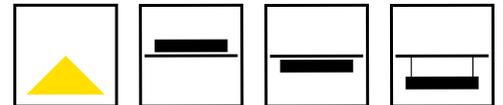


# RETROFIT LED

MADE-TO-MEASURE



## KEY FEATURES

- Retrofit LED solution for replacing/updating fluorescent lighting
- Small, Medium and Large gear trays / extruded reflectors, including LED's, drivers and fixing brackets
- Direct lighting with a choice of High Efficiency (650lm) or High Output (1100lm) PHILIPS Fortimo LED boards and Tuneable White or RGB LED
- Compact PHILIPS Xitanium fixed output drivers, or a range of control options including DALI, 1-10V, DMX or Switch-Dim
- Integrated 3-hour Standard or DALI Emergency



## PHILIPS



**60 YEARS**  
**IN LIGHT**

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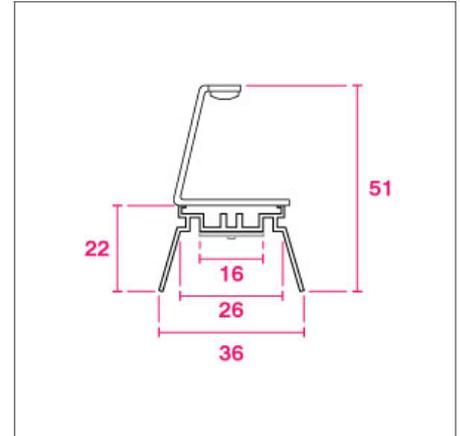
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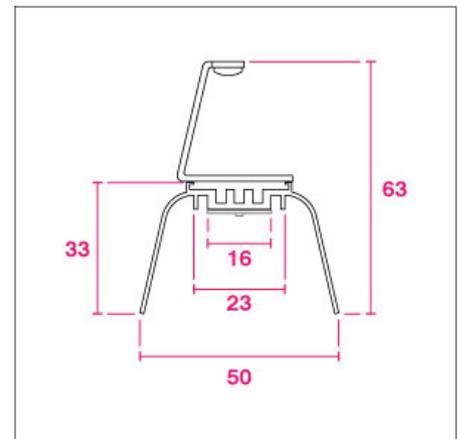
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## RETROFIT LED SPECIFICATIONS

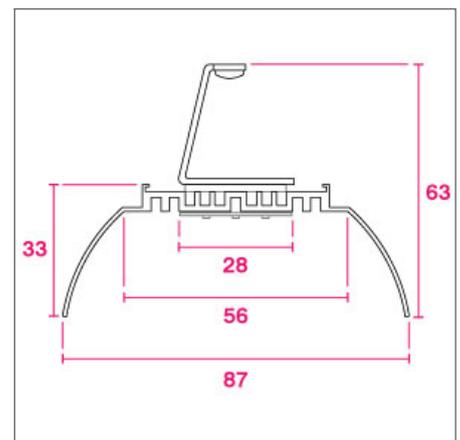
PRODUCT OPTIONS			
Internal Dimensions (mm):	36 (W) x 51 (H)	50 (W) x 63 (H)	87 (W) x 63 (H)
Weight (kg):	2 kg per Metre	3 kg per Metre	4 kg per Metre
Lifetime:	50,000 hrs		
Mounting type:	Retrofit Fluorescent replacement (within existing profile)		
Finish:	Matt White gear tray		
Emergency:	Standard or DALI 3-hour emergency conversion (30% lm output)		
Operating voltage:	230V		
IP Rating:	IP20 (IP54 on request)		
Light source:	Philips Fortimo LED, Tuneable White LED, RGB or RGBW LED		
Driver:	Fixed Output, 1-10V, DALI, DMX, Switch Dim.		
Colour temperature:	2700K (on request), 3000K, 4000K, Tuneable 2700K-5700K, RGBW		
Beam Angle:	N/A		
Diffuser:	Opal, MPO, Clear (If needed to replace existing solution)		
CRI:	> 80 or > 90 (depending on source choice)		
Optional Extras:	Diffuser on request (Opal/MPO/Clear)		



SMALL TRAY CROSS-SECTION (MM)



MEDIUM TRAY CROSS-SECTION (MM)



LARGE TRAY CROSS-SECTION (MM)

### MADE-TO-MEASURE LENGTHS\* WITH CUSTOMISABLE LED SOURCES

Small/Medium Gear Tray LED	Lumen Output*	Power
High Efficiency Linear 1R LED	2275 lm/M	13.3 W/M
High Output Linear 1R LED	3850 lm/M	21.7 W/M
Tuneable White 1R LED	1886.5 lm/M	10.5 W/M
Opteflex RGBW LED (24V)	750 lm/M (MAX)	30.8 W/M

Large Gear Tray LED	Lumen Output*	Power
High Efficiency Linear 3R LED	2275 lm/M	14.7 W/M
High Output Linear 3R LED	3850 lm/M	23.45 W/M
Tuneable White 1R LED	1886.5 lm/M	10.5 W/M
Opteflex RGBW LED (24V)	1500 lm/M (MAX - twin line)	61.6 W/M (twin line)

\* Source Outputs at 4000K - Many more options on request.  
Made-to-measure lengths based on 285mm board lengths.



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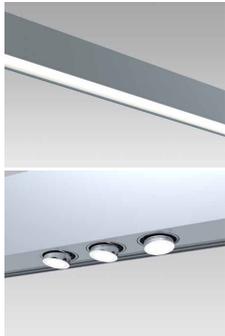
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## RETROFIT LED COMPONENTS



**OPAL DIFFUSER**  
Opal polycarbonate diffuser.

**INTEGRATED DOWNLIGHTS**  
Fixed or adjustable miniature downlights.



**MPO DIFFUSER**  
Micro Pyramidal Optic diffuser.

**INTEGRATED 230V TRACK**  
Flush-fitting 230V track for integrated spotlights and more.



**RGBW LIGHTING**  
24V RGB LED lighting options available.

**PIR SENSOR**  
Miniature Passive Infrared sensor for motion detecting.



**40W-60W DRIVER**  
Fixed Output 24V driver. Size: 162.5 x 42.5 x 32mm

**PHILIPS FORTIMO LED BOARDS**  
Linear LED boards for update/replacements.



**60W-100W DRIVER**  
Fixed Output 24V driver. Size: 190 x 52 x 37mm

**ARTICULATED LED BOARD**  
Tessellating LED boards for curves.



**DMX512 DECODER**  
3/4-channel decoder for RGB/RGBW. Size: 167 x 52 x 23mm

**QUAD SIDEWALL**  
Extruded Sidewall profile to build custom housing for existing apertures.

## EMERGENCY CONVERSION OUTPUTS

Up to 10 LED boards can be powered from a single LED driver and emergency conversion kit. Emergency converting solutions longer than 10 boards (3000mm) requires another driver and kit. The emergency kit runs the converted driver at 30% of its normal output in an emergency state. Each LED board connected to the driver will be illuminated for 3 hours emergency duration. Therefore, if a 10-board length emergency output is not bright enough, converting two 5-board lengths will increase the lumen output. Be aware of this as you plan your emergency scheme.



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## RETROFIT LED SPECIFICATION CODE

AAAA - BB/C/D/E - F/GGG - HHHH/I								
AAAA PRODUCT ID	BB MOUNTING	C GEAR TRAY	D DRIVER	E DIFFUSER	F DIRECT LED	GGG CRI/ COLOUR	HHH LENGTH (mm)	I EMERGENCY
RFIT	PI RE RT SM WM SP	S M L	F D 1 M S X*	O M	L H T X*	8TW 827 830 840 927 930 940 XXX*	XXXX* ENTER CUSTOM LENGTH	E DE

- \* **X** Custom Options - specify details alongside code
- MOUNTING **PI** Plaster-in, **RE** Recessed, **RT** Recessed Trimless, **SM** Surface Mounted, **WM** Wall Mounted, **SP** Suspended Parallel
- GEAR TRAY **S** Small Gear Tray, **M** Medium Gear Tray, **L** Large Gear Tray
- DRIVER **F** Fixed Output, **D** DALI, **1** 1-10V, **L** Leading & Trailing Edge, **M** Mains Dim, **S** Switch Dim
- DIFFUSER **O** Opal, **M** MPO
- DIRECT LED **L** Low power High Efficiency 650lm LED boards, **H** High power 1100lm LED boards, **T** Tuneable White LED boards
- CRI / COLOUR **8TW** Tuneable White 2700-5700K, **827** CRI 80+ Colour 2700K, **830** CRI 80+ Colour 3000K, **840** CRI 80+ Colour 4000K, **927** CRI 90+ Colour 2700K, **930** CRI 90+ Colour 3000K, **940** CRI 90+ Colour 4000K
- LENGTH Made-to-Measure lengths in millimetres
- EMERGENCY **E** Standard Integrated Emergency, **DE** DALI Integrated Emergency, - specify details alongside code
- EXTRAS - specify any extra details alongside code (e.g, RGBW 24V LED)

### STANDARD

Standard fixed option products for quick and easy specification. Point source LED and Linear LED solutions, organised into Track & Spots, Downlights, Recessed, Surface, Suspended and Wall mounted solutions.

### MADE-TO-MEASURE

Versatile systems and luminaires with custom specifications for project-specific lighting. Available in custom sizes and lengths, with many options including curves, corners, finishes, integrated accessories and more.

### BESPOKE

Bespoke luminaires demonstrating completely custom project solutions, designed with the clients from concept to delivery. Learn about the design process and inspire your next bespoke lighting project.



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