

Linear

POKI 207 Fixture Guide

KKDÖ

Outdoor | Surface | Low dynamic output up to 290lm/m (86lm/ft)

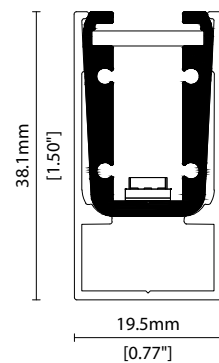


Key applications

- ✓ Building façades
- ✓ Exterior
- ✓ Orientation lighting
- ✓ Public spaces
- ✓ Special effect
- ✓ Wall grazing
- ✓ Window Reveal

Key features

- ✓ Custom lengths
- ✓ Diffusion: Homogenous
- ✓ Direct view
- ✓ Dynamic white
- ✓ Extensive CCT range
- ✓ Form factor: Medium
- ✓ IP54
- ✓ IP67
- ✓ Output low



MOUNTING METHODS



KKCR-02 Channel

Warm dim (Dynamic white)

Output Luminance %

min DIM1 Input Level max

— CH1 (Warmer)
— CH2 (Cooler)

LEDmix 207

CCT Selection 1 CCT Selection 2

LEDmix 209

CCT Selection 1 CCT Selection 2

LEDmix **warm dim** (Dynamic white) is a pre-programmed dimming curve setting enabling two different colour temperatures (CCTs) to blend harmoniously to achieve a warming lighting effect when dimmed.

KKDC LEDmix strips allow two separate CCT selections to be specified within the same PCB strip.

Use the table opposite to help determine which 2 CCT selections you require according to your preferred cool to warm dimming range.

**Note: The blended CCT is approx. 'cool-end' result at 100% brightness based on using the KKDC LED CCT specification.*

CCT Selection 1	CCT Selection 2	
	Blended CCT*	PCB CCT
1900K~	2000K 2100K 2200K 2300K 2500K 2600K 2700K 3000K 3500K	2100K PCB 2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2100K~	2200K 2300K 2400K 2600K 2700K 2800K 3000K 3600K	2300K PCB 2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2300K~	2400K 2500K 2700K 2800K 2900K 3100K 3700K	2500K PCB 2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2500K~	2600K 2800K 2800K 3000K 3200K 3800K	2700K PCB 3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
2700K~	2900K 3000K 3100K 3400K 3900K	3000K PCB 3200K PCB 3500K PCB 4000K PCB 5000K PCB
3000K~	3100K 3300K 3500K 4000K	3200K PCB 3500K PCB 4000K PCB 5000K PCB
3200K~	3300K 3600K 4100K	3500K PCB 4000K PCB 5000K PCB
3500K~	3700K 4300K	4000K PCB 5000K PCB
4000K~	5100K	5000K PCB

Tuneable white

Channel Mix Ratio %

min DIM1 Input Level max

— CH1 (Warmer)
— CH2 (Cooler)

LEDmix 207

CCT Selection 1 CCT Selection 2

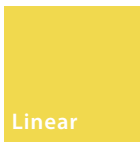
LEDmix 209

CCT Selection 1 CCT Selection 2

LEDmix **tunable white** enables two different LED colour temperatures (CCTs) to be specified within the same LEDmix strip.

Each CCT selection can then be independently controlled (via your dimming control system) to adjust the warm & cool light output (CCT selections) and thus tailor a blended light colour of your choosing.

CCT Selection 1	CCT Selection 2
1900K~	2100K 2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2100K~	2300K 2500K 2700K 3000K 3200K 3500K 4000K 5000K
2300K~	2500K 2700K 3000K 3200K 3500K 4000K 5000K
2500K~	2700K 3000K 3200K 3500K 4000K 5000K
2700K~	3000K 3200K 3500K 4000K 5000K
3000K~	3200K 3500K 4000K 5000K
3200K~	3500K 4000K 5000K
3500K~	4000K 5000K
4000K~	5000K



POKI 207

Specification sheet



Dimension	H38.1/W19.5/L103.3-2020mm (H1.5/W0.77/L4.07-79.53in)
PCB increment	83.3mm increment/2000mm max (3.28in increment/78.74in max)
LED pitch	13.9mm - 144 LED/m (0.55in - 44LED/ft) between same coloured LEDs
Chip	s-line Toyoda Gosei k-line Toyoda Gosei or Equivalent
Beam angle	30° (Clear Cover) / 80° (Diffused Cover)
Colours	s-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 2.5-step MacAdam ellipse 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 60°C (T _C max = 71.5°C) T _a = -13 to 140°F (T _C max = 160.7°F)
IP rating	IP54/IP67
Finish	Silver anodised
Cover/lens	Clear/Diffused
Mounting	Surface mounting via cable raceway
Power feed	Sheathed 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
2.5-step CCT range	

Base Grade

k k-line	3-step commercial range Energy Star CCTs
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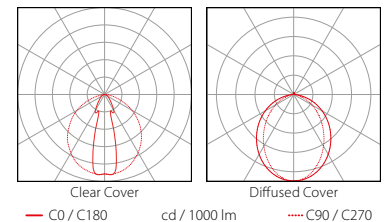
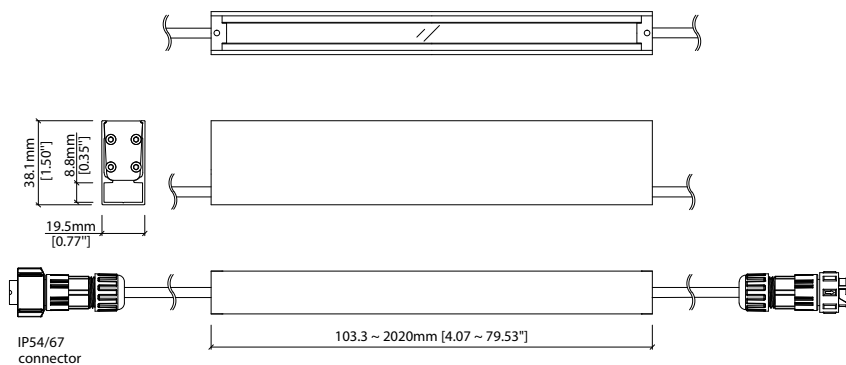
PERFORMANCE DATA @ 2100K + 5000K

Power consumption	Supply voltage	Supply current
11W/m (3.35W/ft)	24V DC	0.46A/m (0.14A/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

	Clear Cover		Diffused Cover		CRI	R9	Rf	Rg
s-line	290lm/m (86lm/ft)	26.5lm/W	200lm/m (62lm/ft)	18.2lm/W	93	62	-	-
k-line	290lm/m (85lm/ft)	26.1lm/W	200lm/m (61lm/ft)	17.9lm/W	92	60	-	-



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

FIXTURE

Model	Finish	Cover	Grade ¹	LED	Colour (CCT)	Length Availability ²	IP	Cable Length	Power Feed ³	Input		
POKI PK	Silver Anodised SA	Clear B	s ⁴	207	1900K 19	m 103.3-2020mm 83.3mm increments	IP54 54	300mm/11.81" 0300	Single ø4.3mm sheath tail	S00A	DC 24V g	
					2100K 21							IP67 ⁵ 67
		Diffused C	k ⁴		2300K 23	i 4.07-79.53in 3.28in increments	(Specify length code OR total run length)			Double ø4.3mm sheath tail		
					2500K 25							
		2700K 27										
		3000K 30										
		3500K 35										
		4000K 40	Double ø4.3mm sheath IP67 connector ^{6,7}		D67A							
		5000K 50										

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

⁴ LEDmix requires two colour temperature choices

⁵ Due to the clear, flush potted polyurethane top layer on IP67 POKI a colour shift of +/-20K should be expected

⁶ IP rated connectors do not fit inside the cable raceway

⁷ IP67 connectors are used for both IP67 and IP54 product housings

Code Example:

PK	-	SA	-	C	-	s	-	207	-	2150	-	m	520	-	67	-	0300	-	D67A	-	g
POKI		Silver Anodised		Diffused				207		2100K+5000K		519.8mm		IP67		300mm/11.81"		Double ø4.3mm sheath IP67 connector		DC 24V	

ACCESSORIES

Mounting Accessories

KKCR-02 Channel

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

Connection Accessories

CN67-4P-0300 IP67 4 PIN LEDmix male & female 300mm/11.81" pair

CN67-4P-1000 IP67 4 PIN LEDmix male & female 1000mm/39.37" pair

CN67-4P-3000 IP67 4 PIN LEDmix male & female 3000mm/118.11" pair

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

Exterior Junction Boxes

KKJB-07 IP67 Slim J-Box

KKJB-07R Potting Resin for IP67 Slim J-Box

* Refer to **Exterior Junction Boxes** 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	Output	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	Low	352	160	50	5.5	1.67	POKI 352	103.3-2020mm (4.07-79.53in)	83.3mm (3.28in)
	Low	504	420	128	12.5	3.81	POKI 504	120-2020mm (4.72-79.53in)	100mm (3.94in)
	Mid	508	580	177	17.5	5.33	POKI 508	91.4-2020mm (3.60-79.53in)	71.4mm (2.81in)
Warm Dim/Dynamic White	Low	207	290	86	11	3.35	POKI 207	103.3-2020mm (4.07-79.53in)	83.3mm (3.28in)
RGB	Low	208	510	171	15.6	4.75	POKI 208	186.7-2020mm (7.35-79.53in)	166.7mm (6.56in)
		501	Red 50 Green 107 Blue 18 RGB 155	Red 15 Green 33 Blue 5 RGB 47	15.6	4.75	POKI RGB	103.3-2020mm (4.07-79.53in)	83.3mm (3.28in)

* Performance data: s-line, clear cover, 2100K + 5000K

POKI 207

Length Availability List

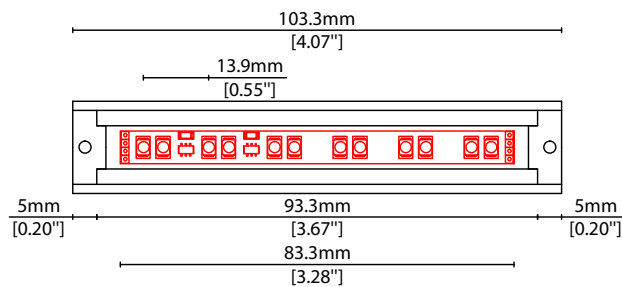


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		MIX (Test Data)
m0103	i0004	103mm	4.07in	83mm	3.28in	10mm	0.39in	0.92	24
m0187	i0007	187mm	7.35in	167mm	6.56in	10mm	0.39in	1.83	48
m0270	i0011	270mm	10.63in	250mm	9.84in	10mm	0.39in	2.75	72
m0353	i0014	353mm	13.91in	333mm	13.12in	10mm	0.39in	3.67	96
m0437	i0017	437mm	17.19in	417mm	16.41in	10mm	0.39in	4.58	120
m0520	i0020	520mm	20.47in	500mm	19.69in	10mm	0.39in	5.50	144
m0603	i0024	603mm	23.76in	583mm	22.97in	10mm	0.39in	6.42	167
m0687	i0027	687mm	27.04in	667mm	26.25in	10mm	0.39in	7.33	191
m0770	i0030	770mm	30.32in	750mm	29.53in	10mm	0.39in	8.25	215
m0853	i0034	853mm	33.60in	833mm	32.81in	10mm	0.39in	9.17	239
m0937	i0037	937mm	36.88in	917mm	36.09in	10mm	0.39in	10.08	263
m1020	i0040	1020mm	40.16in	1000mm	39.37in	10mm	0.39in	11.00	287
m1103	i0043	1103mm	43.44in	1083mm	42.65in	10mm	0.39in	11.92	311
m1187	i0047	1187mm	46.72in	1167mm	45.94in	10mm	0.39in	12.83	335
m1270	i0050	1270mm	50.00in	1250mm	49.22in	10mm	0.39in	13.75	359
m1353	i0053	1353mm	53.29in	1333mm	52.50in	10mm	0.39in	14.67	383
m1437	i0057	1437mm	56.57in	1417mm	55.78in	10mm	0.39in	15.58	407
m1520	i0060	1520mm	59.85in	1500mm	59.06in	10mm	0.39in	16.50	431
m1603	i0063	1603mm	63.13in	1583mm	62.34in	10mm	0.39in	17.42	455
m1687	i0066	1687mm	66.41in	1667mm	65.62in	10mm	0.39in	18.33	479
m1770	i0070	1770mm	69.69in	1750mm	68.90in	10mm	0.39in	19.25	502
m1853	i0073	1853mm	72.97in	1833mm	72.18in	10mm	0.39in	20.17	526
m1937	i0076	1937mm	76.25in	1917mm	75.47in	10mm	0.39in	21.08	550
m2020	i0080	2020mm	79.53in	2000mm	78.75in	10mm	0.39in	22.00	574

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

² Actual length of PCB strip

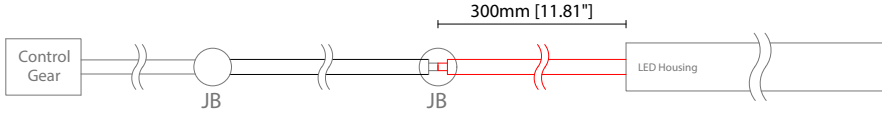
³ Actual length of 2x end caps



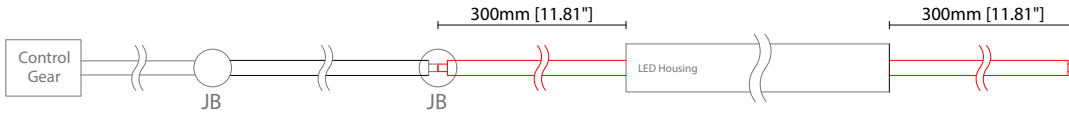
POWER FEED OPTIONS

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

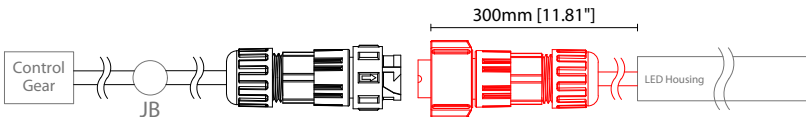
0300 S00A 300mm (11.81") Single ø4.3mm sheath tail



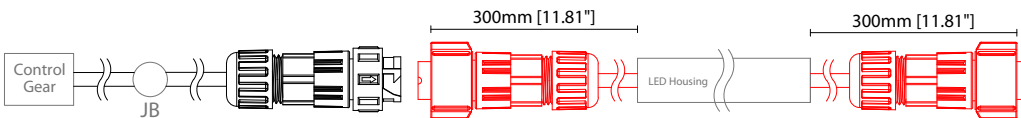
0300 D00A 300mm (11.81") Double ø4.3mm sheath tail



0300 S67A 300mm (11.81") Single ø4.3mm sheath IP67 connector

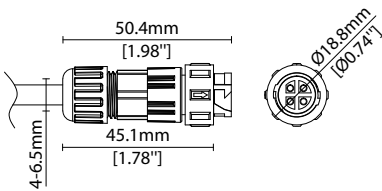


0300 D67A 300mm (11.81") Double ø4.3mm sheath IP67 connector

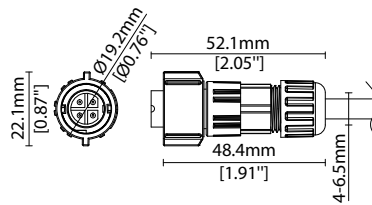


IP67 4 Pin Connector

Female connector
4 PIN (IP67)



Male connector
4 PIN (IP67)



Key

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

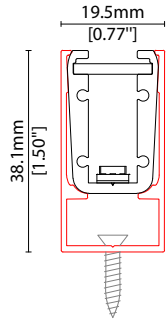
Linear

POKI 207 Accessories

KKDÖ

MOUNTING ACCESSORIES

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



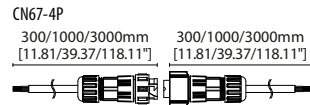
KKCR-02*

Channel
Anodised aluminium finish

W19.5/H38.1mm
(W0.77/H1.5")

* Specify length to match POKI

POWER FEED



IP67

CN67-4P-0300 300mm (11.81in) pair
CN67-4P-1000 1000mm (39.37in) pair
CN67-4P-3000 3000mm (118.11in) pair

IP67

4 PIN male + female (RGB/LEDmix) connector set

EXTERIOR JUNCTION BOXES



KKJB-07

IP67 Slim J-Box
(including type A,B,C,D bushings)



KKJB-07R

Potting resin for IP67 Slim J-Box

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