

CIRCULAR LED LUMINAIRE



Kev Features

- Durable IP65-rated housing
- Multiple functions: Color Temperature adjustable Microwave Motion Sensor Emergency Lighting
- Easy Installation Application

Please read these instructions before installation and retain for the user/maintenance engineer for future reference.

Technical / Electrical Characters (at TA-25°c)

Item No.:	ERCLEDACC	ERCLEDEC	ERCLEDSC	ERCLEDESC
Size:	Ø332x100mm	Ø332x100mm	Ø332x100mm	Ø332x100mm
Rated Power	18W	18W	18W	18W
Input Voltage:	100-253V AC	216-253V AC	216-253V AC	216-253V AC
Driver Output:		300mA	54V DC	
Light Source:		3030 SMD L	ED 36PCS	
Color Temperature:	4000K,	5000K, 6000K (S	witch Selectable	Control)
Color Rendring Index:		CRI	>80	
Luminous Flux:		1700-180	00Lumen	
Microwave Sensor Function:	N/A	N/A	Detection Area Daylight Sens	a / Hold Time / sor adjustable
Emergency Duration:	N/A	3 Hours	N/A	3 Hours
IP Range:		IP	65	
Housing Materials:		ABS Basemer	nt + PC Cover	
Lifespan:		30,00	00Hrs	
Lumen Maintenance @6,000Hrs		90	0%	
Switch Cycle Before failure:		100,000	0 times	
Temperature:	Operat	ion :-10°c~+60°c	Storage:-25°c	~+60°c



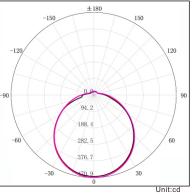




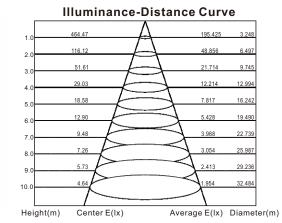




Lighting Distribution Diagram







Beam Angle: 116.8

IMPORTANT NOTE:

- The luminaire must be installed by a skilled electrician and to the most current electrical wiring and
- This product MUST NOT be subject to an electrical insulation test (500/1000v) which will not be covered by the warranty
- This luminaire is NOT suitable to be used with dimmer switches
- This product should not be modified in any way, if modified this will invalidate any warranties and Lightsafe will not be liable for any damages caused
- The person carrying out the installation is to check and verify that the total load on the circuit, including the rating of the cable, fuse and/or circuit breaker is not exceeded
- It is the responsibility of the installer to consider any fire risks and breach in any fire protection barriers or partitions, and take the appropriate precautions
- Emergency lighting should be installed and maintained in accordance with BS5266 and BS EN50172.

TESTING (Emergency model only)

Ensure the luminaires are tested in accordance with 5266-8 / BS EN 50172

Ensure the green charge LED is illuminated on each luminaire

Monthly: Simulate a mains power supply failure, for a period of time sufficient to ensure that each lamp

is illuminated and then recorded in the log book

Annually: Similar test to a monthly but the full emergency duration of the luminaire should be tested.

Defects: Any defects should be noted and recorded in the log book and actioned by a competent person

as soon as possible

INSTALLATION / TEST RECORDS: Please refer to diagram at page 4

MICRO WAVE ON/OFF FUNCTION(ERCLEDSC/ERCLEDESC only)

There is an internal microwave sensor inside the luminaire that will operate the fitting automatically. The sensor emits a high-frequency electromagnetic wave (5.8GHz) and receives an echo. The sensor detects any changes in the returned echo, even the slightest movement in its detection zone will operate the light. Microwave sensors are less affected by temperature and airflow, but are able to penetrate non-metallic materials such as wood, brick wall, glass, etc., but cannot penetrate metal. The range of the detector should be tested to minimize the external areas do not activate the luminaire.



With sufficient light, the lamp doesn't switch on.

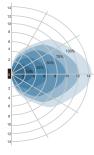


With insufficient ambient light, the sensor switches on the lamp when motion is detected.

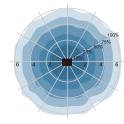


After hold time, the sensor switches off the lamp when no motion is detected.

Detection Pattern



Wall mounting pattern (Unit:m) Suggested installation height: 1.5m



Ceiling mounting pattern (Unit:m) Suggested installation height: 3m

Motion Sensor Setting

		1	2	3	
ON	Ι	ON	ON	ON	1009
î	П	-	ON	ON	75%
À	\mathbf{III}	ON	-	ON	50%
□	IV	-	-	ON	25%
	V	-	-	_	10%

Detection Area Range

Detection area can be reduced by selecting the combination on the DIPswitches to fit precisely each application.

		4	5	6		
	Ι	ON	ON	ON	5s	
ON •	Π	ı	ON	ON	30s	
	${\rm I\hspace{1em}I\hspace{1em}I}$	ON	-	ON	90s	
	IV	-	-	ON	3min	
	V	ON	ON	-	10mir	'
	IV	ı	-	-	20mir	

Hold Time

Refers to the time period the lamp remains at 100% Illumination after no motion detected.

		7	8	9	
ON	Ι	ON	ON	ON	151
1	Π	ON	ON	-	501
	Ш	-	ON	-	100
Ш	IV	ON	-	-	150
	V	-	-	-	Disab

Daylight Sensor

The sensor can be set to only allow the lamp to illuminate below a defined brightness threshold.

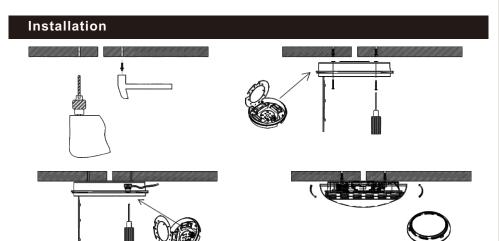
When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of the ambient light level. outdoor usage, 150lux, 100lux, 50lux; twilight operation; 15lux: darkness operation only.







	Location:					Part No:		
INSTALLATION / TEST RECORDS	Installed By:					Date:		
	Commission ed By:	ed By:				Date:		
	FIRST	FIRST YEAR	SECON	SECOND YEAR	THIRD	THIRD YEAR	FOURTI	FOURTH YEAR
2	Signed	Date	Signed	Date	Signed	Date	Signed	Date
Short								
Short								
Short								
Short								
Short								
Short								
Short								
Short								
Short								
Short								
Short								
Full Duration								



INSTALLATION

- 1.Ensure the mains supply is isolated
- 2.Remove the diffuser by rotating and release the gear tray by the sprung plastic clips
- 3.If screws or bolts are used to secure the unit then consideration will need to be given as not to comprise the IP rating of the fitting for the environment the luminaire is to be installed
- 4.A permanent 230v AC supply is required to the live (L), Earth (E) and neutral (N) terminals on the PCB.
- 5.Ensure a gland or grommet is used to maintain the IP rating of the luminaire and that ALL electrical connections are made good with no loose strands
- 6.Adjust the microwave sensor settings for ((for ERCLEDSC & ERCLEDESC models, refer to settings on page 3))
- 7.(Emergency model only) Plug the battery lead into connector on the PCB
- 8.Locate and secure the diffuser
- 9.Restore the AC mains supply, ensure the LED indicators on the front of the lid, green charge LED (Emergency model only)
- 10.(Emergency model only) Allow 24 hour to charge the batteries and record the installation date in the
- 11.(Emergency model only) After a 24 hour charge period test the luminaire for a full 3 hour duration by removing the 230v AC supply and record the date of the commissioning on the battery pack inside the luminaire and also in the log book
- 12.(Emergency model only) Subsequent testing should be carried out in accordance with the British/European standards and recorded in the log book

Maintenance

Repairs should only be carried out by suitably qualified person

Regular cleaning of luminaire should be carried out at regular intervals not only to ensure good optical performance but also ensure that dirt does not accumulate to such an extent as to impair the electrical or thermal safety of the fitting, this should be done with a soft damp cloth, do not use any chemicals or abrasives

Servicing should only be carried out after the fitting has been made electrically safe and the battery disconnected

Light Source Maintenance: the light source of this luminaire is not replaceable; in case the light source need to be replaced (e.g. at the end of its life), the whole luminaire shall be replaced

Warrantv:

This product is covered by an extended warranty for 3 years from date of purchase.

Batteries are regarded as a consumable item, and as such, are not covered by the Extended Warranty periods and are only covered by a 1 year warranty.

The extended warranty is available following installation in the UK or Ireland by a competent person in accordance with the current building and IEE wiring regulations.

For full terms and conditions in regards to our extended warranty please refer to the website.

Environment

 $Please \ DO \ NOT \ dispose \ of \ electrical \ items \ or \ packaging \ as \ unsorted \ waste, use \ the \ recycling \ facilities \ provided \ by \ your \ local \ authorities.$

Due to our policy of continuous improvement we reserve the right to change specification without prior notice. Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by Firesafe for any misinterpretation of these instructions.

LIGHTSAFE

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