

Note: The light source contained in this

luminaire shall only be replaced by the

manufacturer or his service agent or a

Note: If the external flexible cord of this

luminaire is damaged it shall be replaced by the manufacturer, its service agent or

similar qualified person.

a similarly qualified person.

E

KF4 Fixed Recessed Downlight

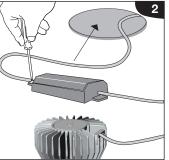
- KF418 (1) 150mA KF428 (2) 250mA
- KF438 (3) 350mA
- KF458 (5) 500mA

- IP 20 Without Lens
- (LED Optical Chamber) With factory fitted Lens
- **IP 54** With site fitted Lens
- FIXED DOWNLIGHT INSTALLATION

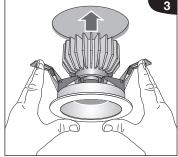
1



1. Cut 90mm diameter mounting hole.



2. Connect driver, then insert into ceiling space.



Complies with IEC60598

Complies with AS/NZS60598

RoHS compliant

- Un: 220-240V fn: 50/60HZ

- Rated wattage 6-20W

- Uout: 34-38VDC

- PF 0.9C

 Gently insert downlight into ceiling while holding back mounting clips.

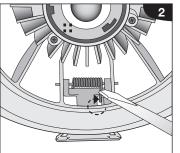


 Ceiling ring/reflector assembly can be removed (turn anticlockwise) to allow for cleaning/ painting ceiling.

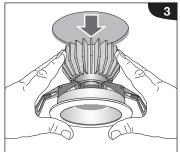
TO REMOVE FIXED DOWNLIGHT



1. Remove ceiling ring/reflector assembly (turn anti-clockwise).



2. Disengage tail of torsion spring by pushing tail behind lug.



3. Gently remove downlight from ceiling.

TO FIT LENS ACCESSORY - FIXED RECESSED DOWNLIGHT



1. Remove ceiling ring/reflector assembly (turn anti-clockwise).



 Recessed Reflector Option

 fit Lens Accessory into Ceiling Ring.

Flush Reflector Option – fit Lens Accessory Into Reflector.



 Re-assemble Reflector Assembly (Reflector, Lens and Ceiling Ring) and install assembly into downlight by turning clockwise. Ensure reflector is fully seated into ceiling ring.



ALL LENSES Ensure Recessed Lens is correctly seated into reflector, as shown here.

LENS ACCESSORY NOTE:

Prismatic Lens Smooth surface facing light source.

Diffusion Lens Matt surface facing light source.





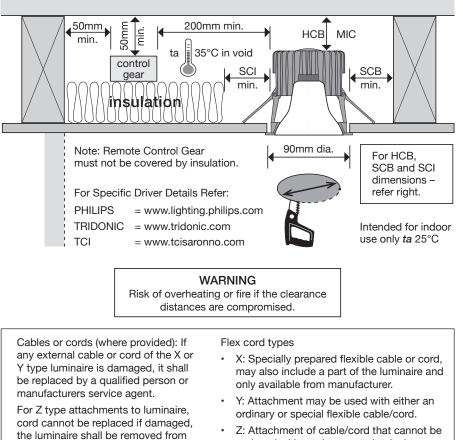
LED PERFORMANCE GUIDE | KF4 Fixed Series | Flood Beam Option (8R) 60 degree

Watts	Driver	Colour		Excel (KF4X)				Performance (KF4P)							
	Current	Temp	Output			Efficacy			CRI / STEP SDMC			R9			Insul-
(W) (mA)		2700K 3000K	Lumens			Lm/W (delivered)				Value			ation		
()	(,	4000K	U	х	Р	U	Х	Ρ	U	х	Р	U	х	Р	Class**
		27	547	608	716	88	98	116	98/2	90/3	80/3	95	56	12	IC-4/C-F
6.2	(1) 150	3	607	653	752	98	105	121	98/2	90/3	80/3	95	56	12	IC-4/C-F
		4	636	684	787	103	110	127	98/2	90/3	80/3	95	56	12	IC-4/C-F
	(2) 250	27	885	985	1159	84	94	110	98/2	90/3	80/3	95	56	12	IC-4/C-F
10.5		3	985	1059	1219	94	101	116	98/2	90/3	80/3	95	56	12	IC-4/C-F
		4	1029	1107	1274	98	105	121	98/2	90/3	80/3	95	56	12	IC-4/C-F
	(3) 350	27	1159	1292	1524	82	91	107	98/2	90/3	80/3	95	56	12	IC-4/C-F
14.2		3	1290	1387	1597	91	98	112	98/2	90/3	80/3	95	56	12	IC-4/C-F
		4	1348	1452	1675	95	102	118	98/2	90/3	80/3	95	56	12	IC-4/C-F
20	(5) 500	27	1620	1803	2122	81	90	106	98/2	90/3	80/3	95	56	12	IC-4/C-F
		3	1802	1938	2231	90	97	112	98/2	90/3	80/3	95	56	12	IC-4/C-F
		4	1884	2026	2332	94	101	117	98/2	90/3	80/3	95	56	12	IC-4/C-F
LED Li	LED Lifetime hrs L90/B10 > 50,000						**Excludes Driver								

* Figures extrapolated / inrepolated 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



Z: Attachment of cable/cord that cannot be replaced without damage to luminaire.

CLASSIFICATIONS



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.

<u> 200000</u> /	90 [5] [////	<u>, , , , , , , , , , , , , , , , , , , </u>	CA90 LUMI HCB SCB MIC SCI	NAIF = =	50mm 50mm						
Risk of fire – Building insulation must not cover this luminaire.											
Buildir	ng in	sulatior	n 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	=	Minim	num Sic	le Cl	earance Insulation						
MIC		N 41:00 1:00									

service.



4

Note: The light source contained in this

luminaire shall only be replaced by the

manufacturer or his service agent or a

Note: If the external flexible cord of this

luminaire is damaged it shall be replaced by the manufacturer, its service agent or

4. Remove ceiling plate (turn anti-

clockwise)

similar qualified person.

a similarly qualified person.

E

KA4 Adjustable Recessed Downlight

- KA418 (1) 150mA KA428 (2) 250mA KA438 (3) 350mA
- KA438 (3) 350mA KA458 (5) 500mA

IP 20 Without Lens

2. Connect driver, then insert into

ceiling space

screws

- **IP 65** With factory fitted Lens
- **IP 54** With site fitted Lens
- ADJUSTABLE DOWNLIGHT INSTALLATION

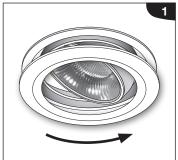


1. Cut 90mm diameter mounting hole



5. Adjust body to desired beam position

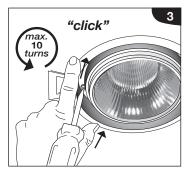
TO REMOVE ADJUSTABLE DOWNLIGHT



1. Remove Ceiling Plate (turn anticlockwise).



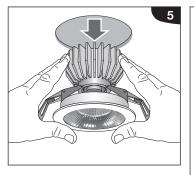
2. Loosen Beam Direction Locking Screws and adjust Body to vertical position in chassis, tighten Beam Direction Locking Screws.



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



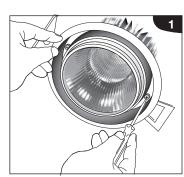
- 4. Repeat Step 2 by unscrewing second beam direction locking screw.*
- * Do not use power screwdriver. Do not unscrew locking screw more than necessary (max. 10 turns).

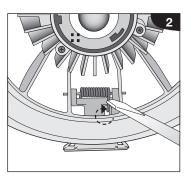


5. Gently remove downlight from ceiling.

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







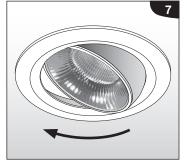
Complies with AS/NZS60598 RoHS compliant

6

Rated wattage 6-20W
 Un: 220-240V fn: 50/60HZ

Complies with IEC60598

- Uout: 34-38VDC
 PF 0.9C
- 3. Gently insert downlight into ceiling while holding back mounting clips



6. Tighten both beam direction locking 7. Install ceiling plate





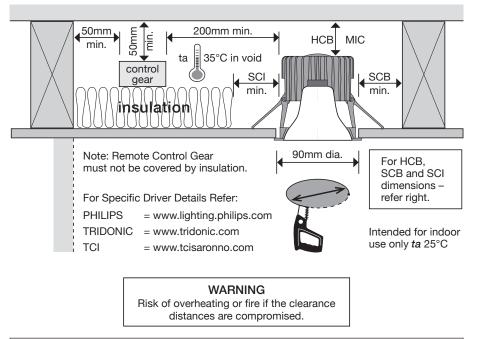
LED PERFORMANCE GUIDE | KA4 Adjustable Series | Flood Beam Option (8R) 60 degree

Watts	Driver	Colour	Ultra (KA4U)			Excel (KA4X				Pe					
(W)	Current Temp 2700		o Output K Lumens		Efficacy Lm/W (delivered)			CRI / STEP SDMC			R9 Value			Insul- ation Class**	
		4000K	U	Х	Р	U	Х	Ρ	U	х	Р	U	х	Ρ	01055
		27	529	588	646	85	95	104	98/2	90/3	80/3	95	56	12	IC-4/IC-F
6.2	(1) 150	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 Lif	etime hrs	L90/B10	> 50,0	000		**Ex0	cludes	s Drive	r						

* Figures extrapolated / inrepolated 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



Cables or cords (where provided): If any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufacturers service agent.

For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

- Flex cord types
 - X: Specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacturer.
- Y: Attachment may be used with either an ordinary or special flexible cable/cord.
- Z: Attachment of cable/cord that cannot be replaced without damage to luminaire.

CLASSIFICATIONS

LUMINAIRES



IC-4

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.

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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.

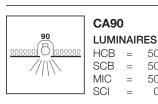
Not verified as tested/compliant to Australian/ New Zealand standards.

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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.



50mm =

50mm = =

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50mm
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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.

=	Minimum Height Clearance Building Element
=	Minimum Side Clearance Building Element
=	Minimum Side Clearance Insulation
=	Minimum Insulation Clearance
	=



Lens Accessories for Adjustable and Fixed Recessed Downlights

Flush Lenses

- P Prismatic
- **D** Diffusion
- C Clear
- W Washlight
- Recessed Lenses
- P Prismatic
- **D** Diffusion
- C Clear

2

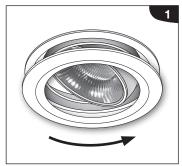
IP 65 From when factory fitted **IP 54** From below when site

fitted

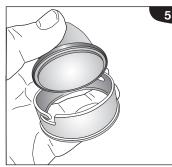
Complies with IEC60598 Complies with AS/NZS60598 RoHS compliant Supply voltage 220-240V 50 Hz



TO FIT LENS ACCESSORY – IF DOWNLIGHT IS INSTALLED (If downlight is not installed follow Steps 3 to 5).



1. Remove Ceiling Plate (turn anticlockwise).



5. Then insert lens/reflector into reflector retaining ring. Ensure the reflector is firmly in place.

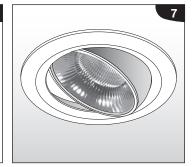
- 2. Loosen Beam Direction Locking Screws slightly to allow Body to be moved to vertical position.



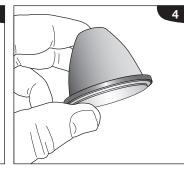
6. Re-assemble Reflector Assembly (Reflector, Lens and thermoplastic Ring) and install assembly into downlight by turning clockwise.



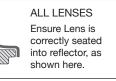
3. Remove Reflector Assembly (Thermoplastic ring and reflector) by turning anti-clockwise.



7. Re-adjust body to desired position and follow downlight installation instructions - (5-7 shown on seperate Instruction sheet).

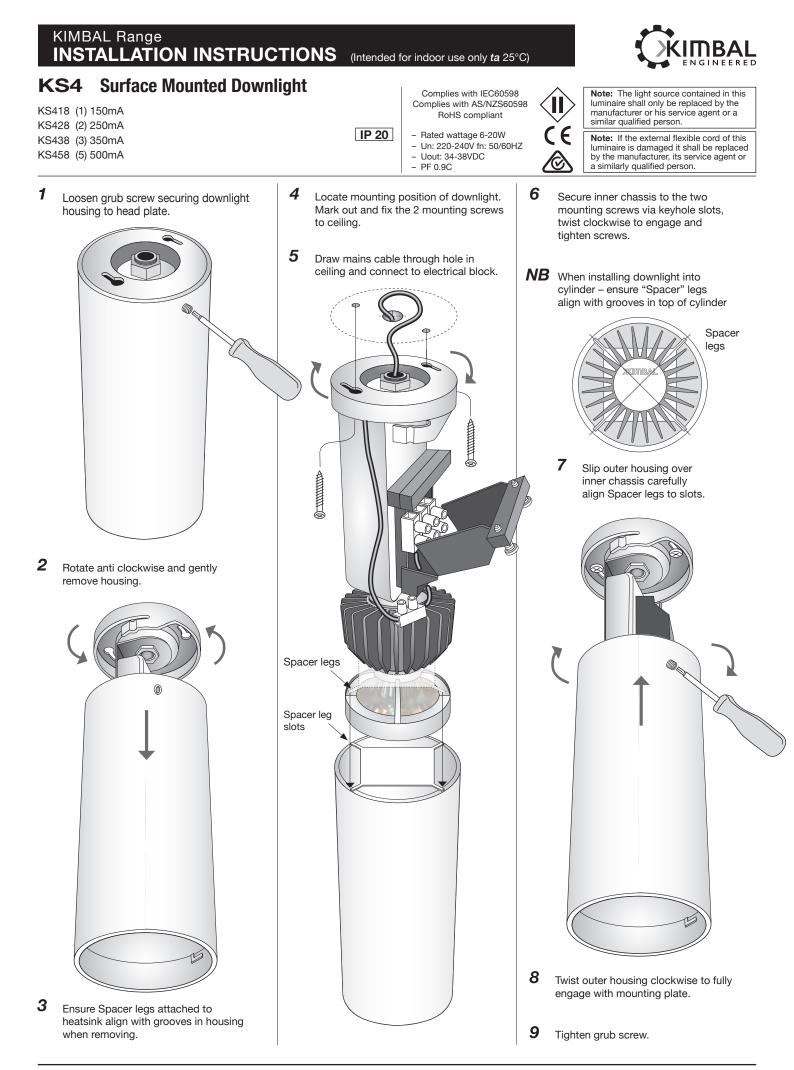


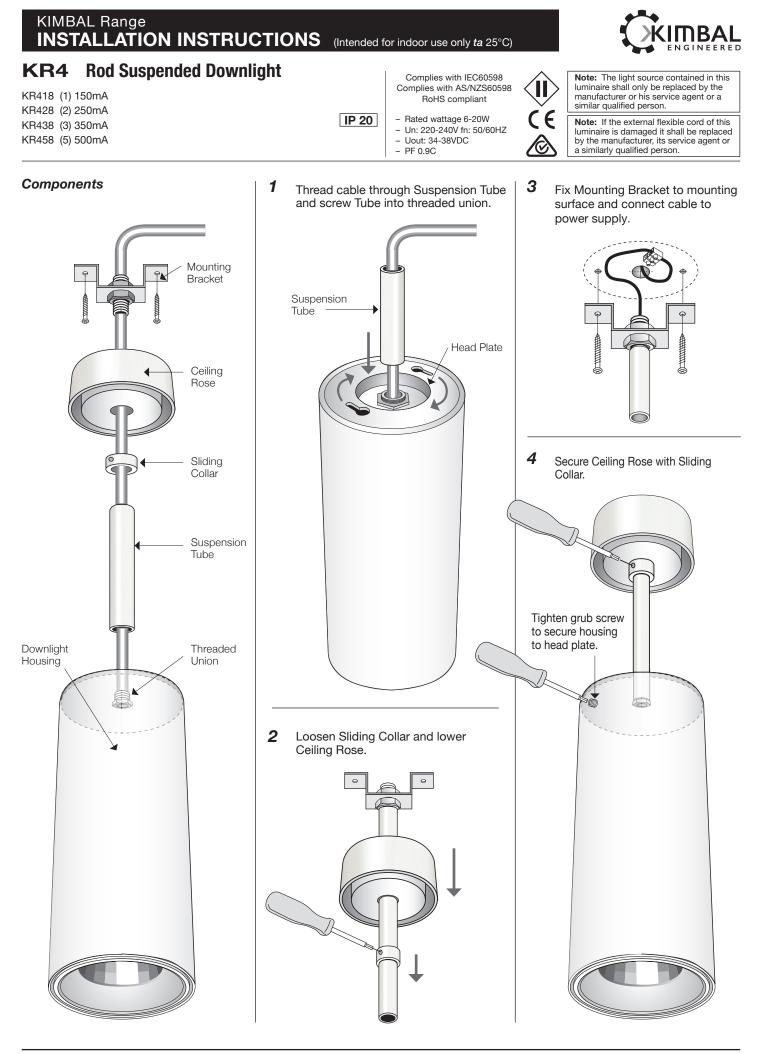
4. Flush Reflector Insert lens into reflector insuring it is correctly seated.

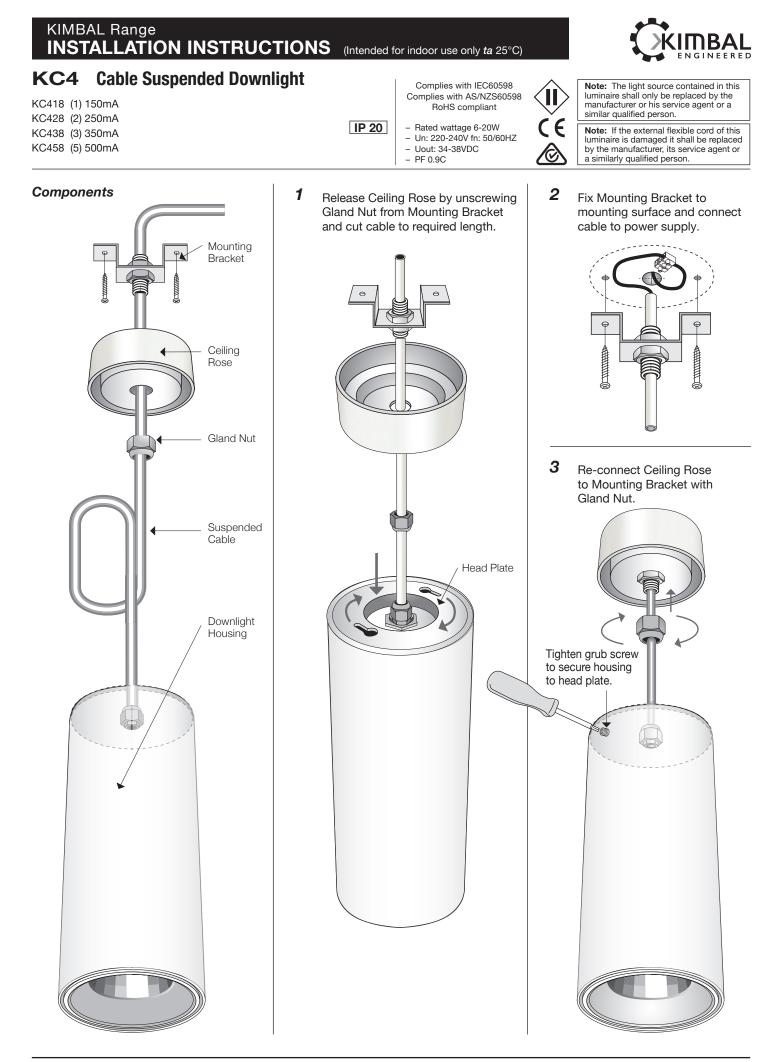


Lens Accessories Available (Can be fitted to chassis after installation)











Lens Accessories for Surface Mounted & Suspended Downlights

Flush Lenses

- P Prismatic
- **D** Diffusion
- C Clear
- Recessed Lenses P Prismatic
 - **D** Diffusion

- C Clear

- W Washlight

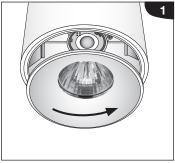
- IP 20 On Surface Mounted and Suspended Downlights.

Complies with AS/NZS60598 **RoHS** compliant Supply voltage 220-240V 50 Hz

Complies with IEC60598



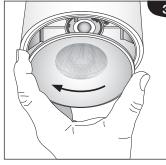
TO FIT LENS ACCESSORY



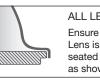
1. Remove ceiling ring/reflector assembly (turn anti-clockwise).



2. Recessed Reflector Option - fit Lens Accessory into Ceiling Ring. Flush Reflector Option - fit Lens Accessory Into Reflector.



3. Re-assemble Reflector Assembly (Reflector, Lens and Ceiling Ring) and install assembly into downlight by turning clockwise. Ensure reflector is fully seated into ceiling ring.



ALL LENSES Ensure Recessed Lens is correctly seated into reflector, as shown here.

LENS ACCESSORY NOTE: **Prismatic Lens** Smooth surface facing light source.

Diffusion Lens Matt surface facing light source.

Lens Accessories Available (Can be fitted to chassis after installation)

