

Linear

# LINE-S R020 Fixture Guide

# KKDÖ

Indoor | Surface | Output up to 1632lm/m (498lm/ft)

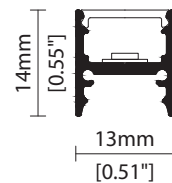


## Key applications

- ✓ Architectural detail
- ✓ Cabinet & furniture
- ✓ Cove lighting
- ✓ Display case
- ✓ Indirect lighting
- ✓ Interior
- ✓ Mirror back lighting
- ✓ Retail display
- ✓ Shelving display

## Key features

- ✓ Custom lengths
- ✓ Constant Voltage (CV)
- ✓ Diffusion: homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ IP40 dry area
- ✓ Light on time (10 day delivery)



## MOUNTING METHODS



KKCP-10 Concealed clip

Linear

# LINI-S R020

## Specification sheet



<b>Dimensions</b>	H14/W13/L97-2014mm (H0.55/W0.51/L3.81-79.29in)
<b>PCB Cut-point</b>	41.7mm increment/2000mm max (1.64in increment/78.74in max)
<b>LED Pitch</b>	6.95mm-144LED/m (0.27in - 44LED/ft)
<b>Chip</b>	<b>s-line</b> <b>k-line</b>
<b>Cover/Optics</b>	Clear (105°)/Diffused (110°)
<b>CCT</b>	<b>s-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K <b>k-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
<b>LED binning</b>	<b>s-line:</b> 2-step MacAdam ellipse <b>k-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	≥92
<b>Lifetime</b>	50,000 hours @ 25°C (50,000 hours @ 77°F)
<b>Operating temp</b>	T <sub>a</sub> = -25 to 45°C (T <sub>c</sub> max = 78°C) T <sub>a</sub> = -13 to 113°F (T <sub>c</sub> max = 172°F)
<b>IP Rating</b>	IP40
<b>Finish</b>	Silver anodised
<b>Mounting</b>	Surface mounting via concealed clips
<b>Power feed</b>	Hardwire tails or male/female connectors
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

#### Exclusive Grade

<b>s</b> s-line*	*KKDC tuned CCT range
2-step CCT range	

#### Base Grade

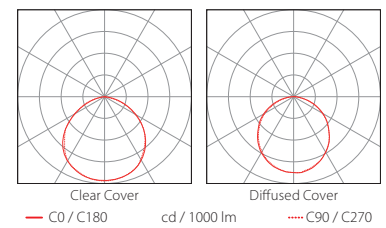
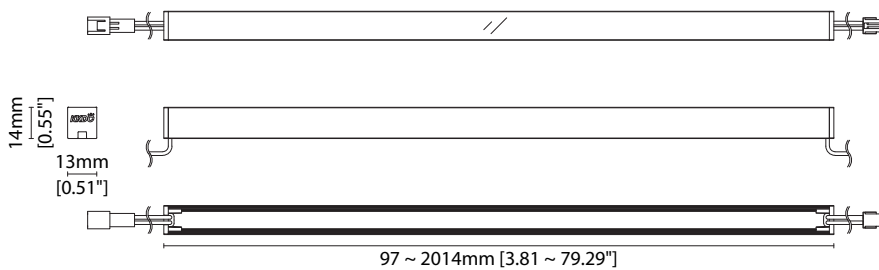
<b>k</b> k-line	3-step commercial range
	Energy Star CCTs

<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
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
<b>k-line</b>	92	96	97	90	91	94	92	83	62	90	90	74	94	98

	Clear Cover	Diffused Cover	CRI	R9	Rf	Rg
<b>s-line</b>	1632lm/m (498lm/ft) 81.6lm/W	1208lm/m (368lm/ft) 60.4lm/W	93	63	-	-
<b>k-line</b>	1545lm/m (471lm/ft) 77lm/W	1134lm/m (346lm/ft) 57lm/W	92	62	-	-



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

### FIXTURE

Model	Finish <sup>1</sup>	Cover <sup>2</sup>	Grade <sup>3</sup>	LED	Colour (CCT)	Length Availability <sup>4</sup>	IP	Cable Length	Power Feed <sup>5</sup>	Input														
LINE-S	LS	Silver Anodised (grey endcaps)	SA	Clear	B	s	R020	R020	1900K	19	m	97-2014mm 41.7mm increments	IP40	40	50mm/1.97"	0050	Single no sheath tail	S00X	DC 24V					
																				Diffused	C	k	R020	2100K
	Silver Anodised (white endcaps)	SAWE	2300K	23	2500K	25	2700K	27	3000K	30	Single no sheath IP20 connector	S20X												
													3500K	35	4000K	40	5000K	50	Double no sheath IP20 connector					

<sup>1</sup> Refer to **End Cap Options** on **Options** pages

<sup>2</sup> Refer to **Cover/Lens Options** on **Options** page

<sup>3</sup> Refer to **LED Grading Key** on **Specification sheet** page

<sup>4</sup> Refer to **Length Availability List** or enter total run length instead of length code

<sup>5</sup> Refer to **Power Feed Options** on **Options** pages

### Code Example:

LS	-	SA	-	C	-	s	-	R020	-	35	-	m	-	514	-	40	-	0300	-	D00X	-	g
LINE-S		Silver Anodised (grey endcaps)		Diffused				R020		3500K				514mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V

### ACCESSORIES

#### Mounting Accessories

KKCP-10 Concealed Clip

\* Refer to **Mounting accessories** on **Accessories** pages

#### Connection Accessories

KKCN-01 2 PIN male & female 50mm (1.97in) pair

KKCN-03 2 PIN male & female 300mm (11.81in) pair

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

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

#### 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

### LED ENGINE VARIANTS (LED STRIP TYPE)

Colour	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	R007	564	172	7	2.13	LINE-S R007	97-2014mm (3.81-79.29in)	41.7mm (1.64in)
	R014	1158	353	14	4.27	LINE-S R014	97-2014mm (3.81-79.29in)	41.7mm (1.64in)
	<b>R020</b>	<b>1632</b>	<b>498</b>	<b>20</b>	<b>6.10</b>	<b>LINE-S R020</b>	<b>97-2014mm (3.81-79.29in)</b>	<b>41.7mm (1.64in)</b>
Warm Dim/Dynamic White	R207	1323	403	16	4.88	LINE-S R207	97-2014mm (3.81-79.29in)	83.3mm (3.28in)
RGB	501	Red 134 Green 284 Blue 46 RGB 423	Red 41 Green 87 Blue 14 RGB 129	15.6	4.75	LINE-S RGB	97-2014mm (3.81-79.29in)	83.3mm (3.28in)

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

# LINE-S R020

## Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0097	i0004	97mm	3.83in	83mm	3.28in	4mm	0.16in	1.67	128
m0139	i0005	139mm	5.47in	125mm	4.92in	4mm	0.16in	2.50	192
m0181	i0007	181mm	7.11in	167mm	6.56in	4mm	0.16in	3.33	257
m0222	i0009	222mm	8.75in	208mm	8.20in	4mm	0.16in	4.17	321
m0264	i0010	264mm	10.39in	250mm	9.84in	4mm	0.16in	5.00	385
m0306	i0012	306mm	12.03in	292mm	11.48in	4mm	0.16in	5.83	449
m0347	i0014	347mm	13.67in	333mm	13.12in	4mm	0.16in	6.67	513
m0389	i0015	389mm	15.31in	375mm	14.76in	4mm	0.16in	7.50	577
m0431	i0017	431mm	16.96in	417mm	16.40in	4mm	0.16in	8.33	642
m0472	i0019	472mm	18.60in	458mm	18.04in	4mm	0.16in	9.17	706
m0514	i0020	514mm	20.24in	500mm	19.69in	4mm	0.16in	10.00	770
m0556	i0022	556mm	21.88in	542mm	21.33in	4mm	0.16in	10.83	834
m0597	i0024	597mm	23.52in	583mm	22.97in	4mm	0.16in	11.67	898
m0639	i0025	639mm	25.16in	625mm	24.61in	4mm	0.16in	12.50	962
m0681	i0027	681mm	26.80in	667mm	26.25in	4mm	0.16in	13.33	1027
m0722	i0028	722mm	28.44in	708mm	27.89in	4mm	0.16in	14.17	1091
m0764	i0030	764mm	30.08in	750mm	29.53in	4mm	0.16in	15.00	1155
m0806	i0032	806mm	31.72in	792mm	31.17in	4mm	0.16in	15.83	1219
m0847	i0033	847mm	33.36in	833mm	32.81in	4mm	0.16in	16.67	1283
m0889	i0035	889mm	35.00in	875mm	34.45in	4mm	0.16in	17.50	1347
m0931	i0037	931mm	36.64in	917mm	36.09in	4mm	0.16in	18.33	1412
m0972	i0038	972mm	38.28in	958mm	37.73in	4mm	0.16in	19.17	1476
m1014	i0040	1014mm	39.92in	1000mm	39.37in	4mm	0.16in	20.00	1540
m1056	i0042	1056mm	41.56in	1042mm	41.01in	4mm	0.16in	20.83	1604
m1097	i0043	1097mm	43.20in	1083mm	42.65in	4mm	0.16in	21.67	1668
m1139	i0045	1139mm	44.84in	1125mm	44.29in	4mm	0.16in	22.50	1732
m1181	i0046	1181mm	46.48in	1167mm	45.93in	4mm	0.16in	23.33	1797
m1222	i0048	1222mm	48.12in	1208mm	47.57in	4mm	0.16in	24.17	1861
m1264	i0050	1264mm	49.76in	1250mm	49.21in	4mm	0.16in	25.00	1925
m1306	i0051	1306mm	51.40in	1292mm	50.85in	4mm	0.16in	25.83	1989
m1347	i0053	1347mm	53.04in	1333mm	52.49in	4mm	0.16in	26.67	2053
m1389	i0055	1389mm	54.69in	1375mm	54.13in	4mm	0.16in	27.50	2117
m1431	i0056	1431mm	56.33in	1417mm	55.77in	4mm	0.16in	28.33	2182
m1472	i0058	1472mm	57.97in	1458mm	57.41in	4mm	0.16in	29.17	2246
m1514	i0060	1514mm	59.61in	1500mm	59.06in	4mm	0.16in	30.00	2310
m1556	i0061	1556mm	61.25in	1542mm	60.70in	4mm	0.16in	30.83	2374
m1597	i0063	1597mm	62.89in	1583mm	62.34in	4mm	0.16in	31.67	2438
m1639	i0065	1639mm	64.53in	1625mm	63.98in	4mm	0.16in	32.50	2502
m1681	i0066	1681mm	66.17in	1667mm	65.62in	4mm	0.16in	33.33	2567
m1722	i0068	1722mm	67.81in	1708mm	67.26in	4mm	0.16in	34.17	2631
m1764	i0069	1764mm	69.45in	1750mm	68.90in	4mm	0.16in	35.00	2695
m1806	i0071	1806mm	71.09in	1792mm	70.54in	4mm	0.16in	35.83	2759
m1847	i0073	1847mm	72.73in	1833mm	72.18in	4mm	0.16in	36.67	2823

# LINI-S R020

## Length Availability List

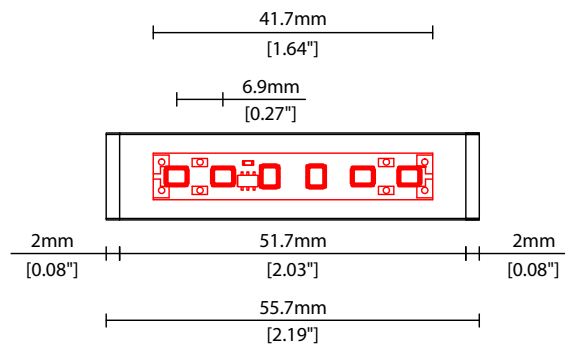


Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm) 3000K (Test Data)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		
m1889	i0074	1889mm	74.37in	1875mm	73.82in	4mm	0.16in	37.50	2887
m1931	i0076	1931mm	76.01in	1917mm	75.46in	4mm	0.16in	38.33	2952
m1972	i0078	1972mm	77.65in	1958mm	77.10in	4mm	0.16in	39.17	3016
m2014	i0079	2014mm	79.29in	2000mm	78.74in	4mm	0.16in	40.00	3080

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

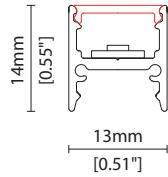
<sup>2</sup> Actual length of PCB strip

<sup>3</sup> Actual length of 2x end caps

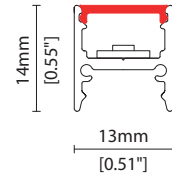


### COVER/LENS OPTIONS

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

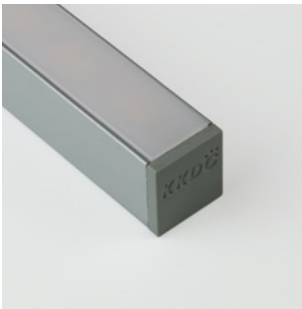


**B** Clear cover  
W13/H14(W0.51/H0.55in)

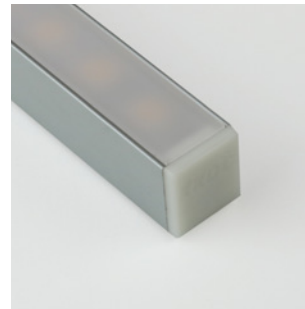


**C** Diffused cover  
W13/H14(W0.51/H0.55in)

### END CAP OPTIONS



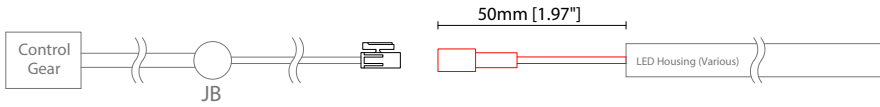
**SA** Silver anodised finish  
with grey end caps.



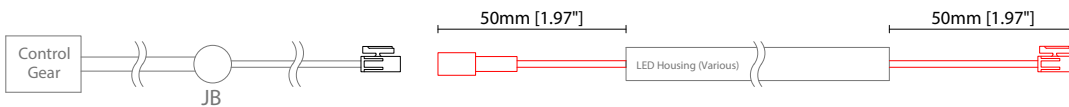
**SAWE** Silver anodised finish  
with white end caps.

### POWER FEED OPTIONS

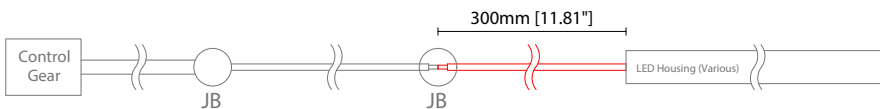
0050 S20X 50mm (1.97") Single no sheath IP20 connector



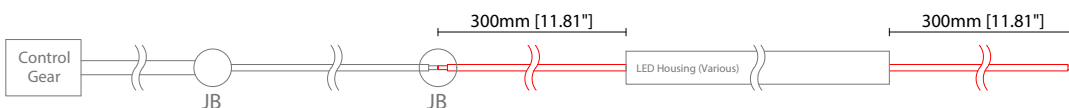
0050 D20X 50mm (1.97") Double no sheath IP20 connector



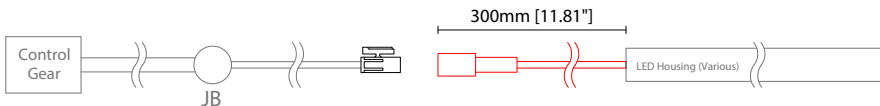
0300 S00X 300mm (11.81") Single no sheath tail



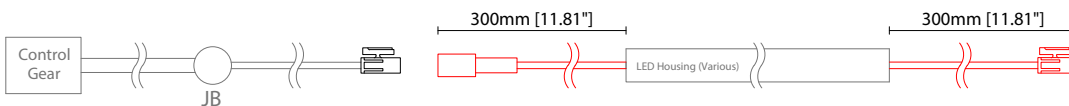
0300 D00X 300mm (11.81") Double no sheath tail



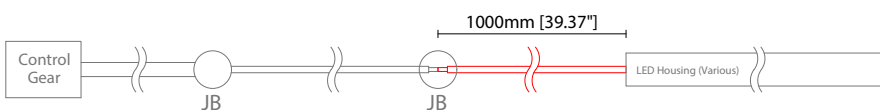
0300 S20X 300mm (11.81") Single no sheath IP20 connector



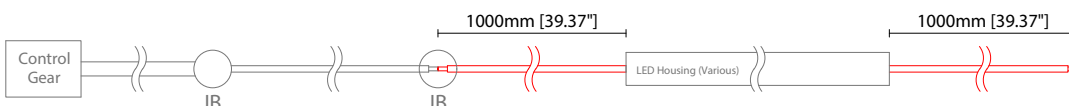
0300 D20X 300mm (11.81") Double no sheath IP20 connector



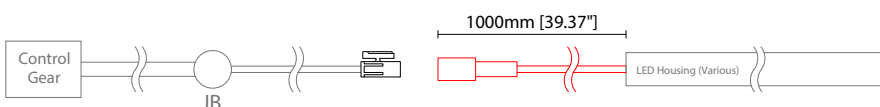
1000 S00X 1000mm (39.37") Single no sheath tail



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



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



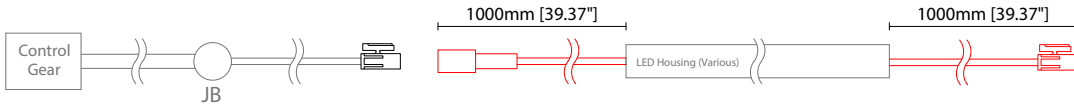
#### Key

Control Gear Power supply, sub-controllers & control systems

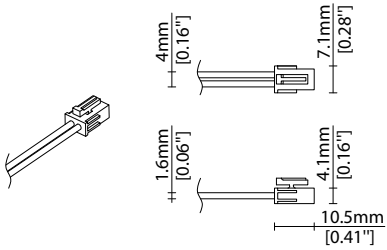
JB Junction box / cable connection

### POWER FEED OPTIONS (CONTINUED)

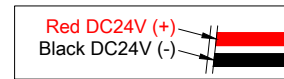
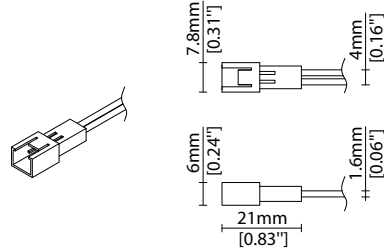
1000 D20X 1000mm (39.37") Double no sheath IP20 connector



2 Pin Female Connector



2 Pin Male Connector



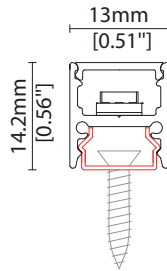
#### Key

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



## MOUNTING ACCESSORIES

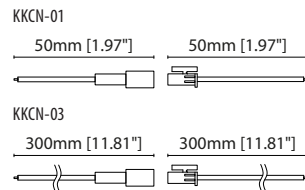
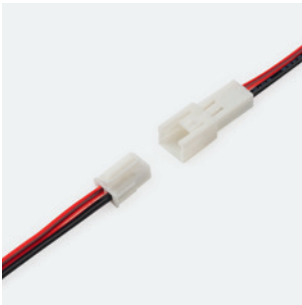
Note: Accessories are to be ordered separately with corresponding code shown below.



**KKCP-10**

Concealed clip  
(allow 3 per metre/40in)  
S/Steel finish  
L20/W13/H14.2mm  
(L0.79/W0.51/H0.56")

## POWER FEED



**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)

Linear

# LINI-S R020 Accessories

# KKDC

## KKDC CONTROL (CONTINUED)

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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

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

<sup>2</sup> 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

<sup>3</sup> Electrical shop drawing will include detailed information of PSU and relevant control drivers

<sup>4</sup> Cut sheets are available on the controls section of [www.kkdc.lighting](http://www.kkdc.lighting) or upon request