

Description

The MGARA is a recessed mounted LED emergency escape luminaire.

Environment

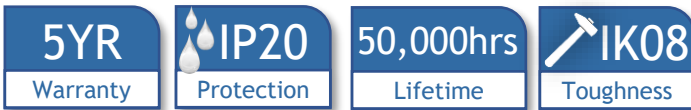
Indoor

Installation

Designed to be recessed mounted

Application

Escape route lighting



General Data

Voltage	AC220-240V 50-60Hz
Battery	NiCd (LeFePO optional AUT) deep discharge protection
Battery Charging Time	24 hours (12 hours optional AUT)
Light Source	LED
CRI	80+
LED Lifetime	50,000hrs/ L80B50
Operating temperature	0°C to +40°C
Materials	Polycarbonate body, white finish
Installation	Designed to be recessed mounted.



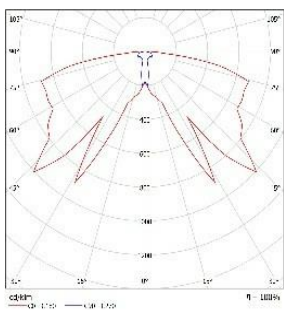
The extremely effective optics reflected in the very large mounting distances between the luminaires significantly reduces the number of emergency luminaires required, therefore reducing installation and maintenance costs:

up to 19m along the escape route
up to 27m in open area

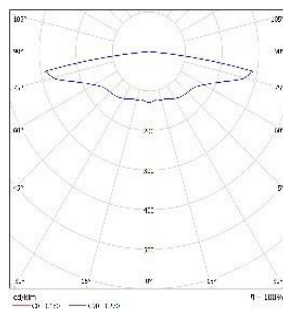
Product Variants

Product Code	Power in Emergency Mode (W)	Emergency Operating Time (h)	Illumination Mode	Length mm	Width mm	Height mm	Weight kg
MGARA 1HLED C364 LER	1	1	NM	100	100	37	0.60
MGARA 3HLED C365 LER	1	3	NM	100	100	37	0.65
MGARA 1PLED C366 LER	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LER	1	3	M/NM	100	100	37	0.65
MGARA 1PLED C366 LER AUT	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LER AUT	1	3	M/NM	100	100	37	0.65
MGARA CEBLED C368 LER	1	X	CEB	100	100	37	0.690
MGARA 1HLED C364 LOA	1	1	NM	100	100	37	0.60
MGARA 3HLED C365 LOA	1	3	NM	100	100	37	0.65
MGARA 1PLED C366 LOA	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LOA	1	3	M/NM	100	100	37	0.65
MGARA 1PLED C366 LOA AUT	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LOA AUT	1	3	M/NM	100	100	37	0.65
MGARA CEBLED C368 LOA	1	X	CEB	100	100	37	0.690
MGARA 1HLED C364 LER IP65	1	1	NM	100	100	37	0.60
MGARA 3HLED C365 LER IP65	1	3	NM	100	100	37	0.65
MGARA 1PLED C366 LER IP65	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LER IP65	1	3	M/NM	100	100	37	0.65
MGARA 1PLED C366 LER IP65 AUT	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LER IP65 AUT	1	3	M/NM	100	100	37	0.65
MGARA CEBLED C368 LER IP65	1	X	CEB	100	100	37	0.690

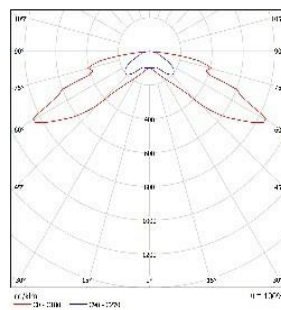
LER



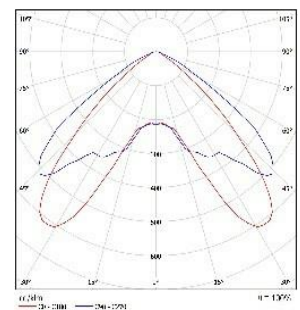
LOA



LEW



LOU



Product Variants

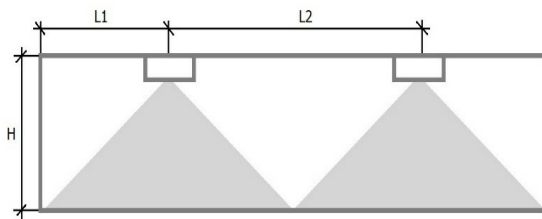
Product Code	Power in Emergency Mode (W)	Emergency Operating Time (h)	Illumination Mode	Length mm	Width mm	Height mm	Weight kg
MGARA 1HLED C364 LOA	1	1	NM	100	100	37	0.60
MGARA 3HLED C365 LOA	1	3	NM	100	100	37	0.65
MGARA 1PLED C366 LOA	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LOA	1	3	M/NM	100	100	37	0.65
MGARA 1PLED C366 LOA AUT	1	1	M/NM	100	100	37	0.60
MGARA 3PLED C367 LOA AUT	1	1	M/NM	100	100	37	0.65
MGARA CEBLED C368 LOA	1	1	CEB	100	100	37	0.690
MGARA 1PLED C371 LER IP65	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C372 LED IP65	3	3	M/NM	100	100	37	0.65
MGARA 1PLED C371 LER IP65 AUT	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C372 LER IP65 AUT	3	3	M/NM	100	100	37	0.65
MGARA CEBLED C373 LER IP65	3	X	CEB	100	100	37	0.690
MGARA 1PLED C371 LOA IP65	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C372 LOA IP65	3	3	M/NM	100	100	37	0.65
MGARA 1PLED C371 LOA IP65 AUT	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C372 LOA IP65 AUT	3	3	M/NM	100	100	37	0.65
MGARA CEBLED C373 LOA IP65	3	X	CEB	100	100	37	0.60
MGARA 1PLED C376 LER IP65	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C377 LED IP65	3	3	M/NM	100	100	37	0.65
MGARA 1PLED C376 LER IP65 AUT	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C377 LER IP65 AUT	3	3	M/NM	100	100	37	0.65
MGARA CEBLED C378 LER IP65	3	X	CEB	100	100	37	0.60
MGARA 1PLED C376 LOA IP65	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C377 LOA IP65	3	3	M/NM	100	100	37	0.65
MGARA 1PLED C376 LOA IP65 AUT	3	1	M/NM	100	100	37	0.60
MGARA 3PLED C377 LOA IP65 AUT	3	3	M/NM	100	100	37	0.65
MGARA CEBLED C378 LER IP65	3	X	CEB	100	100	37	0.60

MG Lites, 4 Denaby Lane Industrial Estate, Coalpit Road, Denaby, Doncaster, South Yorkshire, DN12 4LH

Options

Manual test button	TEST
Autonomous testing system	AUT
Fitting to central battery system	CEB
Fitting to low voltage central battery system	CLV
Fitting to emergency monitoring system	EMS
IP65/IP20 ingress protection for recessed version	IP65
Light grey thermoplastic body	LGREY
Black thermoplastic body	BLACK
Optic for escape route	LER
Optic for open area	LOA
Optic for escape route (wide corridor)	LEW
Optic for mixed areas/universal	LOU

Photometry of LER/LOA/LEW/LOU



L1 - distance from the wall to the first fixture
 L2 - distance between fixtures
 H - height of the ceiling

LER - optic for corridor route illumination

LER - 1W/160lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	5.5	15
3.0	5,5	16
3.5	6.0	16.5
4.0	6.5	17
4.5	6.0	16.5
5.0	6.0	16.5
6.0	5.5	14

LER - 3W/370lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	8.0	19
3.0	8.0	20.5
3.5	8.5	21.5
4.0	9.0	23
4.5	9.5	24
5.0	10.0	25
6.0	10.5	26.5
7.0	10.5	28
8.0	10.0	27.5

LOA - optic for open area illumination

LOA - 1W/145lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	2.5	13.5
3.0	2.0	13.5
3.5	2.0	13.5
4.0	2.0	13.0
4.5	1.5	12.5
5.0	1.5	12.5
6.0	1.5	12.0

LOA - 3W/375lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	6.5	17.0
3.0	6.5	18.0
3.5	6.5	20.0
4.0	5.5	21.5
4.5	5.0	22.5
5.0	4.0	23.0
6.0	4.0	22.5
7.0	4.0	22.0
8.0	3.0	21.0

LEW - optic for escape route (wide corridor) illumination

LEW - 1W/150lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	5.5	13.0
3.0	5.5	14.0
3.5	6.0	15.5
4.0	6.5	17.0

LEW - 3W/370lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	6.5	16.5
3.0	7.5	17.5
3.5	8.0	19.0
4.0	9.0	20.5
4.5	9.0	22.0
5.0	10.5	22.5
6.0	10.5	23.5

LOU - universal optic illumination

LOU- 1W/140lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	3.5	6.5
3.0	3.5	7.5
3.5	3.5	8.0
4.0	3.5	8.5
4.5	4.0	8.5
5.0	4.5	9.0
6.0	4.5	8.0

LOU - 3W/390lm min 1lx		
H (m)	L1 (m)	L2 (m)
2.5	3.5	8.0
3.0	4.0	8.5
3.5	4.0	9.5
4.0	4.5	10.5
4.5	5.5	11.0
5.0	6.0	12.5
6.0	6.5	13.5