1 # Moduseal 2

CE IP54

EasiCheck

IP65 5 YEAR WARRANTY

For a diverse range of applications which call for a high level of ingress protection, Moduseal 2 offers a complete solution.

Moduseal 2 is protected to IP65 from below in a choice of recessed and surface bodies. The clean lines of the diffusers and frames offer greater control of the LED modules for maximum energy efficiency. An integrated LED emergency option gives a highly efficient design solution, minimising installation points.

- IP65 dust tight and water jet proof from below – IP54 rear body

- Surface versions are IP65 throughout

- Minimalist extruded frame with fixtureless mounting

- Easily wiped down diffuser assemblies for hygiene

- All diffusers are TPa and can be used within emergency exit routes

- Integrated emergency optic for high performance design solutions

- Recessed body options are suitable for a wide range of ceiling integration including prepared apertures

- Integrated emergency options with automatic testing available

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Light Source and Control Gear Options

- LED – high output, high efficiency LED chip set optimized for maximum efficiency
- Energy efficient LED drivers

Options

- Fully integrated LED emergency conversion with optic lens, 3 hour duration
- Suitable for use on defined escape routes
- We offer a range of product support contracts to aid commissioning, reduce your maintenance costs, comply with legislative test requirements and increase the lifespan of your lighting equipment

Materials

- Body – welded, full box steel construction, powder coated RA9016 white
- IP65 frame – extruded aluminium, chromate pretreated and powder coated RAL 9016 white
- LED panel – TPa rated opal material
- Surface mounted body – welded, full box steel construction, powder coated RA9016 white

Installation notes

- For ceiling type compatibility refer to the installation guide on page 66
- Contact Eaton's technical support team for compatibility with other ceilings
- May be used with prepared aperture ceilings which are suitably reinforced – see the diagram below for details
- Terminal block with a 2 x 2.5mm² cable capacity per termination
- Fixtureless frame retention can be removed with supplied tool or diffuser frame removal tool MS2RST
- MS2RST not suitable for prismatic T5 versions, use the supplied tool only

Specification

To specify state: Modular recessed luminaire, IP65/IP54 full box welded construction body with post coat powder paint, prismatic lens, TPa clear polycarbonate panel / TPa opal in extruded aluminium frame with RAL9016 finish, securely fixed and with gaskets to achieve IP65/IP54 from below ceiling/ IP65 surface mounted. LED emergency option with unique lens optic delivering up to 10m x 10m distribution, as Eaton's Moduseal range, part no.
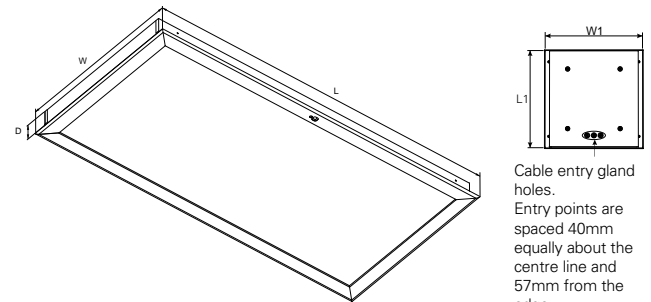
Dimensions
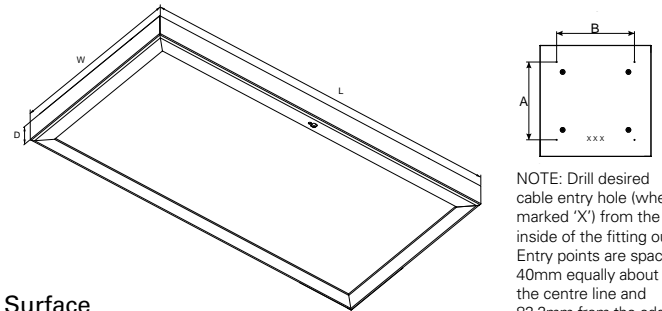
Surface

NOTE: Drill desired cable entry hole (where marked 'X') from the inside of the fitting out. Entry points are spaced 40mm equally about the centre line and 82.2mm from the edge

| Variant	L (mm)	W (mm)	D (mm)	A (mm)	B (mm)
LED					
3600/4800lm	600	600	75	420	420
3800/5600lm	1200	300	75	1044	186

Recessed

Cable entry gland holes. Entry points are spaced 40mm equally about the centre line and 57mm from the edge

Prepared aperture

Variant	L (mm)	W (mm)	D (mm)	A (mm)	B (mm)	L1 (mm)	W1 (mm)
LED							
3600/4800lm	598	598	75	576	576		
3800/5600lm	1198	298	75	1176	276		

Photometric Data

Cat. No. MS2R364Z

SHR nom: 1.50
SHR max: 1.555
LO 3636 lm
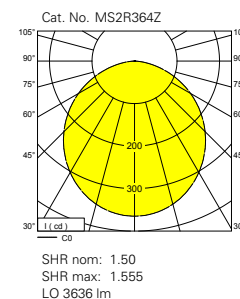
Utilisation factors / TM5

Reflectances			Room Index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	61	69	77	82	89	93	97	101	104
70	30	20	53	62	69	75	83	88	92	97	100
70	10	20	48	56	64	70	78	84	88	94	97
50	50	20	59	67	74	79	86	90	93	97	100
50	30	20	53	61	68	73	81	85	89	94	97
50	10	20	48	56	63	69	76	82	86	91	94
30	50	20	58	65	72	76	83	87	90	93	96
30	30	20	52	59	67	72	78	83	86	91	94
30	10	20	47	55	62	68	75	80	83	88	91
0	0	0	45	53	60	65	71	76	79	84	87
BZ-class			4	4	4	4	4	4	4	4	4

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Catalogue Numbers

LED
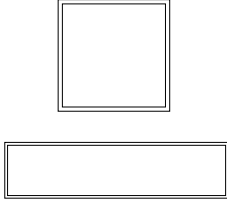
Variant	Cat No	Lumen Output	Wattage (W)	Llm/cW	Weight (kg)	Emergency Cat No	Weight (kg)
600 x 600							
3600	MS2R364KZ	3636	40	90.9	7.0	ELMS2R364KZ	7.5
4800	MS2R484KZ	4824	55	87.7	7.0	ELMS2R484KZ	7.5
1200 x 300							
3800	MS2R384KZ	3539	48	73.7	7.9	ELMS2R384KZ	8.4
5600	MS2R564KZ	5608	81	69.2	7.9	ELMS2R564KZ	8.4

Accessories

Description	Cat No
Diffuser frame removal tool	MS2RST

Surface Mounted

Surface mounted versions are to be ordered complete only. Recessed variants cannot be upgraded to surface mounted
For surface mounted versions replace character R with S, e.g. MS2S364KZ
For DALI Dimming option replace character **Z** with **DD**, e.g. MS2R364K**Z** becomes MS2R364K**DD**
For DALI EM PRO emergency options replace add character P as a suffix, e.g. ELMS2R364KDD becomes ELMS2R364KDDP
Emergency versions also available with automatic test functionality.
For further information, contact our technical support and application department on 01302 303240
or email LightingTechnicalUK@Eaton.com
Llm/cW = luminaire lumens per circuit watt

For more information on the installation requirements and product specifications, please visit our website: https://uk.eaton.com/content/gb/en/products/product-catalog/recessed-ceiling-lights-moduseal-2-eaton.html