

## School - Auditorium

Installation : Silhouette Surface Mounted (1x 49 W)

Project number : Standard example

Customer :

Processed by : Siteco

Date : 01.2008

Project description:

Room dimensions L/ B/ H: 14,00/ 21,00/ 3,50 m

According to DIN EN 12 464-1

Maintenance factor 0,67

Reflectance 70/ 50/ 20

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, Siluette (5MJ 222 7-1Q)

#### 1.1.1 Data sheet

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**Manufacturer: Siteco**

**5MJ 222 7-1Q Einzel- oder Bandleuchte für Deckenanbau oder abgehängte Montage Siluette**

Gehäuse aus Stahlblech, weißaluminium (RAL 9006)

Prismenwanne (PMMA), satiniert

direkt breit strahlend mit Decken- und Wandaufhellung

Schutzart:IP 50

Schutzklasse: SK I

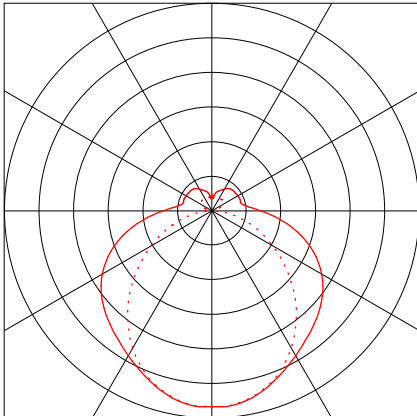
Montageart: Anbau, abgehängt

#### Luminaire data

Luminaires efficiency : 87.7% (B32)  
Control gear : EVG  
System power : 55 W  
Length : 1492 mm  
Width : 214 mm  
Height : 76 mm

#### Equipped with

Number of : 1  
Designation : FDH  
Power : 49 W  
Colour :  
Luminous flux : 4300 lm



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## 1 Luminaire data

### 1.2 Siteco, SiCOMPACT A2 MINI (5NA 757 6-1PS0205)

#### 1.2.1 Data sheet

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**Manufacturer: Siteco**

**5NA 757 6-1PS0205 Asymmetrischer Fluter SiCOMPACT A2 MINI**

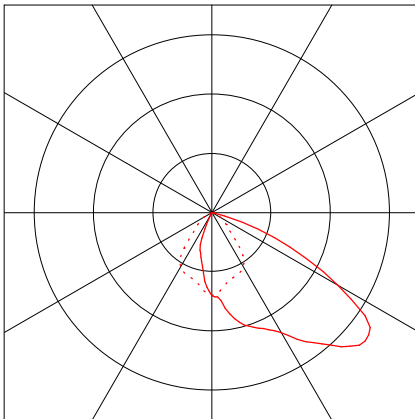
Gehäuse aus Aluminiumdruckguss, lackiert in Reinweiß  
mit eingebautem Zündgerät für sofortige Heißwiederzündung, Vorschaltgeräteeinheit in separatem Gehäuse  
Alu-Reflektor, hochglänzend  
Abdeckscheibe, Sicherheitsglas  
asymmetrisch, streuend  
Schutzart: IP 66  
Schutzklasse: SK I  
Montageart: Flutlicht

**Luminaire data**

Luminaires efficiency : 76.4% (A40)  
Control gear : KVG  
System power : 170 W  
Length : 250 mm  
Width : 355 mm  
Height : 95 mm

**Equipped with**

Number of : 1  
Designation : MD  
Power : 150 W  
Colour :  
Luminous flux : 11700 lm



Object : School - Auditorium  
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## 1 Luminaire data

### 1.3 Siteco, Ceilingwasher (5LM 702 6-1P)

#### 1.3.1 Data sheet

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**Manufacturer: Siteco**

#### **5LM 702 6-1P Wandinbaudeckenfluter Ceilingwasher**

Gehäuse aus Stahlblech, leuchtenweiß lackiert

Evolventen-Reflektor, seidenmatt

asymmetrisch strahlend

Schutzart: IP 20

Schutzklasse: SK I

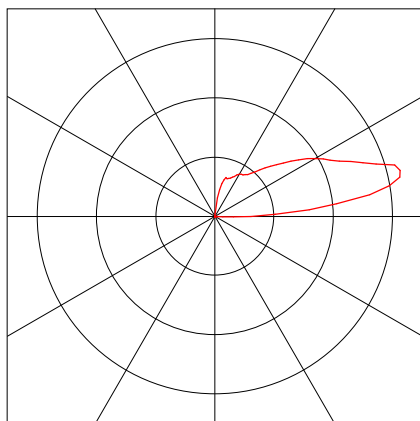
Montageart: Einbau

#### **Luminaire data**

Luminaires efficiency : 65.2% (E11)  
Control gear : EVG-Dynamic  
System power : 32 W  
Length : 1220 mm  
Width : 58 mm

#### **Equipped with**

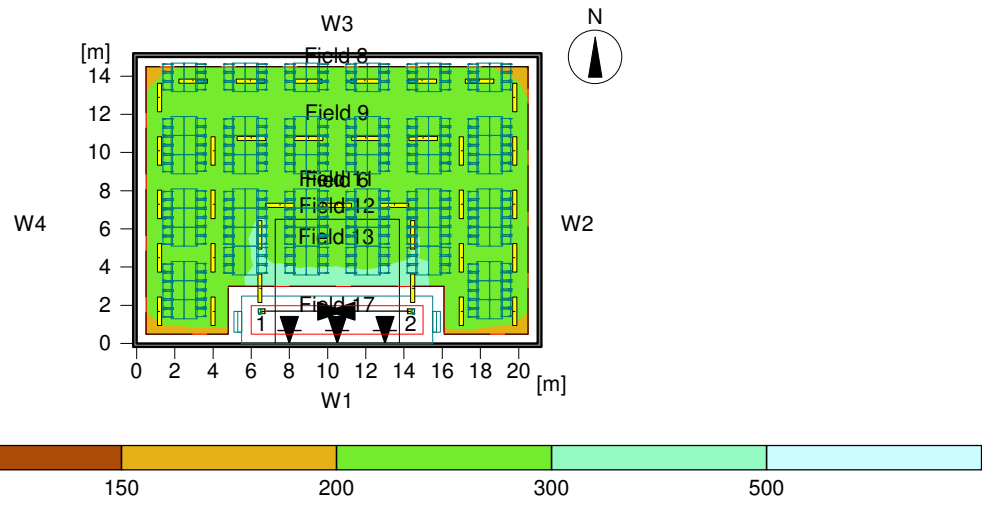
Number of : 1  
Designation : FDH  
Power : 28 W  
Colour :  
Luminous flux : 2600 lm



## 2 Raum

### 2.1 Summary, Raum

#### 2.1.1 Result overview, Reference plane 1



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Maintenance factor	0.67
Total luminous flux of all lamps	181700 lm
Total power	2361 W
Total power per area (315.00 m <sup>2</sup> )	7.50 W/m <sup>2</sup> (3.00 W/m <sup>2</sup> /100lx)

#### Illuminance

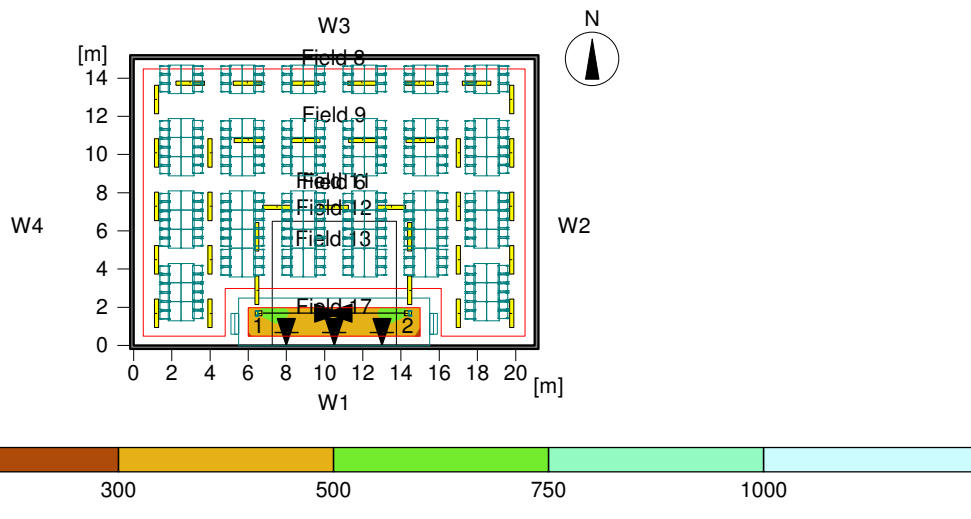
Average illuminance	Eav	250 lx
Minimum illuminance	Emin	141 lx
Maximum illuminance	E <sub>max</sub>	380 lx
Uniformity g1	Emin/Em	1:1.77 (0.57)
Uniformity g2	Emin/E <sub>max</sub>	1:2.69 (0.37)

#### Type No.\Make

		<b>Siteco</b>	
1	35	Order No.	: 5MJ 222 7-1Q
		Luminaire name	: Silhouette
		Equipment	: 1 x FDH 49 W / 4300 lm
5	2	Order No.	: 5NA 757 6-1PS0205
		Luminaire name	: SiCOMPACT A2 MINI
		Equipment	: 1 x MD 150 W / 11700 lm
6	3	Order No.	: 5LM 702 6-1P
		Luminaire name	: Ceilingwasher
		Equipment	: 1 x FDH 28 W / 2600 lm

## 2.1 Summary, Raum

### 2.1.2 Result overview, Measuring area (virtual) 1



#### General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.70 m
Maintenance factor	0.67

Total luminous flux of all lamps	181700 lm
Total power	2361 W
Total power per area (315.00 m <sup>2</sup> )	7.50 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Eav	434 lx
Minimum illuminance	Emin	300 lx
Maximum illuminance	Emax	545 lx
Uniformity g1	Emin/Em	1:1.45 (0.69)
Uniformity g2	Emin/Emax	1:1.81 (0.55)

#### Type No.\Make

1	35	<b>Siteco</b>	
		Order No.	: 5MJ 222 7-1Q
		Luminaire name	: Silhouette
		Equipment	: 1 x FDH 49 W / 4300 lm
5	2	Order No.	: 5NA 757 6-1PS0205
		Luminaire name	: SiCOMPACT A2 MINI
		Equipment	: 1 x MD 150 W / 11700 lm
6	3	Order No.	: 5LM 702 6-1P
		Luminaire name	: Ceilingwasher
		Equipment	: 1 x FDH 28 W / 2600 lm

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## 2 Raum

### 2.2 Calculation results, Raum

#### 2.2.1 3D luminance, Ansicht von hinten

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Luminance in the scene

Minimum: : 0 cd/m<sup>2</sup>  
Maximum: : 200 cd/m<sup>2</sup>