

**86982.000** White (RAL9002)  
LED module: 12.1W 1274lm 3000K  
warm white  
DALI-2  
Version 2  
Covered mounting detail  
Wallwash

**Product description**  
Housing: aluminium profile, designed as heat sink, with connection cable L 500mm.  
Mounting frame: polymer, white (RAL9002). Fixing springs for ceiling thicknesses of 1-40mm.  
4-pole terminal block.  
Includes ERCO DALI control gear.  
LED module: high-power LEDs.  
Reflector: polymer, silver vaporised, mirror-finish. Softec lens.  
Louvre: polymer, aluminium vaporised, silver, highly specular.  
Cut-off angle 70°.  
Min. distance between luminaire and control gear 100mm.  
Dimming possible via commercially available push-buttons (Push Dim).  
Approved for use as emergency lighting according to IEC / EN 60598-2-22.  
Protection Class II  
Weight 0.82kg

## Mean illuminance $E_n$ (wall)

Wall height (m)	4			
Offset from wall (m)	1.20	1.20	1.50	1.50
Luminaire spacing (m)	1.20	1.80	1.80	2.10
Illuminance $E_n$ (lx)	157	107	100	86

## Technical data

Luminous flux of the luminaire	827lm
Connected load	15.0W
Luminaire efficacy	55lm/W
Colour deviation	1.5 SDCM
Colour rendition index	CRI 92
Lumen maintenance (LED manufacturer specifications)	L90/B10 $\leq 50000h$ L90 $\leq 100000h$
LED failure rate	0.1% $\leq 50000h$
Dimming range	0.1%-100%
Dimming method	CCR
TLA (Temporal Light Artefacts)	SVM $\leq 0.4$ ; PstLM $\leq 1$
LMF	D
Standby power per control gear	0.4W
Luminaires per circuit breaker B16	216

## Planning data

### Illuminance $E_n$ (lx)

Specifications:

Number of luminaires  $n > 5$

Wall height (m) 4.0

Offset from wall (m)	1.20		1.20		1.50		1.50	
Luminaire spacing (m)	1.20		1.80		1.80		2.10	
	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires
0.500	208	226	153	134	98	103	89	80
0.750	259	252	180	168	122	130	109	109
1.000	274	263	193	164	141	138	124	117
1.250	243	239	176	148	148	138	129	115
1.500	213	210	153	133	137	128	121	106
1.750	182	180	129	117	123	117	109	98
2.000	153	151	107	100	109	106	96	89
2.250	127	126	89	84	95	93	84	79
2.500	105	104	73	71	83	81	72	69
2.750	86	86	60	59	72	71	62	60
3.000	71	71	50	49	62	61	54	52
3.250	59	59	42	41	53	52	46	45
3.500	49	49	35	34	45	45	39	39

### Melanopic light effect

Art. no.

86982.000 (direct)

Spectrum

3000K CRI 92

MR

0.53

MDER

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  $[lx] E_{v,mel,D65} [lx]$ ).

### Extract from environmental product declaration

The complete environmental product declaration can be found at: [www.erco.com/86982.000](http://www.erco.com/86982.000)

Extrapolation factors of the article

Lighting output		Manufacturing	Distribution	Installation	Use	EoL					Benefits and loads
839		1.029	0.664	0.786	0.517	0.62					1.029
Parameter	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D	Total, excl. D
Results per functional unit											
GWP	kg CO2-eq.	3.48E00	6.64E-02	1.33E-01	7.29E01	0.00E00	1.91E-03	1.12E-01	1.41E-03	-1.11E00	7.67E01
GWP-biogenic	kg CO2-eq.	-1.68E-01	0.00E00	1.28E-01	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	-4.00E-02
Results per declared unit											
GWP	kg CO2-eq.	1.63E01	3.11E-01	6.19E-01	3.40E02	0.00E00	8.93E-03	5.24E-01	6.57E-03	-5.19E00	3.58E02
GWP-biogenic	kg CO2-eq.	-7.83E-01	0.00E00	5.98E-01	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	0.00E00	-1.85E-01
A1-A3	Manufacturing										
A4	Distribution										
A5	Installation										
B6	Use										
C1-C4	End of Life										
D	Benefits and loads										

## Planning data

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
RSMF	0.99	0.97	0.95	0.92	0.98	0.97	0.95	0.92	0.98	0.97	0.95	0.92
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

### Data according to regulations

2019/2020/EU supplemented by 2021/341/EU and 2019/2015/EU supplemented by 2021/340/EU Energy Consumption Labelling Ordinance

This product contains a light source of efficiency class E  
Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

ID EPREL: 696810

Model identifier: 3000054622

Download data sheets for control gear and disassembly instructions at [www.erco.com/slr](http://www.erco.com/slr)

### Technical data in accordance with international norms and standards

IEC 60598	Luminaires – Part 1+2: general requirements, specific requirements and tests
IEC 62031	LED modules for general lighting – safety requirements
IEC 62471	Photobiological safety of lamps and lamp systems
EN 13032-4	Light and lighting – measurement and representation of photometric data
CIE 13	Method of measuring and specifying colour rendering properties of light sources

All technical data is subject to industry-standard tolerances.

Also see [www.erco.com/erco-led](http://www.erco.com/erco-led)

For explanations of the symbols and abbreviations used and other general information, see [www.erco.com/symbols](http://www.erco.com/symbols)

## Accessories

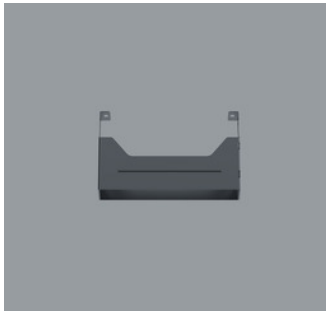
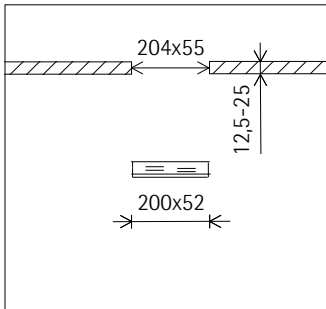
**87153.000**

Mounting frame

For flush mounting of luminaires with ceiling aperture 198x50mm.

Polymer, white (RAL9002). Mounting for ceiling thicknesses of 12.5-25mm.

The recess depth of the luminaire increases by 2mm.

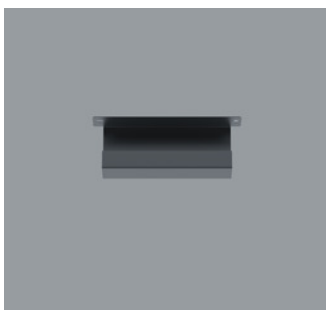
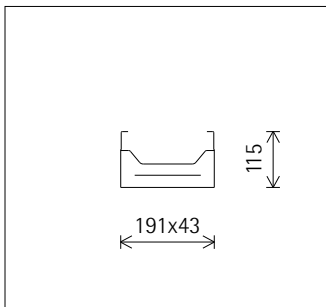
**87544.000**

Mounting frame

for ceiling channels

Sheet steel, powder-coated black.

Weight 0.27kg

**88236.000**

Suspension for control gear

Sheet steel, powder-coated black.

Weight 0.25kg

Only in conjunction with

87544.000

