

RECOVER DALI 1650

099-2211D37



Project / Type
Notes
Count / Date



220-240 V
IP 40
X-PERT

General

Wall Surface
white RAL 9010 ¹
IP40
total 559 ² , 1480 ³ , 8380 ⁴ lm
559 ² , 1480 ³ , 8380 ⁴ lm
indirect 8380 lm direct 559 ² , 1480 ³ , 2 ⁴ lm

LED

tunable white ² -3000 K ³ 2700 K - 6500 K
CRI ≥ 70 ² -97 ³
L95 / 50000 h ² -L80 / 50000 h ³
initial MacAdam ≤ 3 SDCM
R _g : 102 R _f : 96 R _{f(1-5)} : 96
MR 0.92 ² -0.63 ³ MDER 0.83 ² -0.57 ³

Electrical

DALI-2 ² -non DIM ³
PC1 220-240 V
system 9.4 ² , 23.5 ³ , 75 ⁴ W
system 59 ² , 63 ³ , 112 ⁴ lm/W ⁵

Physical

length 1645 mm width 223 mm height 80 mm
12 kg

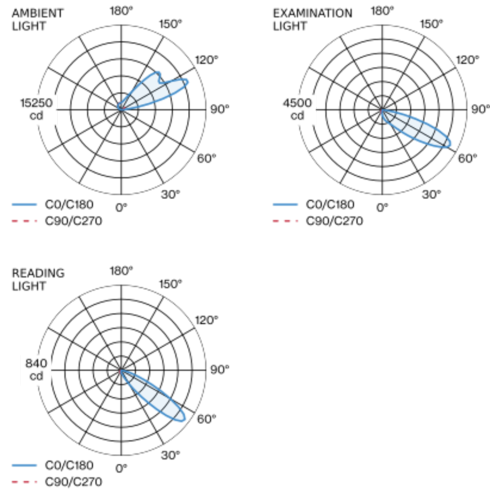
LED wall mounted light for standard nursing area; IP 40 protection; 1 pc per bed; mounting height of upper edge of luminaire: 180cm; rectangular luminaire profile with direct / indirect light distribution, surface white powder coated; end cap in same colour; direct and indirect light exit with clear 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 106W at 6500K; luminous flux 8380lm 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 1650mm, visible H 47mm, wall profile H 80mm, D 223mm; Manufacturer XAL, type RECOVER dali 1650; necessary accessories per room: DALI POWER SUPPLY and DALI control

¹ RAL code ² READING LIGHT ³ EXAMINATION LIGHT
⁴ AMBIENT LIGHT
⁵ incl. consideration of optical losses, internal control unit losses
& operating device efficiency

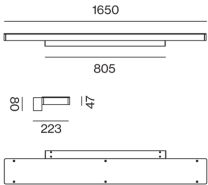
Installation instructions



Light distribution



Product drawing



[099-2211D37] 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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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.99	0.98	0.97	0.97	0.96
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	4
B13	6
B16	7
B20	9
C10	7
C13	10
C16	12
C20	15

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



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



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Other accessories

SAFETY FRAME FOR MASTER UNIT

L-W-H (MM)	ARTICLE NUMBER(S)
108-15-182	099-2298007

