

KIMBAL Range INSTALLATION INSTRUCTIONS



KA4 Adjustable Recessed Downlight

KA418 (1) 150mA

KA438 (3) 350mA

KA428 (2) 250mA

KA458 (5) 500mA

IP 20

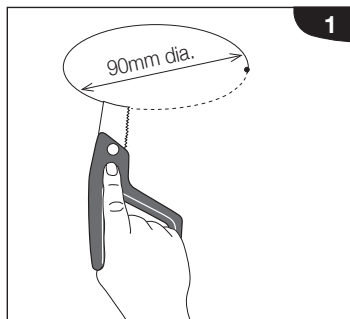


Complies with IEC60598
Complies with AS/NZS60598
RoHS compliant

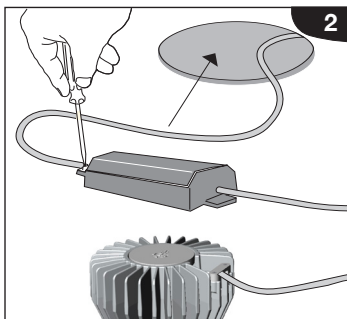
Note: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Supply voltage 220-240V 50 Hz

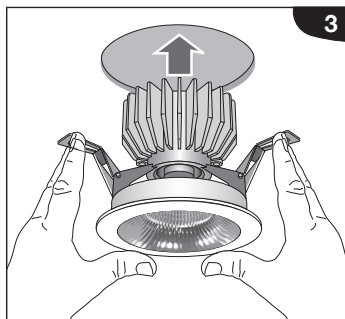
ADJUSTABLE DOWNLIGHT INSTALLATION



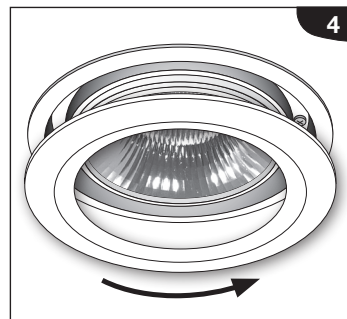
1. Cut 90mm diameter mounting hole



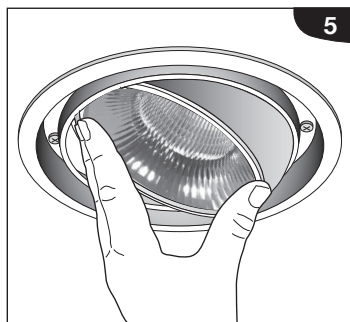
2. Connect driver, then insert into ceiling space



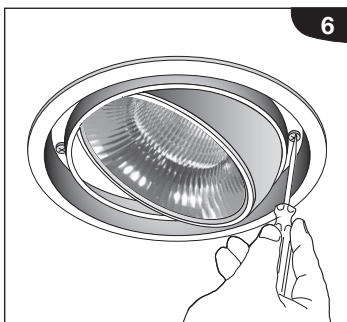
3. Gently insert downlight into ceiling while holding back mounting clips



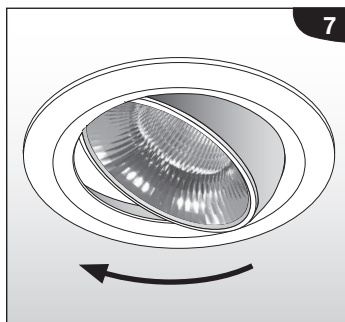
4. Remove ceiling plate (turn anti-clockwise)



5. Adjust body to desired beam position

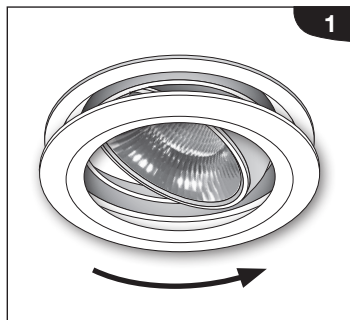


6. Tighten both beam direction locking screws

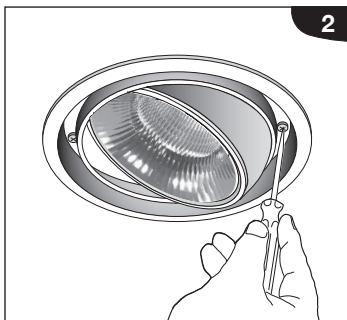


7. Install ceiling plate

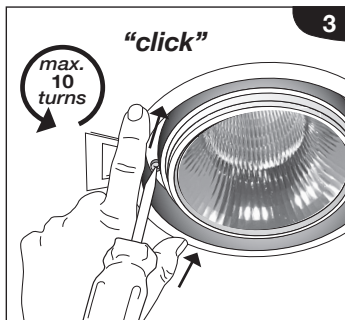
TO REMOVE ADJUSTABLE DOWNLIGHT



1. Remove Ceiling Plate (turn anti-clockwise).



2. Loosen Beam Direction Locking Screws and adjust Body to vertical position in chassis, tighten Beam Direction Locking Screws.

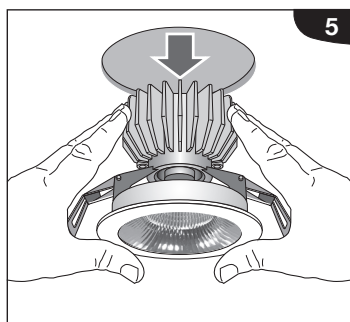


3. **Push downlight firmly against the ceiling** while unscrewing adjoining beam direction locking screw until the torsion mounting spring is released.*



4. Repeat Step 2 by unscrewing second beam direction locking screw.*

* **Do not use power screwdriver. Do not unscrew locking screw more than necessary (max. 10 turns).**

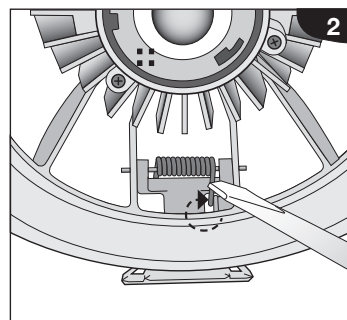
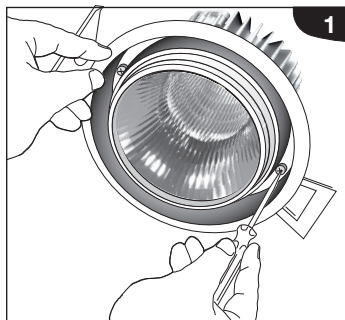


5. Gently remove downlight from ceiling.

TO RE-ENGAGE TORSION MOUNTING SPRING

1. Loosen Beam Direction Locking Screws and adjust Body to vertical position in chassis, tighten Beam Direction Locking Screws.

2. Using screwdriver, engage both tails of each torsion spring by pushing tails behind lugs on clamping ring.



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Complies with IEC60598
Complies with AS/NZS60598
RoHS compliant

IP 20



Note: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Note: If the external flexible cord of this luminaire is damaged it shall be replaced by the manufacturer, its service agent or a similarly qualified person.

Supply voltage 220-240V 50 Hz



LED PERFORMANCE GUIDE | KA4 Adjustable Series | Flood Beam Option (8R) 60 degree

Watts (W)	Driver Current (mA)	Colour Temp 2700K 3000K 4000K	Ultra (KA4U)			Excel (KA4X)			Performance (KA4P)						
			Output Lumens			Efficacy Lm/W (delivered)			CRI / STEP SDMC			R9 Value			Insul- ation Class**
			U	X	P	U	X	P	U	X	P	U	X	P	
6.2	(1) 150	27	529	588	646	85	95	104	98/2	90/3	80/3	95	56	12	IC-4/IC-F
		3	587	631	726	95	102	117	98/2	90/3	80/3	95	56	12	IC-4/IC-F
		4	615	661	760	99	107	123	98/2	90/3	80/3	95	56	12	IC-4/IC-F
10.5	(2) 250	27	810	902	990	77	86	94	98/2	90/3	80/3	95	56	12	IC-4/IC-F
		3	900	968	1112	86	92	106	98/2	90/3	80/3	95	56	12	IC-4/IC-F
		4	942	1013	1165	90	96	111	98/2	90/3	80/3	95	56	12	IC-4/IC-F
14.2	(3) 350	27	1088	1211	1329	77	85	94	98/2	90/3	80/3	95	56	12	CA90
		3	1204	1295	1500	85	91	106	98/2	90/3	80/3	95	56	12	CA90
		4	1265	1361	1564	89	96	110	98/2	90/3	80/3	95	56	12	CA90
20	(5) 500	27	1467	1632	1792	73	82	90	98/2	90/3	80/3	95	56	12	CA90
		3	1631	1754	2016	82	88	101	98/2	90/3	80/3	95	56	12	CA90
		4	1705	1834	2108	85	92	105	98/2	90/3	80/3	95	56	12	CA90

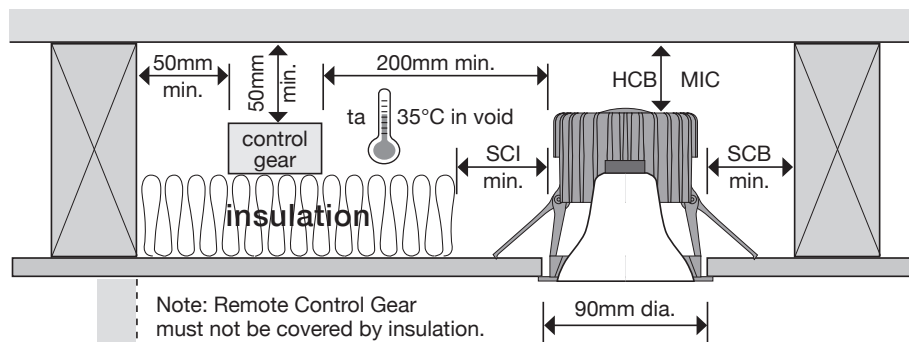
LED Lifetime hrs L90/B10 > 50,000

**Excludes Driver

* Figures extrapolated / interpolated from data at other currents and may vary + / -2.5%

Output Lumens: Delivered lumen output from luminaires, including thermal, electrical and optical losses

BUILDING ELEMENT CLEARANCES



Note: Remote Control Gear must not be covered by insulation.

For Specific Driver Details Refer:

PHILIPS = www.lighting.philips.com

TRIDONIC = www.tridonic.com

TCI = www.tcisonno.com

Intended for indoor use only t_a 25°C

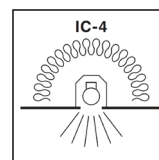


For HCB, SCB and SCI dimensions – refer right.

WARNING

Risk of overheating or fire if the clearance distances are compromised.

CLASSIFICATIONS



IC-4 LUMINAIRE

Restricted access

In this Standard, this is assessed for access to high temperature parts by use of a IP4X-1mm probe to sides, top and front face of luminaire. 90°C limit on side or top or mounting surface of luminaire.

Suitable for residential or commercial use in Australia and New Zealand.

Used where air transfer is not permitted or not desired between living space and roof space (there will be no air transfer between spaces even if there is no insulation covering the luminaire).

Typical use is passive house design where no air transfer is allowed.

These luminaires have been tested to show that they are suitable for normal use when covered in building insulation.

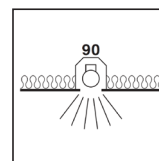
Not verified as tested/compliant to Australian/ New Zealand standards.

Marking is required by standards—no marking indicates noncompliance.

Installation instructions specifying any clearance distance is required by this Standard.

Do not install any luminaire that does not have one of the marking symbols or instructions specifying any clearance distances.

NOTE: For luminaires installed prior to the publication of this Standard (AS/NZS 60598.2.2:201X), which do not have marking and/or installation instructions with clearance distances specified, refer to AS/NZS 3000.



CA90 LUMINAIRE

HCB = 50mm

SCB = 50mm

MIC = 50mm

SCI = 0mm (Abutted)

Risk of fire – Building insulation must not cover this luminaire.

Building insulation may abut the luminaire.

Required clearance from structural members and building elements.

HCB = Minimum Height Clearance Building Element

SCB = Minimum Side Clearance Building Element

SCI = Minimum Side Clearance Insulation

MIC = Minimum Insulation Clearance