



# XYLUX® LS IP65

High Performance IP65 Rated Surface Mount Luminaire



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## XYLUX® LS IP65



IP65 Rated  
Emergency LED  
Luminaire With A  
Choice Of Lenses

### IP65 Rated LED Emergency Luminaire Suitable for High-Bay, Mid-Bay, Open-Area and Escape Route Applications

XYLUX LS IP65 is a high performance self-contained LED emergency luminaire delivering 3 hours rated emergency output. The durable IP65 housing ensures the product is protected from dust, dirt and water to offer efficient and impressive performance in challenging environments.

XYLUX LS IP65 is available with a range of technology options and optics to choose from to cater for specific application requirements. The open-area and escape route fascias have tailored optics that alter the photometrics to provide optimum distribution. For high ceiling applications, the mid and high-bay fascias have been designed to cater for ceiling heights up to 30 metres. XYLUX LS IP65 also incorporates an LED module and 2.2Ah NiMH battery pack. XYLUX LS IP65 can be surface mounted to offer an efficient and robust alternative to the 8W fluorescent bulkhead.

#### Key features:

- Suitable for surface mount installation
- Various technology options available
- IP65 rated
- A choice of lenses designed for open-area, escape route, mid-bay and high-bay applications
- Integral status indicator
- Optional integral test switch
- Deep discharge protection circuit
- SmartCharge™ technology
- 3 hours emergency duration
- 3 year warranty on electronics
- Designed and manufactured in the UK



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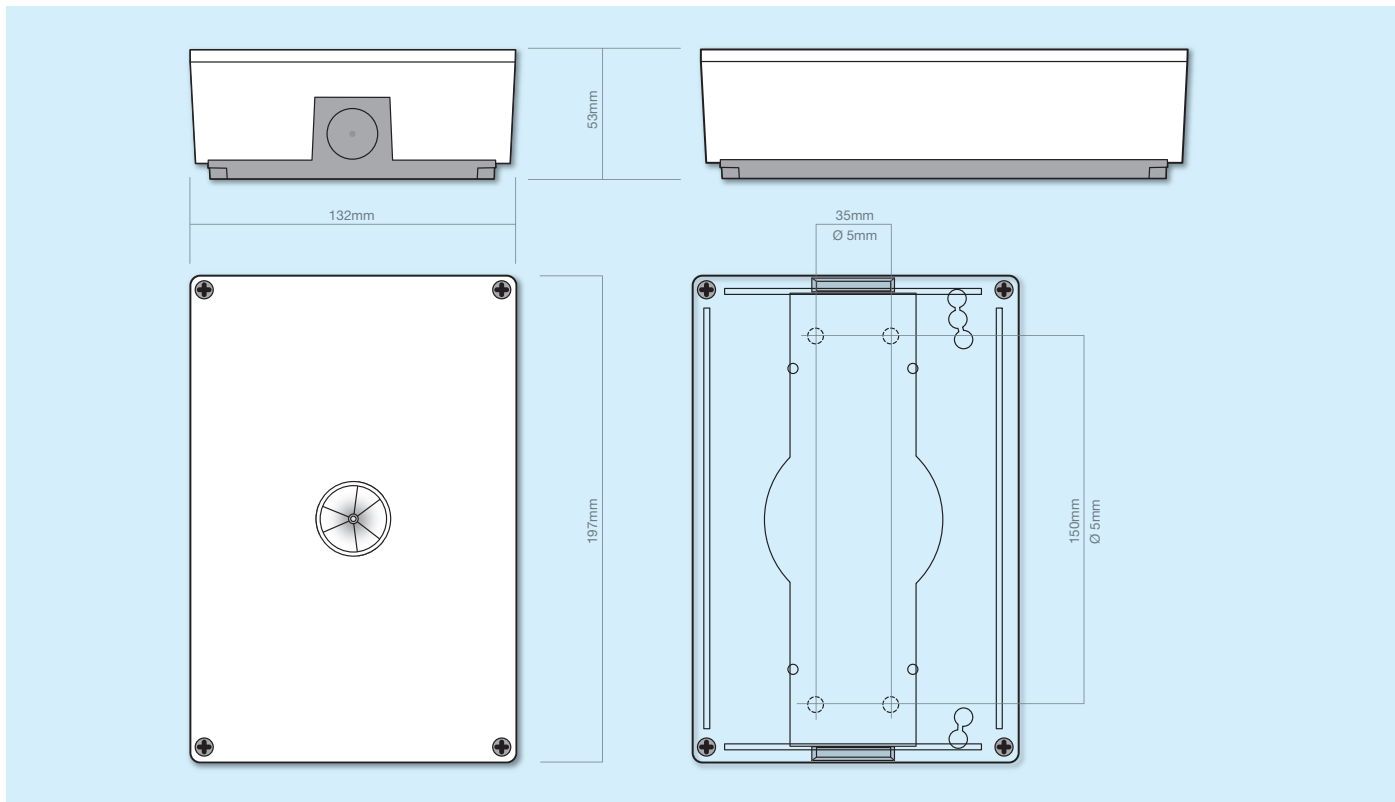




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## Dimensions



### Standard and DALI AutoTest® Specifications

Supply voltage	: 230Vac 50/60 Hz
Supply current	: 30mA max
Total circuit power	: 1.7W
Power factor	: 0.44
Ambient temperature (ta)	: 0°C to +40°C
IP rating	: IP65
Weight	: 464g
Weight (with test switch)	: 476g
Conductor size	: 2.5mm² max
Luminous flux	: 200lm nominal
CCT	: 5700K
Emergency duration	: 3 hours
Recharge period	: 24 hours

### Charge Indicator

Integral bi-colour LED

### Central Battery Specifications

(same as Standard and DALI AutoTest® except for the following)

Supply voltage	: 96 to 265V ac/dc 50/60 Hz
Supply current	: 46mA max
Hold-off supply	: 230Vac 50/60Hz (9mA max)
Hold-off change over voltage	: 138 to 195Vac
Power factor	: 0.40
Ambient temperature (ta)	: 0°C to +45°C
Weight	: 346g

### Relevant Standards

EN 60598-2-22  
BS 5266-1  
EN 62034  
EN 62386  
EN 62471

### Batteries

The luminaire (excluding Central Battery versions) includes a rechargeable 3.6V 2.2Ah NiMH battery pack for 3 hours operation.

### Features

SmartCharge™ is incorporated within Mackwell's emergency products to provide energy efficient charging maintenance, reduced operating temperatures and optimum service life of batteries.

### Technology Options

#### Standard

For applications where self-testing is not required or suitable, the Standard option provides the same quality and performance expected of Mackwell products, without the AutoTest® feature.

#### DALI

Provides recognised benefits by enabling testing and monitoring of an emergency lighting system either on-site or via an internet connection. DALI AutoTest® is ideal for monitoring larger buildings and multiple sites.

#### Central Battery

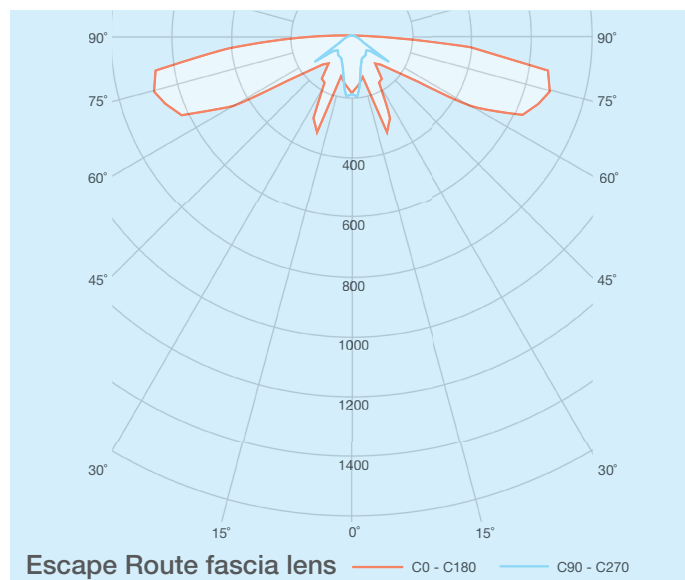
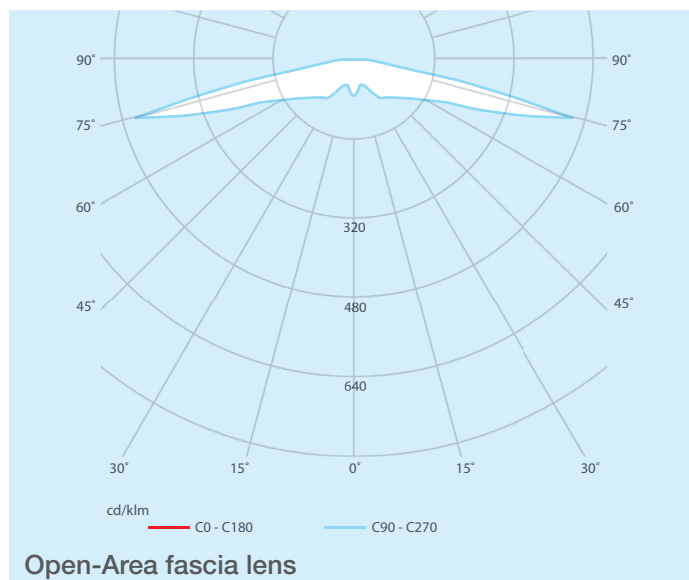
Suitable for central battery applications that use a nominal AC or DC supply of 110V to 240V that includes a hold-off input to inhibit the LED driver output when a mains supply is connected.



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## Photometric details



## Spacing information

Open-Area (based on min. 0.5 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to Wall (m)
2.5	16.90	6.10
2.8	17.90	5.30
3.0	18.90	5.10
4.0	14.90	4.10
6.0	-	-
8.0	-	-
10.0	-	-
12.0	-	-
15.0	-	-
20.0	-	-
25.0	-	-
30.0	-	-

## Spacing information

Escape route (based on 1 lux centre line)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to Wall (m)
2.5	17.00	6.50
2.8	17.50	6.60
3.0	17.80	6.70
4.0	14.10	3.00
6.0	8.20	3.10
8.0	-	-
10.0	-	-
12.0	-	-
15.0	-	-
20.0	-	-
25.0	-	-
30.0	-	-

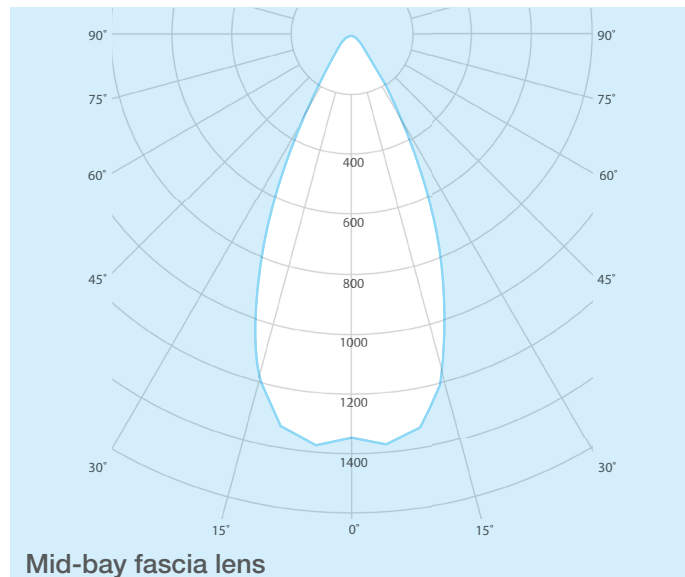
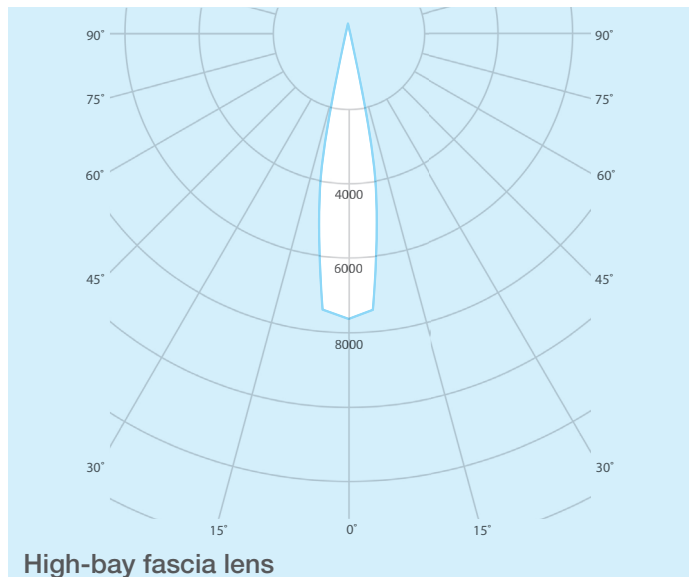
The spacing tables are provided as a guide only. Due to the nature of creating generic lighting schemes, all schemes should be simulated or calculated in full, representing as accurately as possible the final application, and ensuring compliance with local regulations.



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## Photometric details



## Spacing information

Open-Area (based on min. 0.5 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to Wall (m)
2.5	6.90	3.00
2.8	6.90	3.00
3.0	6.90	3.00
4.0	7.10	3.00
6.0	7.20	3.00
8.0	7.10	3.00
10.0	6.10	3.00
12.0	6.80	3.20
15.0	8.30	3.80
20.0	10.50	4.70
25.0	12.40	5.50
30.0	14.10	6.20

Escape route (based on 1 lux centre line)

2.5	6.10	2.90
2.8	6.10	2.90
3.0	6.10	2.90
4.0	6.10	2.90
6.0	6.10	2.90
8.0	6.10	3.00
10.0	6.10	3.00
12.0	6.50	3.00
15.0	7.70	3.50
20.0	9.50	4.30
25.0	11.10	4.50
30.0	12.20	4.20

## Spacing information

Open-Area (based on min. 0.5 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to Wall (m)
2.5	7.10	3.00
2.8	7.40	3.00
3.0	7.60	3.10
4.0	8.60	3.50
6.0	10.40	4.30
8.0	11.90	5.00
10.0	13.40	5.60
12.0	14.60	6.00
15.0	16.20	6.40
20.0	17.90	6.00
25.0	-	-
30.0	-	-

Escape route (based on 1 lux centre line)

2.5	6.10	2.90
2.8	6.10	3.00
3.0	6.20	3.00
4.0	7.10	3.00
6.0	8.70	3.60
8.0	10.00	4.10
10.0	11.20	4.40
12.0	12.10	4.50
15.0	12.80	3.90
20.0	-	-
25.0	-	-
30.0	-	-

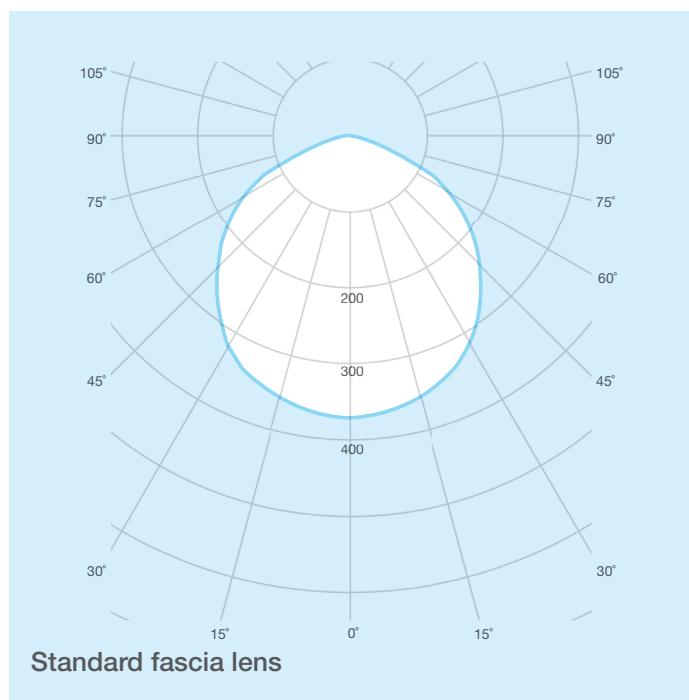
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## Photometric details



The spacing tables are provided as a guide only. Due to the nature of creating generic lighting schemes, all schemes should be simulated or calculated in full, representing as accurately as possible the final application, and ensuring compliance with local regulations.

## Spacing information

Open-Area (based on min. 0.5 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to Wall (m)
2.5	11.10	4.60
2.8	11.70	4.80
3.0	12.10	4.90
4.0	13.70	5.40
6.0	15.60	5.80
8.0	16.50	5.60
10.0	16.40	4.60
12.0	15.40	3.00
15.0	-	-
20.0	-	-
25.0	-	-
30.0	-	-

Escape route (based on 1 lux centre line)

2.5	9.20	3.70
2.8	9.60	3.80
3.0	9.90	3.90
4.0	10.90	4.10
6.0	11.70	3.80
8.0	11.20	3.00
10.0	-	-
12.0	-	-
15.0	-	-
20.0	-	-
25.0	-	-
30.0	-	-

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## Order codes

Base Model	Fascia				
	IP65 Standard	IP65 Open Area	IP65 Escape Route	IP65 Mid-Bay	IP65 High-Bay
Standard	9005572	9005579	9005586	9005600	9005607
Standard with Test Switch	9005573	9005580	9005587	9005601	9005608
DALI	9005574	9005581	9005588	9005602	9005609
DALI with Test Switch	9005575	9005582	9005589	9005603	9005610
Central Battery	9005578	9005585	9005592	9005606	9005613

## Accessories & Replacements

Replacement Fascias		Replacement Battery	
XYLUX LS IP65 Fascia Standard	9005283	Battery NiMH 2.2Ah 3C Stick Plug and Play	9005254
XYLUX LS IP65 Fascia Open-Area	9005277		
XYLUX LS IP65 Fascia Escape Route	9005278	Installation Kit	
XYLUX LS IP65 Fascia Mid-Bay	9005280	LS IP65 Installation Kit 1	9005381
XYLUX LS IP65 Fascia High-Bay	9005281		



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## WARRANTY

This product is warranted for three years and covers faulty workmanship and materials. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above, in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for cost incurred.

Mackwell maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice.

The contents are intended for guidance only.

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