

# RECOVER BASIC 1650

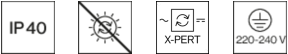
099-2211517



Project / Type

Notes

Count / Date



### General

Wall   Surface
pure white   RAL 9010
IP40
indirect 8170 lm   direct 559 <sup>1</sup> , 1480 <sup>2</sup> , 2 <sup>3</sup> lm
total 559 <sup>1</sup> , 1480 <sup>2</sup> , 8170 <sup>3</sup> lm
559 <sup>1</sup> , 1480 <sup>2</sup> , 8170 <sup>3</sup> lm

### LED

3000 K
CRI ≥ 97
L80 / 50000 h
initial MacAdam ≤ 3 SDCM
R <sub>g</sub> : 102   R <sub>f</sub> : 96   R <sub>f(1-5)</sub> : 96
MR 0.63   MDER 0.57

### Electrical

non DIM
PC1   220-240 V
system 9.4 <sup>1</sup> , 23.5 <sup>2</sup> , 99 <sup>3</sup> W
system 59 <sup>1</sup> , 63 <sup>2</sup> , 83 <sup>3</sup> lm/W <sup>4</sup>

### Physical

length 1645 mm   width 223 mm   height 80 mm
12 kg

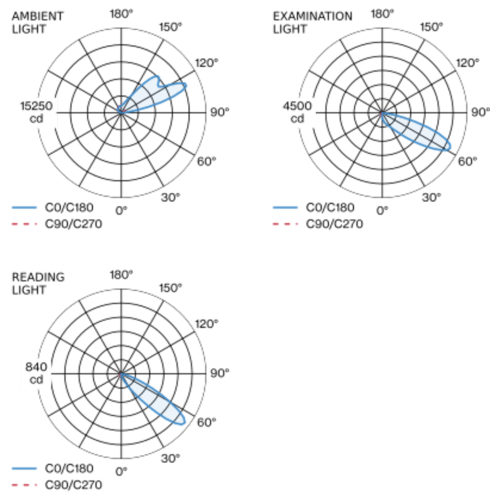
LED wall mounted light for standard nursing area; IP 40 protection; 1 pc per bed; mounting height of upper edge of luminaire: 180cm; rectangular luminaire profile with direct / indirect light distribution, surface white powder coated; end cap in same colour; direct and indirect light exit with clear toughened glass cover; cable inlet on the wall side for 220-240V power supply and for the examination light circuit and the reading light; power feed from the rear (wall mounting profile preassembled); Luminaire offers 3 kinds of lighting; 1) Reading light; 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; switchable by means of a connection to a button; 3) Indirect room lighting; switchable by means of a connection to a button; maximum power consumption 127W; luminous flux 9380lm; L80 min. 80% of luminous flux after 50000 operating hours; 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 basic 1650

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

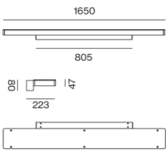
### Installation instructions



### Light distribution



### Product drawing



[\*099-2211517\*] 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	0.98	0.93	0.89	0.85	0.81
LSF	1	1	1	1	1

MF

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF<sup>a</sup>

Luminaire Maintenance Factor

RSMF<sup>a</sup>

Room Surface Maintenance Factor

LLMF

Lamp Lumens Maintenance Factor

LSF

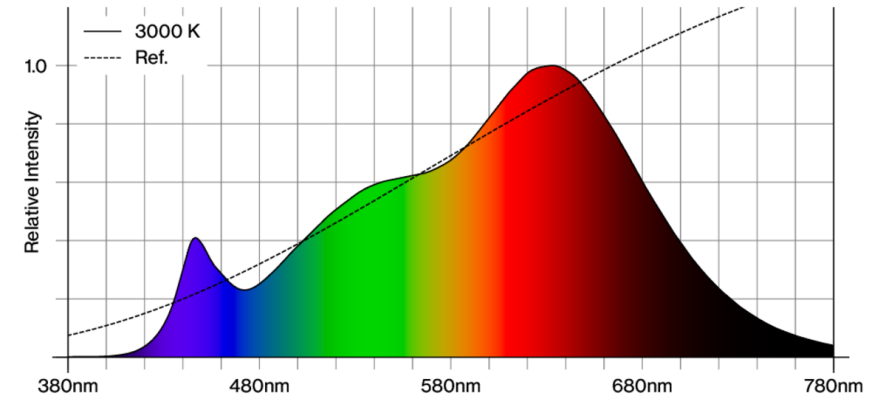
Lamp Survival Factor

<sup>a</sup> 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.

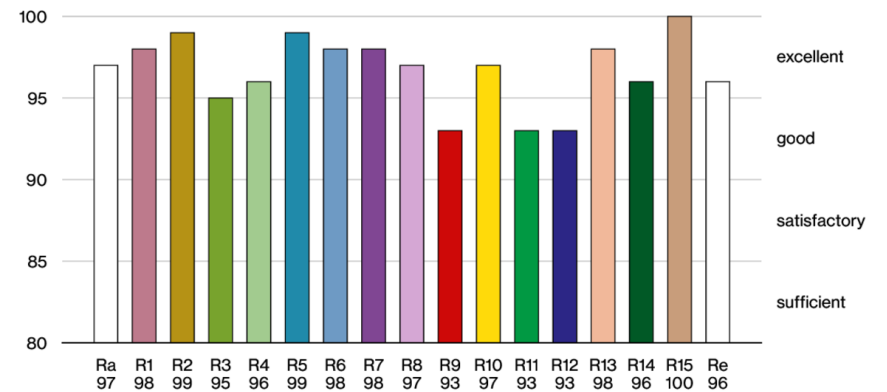
## Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	50
B13	65
B16	80
B20	100
C10	50
C13	65
C16	80
C20	100

## Colour rendering



## CRI/R<sub>a</sub> ≥ 97 R<sub>e</sub> ≥ 96 (3000 K)



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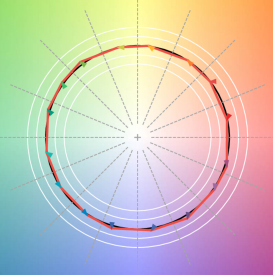


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## TM30 colour vector graphic



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.

