

3 - Axis - Office

Installation : Novaluna_pendant mounted228_Eldacon

Project number : Standard example

Customer :

Processed by : Siteco

Date : 08.2007

Project description:

Room dimensions L/ B/ H: 4,05/ 5,4/ 2,7 m

Building axis 1,35 m

According to DIN EN 12 464

Maintenance factor 0,67

Lighting direct/ indirect

Die Ermittlung der Beleuchtungsergebnisse erfolgte verkaufsunterstützend mit größter Sorgfalt auf Basis der uns vorliegenden Unterlagen mit Hilfe von marktüblichen Berechnungsverfahren (z.B. Relux, Dialux).

Eine Garantie / Gewährleistung / Haftung für diese kostenlose Errechnung wird von SITECO nicht übernommen. Wir verweisen in diesem Zusammenhang auf die Leistungen der Lichtplanungs- u. Ingenieurbüros.

The determination of the lighting results is performed on a sales support basis, with great thoroughness, using the documents at our disposal and with the aid of calculating procedures customary in the market (e.g. Relux, Dialux).

A guarantee / warranty / liability for this free calculation is not provided by SITECO. In this respect, we refer to the services of the light planning and engineering office.

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

Object : 3 - Axis - Office
Installation : Novaluna_pendant mounted228_Eldacon
Project number : Standard example
Date : 08.2007

1 Luminaire data

1.1 Siteco, Novaluna (5MC 254 7-2HS1)

1.1.1 Data sheet

Manufacturer: Siteco

5MC 254 7-2HS1 Einzelleuchte für abgehängte Montage oder Deckenanbau Novaluna

Gehäuse aus Aluminium-Strangpreßprofil

mit ELDAICON-Lichtlenkung

BAP65 (L <= 1000 cd/m² rundum)

Schutzart:IP 20

Schutzklasse: SK I

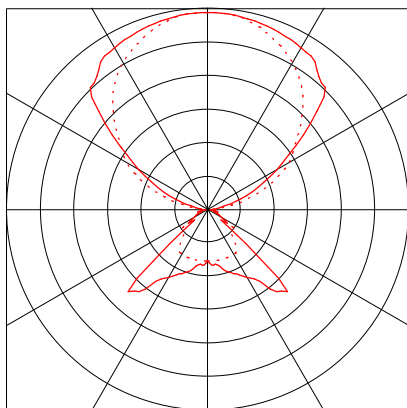
Montageart: Anbau, abgehängt

Luminaire data

Luminaires efficiency : 92% (D43)
Control gear : EVG
System power : 63 W
Length : 1196 mm
Width : 365 mm
Height : 32 mm

Equipped with

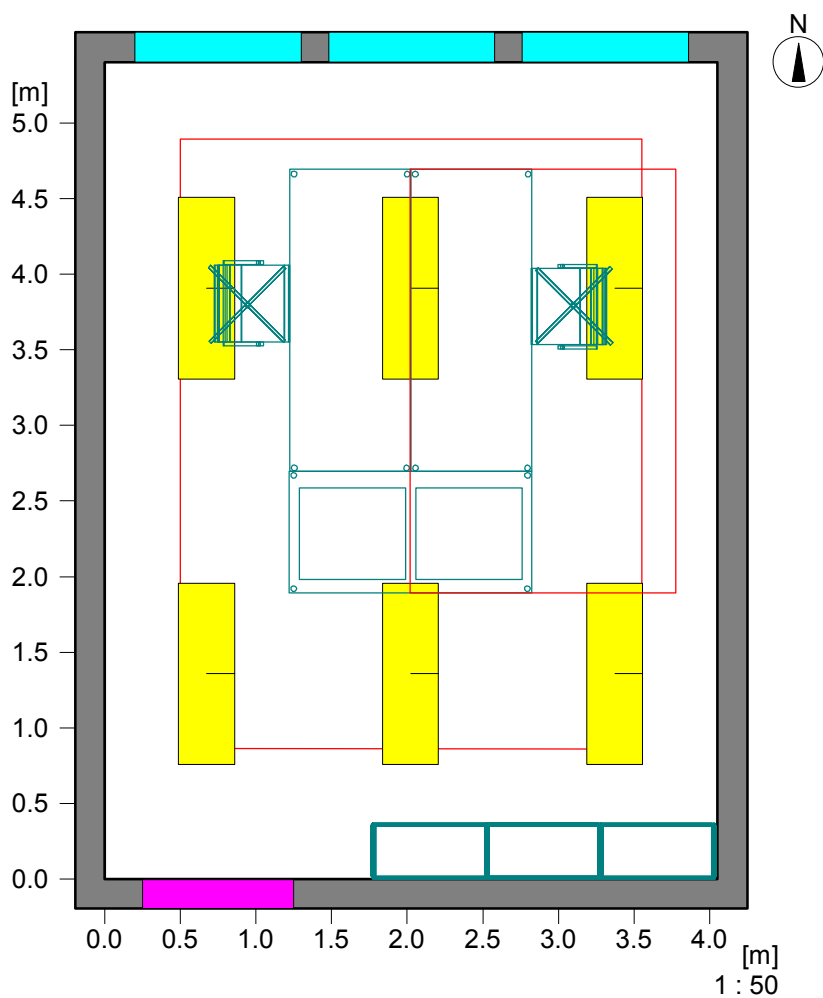
Number of : 2
Designation : FDH
Power : 28 W
Colour :
Luminous flux : 2600 lm



2 Raum

2.1 Description, Raum

2.1.1 Floor plan



Room data:

W1 :	4.05	50.0 %
W2 :	5.40	50.0 %
W3 :	4.05	50.0 %
W4 :	5.40	50.0 %
W5 :	----	----
W6 :	----	----
Floor:	----	20.0 %
Ceiling:	----	70.0 %
Room height [m]:	2.70	
Height of reference plane [m]:	0.75	
Height of luminaire plane [m]:	2.40	

Reflectance:

Structural elements

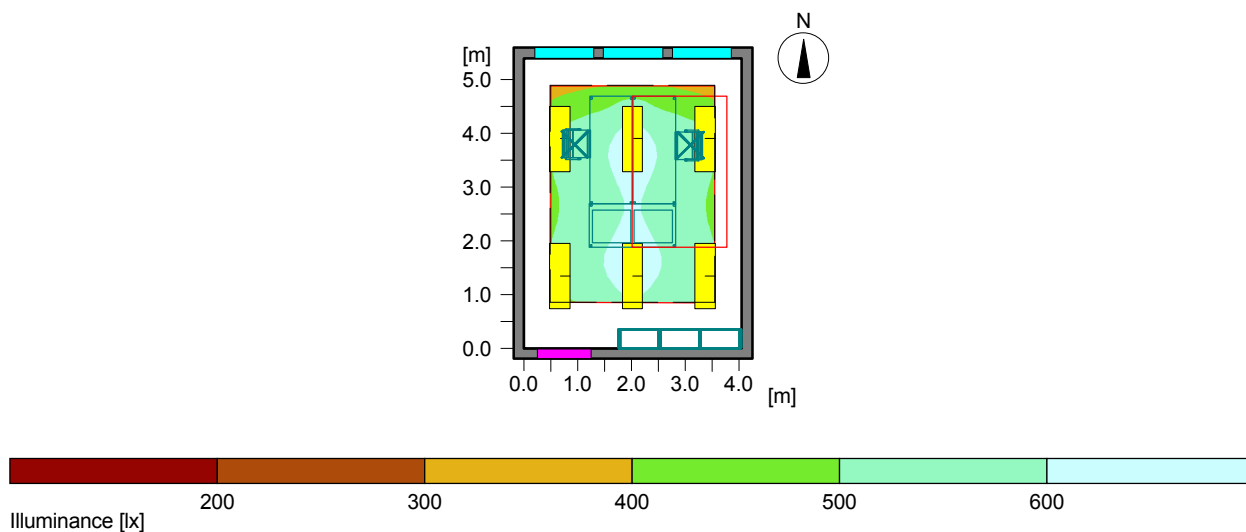
Pi :	Pillar
Tr :	Partition
Wo :	Real working surface
m :	Virtual measuring area
S :	Skylight
W :	Picture
Wi :	Window
DF :	Door
F :	Furniture

Object : 3 - Axis - Office
 Installation : Novaluna_pendant mounted228_Eldacon
 Project number : Standard example
 Date : 08.2007

2 Raum

2.2 Summary, Raum

2.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	High indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.40 m
Maintenance factor	0.67
Total luminous flux of all lamps	31200 lm
Total power	378 W
Total power per area (21.87 m ²)	17.28 W/m ² (3.15 W/m ² /100lx)

Illuminance

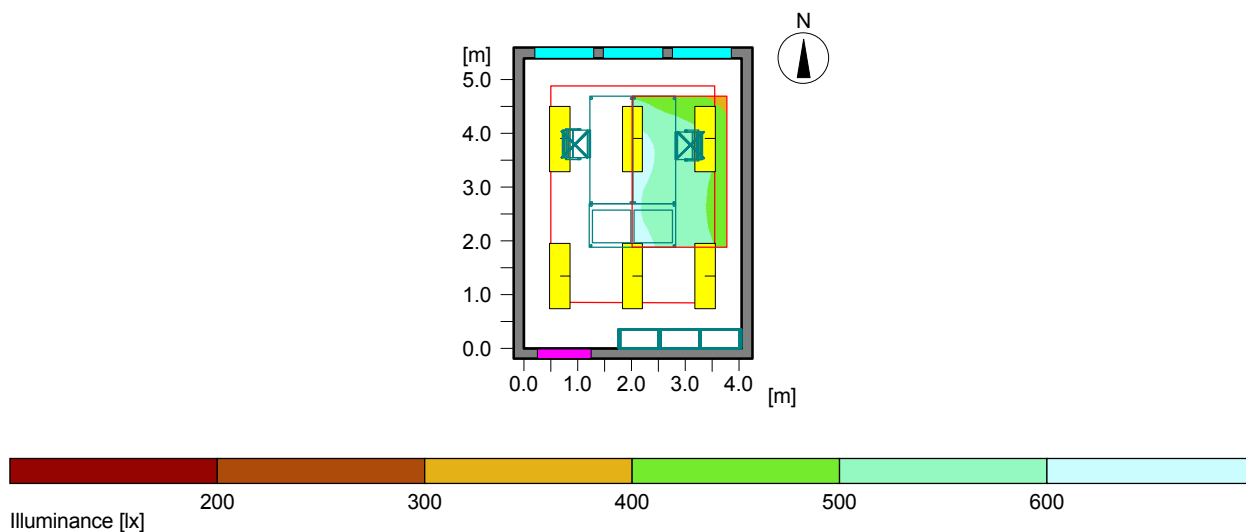
Average illuminance	Eav	548 lx
Minimum illuminance	Emin	374 lx
Maximum illuminance	E _{max}	651 lx
Uniformity g1	E _{min} /E _m	1:1.47 (0.68)
Uniformity g2	E _{min} /E _{max}	1:1.74 (0.57)

Type No.\Make

1	6	Siteco	
		Order No.	: 5MC 254 7-2HS1
		Luminaire name	: Novaluna
		Equipment	: 2 x FDH 28 W / 2600 lm

2.2 Summary, Raum

2.2.2 Result overview, Measuring area (virtual) 1.1



General

Calculation algorithm used : High indirect fraction
 Height of evaluation surface : 0.72 m
 Height of luminaire plane : 2.40 m
 Maintenance factor : 0.67

Total luminous flux of all lamps : 31200 lm
 Total power : 378 W
 Total power per area (21.87 m²) : 17.28 W/m²

Illuminance

Average illuminance : Eav : 533 lx
 Minimum illuminance : Emin : 370 lx
 Maximum illuminance : Emax : 632 lx
 Uniformity g1 : Emin/Em : 1:1.44 (0.69)
 Uniformity g2 : Emin/Emax : 1:1.71 (0.58)

Type No.\Make

1 6 **Siteco**
 Order No. : 5MC 254 7-2HS1
 Luminaire name : Novaluna
 Equipment : 2 x FDH 28 W / 2600 lm

Object : 3 - Axis - Office
Installation : Novaluna_pendant mounted228_Eldacon
Project number : Standard example
Date : 08.2007

2 Raum

2.3 Calculation results, Raum

2.3.1 3D luminance, Ansicht von links



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 657 cd/m²