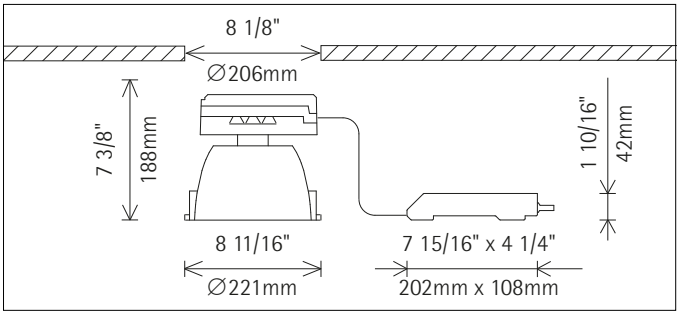
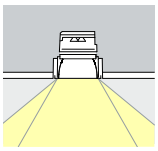
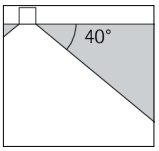
Atrium double focus downlight

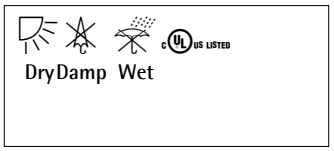
with black anti-glare cone



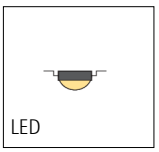


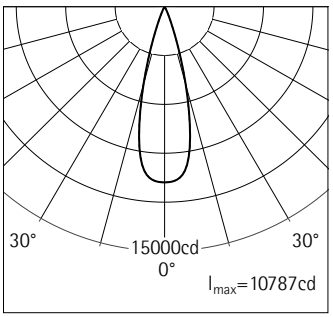












Beam angle
C_0 28°

UGR glare evaluation
C_0 <10

45270.023 White (RAL9002)
LED module: 24.2W 3107lm 3000K warm white
0-10V dimmable
Version 3
Construction size 7
Covered mounting detail
Flush mounting is possible with accessory
Spherolit lens, flood

Product description
Housing: cast aluminum, designed as heat sink, with connection cable L 19 11/16" / 500mm. Fixing ring: polymer, black.
Mounting ring: polymer, white (RAL9002). Fixing for ceiling thicknesses of 1/16"-1 3/16" / 1-30mm.
5 terminals.
Control gear 120V, 60Hz, dimmable.
LED module: high-power LEDs.
Collimating lens made of optical polymer.
Anti-glare cone: polymer, coated black (RAL9005), matt.
Cut-off angle 40° from horizontal.
Type Non IC luminaire.
Insulation materials must be kept away from the luminaire by a minimum of 3".
Thermally protected luminaire.
Dimming with external dimmers possible (0-10V).
The luminaire is protected on the room side against splashing water.
Weight 4.41lbs / 2.00kg

Technical data

Luminous flux of the luminaire	2523lm
Connected load	31.0W
Luminaire efficacy	81lm/W
Color deviation	1.5 SDCM
Color rendition index	CRI 92
Lumen maintenance	L90/B10 >50000h L90 >100000h
LED failure rate	0.1% >50000h
TLA (Temporal Light Artefacts)	SVM ≤ 0.4; PstLM ≤ 1
LMF	D

For your regional contact in the ERCO Sales network click here
www.erco.com/contact

© ERCO GmbH 2026

Technical region: 120V/60Hz
We reserve the right to make technical and design changes.
Edition: 28.04.2026
Current version under
www.erco.com/45270.023

Atrium double focus downlight

Planning data

45270.023	LED module: 24.2W 3107lm 3000K warm white			
Number of luminaires per 1000ft² for	10fc	20fc	30fc	50fc
	4	8	12	19

45270.023	LED module: 24.2W 3107lm 3000K warm white			
Module (ft)	4x6	6x6	6x8	8x8
Illuminance (fc) for module (ft)	1226	818	613	460

Melanopic light effect

Art. no.	Spectrum	MR	MDER
45270.023 (direct)	3000K CRI 92	0.53	0.48

MR Melanopic factor (of luminous radiation) a_mel,v
MDER Melanopic Daylight Efficacy Ratio [gamma]_mel,v,D65

Multiplying the illuminance with the melanopic daylight efficacy ratio MDER gives the melanopic equivalent daylight illuminance MEDI. (MEDI Melanopic Equivalent Daylight Illuminance [lx] E_v,mel,D65 [lx]).

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.94	0.88	0.82	0.77	0.91	0.83	0.77	0.71	0.89	0.79	0.73	0.65

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF LMFxRSMFxLLMFxLSF
MF Maintenance Factor
LMF Luminaire Maintenance Factor
RSMF Room Surface Maintenance Factor
LLMF Lamp Lumens Maintenance Factor
LSF Lamp Survival Factor
P Room pure
C Room clean
N Room normal
D Room dirty

Technical data based on international standards and directives

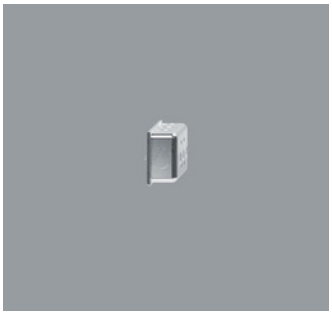
IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

All technical data are subject to industry standard tolerances.
See also www.erco.com/erco-led
For explanations of the symbols and abbreviations used and other general information, see www.erco.com/symbols

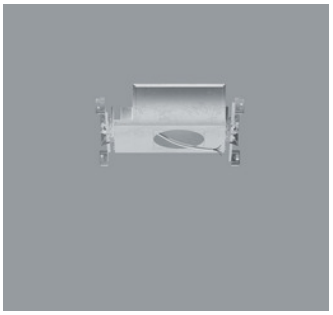
ERCO

Atrium double focus downlight

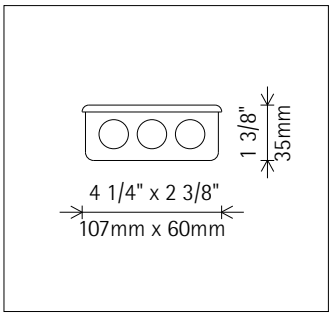
Accessories

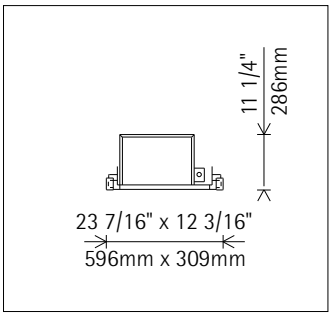


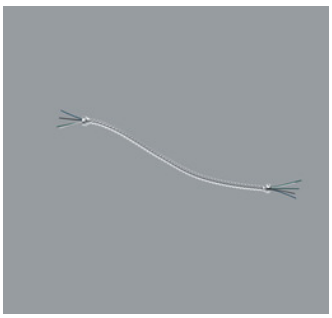
88557.023
Junction box
Housing: metal, galvanized.
The dimensions will allow fitting through ceiling aperture.
Flexible metal conduit to be ordered separately.



82968.023
Ultra airtight I.C. box
For mounting of luminaires with ceiling aperture ø 206mm or 206x206mm.
Housing and integral junction box: metal, galvanized.
2 butterfly brackets und 2 hanger bars. Hanger bars L 12 1/4"–24", height adjustable.
Flexible metal conduit L 19 11/16" / 500mm with straight snap in connectors (for 7/8" knockout) and 18AWG conductors.
Weight 11.05lbs / 5.01kg



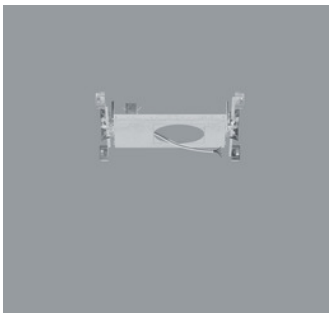




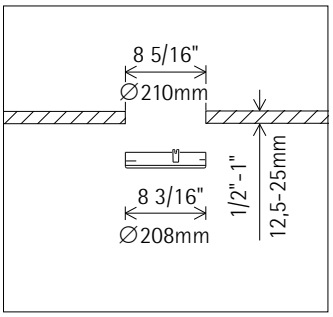
88559.023
Flexible metal conduit
L 19 11/16" / 500mm with straight snap in connectors (for 7/8" knockout) and 18AWG conductors.

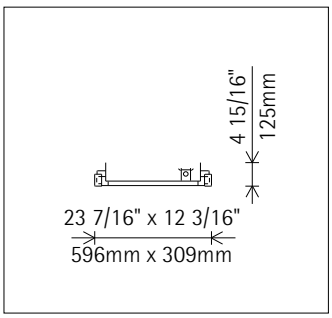


82938.000
Mounting ring
For flush mounting of recessed luminaires size 7.
Polymer, white (RAL9002). Fixing for ceiling thicknesses of 12.5-25mm.
The recess depth of the luminaire increases by 2mm.
Weight 0.42lbs / 0.19kg



82975.023
Plaster frame
For mounting of luminaires with ceiling aperture ø 206mm or 206x206mm.
Plate and integral junction box: metal, galvanized.
2 butterfly brackets and 2 hanger bars. Hanger bars L 12 1/4"–24", height adjustable.
Flexible metal conduit L 19 11/16" / 500mm with straight snap in connectors (for 7/8" knockout) and 18AWG conductors.







83980.000
Cover ring
Metal,white. For covering the gap where ceiling cut-outs are too big.
Inner and outer diameter to be specified when placing order.
Weight 0.88lbs / 0.40kg