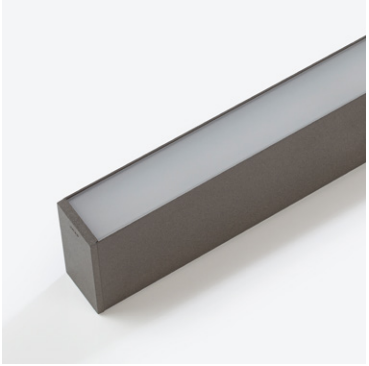
General

KOH 40-S Full Spectrum

Specification sheet

100-240V AV | 18.5W/37W/55.5W | ≤ 45.4 lm/W | IP40 | CE

Dimension	H84.5/W42.8/L580-1700mm (H3.33/W1.68/L22.83-66.93in)	
Unit length	560/1120/1680mm (22.05/44.09/66.14in)	
Chip	**Full Spectrum**	Toyoda Gosei, Epistar
Beam angle	130° (diffuser) /60° (Dark Louvre)	
Colours	**Full Spectrum**	2700K/3000K
Bin/Step	**Full Spectrum**	3 Step MacAdam ellipse
CRI	≥ 95	
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)	
Operating temp	T_a = -20 to 45°C (T_c max = 62.9°C) T_a = -4 to 113°F (T_c max = 145.2°F)	
IP rating	IP40	
Finish	Matt Silver/Grey/White/Black/Bronze Powder Coated	
Cover/lens	Diffused/Prismatic/Louvre + Frosted Cover	
Mounting	Surface mounting via screw fixing, suspended via suspension kit	
Connection	Hardwire tails	
Control	0-10V/DALI (Integrated Power Supply)	



LED Grading Key

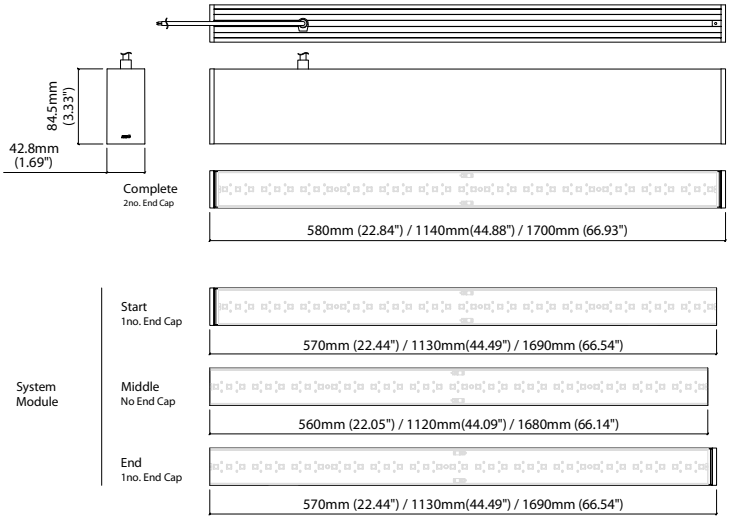
Full Spectrum*
Full visible spectrum NO UV or IR 380nm–780nm
3-step CCT range

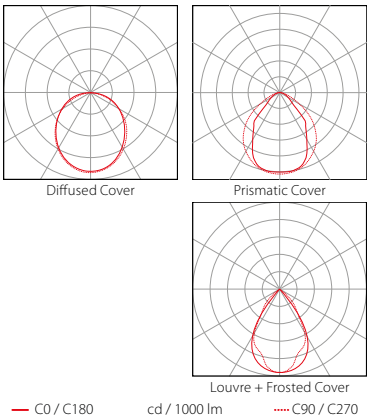
**KKDC tuned CCT range*

PERFORMANCE DATA @ 3000K / @ 580MM COMPLETE MODULE (22.84IN)

Power Consumption	Supply voltage	Supply current	Power factor:
18.5W	240V AC 50Hz	0.085A	0.94 @ 239.99V, 50Hz

	Diffused Cover	Prismatic Cover	Louvre + Frosted Cover	CRI	R9	Rf	Rg
Full Spectrum	720lm 38.3lm/W	850lm 45.4lm/W	350lm 18.4lm/W	95	74	94	100





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

General

KOH 40-S Full Spectrum
Installation Guide

PRODUCT CARE AND HANDLING

- KKDC products are delivered in appropriate packaging. Any handling instructions on the packaging must be observed. Products should remain in packaging 'as delivered' until installation or for ongoing transportation and storage.
- Inspect products carefully before installation. Do not proceed to install any product that may have been damaged in transportation, storage or handling.
- Handle with care. Many KKDC products contain precision electrical components and are not designed to withstand excessive stresses from tension or compression.
- Please follow standard ESD (Electrostatic discharge) protection measures when handling and installing KKDC LED products.

SAFETY AND WARRANTY

- Installation is only to be carried out by suitably qualified persons in accordance with installation instructions and all applicable regulations or standards. (Improper installation can create an electrical hazard with risk of electric shock, fire or injury).
- KKDC will not be held responsible for any consequences arising from improper product handling, storage or installation.
- KKDC products must be installed as supplied. Disassembly, modification or attempted repair will invalidate warranty and may create an electrical hazard.
- The KKDC product warranty is available with this document or on our website – **www.kkdc.lighting**.

PREPARATION

- Install KKDC products in accordance with the Wiring and Mounting instructions supplied with the product, using the recommended accessories, tools and fixings where specified.
- Product specification and installation information is also available from the KKDC website **www.kkdc.lighting**.
- Products should only be installed in areas appropriate to their IP rating, operable temperature and humidity range.
- Carefully plan and check the physical layout and circuit structure of the installation before starting work. Note wiring methods, cable type and connection points along with positioning and rating of power supplies and any control gear. Refer to all product information – including that for power supplies/control gear – and confirm choice of power supply, control gear, cable thickness and cable length.
- For safe and reliable operation KKDC LED products must only be used with suitable KKDC supplied or recommended power supplies and control gear. Contact KKDC for further information.
  (North America – Use only UL listed Class 2 power supplies with KKDC products – See also Installation Guide – Wiring)
- The KKDC LED products in this guide require **12V DC** or **24V DC** 'constant voltage' power supplies as indicated in product specifications.

AFTER INSTALLATION

- KKDC products are designed to be maintenance free however accumulated dust may be removed from the emitting surface of luminaires with careful use of a soft dry cloth.
- Ensure that paints, organic solvents and caustic or corrosive cleaning chemicals do not come into contact with KKDC products.
  For example **DO NOT USE** –
  - Benzene, Toluene, Xylene, Acetone, Carbon tetrachloride, Gasoline, Ether,
  - Sodium/Calcium hydroxide, Sodium Carbonate.
- For cleaning or sanitization – products in sealed IP rated housings may be wiped with a soft cloth dampened with an alcohol cleaner or with cool, soft water diluted (5% or less) bleach (Sodium Hypochlorite) solution.
- Please retain this information and pass to those responsible for installation/site maintenance.

Note: KKDC may change product specifications and installation guidance without prior notice.

General

KOH 40-S

Installation Guide – Mounting

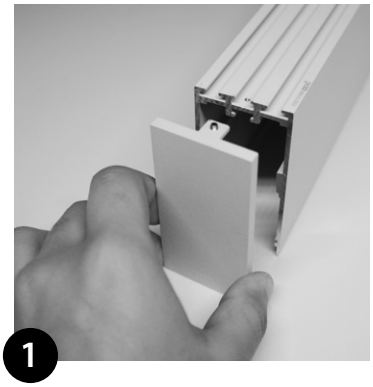
READ BEFORE INSTALLATION

- The mounting surface to which any KKDC product is attached must not carry any electrical potential and metallic surfaces must be earthed. Avoid physical contact between adjacent LED products.

Prepare, measure and mark the installation location and mounting surfaces before fixing. Any machining or drilling etc. should be completed before mounting. KKDC products and their immediate installation area should be kept clean, dry and free of paints and solvents during and after installation.

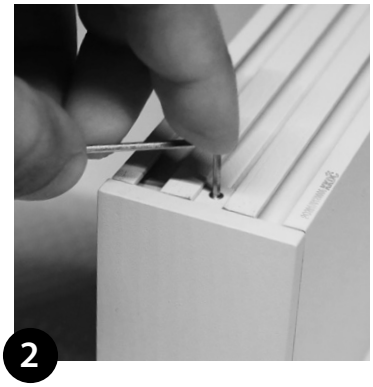
- Ensure that products are mounted with supplied, recommended or appropriate screws and fixings to suit the surface material.
- Mount products so that cables and connectors will not come under excessive stress and position accessories, wiring and connectors where they will not cast shadows.

MOUNTING – END CAP FOR KOH 40-S



1

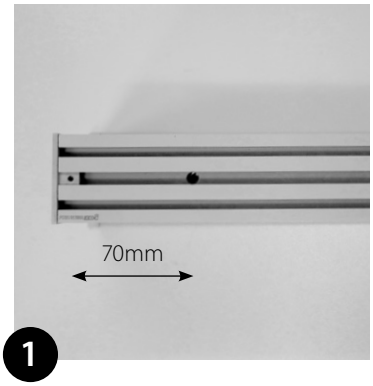
Position end cap.



2

Lock end cap with grub screw/hex key.

MOUNTING – FIXING HOLES FOR KOH 40-S



1

Position of fixing holes.

Note: This guide is produced from testing under 'average' conditions and does not represent all possible applications or installation circumstances.
Please contact KKDC for further information.
KKDC may change product specifications and installation guidance without prior notice.

General

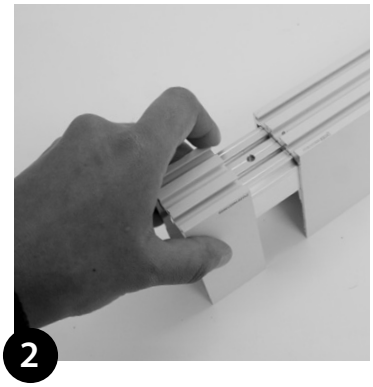
KOH 40-S

Installation Guide – Mounting

MOUNTING – JOINING BAR FOR KOH 40-S



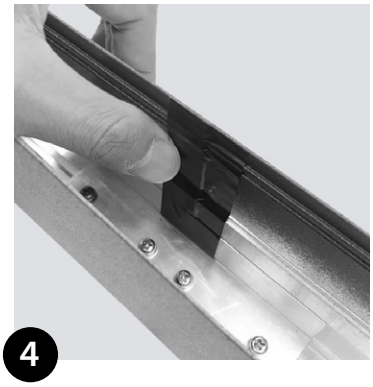
1 Assemble joining bar.



2 Insert joining bar into housing.

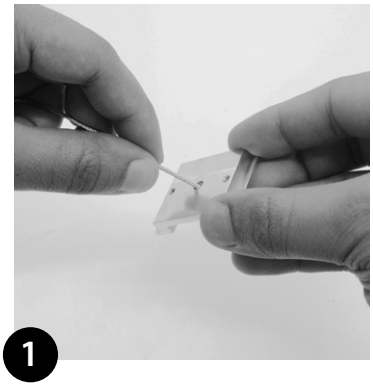


3 Tighten 4x screws.

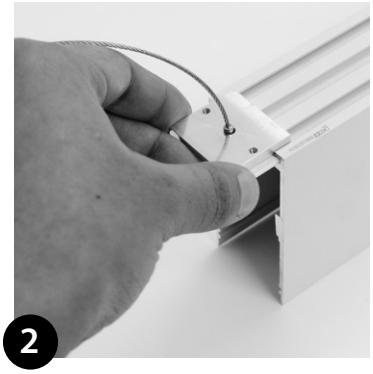


4 Attach strip of black tape to inside edge of housing

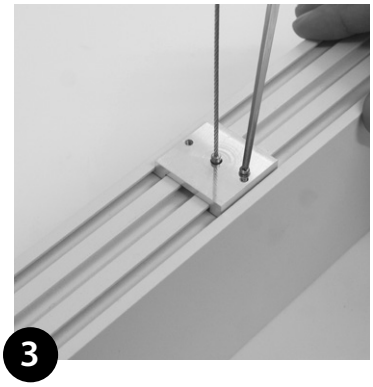
MOUNTING – SUSPENSION KIT FOR KOH 40-S



1 Thread Suspension Wire into hole on the clip (min. 2 per metre/40").



2 Insert clip into slot of housing.

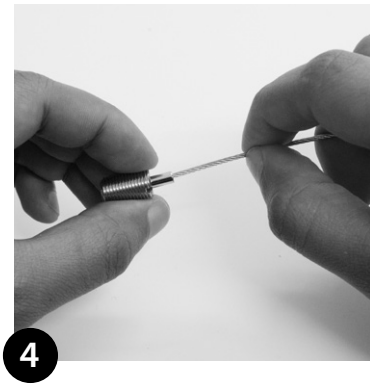


3 Pull the Suspension Wire tight after assembly to make sure Clip is secure. Tighten 2x screws.

Note: This guide is produced from testing under 'average' conditions and does not represent all possible applications or installation circumstances.
Please contact KKDC for further information.
KKDC may change product specifications and installation guidance without prior notice.

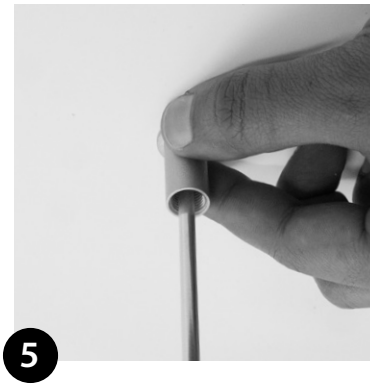
KOH 40-S
Installation Guide – Mounting

MOUNTING – SUSPENSION KIT FOR KOH 40-S (CONTINUED)



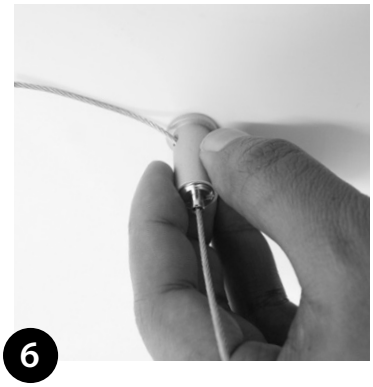
4

Thread the other end of Suspension Wire into Suspension Screw.



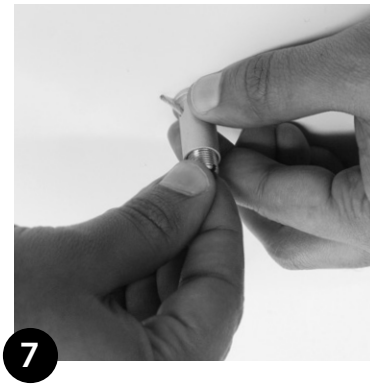
5

Mount Suspension Kit Body on to the ceiling.



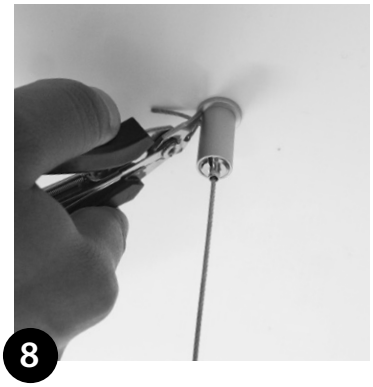
6

Thread the Suspension Wire through the hole on the side of Suspension Kit Body.



7

Tighten the Suspension Screw in a clockwise direction.



8

Cut the Suspension Wire to the desired Wire length.

Note: This guide is produced from testing under 'average' conditions and does not represent all possible applications or installation circumstances.
Please contact KKDC for further information.
KKDC may change product specifications and installation guidance without prior notice.

Product Warranty

In the unlikely event that purchasers should experience a product failure, this should in the first instance be dealt with by contacting the supplier or local authorised KKDC representative.

Our warranty is provided in addition to any statutory legal rights and details the terms under which claims can be made.

1. Duration of Warranty

This warranty applies to all KKDC manufactured products for 3 years from the date of installation (or date of manufacture if the installation date is not known or verifiable) An extended 5 year warranty may be offered at the discretion of KKDC if appropriate project registration criteria are met.

2. Repair or Replacement

Should a KKDC product fail to function within the warranty period, KKDC will on its sole discretion provide a replacement free of charge or repair defective components in accordance with the terms set out below. Purchasers shall bear the cost of removal and return of any product subject to a warranty claim and that of installing a replacement. Any other costs, including but not limited to replacement costs upon installation; costs caused from failures of the installation or other damages and/or consequential damages are not covered by this warranty.

Replacement products shall as far as possible match the specification of the original but may have superior performance characteristics in line with ongoing product development.

3. Return of a Defective Product

The purchaser making a warranty claim shall contact KKDC (or their authorised representative) at the earliest opportunity to be provided with an address for return of the product. On receipt of returned product/s the validity of the claim will be checked. Proof of purchase may be required.

KKDC reserve the right to conduct diagnostic examination of any defective or failed product to determine patterns of usage and cause of failure and reserve the right to be the sole judge as to whether a returned product is defective within the terms of this warranty.

4. Notes / Conditions of Warranty

This warranty applies only to defects in materials and workmanship and only where KKDC Products are properly handled, stored, installed, wired and maintained in accordance with the most recent published KKDC product usage guides, installation instructions, specification sheets, and any applicable local electrical safety standards and wiring regulations.
(The most recent versions of KKDC product documentation are available from the website **www.kkdc.lighting**)

This warranty does not constitute any inference as to the suitability of any product for any purpose. In no event shall KKDC be liable for any other costs or damages including lost profits, incidental, special or consequential damages.

Warranty claims will be invalid in the event of :

- Product damage due to abuse, unauthorised alteration or modification, accident, fire, flood, lightning, rodents, insects, negligence or acts of God.
- Product installation by unqualified persons.
- Product modification, disassembly or attempted repair by non KKDC staff.
- Product installation or storage in 'abnormal' conditions or locations, including but not limited to those where :
  - Ambient Temperatures are in excess of 60 Deg C.
  - Installation in areas of excessive humidity.
  - Any product subjected to excessive mechanical stress, or physical damage.
  - Inadequate heat sinking provision for any unhoused 'bare PCB' type LED product.
  - IP67 class luminaires installed without adequate local drainage, or becoming immersed in water.
- Chemical contamination or damage from salt laden air.
- Damage from use of pressure washers or other mechanical cleaners.
- Improper use of 'sanitizing products' and maintenance using improper or unapproved chemical compounds/solvents.
- Unauthorised use of parts or accessories not manufactured by KKDC in conjunction with KKDC Products.
- 'Constant Voltage' (CV) KKDC LED Products supplied with incorrect voltage.
- 'Constant Current' (CC) KKDC LED products supplied with incorrect current.
- Incorrect layout, cutting and connection of wiring; intermittent or improper mains electrical supply.
- Product/s having damaged serial number, cable or Certificate labels.
- Product/s which have been installed more than once or have not been returned promptly and directly to KKDC for fault diagnosis and testing.

5. Warranty contacts

Warranty claims can be made only by the original purchaser by contacting KKDC or local KKDC authorised representative details of which can be found via the supplier or on the website – **www.kkdc.lighting**.

6. Implied Terms

6.1 Subject to sub-clause 6.2, any condition or warranty which would otherwise be implied is excluded.

6.2 Where legislation implies any condition or warranty, and that legislation avoids or prohibits provisions in a contract excluding or modifying the application of or exercise of or liability under such condition or warranty, the condition or warranty shall be deemed to be included in this warranty. However the liability of KKDC for any breach of such condition or warranty shall be limited, at the option of KKDC, to the following:

If the breach relates to any KKDC Product:

(i) the replacement or the supply of equivalent KKDC Product;
(ii) repair of product (excluding costs of removal and installation);
(iii) payment of the cost of replacement or of acquiring equivalent product; or
(iv) payment of the cost of repair of product (excluding costs of removal and installation).

Note: KKDC reserves the right to make changes to product specifications and installation guidance without prior notice.

General

KOH 40-S
Code Table

Housing	Finish	Cover	LED Type	Colour (CCT)	Length Availability	Lens	Module Type[2]	Control Type (Internal control)	Voltage
KOH 40-S GA	Matt white paint MW	Louvre Q	Full Spectrum 532B	2700K 27K	560mm M 0560	No Lens x	Complete 1	0-10V 4	AC 100V b
	Matt silver paint MS	Diffused C		3000K 30K	1120mm M 1120		Start 2	DALI 3	AC 220-240V d
	Matt grey paint MG	Prismatic G	High CRI 630A	2700K 27K	1680mm M 1680		Middle 3		
	Matt black paint MB			3000K 30K			End 4		
	Bronze paint BP			3500K 35K					
				4000K 40K					
				5000K 50K					
		Louvre Q	High Power[1] 957A	2700K[1] 27K	560mm M 0560	No Lens x			
				3000K[1] 30K	1120mm M 1120	10° a			
				3500K 35K	1680mm M 1680	20° b			
				4000K 40K		30° c			
				5000K 50K		Spread e			

[1] High Power: 90CRI - 2700K/3000K

[2] **Module Type (various fixture lengths)**

Complete	1	
Start	2	
Middle	3	
End	4	

Code Example:

GA	MW	-	C	-	630A	-	27K	-	M 1120	-	x	-	1	-	4	-	d
KOH 40-S	Matt white paint		Diffused		High CRI		2700K		1120mm		No Lens		Complete		0-10V		AC 220-240V

General

KOH 40-S
Accessories

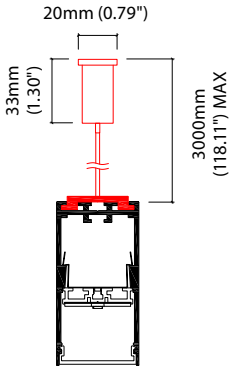
MOUNTING OPTIONS



KKSW-07

Suspension Mounting Kit
(Allow 2 per metre/40")

Aluminium finish





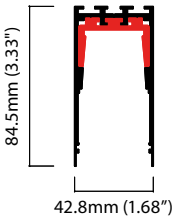
KKSW-08

Ceiling Rose
Dia 127mm (5") x H 6.35mm(0.25")
Maximum weight 20kg per/kit



KKJT-03

Joining Bar
(Allow 1 per join)



POWER CABLE



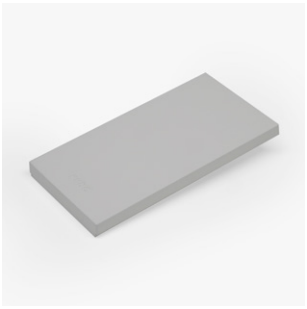
KKCN-26

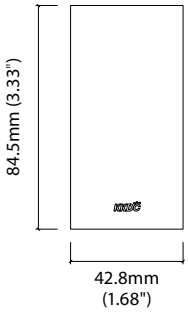
Power Feed Cable

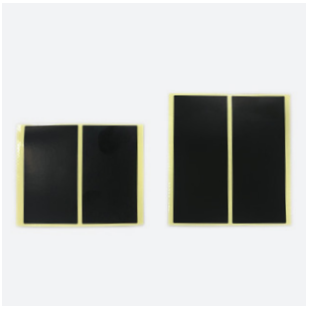
General

KOH 40-S
Accessories

END CAPS & LIGHT LEAK TAPE







KKEC-S1 (2no.) - End cap pair (Mat White)
KKEC-S2 (2no.) - End cap pair (Mat Silver)
KKEC-S3 (2no.) - End cap pair (Mat Gray)
KKEC-S4 (2no.) - End cap pair (Mat Black)
KKEC-S5 (2no.) - End cap pair (Bronze)

Black Tape (Prevents light leak)