

RECOVER DALI 1350

099-2210D37



Project / Type

Notes

Count / Date



IP 40

General

Wall | Surface

pure white | RAL 9010

IP40

indirect 6700 lm | direct 559¹, 1480², 2³ lm

total 559¹, 1480², 6700³ lm

559¹, 1480², 6700³ lm

LED

3000 K¹, 3000 K², tunable white³ | 2700 K - 6500 K

CRI ≥ 97¹, 97², 70³

L80 / 50000 h¹, L80 / 50000 h², L95 / 50000 h³

initial MacAdam ≤ 3 SDCM

MR 0.63¹, 0.63², 0.92³ | MDER 0.57¹, 0.57², 0.83³

R_g: 102 | R_f: 96 | R_{t(1-15)}: 96

Electrical

non DIM¹, non DIM², DALI-2³

PC1 | 220-240 V

system 9.4¹, 23.5², 60³ W

system 59¹, 63², 112³ lm/W ⁴

Physical

length 1350 mm | width 223 mm | height 80 mm

12 kg

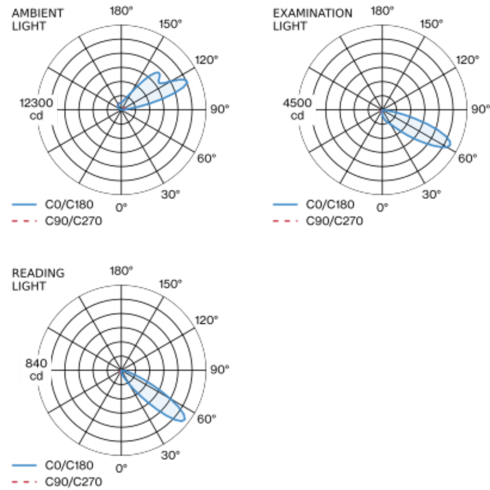
LED wall mounted light for standard nursing area; IP 40 protection; 1 pc per bed; mounting height of upper edge of luminaire: 180cm; rectangular luminaire profile with direct / indirect light distribution, surface white powder coated; end cap in same colour; direct and indirect light exit with clear toughened glass cover; cable inlet on the wall side for 220-240V power supply, for the examination light circuit and the reading light and 2 DALI control lines; power feed from the rear (wall mounting profile preassembled); Luminaire offers 3 kinds of lighting; 1) Reading light 3000K; flush mounted, equipped with lens technology to avoid glare to neighbouring bed; reading light switchable by means of a connection to a potential-free contact (e.g., via a patient terminal provided by the customer); 2) Examination light 3000K; switchable by means of a connection to a button; 3) Indirect, tuneable white room lighting; 2700K – 6500K; controllable via DALI Control; maximum power consumption 91W at 6500K; luminous flux 6700lm at 6500K; L80 min. 80% of luminous flux after 50000 operating hours; reading and examination light: colour temperature 3000K; colour rendering CRI > 90, CRI typically 95; colour point binning: directly on the BBL, colour homogeneity: initial <3-Step SDCM scale, colour point stability: final after 10000 hrs <4-Step SDCM scale; PC I; complies with the following provisions: EN (IEC) 60598-1 and the supplement EN (IEC) 60598-2-25; dimensions of housing W 1350mm, visible H 47mm, wall profile H 80mm, D 223mm; Manufacturer XAL, type RECOVER dali 1350; necessary accessories per room: DALI POWER SUPPLY and DALI control

¹ READING LIGHT ² EXAMINATION LIGHT ³ AMBIENT LIGHT
⁴ incl. consideration of optical losses, internal control unit losses & operating device efficiency

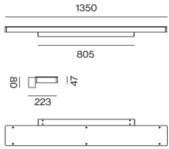
Installation instructions



Light distribution



Product drawing



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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.93	0.89	0.85	0.81
LSF	1	1	1	1	1
MF	LMF × RSMF × LLMF × LSF		RSMF ^a	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF ^a	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

^a According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

Circuit Breaker Types

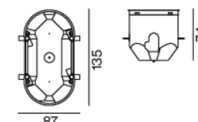
Automatic Circuit Breaker Type	Number of Fixtures
B10	14
B13	18
B16	25
B20	28
C10	23
C13	30
C16	38
C20	46

Mounting accessories

INSTALLATION HOUSING

L-W-H (MM)
71-75-135

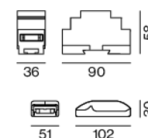
ARTICLE NUMBER(S)
099-2290000



Electrical accessories

DALI POWER SUPPLY

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
for top-hat-rail mounting 240 mA	90-36-58	002-59871
for ceiling insertion 200 mA	102-51-30	002-59880



DALI MODULE

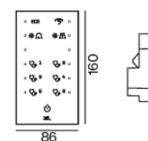
TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
for control of 4 scenes / 2 groups	48-28-15	002-54026



Electrical accessories

MASTER UNIT

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
single patient room	85-48-160	099-2291137
double patient room	85-48-160	099-2291237
three patient room	85-48-160	099-2291337
four patient room	85-48-160	099-2291437
five patient room	85-48-160	099-2291537
six patient room	85-48-160	099-2291637



[099-2210D37] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.
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Electrical accessories

DALI LIGHT SENSOR

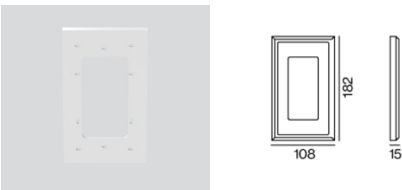
TYPE	Ø (MM)	ARTICLE NUMBER(S)
recessed ceiling mounted	86	002-54051
surface mounted	86	002-54058
socket mounted	103	002-54053



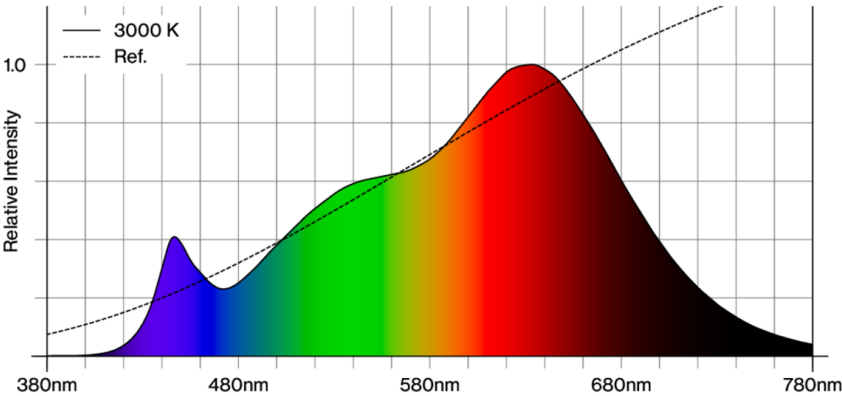
Other accessories

SAFETY FRAME FOR MASTER UNIT

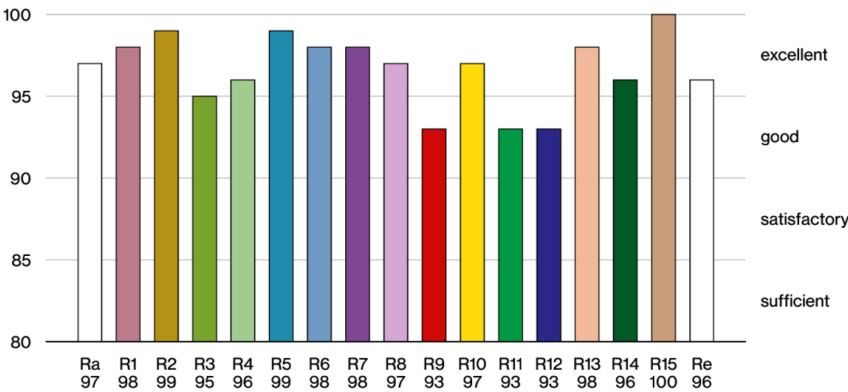
TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
mandatory for MASTER UNIT	108-15-182	099-2298007



Colour rendering



CRI/R_a ≥ 97 R_e ≥ 96 (3000 K)



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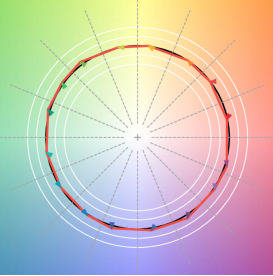


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TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

