

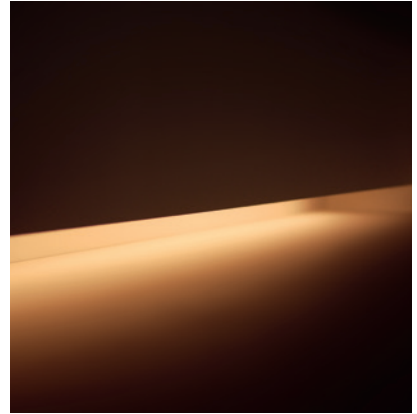
Linear

LiNi-R XL 508

Fixture Guide

KKDC

Indoor | Recessed | Mid output up to 710lm/m (216lm/ft)

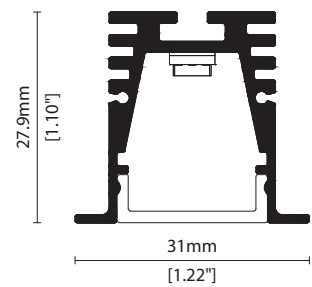


Key applications

- ✓ Ceiling
- ✓ Interior
- ✓ Downlighting
- ✓ Under cabinet

Key features

- ✓ Custom lengths
- ✓ Diffusion: Homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ Form factor: Medium
- ✓ IP40
- ✓ Output mid



Linear

LiNi-R XL 508

Specification sheet



Dimension	H27.9/W31/L87.4-2016mm (H1.1/W1.22/L3.44-79.37in) (excluding spring clips)
PCB increment	71.4mm increment/2000mm max (2.81in increment/78.74in max)
LED pitch	11.9mm - 84LED/m (0.47in - 26LED/ft)
Chip	s/e-line Toyoda Gosei k-line Toyoda Gosei or Equivalent
Beam angle	110° (Diffused Cover)
Colours	s/e-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K k-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
Bin/Step	s-line 2-step MacAdam ellipse e/k-line 3-step MacAdam ellipse
CRI	≥ 90
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 55°C (T _c max = 64°C) T _a = -13 to 131°F (T _c max = 147.2°F)
IP rating	IP40
Finish	Silver anodised
Cover/lens	Diffused
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*
2-step CCT range
- e** e-line*
3-step CCT range

*KKDC tuned CCT range

Base Grade

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

PERFORMANCE DATA @ 3000K

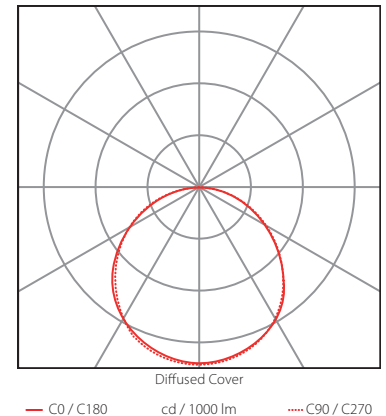
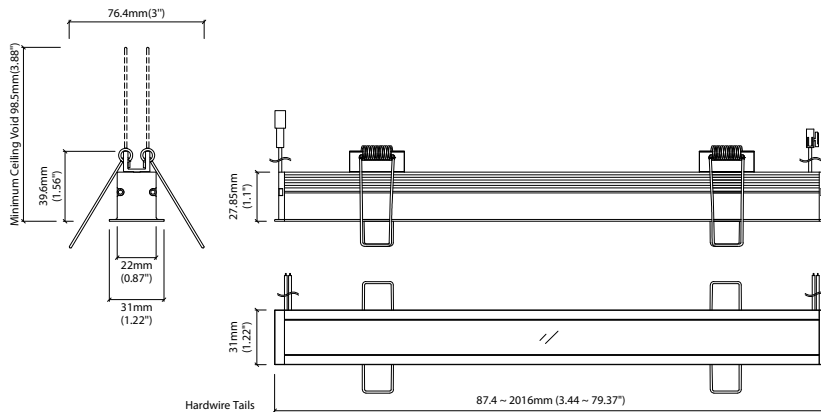
Power consumption	Supply voltage	Supply current
17.5W/m (5.33W/ft)	24V DC	0.73A/m (0.22A/ft)

Colour Rendering Index (CRI)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	94	97	98	93	93	96	92	83	60	93	94	82	95	99

Diffused Cover

					CRI	R9	Rf	Rg
s/e-line	710lm/m (216lm/ft)	40.7lm/W			92	50	-	-
k-line	590lm/m (180lm/ft)	33.6lm/W			92	60	-	-



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

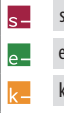
Linear

LiNi-R XL 508

Code Table

KKDC

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		508	1900K 19 2100K 21 2300K 23 2500K 25 2700K 27 3000K 30 3500K 35 4000K 40 5000K 50	m 87.4-2016mm 71.4mm increments i 3.44-79.37in 2.81in increments (Specify length code OR total run length)	IP40 40	300mm/11.81" 0300 1000mm/39.37" 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	-	508	-	35	-	m	-	516	-	40	-	0300	-	D00X	-	g
LiNi-R XL		Silver Anodised		Diffused				508		3500K		515.8mm		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	Output	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	Low	352	190	59	5.5	1.67	LiNi-R XL 352	99.3-2016mm (3.91-79.37in)	83.3mm (3.28in)
	Low	504	510	155	12.5	3.81	LiNi-R XL 504	116-2016mm (4.57-79.37in)	100mm (3.94in)
	Mid	508	710	216	17.5	5.33	LiNi-R XL 508	87.4-2016mm (3.44-79.37in)	71.4mm (2.81in)
Warm Dim/Dynamic White	Max	040	2000	610	40	12.2	LiNi-R XL A040	93-1516mm (3.66-59.68in)	38.46mm (1.51in)
	Low	207	350	105	10.95	3.34	LiNi-R XL 207	99.3-2016mm (3.91-79.37in)	83.3mm (3.28in)
	Mid	208	630	213	15.6	4.75	LiNi-R XL 208	182.7-2016mm (7.19-79.37in)	166.7mm (6.56in)
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	99.3-2016mm (3.91-79.37in)	83.3mm (3.28in)

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

LiNi-R XL 508

Length Availability List

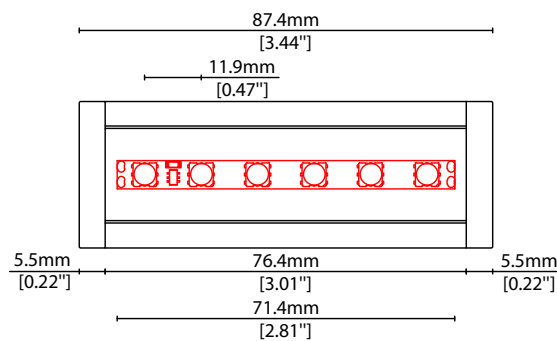


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0087	i0003	87mm	3.44in	71mm	2.81in	11mm	0.43in	1.25	51	34-53
m0159	i0006	159mm	6.25in	143mm	5.62in	11mm	0.43in	2.50	102	67-106
m0230	i0009	230mm	9.07in	214mm	8.44in	11mm	0.43in	3.75	153	101-159
m0302	i0012	302mm	11.88in	286mm	11.25in	11mm	0.43in	5.00	204	134-212
m0373	i0015	373mm	14.69in	357mm	14.06in	11mm	0.43in	6.25	254	168-265
m0444	i0018	445mm	17.50in	429mm	16.87in	11mm	0.43in	7.50	305	202-317
m0516	i0020	516mm	20.32in	500mm	19.69in	11mm	0.43in	8.75	356	235-370
m0587	i0023	587mm	23.13in	571mm	22.50in	11mm	0.43in	10.00	407	269-423
m0659	i0026	659mm	25.94in	643mm	25.31in	11mm	0.43in	11.25	458	302-476
m0730	i0029	730mm	28.75in	714mm	28.12in	11mm	0.43in	12.50	509	336-529
m0802	i0032	802mm	31.56in	786mm	30.93in	11mm	0.43in	13.75	560	370-582
m0873	i0034	873mm	34.38in	857mm	33.75in	11mm	0.43in	15.00	611	403-635
m0944	i0037	945mm	37.19in	929mm	36.56in	11mm	0.43in	16.25	661	437-688
m1016	i0040	1016mm	40.00in	1000mm	39.37in	11mm	0.43in	17.50	712	470-741
m1087	i0043	1087mm	42.81in	1071mm	42.18in	11mm	0.43in	18.75	763	504-794
m1159	i0046	1159mm	45.63in	1143mm	45.00in	11mm	0.43in	20.00	814	538-847
m1230	i0048	1230mm	48.44in	1214mm	47.81in	11mm	0.43in	21.25	865	571-899
m1302	i0051	1302mm	51.25in	1286mm	50.62in	11mm	0.43in	22.50	916	605-952
m1373	i0054	1373mm	54.06in	1357mm	53.43in	11mm	0.43in	23.75	967	638-1005
m1444	i0057	1445mm	56.87in	1429mm	56.24in	11mm	0.43in	25.00	1018	672-1058
m1516	i0060	1516mm	59.69in	1500mm	59.06in	11mm	0.43in	26.25	1068	706-1111
m1587	i0062	1587mm	62.50in	1571mm	61.87in	11mm	0.43in	27.50	1119	739-1164
m1659	i0065	1659mm	65.31in	1643mm	64.68in	11mm	0.43in	28.75	1170	773-1217
m1730	i0068	1730mm	68.12in	1714mm	67.49in	11mm	0.43in	30.00	1221	806-1270
m1802	i0071	1802mm	70.94in	1786mm	70.31in	11mm	0.43in	31.25	1272	840-1323
m1873	i0074	1873mm	73.75in	1857mm	73.12in	11mm	0.43in	32.50	1323	874-1376
m1944	i0077	1945mm	76.56in	1929mm	75.93in	11mm	0.43in	33.75	1374	907-1429
m2016	i0079	2016mm	79.37in	2000mm	78.74in	11mm	0.43in	35.00	1425	941-1481

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

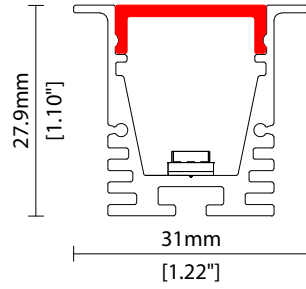
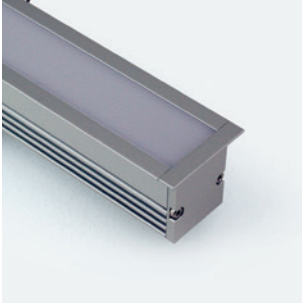
LiNi-R XL 508

Options

KKDC

COVER/LENS OPTIONS

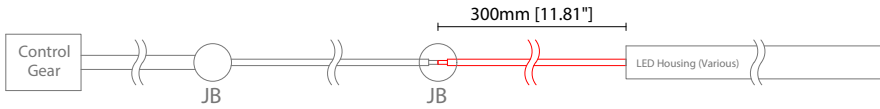
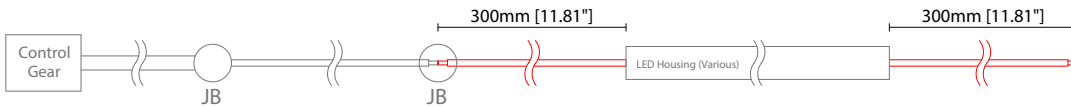
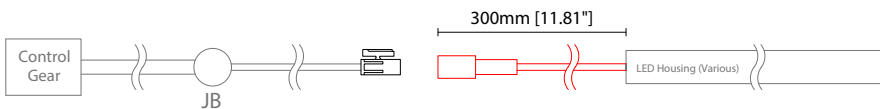
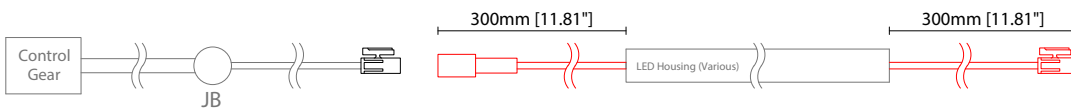
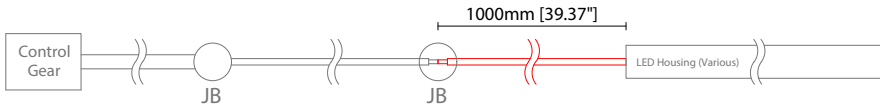
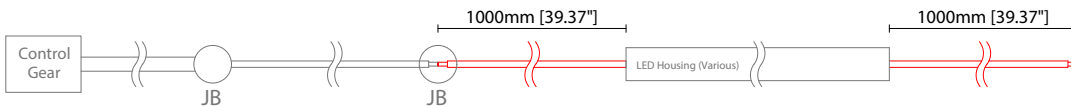
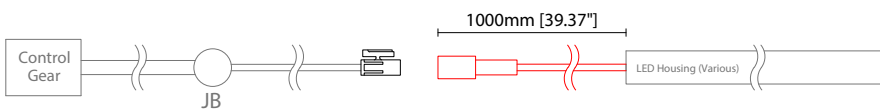
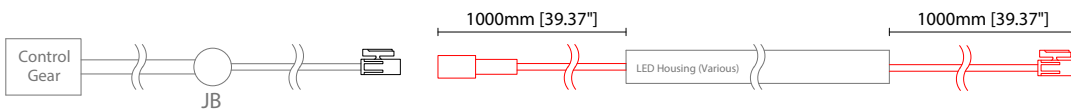
* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.



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

Key

Control Gear Power supply, sub-controllers & control systems

JB Junction box / cable connection

Linear

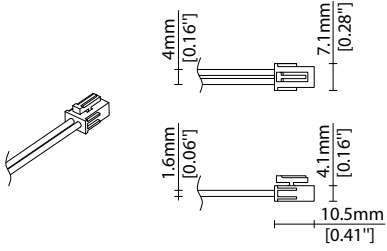
LiNi-R XL 508

Options

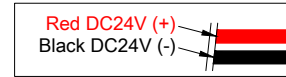
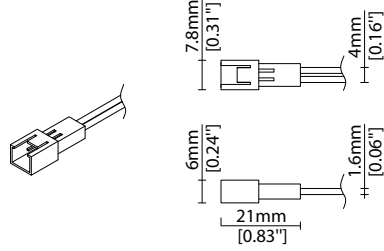


POWER FEED OPTIONS (CONTINUED)

2 Pin Female Connector

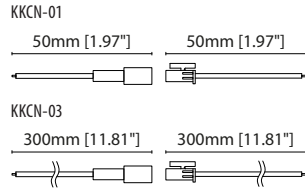
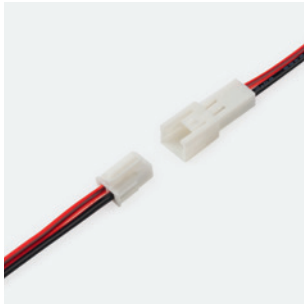


2 Pin Male Connector

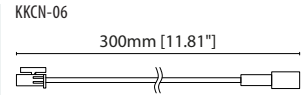


POWER FEED

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