mm	58.04in	1458mm	57.41in	11mm	0.43in	29.17	1006
m1516	i0060	1516mm	59.69in	1500mm	59.06in	11mm	0.43in	30.00	1035
m1558	i0061	1558mm	61.33in	1542mm	60.70in	11mm	0.43in	30.83	1064
m1599	i0063	1599mm	62.97in	1583mm	62.34in	11mm	0.43in	31.67	1092
m1641	i0065	1641mm	64.61in	1625mm	63.98in	11mm	0.43in	32.50	1121
m1683	i0066	1683mm	66.25in	1667mm	65.62in	11mm	0.43in	33.33	1150
m1724	i0068	1724mm	67.89in	1708mm	67.26in	11mm	0.43in	34.17	1179
m1766	i0070	1766mm	69.53in	1750mm	68.90in	11mm	0.43in	35.00	1207
m1808	i0071	1808mm	71.17in	1792mm	70.54in	11mm	0.43in	35.83	1236
m1849	i0073	1849mm	72.81in	1833mm	72.18in	11mm	0.43in	36.67	1265

LINE-R XL R020

Length Availability List

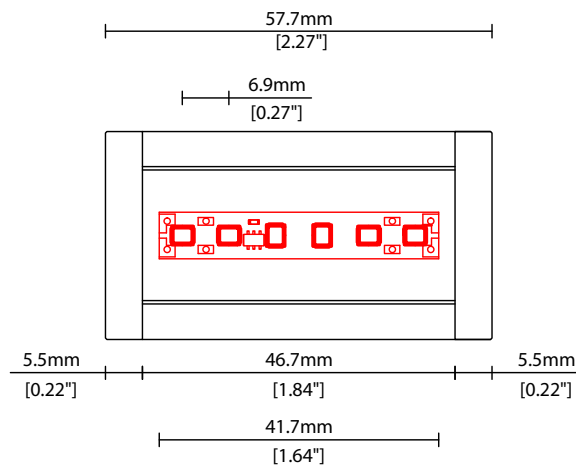


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m1891	i0074	1891mm	74.45in	1875mm	73.82in	11mm	0.43in	37.50	1294
m1933	i0076	1933mm	76.09in	1917mm	75.46in	11mm	0.43in	38.33	1322
m1974	i0078	1974mm	77.73in	1958mm	77.10in	11mm	0.43in	39.17	1351
m2016	i0079	2016mm	79.37in	2000mm	78.74in	11mm	0.43in	40.00	1380

¹ Actual total overall length of light fixture (LED strip + end caps + void/wire hole)

² Actual length of PCB strip

³ Actual length of 2x end caps



Linear

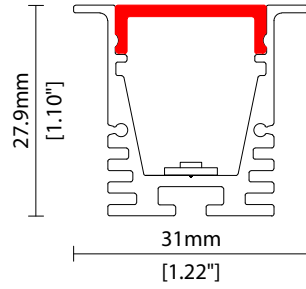
LINI-R XL R020

Options

KKDC

COVER/LENS OPTIONS

* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.

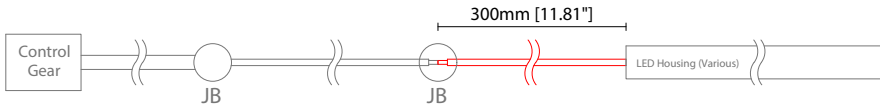


C Diffused cover

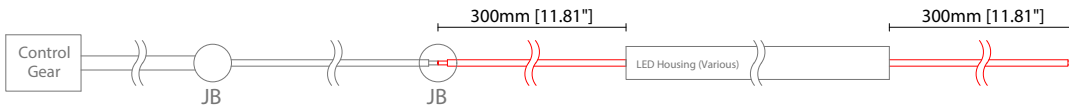
W31/H27.9mm (W1.22/H1.10")

POWER FEED OPTIONS

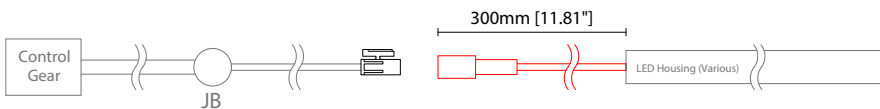
0300 S00X 300mm (11.81") Single no sheath tail



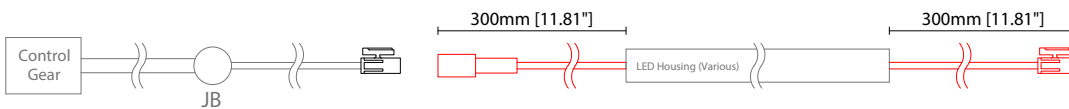
0300 D00X 300mm (11.81") Double no sheath tail



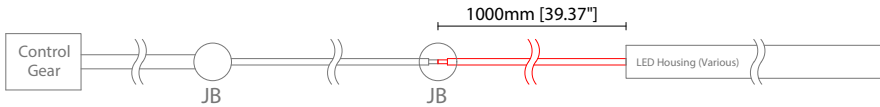
0300 S20X 300mm (11.81") Single no sheath IP20 connector



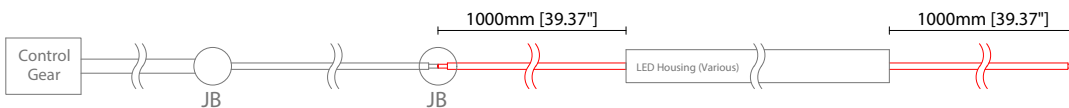
0300 D20X 300mm (11.81") Double no sheath IP20 connector



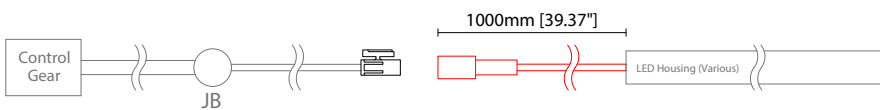
1000 S00X 1000mm (39.37") Single no sheath tail



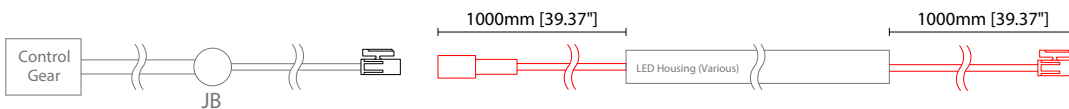
1000 D00X 1000mm (39.37") Double no sheath tail



1000 S20X 1000mm (39.37") Single no sheath IP20 connector



1000 D20X 1000mm (39.37") Double no sheath IP20 connector

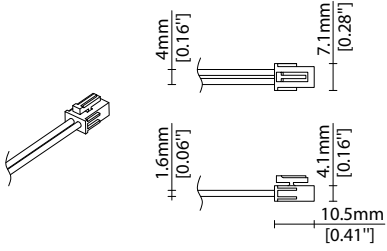


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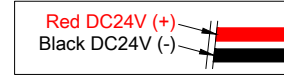
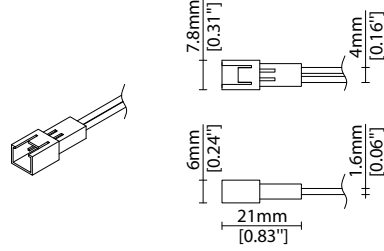
Control Gear Power supply, sub-controllers & control systems
 JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

2 Pin Female Connector

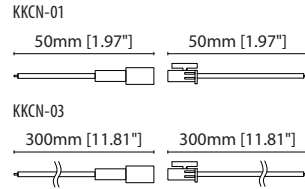
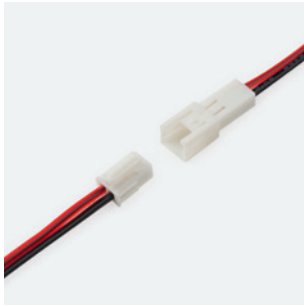


2 Pin Male Connector

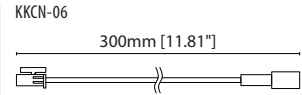


POWER FEED

Note: Accessories are to be ordered separately with corresponding code shown below.



KKCN-01 50mm (1.97in) pair
KKCN-03 300mm (11.81in) pair
2 PIN male + female connector set



KKCN-06
2 PIN 300mm (11.81in) extension lead

KKDC CONTROL



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDM-06 1-10V
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L170/W53.4/H28mm
(L6.69/W2.10/H1.10in)

KKSC-05 DMX
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDL-02 DALI
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L166/W53.4/H23mm
(L6.54/W2.10/H0.91in)

KKDL-03 DALI
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)

AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-24	90-295V	24V	2.5A	60W	-	IP67
	HLG-60H-24	90-305V	24V	2.5A	60W	-	IP67
	HLG-100H-24	90-305V	24V	4.0A	100W	-	IP67
	HLG-150H-24	90-305V	24V	6.3A	150W	-	IP67
	HLG-240H-24	90-305V	24V	10A	240W	-	IP67
0-10V (1-10V)	PWM-40-24	90-305V	24V	1.67A	40W	100-0.15 (100-10)	IP67
	PWM-60-24	90-305V	24V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-24	90-305V	24V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-24	90-305V	24V	5.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	24V	1A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	24V	1.33A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	24V	1A per channel	100W	100-0.1	IP66/IP40

Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	CEN-60-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-06	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-06	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-06	90-295V	24V	10.0A	240W	100-0.9	IP67/IP20
DALI	CEN-60-24	KKDL-02/03	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-60H-24	KKDL-02/03	90-305V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-100H-24	KKDL-02/03	90-305V	24V	4.0A	100W	100-0.1	IP67/IP20
	HLG-150H-24	KKDL-02/03	90-305V	24V	6.3A	150W	100-0.1	IP67/IP20
	HLG-240H-24	KKDL-02/03	90-305V	24V	10.0A	240W	100-0.1	IP67/IP20
DMX RGB	CEN-60-24	KKSC-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-05	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-05	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-05	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-05	90-305V	24V	10.0A	240W	100-0.9	IP67/IP20

¹ The items shown above cover the most frequently used specification but does not exhaust the possible options

² PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

³ Electrical shop drawing will include detailed information of PSU and relevant control drivers

⁴ Cut sheets are available on the controls section of www.kkdc.lighting or upon request