

## Expospot 90 cardan square

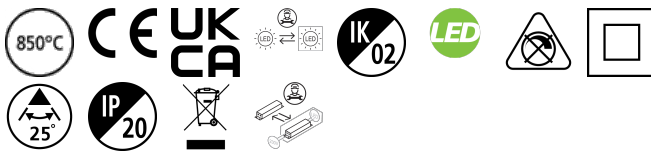
EXPOSPOT 90 MONO HE RA90 3000K NB WHITE

2070047



### Product features

- Integrated LED gimbal accent downlight, single head, ideal for retail and display applications, die-cast aluminium body, passive cooling, beam angle: 25°, optics: aluminium reflector and lens combination, colour temperature: 3000K warm white, total system power: 28W, total fixture output: 2536lm, 91lm/W, LOR: 100%, colour rendering: Ra 90 typical, LED Chromacity: 3 step MacAdam ellipse, IR/UV free light source without heat radiation, operating voltage: 220-240V / 50-60Hz, electronic driver, non-dimmable, electrical protection: CLASS II, ingress protection rating: IP20, suitable for internal environment only, ceiling cut-out: 148x148mm, dimensions: 163x163x104mm, weight: 0.77kg.



### PRODUCT OVERVIEW

Product name	EXPOSPOT 90 MONO HE RA90 3000K NB WHITE
Technology	LED
Cap/Base	N/A
Housing	Aluminium
Mount	Ceiling recessed mounting
Fixture rating	Enclosed
General application	Hospitality, Museums & Galleries, Retail
ETIM Class	EC001744
Warranty	5 years
Fixture luminous flux (lm)	2536
Luminaire efficacy (lm/W)	91
LOR (%)	100
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	90
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	25
Photobiological Risk Group	RG1
Total power consumption (W)	28
Electrical protection	Class II
Control gear type	Electronic ballast
Control gear mounting	Remote
Dimmable	No
Dimming method	N/A
Housing colour	White
IP rating	IP20
IK rating	IK02
Product EAN number	5025768700479

### DATA TABLE

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### General data

<b>Product name</b>	EXPOSPOT 90 MONO HE RA90 3000K NB WHITE
<b>Technology</b>	LED
<b>Cap/Base</b>	N/A
<b>Housing</b>	Aluminium
<b>Mount</b>	Ceiling recessed mounting
<b>Fixture rating</b>	Enclosed
<b>General application</b>	Hospitality, Museums & Galleries, Retail
<b>Operating temperature range (°C)</b>	25°C...+25°C
<b>Performance ambient temperature Tq (°C)</b>	25
<b>ETIM Class</b>	EC001744
<b>Warranty</b>	5 years

### Optical data

<b>Fixture luminous flux (lm)</b>	2536
<b>Luminaire efficacy (lm/W)</b>	91
<b>LOR (%)</b>	100
<b>Colour temperature (K)</b>	3000
<b>Light colour</b>	Warm White
<b>CRI (Ra)</b>	90
<b>Colour Variation Initial (SDCM)</b>	SDCM3
<b>Beam Angle (°)</b>	25
<b>Distribution type</b>	Adjustable
<b>Photobiological Risk Group</b>	RG1

### Electrical data

<b>Total power consumption (W)</b>	28
<b>Primary Supply/Product voltage - min (V)</b>	220
<b>Primary Supply/Product voltage - max (V)</b>	240
<b>Lamp power factor</b>	0.92
<b>THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %</b>	10
<b>Electrical protection</b>	Class II
<b>Control gear required</b>	No
<b>Control gear type</b>	Electronic ballast
<b>Control gear mounting</b>	Remote
<b>Dimmable</b>	No
<b>Dimming method</b>	N/A
<b>Drive current (mA)</b>	700
<b>Inrush Current (A)</b>	19.4
<b>Inrush Duration (µs)</b>	250
<b>Glow Wire Test (°C)</b>	850
<b>Energy Efficiency Class (A-&gt;G) of contained light source</b>	E
<b>Nominal Frequency (Hz)</b>	50/60Hz
<b>Max. products per 10A C Breaker</b>	21
<b>Max. products per 13A C Breaker</b>	28
<b>Max. products per 16A C Breaker</b>	35

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Max. products per 20A C Breaker	45
Max. products per 10A B Breaker	13
Max. products per 13A B Breaker	17
Max. products per 16A B Breaker	21
Max. products per 20A B Breaker	27
Connectable conductor cross section - Min (mm <sup>2</sup> )	0.5
Connectable conductor cross section - Max (mm <sup>2</sup> )	1.5

### Lifetime data

Lifespan L70 B50	100000
Lifespan L80 B20	100000
Lifespan L90 B10	54500

### Physical data

Housing colour	White
IP rating	IP20
IK rating	IK02
Diffuser finish	Other
Diffuser material	Other
Reflector finish	Silver
Nominal Product Width (mm)	163
Nominal Product Height (mm)	104
Nominal Product Diameter (mm)	163
Cutout Dimensions (W x L in mm or Diameter in mm)	148
Weight (kg)	0.77
Recessed Depth (mm)	104

### Packaging

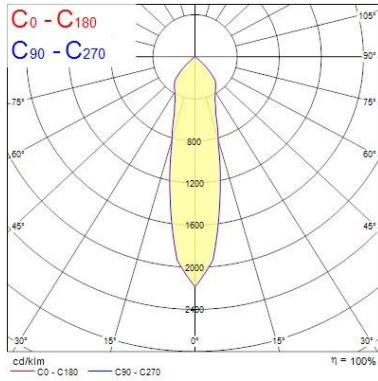
Single packaging type	Carton
Product EAN number	5025768700479
Packaging single length / height (cm)	18.0
Packaging single width (cm)	18.0
Packaging single depth (cm)	16.0
DUN14 (outer)	05025768700479
Units per outer package	1
Packaging outer length / height (cm)	18.0
Packaging outer width (cm)	18.0
Packaging outer depth (cm)	16.0

### Safety data

Optimal operating condition (°C)	25-25
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## PHOTOMETRY

## Expospot 90 cardan square EXPOSPOT 90 MONO HE RA90 3000K NB WHITE 2070047



0.5	0.22	E(0°) E(C0)	22174 10330
1.0	0.45	E(0°) E(C0)	5543 2532
1.5	0.67	E(0°) E(C0)	2484 1148
2.0	0.89	E(0°) E(C0)	1396 646
2.5	1.12	E(0°) E(C0)	887 413
3.0	1.34	E(0°) E(C0)	616 287

Distance [m]      Cone diameter [m]      Illuminance [lx]  
C0 - C180 (Half beam angle: 25.2°)

## TECHNICAL DRAWINGS

