

## 4 - Axis - Office

Installation : Comfolight2\_Pendant mounted254\_Eldacon

Project number : Standard example

Customer :

Processed by : Siteco

Date : 08.2007

Project description:

Room dimensions L/ B/ H: 5,4/ 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.

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# 1 Luminaire data

## 1.1 Siteco, COMFOLIGHT 2 (5MF 438 7-1HS)

### 1.1.1 Data sheet

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**Manufacturer: Siteco**

**5MF 438 7-1HS** single luminaire for pendant mounting **COMFOLIGHT 2**

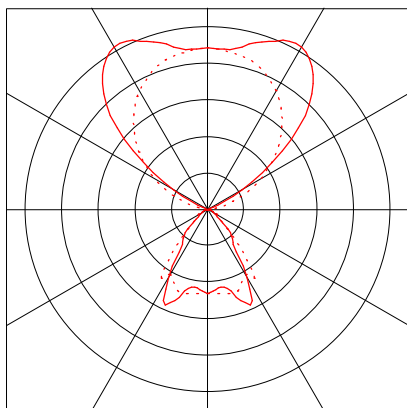
Extruded aluminium housing  
with ELDACON technology  
direct/indirect distribution  
Degree of protection:IP 20  
Protection class: I  
Mounting type:: suspended

#### Luminaire data

Luminaires efficiency : 86.5% (D63)  
Control gear : HFG  
System power : 118 W  
Length : 2432 mm  
Width : 162 mm  
Height : 56 mm

#### Equipped with

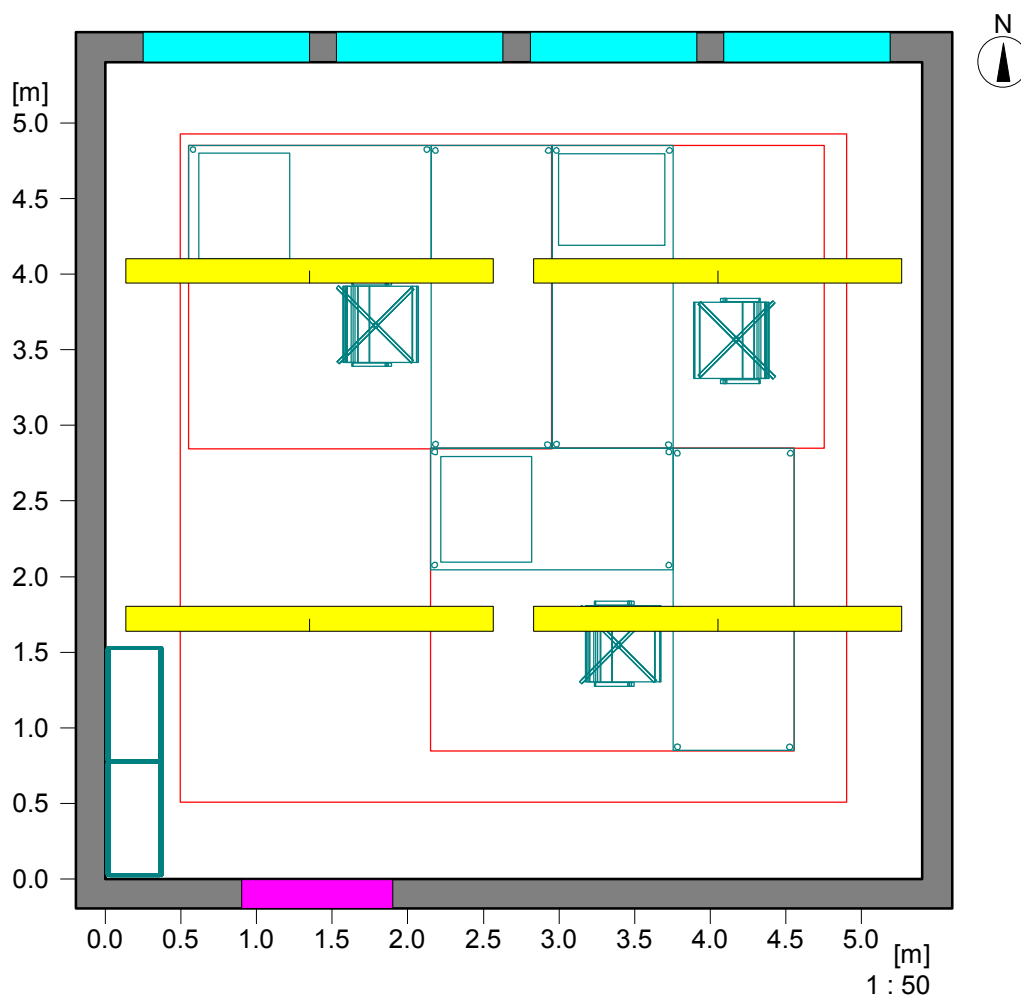
Number of : 2  
Designation : FDH  
Power : 54 W  
Colour :  
Luminous flux : 4450 lm



## 2 Raum

### 2.1 Description, Raum

#### 2.1.1 Floor plan



#### Room data:

W1 :	5.40	50.0 %
W2 :	5.40	50.0 %
W3 :	5.40	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]:	2.35	

#### Reflectance:

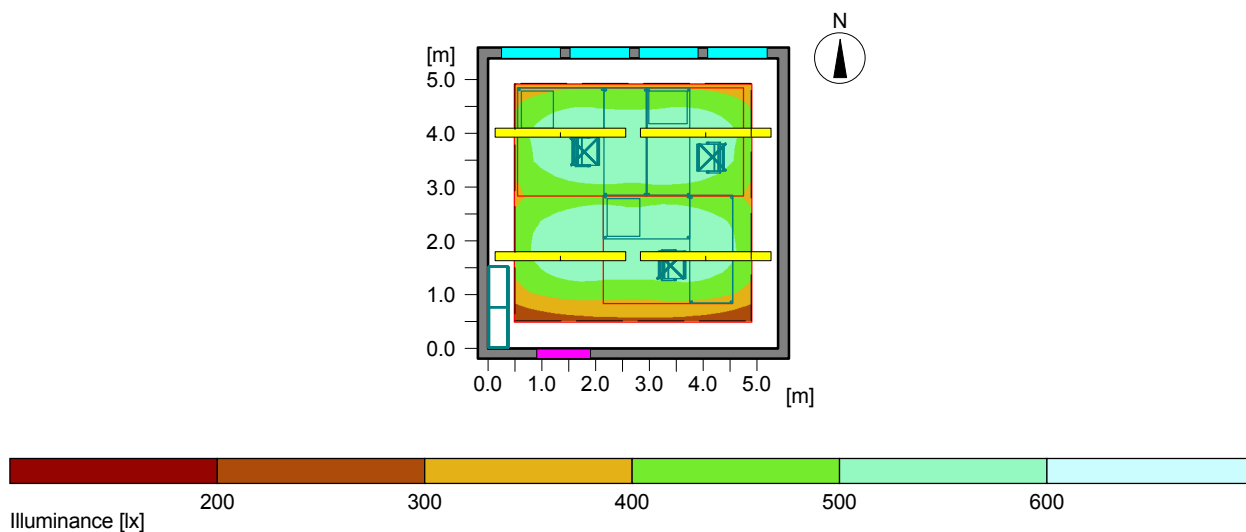
#### Structural elements

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

## 2 Raum

### 2.2 Summary, Raum

#### 2.2.1 Result overview, Reference plane 1



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.35 m
Maintenance factor	0.67
Total luminous flux of all lamps	35600 lm
Total power	472 W
Total power per area (29.16 m <sup>2</sup> )	16.19 W/m <sup>2</sup> (3.34 W/m <sup>2</sup> /100lx)

#### Illuminance

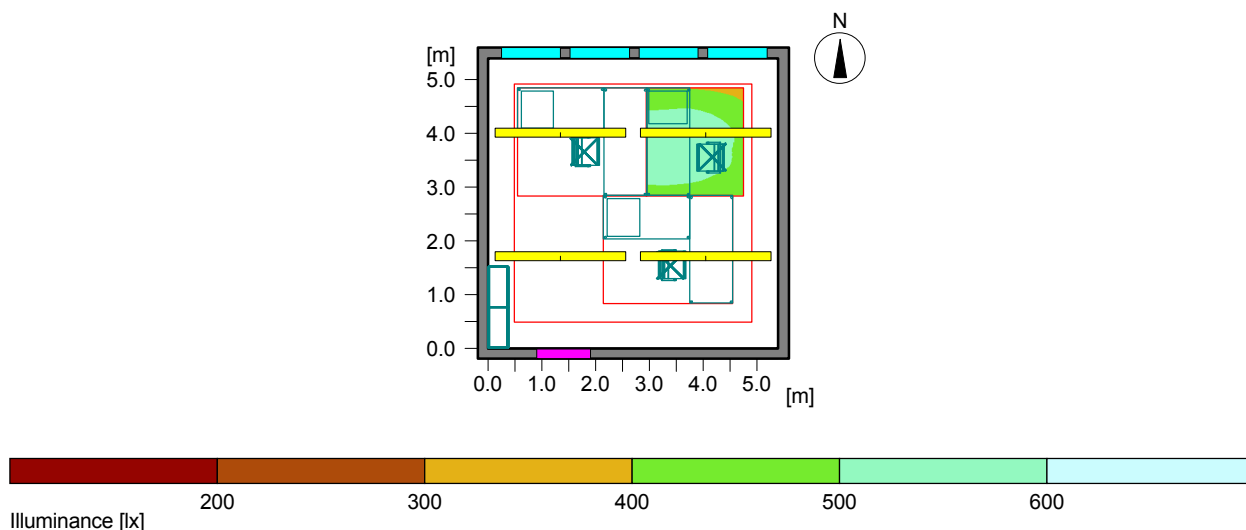
Average illuminance	Eav	485 lx
Minimum illuminance	Emin	244 lx
Maximum illuminance	Emax	577 lx
Uniformity g1	Emin/Em	1:1.98 (0.5)
Uniformity g2	Emin/Emax	1:2.36 (0.42)

#### Type No.\Make

1	4	<b>Siteco</b>	
		Order No.	: 5MF 438 7-1HS
		Luminaire name	: COMFOLIGHT 2
		Equipment	: 2 x FDH 54 W / 4450 lm

## 2.2 Summary, Raum

### 2.2.2 Result overview, Measuring area (virtual) 1.1



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.35 m
Maintenance factor	0.67

Total luminous flux of all lamps	35600 lm
Total power	472 W
Total power per area (29.16 m <sup>2</sup> )	16.19 W/m <sup>2</sup>

#### Illuminance

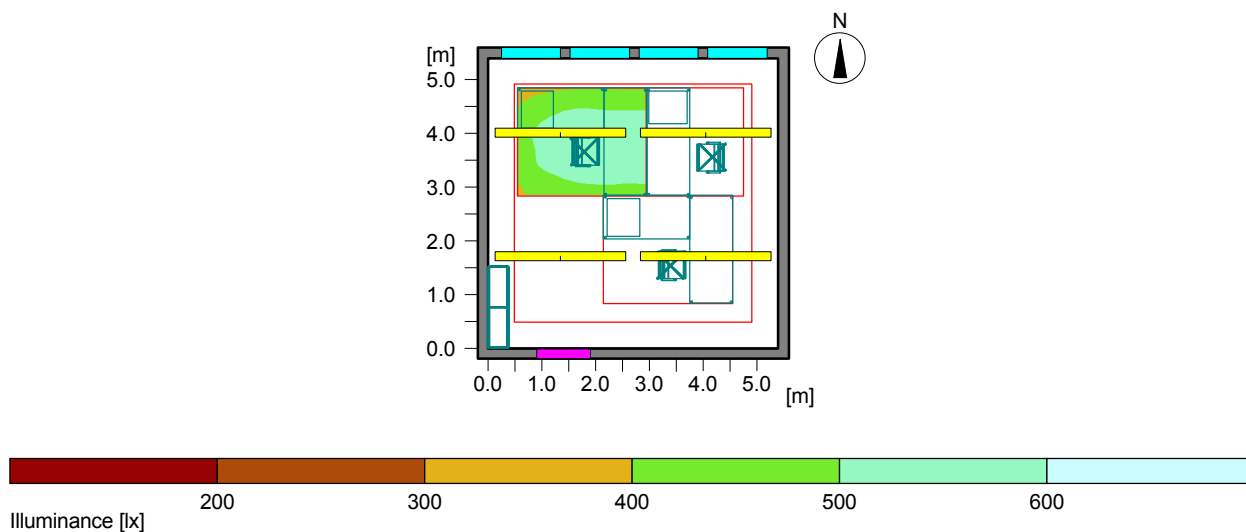
Average illuminance	Eav	503 lx
Minimum illuminance	Emin	356 lx
Maximum illuminance	E <sub>max</sub>	570 lx
Uniformity g1	E <sub>min</sub> /E <sub>m</sub>	1:1.41 (0.71)
Uniformity g2	E <sub>min</sub> /E <sub>max</sub>	1:1.6 (0.62)

#### Type No.\Make

1	4	<b>Siteco</b>	
		Order No.	: 5MF 438 7-1HS
		Luminaire name	: COMFOLIGHT 2
		Equipment	: 2 x FDH 54 W / 4450 lm

## 2.2 Summary, Raum

### 2.2.3 Result overview, Measuring area (virtual) 1.2



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.35 m
Maintenance factor	0.67

Total luminous flux of all lamps	35600 lm
Total power	472 W
Total power per area (29.16 m <sup>2</sup> )	16.19 W/m <sup>2</sup>

#### Illuminance

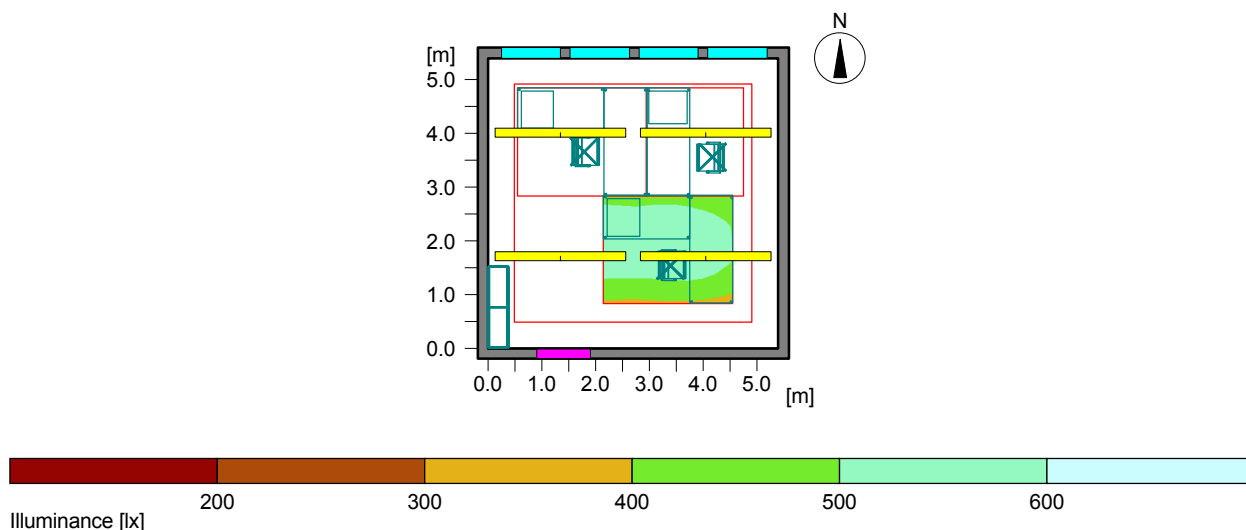
Average illuminance	Eav	503 lx
Minimum illuminance	Emin	352 lx
Maximum illuminance	E <sub>max</sub>	572 lx
Uniformity g1	E <sub>min</sub> /E <sub>m</sub>	1:1.43 (0.7)
Uniformity g2	E <sub>min</sub> /E <sub>max</sub>	1:1.63 (0.62)

#### Type No.\Make

1	4	<b>Siteco</b>	
		Order No.	: 5MF 438 7-1HS
		Luminaire name	: COMFOLIGHT 2
		Equipment	: 2 x FDH 54 W / 4450 lm

## 2.2 Summary, Raum

### 2.2.4 Result overview, Measuring area (virtual) 1.3



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.35 m
Maintenance factor	0.67

Total luminous flux of all lamps	35600 lm
Total power	472 W
Total power per area (29.16 m <sup>2</sup> )	16.19 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Eav	509 lx
Minimum illuminance	Emin	363 lx
Maximum illuminance	E <sub>max</sub>	571 lx
Uniformity g1	E <sub>min</sub> /E <sub>m</sub>	1:1.4 (0.71)
Uniformity g2	E <sub>min</sub> /E <sub>max</sub>	1:1.57 (0.64)

#### Type No.\Make

1	4	<b>Siteco</b>	
		Order No.	: 5MF 438 7-1HS
		Luminaire name	: COMFOLIGHT 2
		Equipment	: 2 x FDH 54 W / 4450 lm

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## 2 Raum

### 2.3 Calculation results, Raum

#### 2.3.1 3D luminance, Ansicht von rechts

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Luminance in the scene  
Minimum: : 0 cd/m<sup>2</sup>  
Maximum: : 472 cd/m<sup>2</sup>