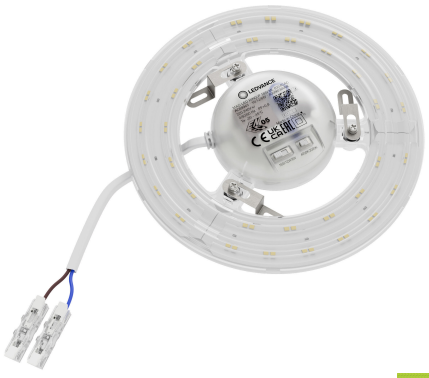
PRODUCT DATASHEET
MAG LED RING P 16W ML 83040 AC

MAGNETIC LED RING | Innovative magnetic luminaire-insert with Multi Color and Multi Lumen



PERFOR-
MANCE
CLASS

Areas of application

- Corridors
- Stairways
- Foyers

Product benefits

- Highly versatile due to selectable CCT and lumen steps (Multi Select) on the driver
- Retrofitting without completely replacing existing luminaires
- With 3 strong neodymium magnets for easy installation and additional secure screw connection
- If necessary, the old luminaire may remain installed on the ceiling or wall during the conversion process
- Simple and quick upgrade solution
- 5 years guarantee

Product features

- LED ring module with integrated LED driver and magnetic feet for retrofitting protection class I luminaires
- Magnetic luminaire insert for modernizing existing traditional wall and ceiling luminaires
- Available in 3 different diameters: 130 mm, 180 mm and 230 mm
- Indoor luminaire with high luminous efficacy up to 150 lm/W
- Suitable for central battery emergency installations acc. to EN 60598-2-22

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TECHNICAL DATA

Electrical data

Nominal wattage	16 W / 12 W / 8 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	70mA / 54mA / 38 mA
Inrush current	3.90 A
Inrush current time T_{h50}	33.2 µs
Max. number of luminaires per miniature circuit breaker B16	192
Max. number of luminaires per miniature circuit breaker C10	129
Max. number of luminaires per miniature circuit breaker C16	206
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	II
Surge capability (L-N)	1000 V
Operating mode	Integrated LED driver

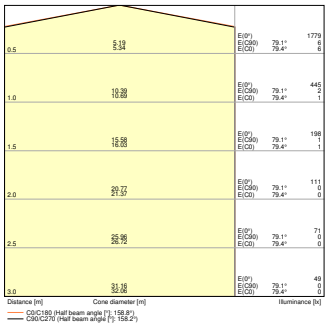
Photometrical data

Luminous flux	2400 lm / 1800 lm / 1200 lm [1)]
Luminous efficacy	150 lm/W [2)]
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	≤5 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	160 °

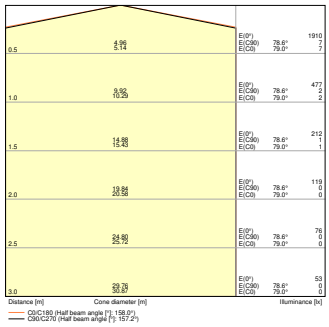
1) @ 3000K, 2240 / 1680 / 1120

2) @ 3000K, 140 lm/W

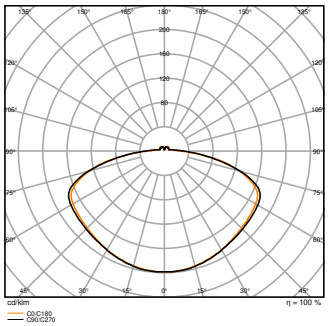
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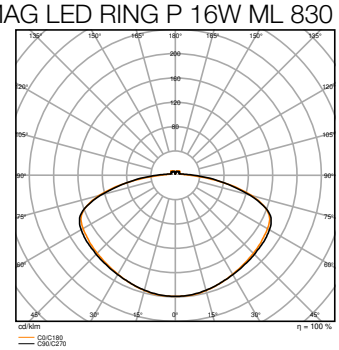
MAG LED RING P 16W ML 830 AC



MAG LED RING P 16W ML 840 AC



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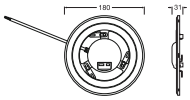
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
16 W	3000 K	2240 lm	140 lm/W
16 W	4000 K	2400 lm	150 lm/W
12 W	3000 K	1680 lm	140 lm/W
12 W	4000 K	1800 lm	150 lm/W
8 W	3000 K	1120 lm	140 lm/W
8 W	4000 K	1200 lm	150 lm/W

Dimensions & Weight

Diameter	180.00 mm
Height	31.00 mm
Product weight	213.00 g

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MAG LED RING P 16W

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9006
Body material	Polycarbonate (PC)
Cover material	Polycarbonate (PC)
Light emitting surface material	Plastic
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+45 °C
Temperature range at storage	-40…+85 °C
Type of protection	IP20
Protection class IK (shock resistance)	IK05
Dimmable	No
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L80/B10 at 25 °C	50000 h [1)]
Lifespan L80/B50 at 25 °C	50000 h
Number of switching cycles	100000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output current	188mA / 138mA / 90 mA

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Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included

Certificates & Standards

Standards	CE / UKCA / EAC / ENEC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT

EQUIPMENT / ACCESSORIES

- Mounting accessories included

Safety advice

- All electrical connections must be made by a qualified person.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire must be disposed of.
- Caution, risk of electric shock.
- Warning! Pacemaker. Magnets could affect the function of pacemakers and implanted heart defibrillators. A pacemaker could switch into test mode and cause illness. A defibrillator may stop working. If you wear these devices keep sufficient distance to magnets. Warn others who wear these devices from getting too close to magnets.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	G11257953 MAG LED RING P
PDF	Legal information	G11264554 Light Source Insert
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal Insert G11266699
PDF	Legal information	Safety Insert G11266700

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	Documents and certificates	Document name
PDF	Declarations of conformity	MAG LED RING P LUM
PDF	Declarations of conformity UKCA	MAG LED RING P LUM
PDF	ECG compatibility list	GESSLER Central battery system checklists
PDF	ECG compatibility list	INOTEC Central battery system checklists
PDF	ECG compatibility list	CEAG/EATON Central battery system checklists

	Photometric and lighting design files	Document name
IES	IES file (IES)	MAG LED RING P 16W ML 830 AC
IES	IES file (IES)	MAG LED RING P 16W ML 840 AC
LDT	LDT file (Eulumdat)	MAG LED RING P 16W ML 830 AC
LDT	LDT file (Eulumdat)	MAG LED RING P 16W ML 840 AC
	UGR file (UGR table)	MAG LED RING P 16W ML 830 AC
	UGR file (UGR table)	MAG LED RING P 16W ML 840 AC
	Light distribution curve type cone	MAG LED RING P 16W ML 830 AC
	Light distribution curve type cone	MAG LED RING P 16W ML 840 AC
	Light distribution curve type polar	MAG LED RING P 16W ML 830 AC
	Light distribution curve type polar	MAG LED RING P 16W ML 840 AC

	CAD/BIM files	Document name
STEP	CAD STEP 3D	MAG LED RING 16W

	Tender texts	Document name
TXT	Tender documents	MAGNETIC LED RING 16W ML 83040 AC-en

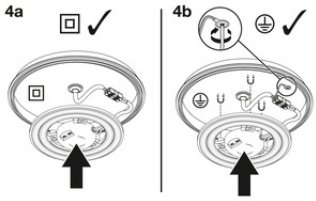
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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854756788	Folding box 1	38 mm x 185 mm x 185 mm	272.00 g	1.30 dm^3
4099854756795	Shipping box 10	388 mm x 205 mm x 214 mm	3024.00 g	17.02 dm^3

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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