

RET83 LED



A modular luminaire for use in offices and meeting rooms. Uses latest LED technology and offers energy efficiency surpassing T5 and TCL lamps

- » 75% LOR
- » Industry beating 87LL/CW
- » 4480 Lumens*
- » 38.5 Circuit Watts
- » 50,000 hours life
- » 5 Year Warranty**

Description

The RET83 LED offers unparalleled economy and efficiency. Using the Philips Fortimo LED system and with the technical and quality backing of Philips, Lumitron have produced an LED fitting that offers clients the potential to use LEDs in office environments.

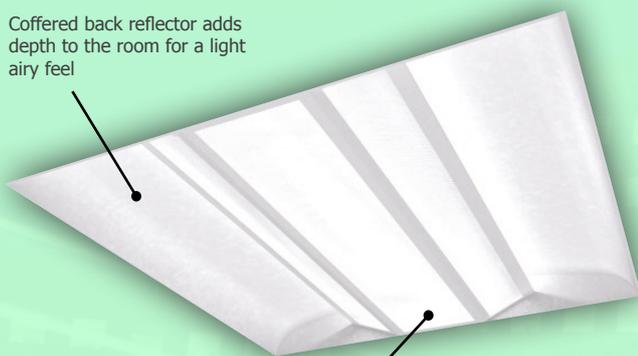
Based on a 2.4m x 2.4m array and with typical room reflectances, it is possible to achieve an average maintained illumination of 500lux and with energy consumption as low as 7 watts per square metre.

Features

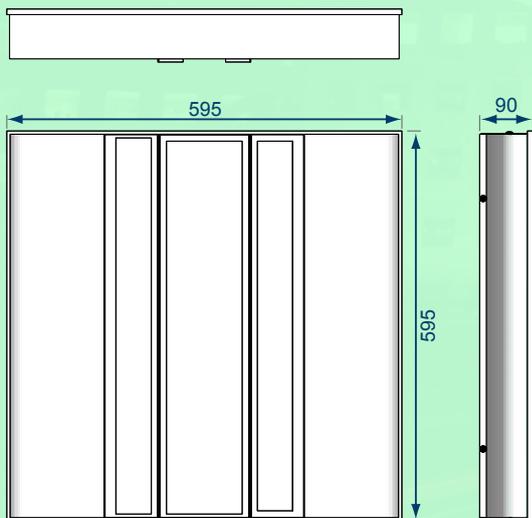
- » Flexible ceiling integration resulting in minimal total cost of ownership
- » Air handling options
- » Low energy
- » Efficiency levels surpassing T5 & TCL lamps
- » High quality white light with colour rendering of Ra80, meeting European norms for office lighting
- » Long life - 50,000hrs to 70% output
- » Low maintenance & lower costs
- » 5 Year warranty**
- » 830 or 840 LED colour options
- » High quality 2 part optic system for total light control.
- » Can be supplied with various pre-wired lead & plug options to minimise site installation time and cost - contact sales for further details.

Design

Coffer back reflector adds depth to the room for a light airy feel

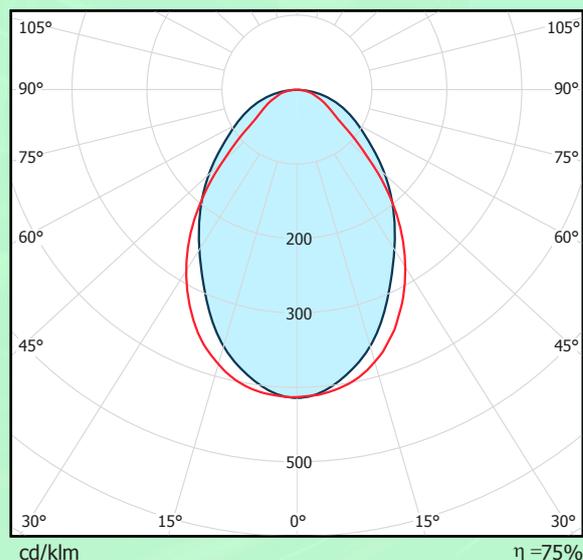


2 part optic system for high output with excellent glare control



All dimensions in millimetres
595 x 595 are standard dimensions but may change depending on project ceiling system

Cross vaned aluminium heat sink for optimum LED life and efficiency



cd/klm
— C0 - C180 — C90 - C270

Contact the office for photometric ldt files

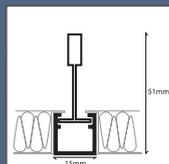
* For colour 840 module only
** Return to base limited warranty - Philips and Lumitron standard terms & conditions apply

Ceiling Integration

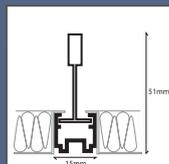
The RET83 LED is compatible with most commercial ceiling systems including those shown here.

If the project ceiling system is not shown here, please contact our technical department for further advice.

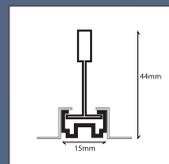
* Products for these ceiling systems will require external brackets (Ref: /BKTS) & may require access from adjacent tile



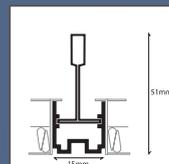
Alugrid-P 15/16



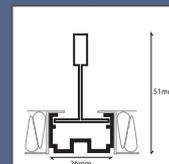
Alugrid-Q 15/16



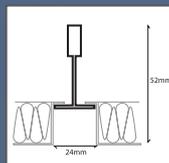
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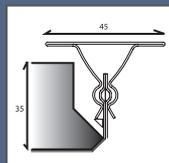
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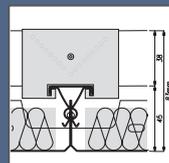
Alugrid-Q 26/16



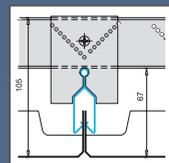
*TruGrid T24 System



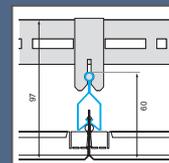
*Burgess "Spring Tee" or Orcal Spring Tee.



*System 120 Long Span Spring Tee



*SAS 150

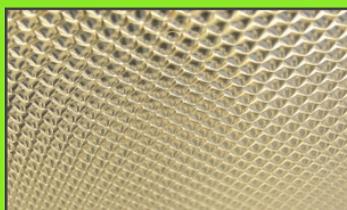


*Armstrong Orcal Clip-in

Detail

Optics

Our microprism lens uses conical deglaring technology, achieving 92% light transmission whilst controlling brightness. A sinusoidal distributor optic is layered above the microprism for a smoother visual appearance. This 2 part optic system ensures glare is minimised and output maximised.



LEDs

High output Class 1 LED boards by Philips mounted to 5mm aluminium heatsink with technical cross vanes for optimised cooling.

Efficacy & Compliance

With an **LOR of 75%** and consumed circuit power of 38.5W, the luminaire achieves an efficacy of **87LL/CW**, exceeding **Part L** (Building Regs) and automatically qualifying for **ECA** by nature of its LEDs. (Current requirements are 55LL/CW for Part L and 60LL/CW for ECA)

Ballasts

Philips Xitanium LED drivers are designed specifically to run the LED modules with minimum power losses. Available in fixed output and with dimming options

Materials and Finishes

The luminaire body is manufactured from **high grade steel**, tabbed and welded to ensure rigid construction and post painted to RAL9016, 20% gloss. Optionally the luminaire can be finished to any other commercially available RAL colour and textured finishes, such as Finetex.

Emergency

Can be supplied with separate non-maintained LED based emergency unit, integrated into the front panel of the luminaire, including DALI monitoring options if required.



Specification

Nominal Size Reference

- 600 x 600 *RET831R2*
- 1200 x 300 *RET1202R1*

- 750 x 750 *RET831R2/75**

*750 square version is essentially a 600 x 600 with outer bezel.

LED Colour Reference

- 840 *(as standard) /84*
- 830 */83**

*Colour 830 LED modules have reduced output of 4320lumens compared to the 840 module with output of 4480lumens.

Ballast Reference

- HF Fixed Output *(as standard) /HF*
- DALI dimming */HFDAL*
- 1-10V dimming */HFDIM*

Air Handling* Reference

- 30ltrs/sec */AH30*

*Air handling is achieved through visible slots on the front face of the body.

RAL Colour Reference

- 9016 20% Gloss *(as standard)**
- 9010 20% Gloss */9010*

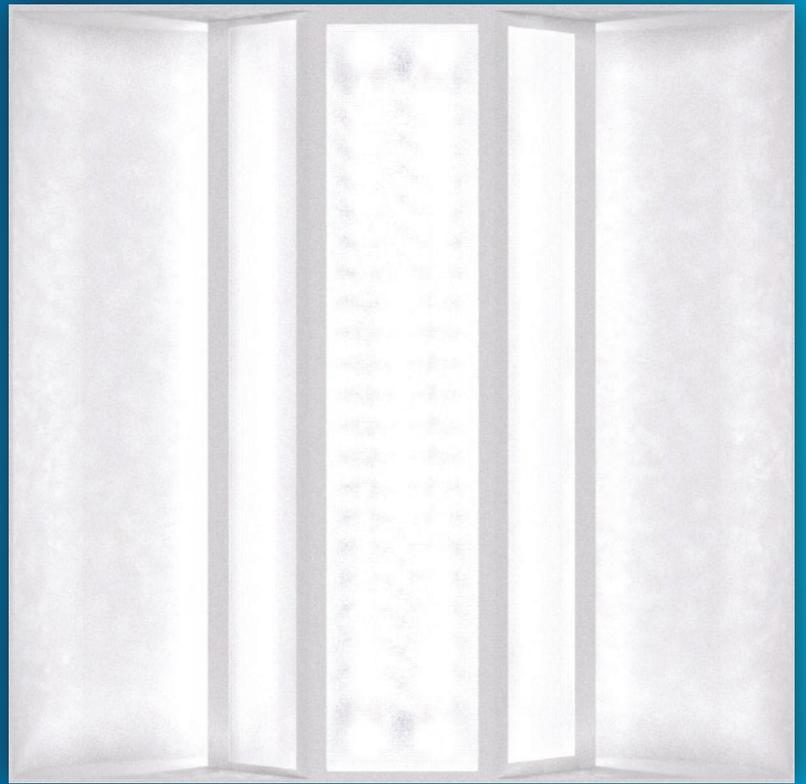
*It is the purchaser's responsibility to ensure that the standard colour we supply meets their requirements.

Emergency Reference

- 3hr (unmonitored) */3NM-LED*
- 3hr DALI monitored */3NM-LED-PRO*

Reference Example:

RET831R2/84/HFDAL/AH30/3NM-LED
Would denote a 600 x 600 style RET 83 LED with colour 840 LEDs, DALI dimming ballast, 30ltrs/sec return air handling and 3 hour LED emergency kit (not monitored or self-test).



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