

## VATP-7

Installation : Apgaismojums

Project number : 1

Customer : Ventspils Brīvosta

Processed by : Artūrs Karulis

Date : 20.02.2018

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.

## 1 Luminaire data

### 1.1 WE-EF;Eulumdat2, DAC220 [B] IP65:LED-12/24W/4K;... (!134-1428)

#### 1.1.1 Data sheet

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**Manufacturer:** WE-EF;Eulumdat2

**!134-1428      DAC220 [B] IP65:LED-12/24W/4K;DAC220 LED, Ceiling Luminaires**

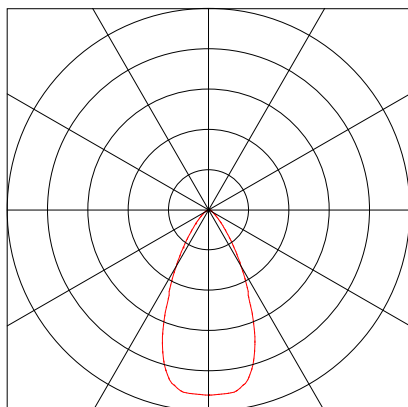
#### **Luminaire data**

Luminaire efficiency : 77.8%  
Luminaire efficacy : 82 lm/W  
Classification : A70 100.0% ↑0.0%  
CIE Flux Codes : 87 97 100 100 78  
UGR 4H 8H : 21.3 / 21.3  
Power : 28 W  
Luminous flux : 2295.9 lm

#### **Equipped with**

Quantity : 12  
Designation :  
  
Colour : 4000K  
Luminous flux : 245.9 lm  
Colour reproduction : 80

Dimensions : Ø154 mm x 176 mm



## 1 Luminaire data

### 1.2 WE-EF;Eulumdat2, DLS229 IP55:LED-FT-12W/4K;DLS22... (195-9528)

#### 1.2.1 Data sheet

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**Manufacturer:** WE-EF;Eulumdat2

**195-9528      DLS229 IP55:LED-FT-12W/4K;DLS229 LED-FT, Wall Luminaires / Surface Mounted**

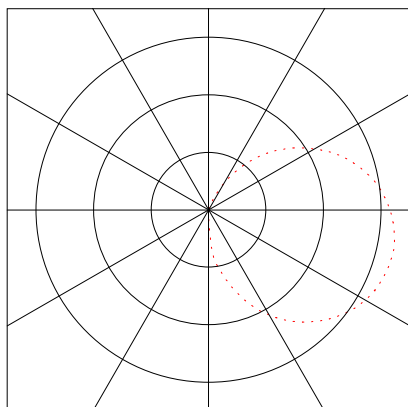
#### **Luminaire data**

Luminaire efficiency : 35.7%  
Luminaire efficacy : 48.79 lm/W  
Classification : B11 61.8% ↑38.2%  
CIE Flux Codes : 18 44 72 62 36  
Glare : n/a / D3  
Power : 15 W  
Luminous flux : 731.9 lm

Dimensions : Ø262 mm x 85 mm

#### **Equipped with**

Quantity : 1  
Designation : LED-FT-12W -  
4000K  
Colour : 4000K  
Luminous flux : 2050 lm  
Colour reproduction : 80



## 1 Luminaire data

### 1.3 WE-EF;Eulumdat2, SLS420 [M] IP66:LED-6/12W/4K;SL... (131-9537)

#### 1.3.1 Data sheet

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**Manufacturer:** WE-EF;Eulumdat2

**131-9537      SLS420 [M] IP66:LED-6/12W/4K;SLS420 LED, Wall Luminaires / Surface Mounted**

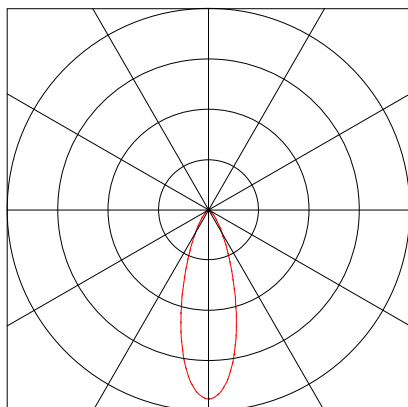
#### **Luminaire data**

Luminaire efficiency : 67.4%  
Luminaire efficacy : 66.32 lm/W  
Classification : A70 100.0% ↑0.0%  
CIE Flux Codes : 91 99 100 100 67  
UGR 4H 8H : 14.2 / 14.2  
Power : 15 W  
Luminous flux : 994.8 lm

#### **Equipped with**

Quantity : 6  
Designation :  
  
Colour : 4000K  
Luminous flux : 246 lm  
Colour reproduction : 80

Dimensions : 220 mm x 150 mm x 260 mm



## 1 Luminaire data

### 1.4 WE-EF;Eulumdat2, SLS420 [E] IP66:LED-6/12W/4K;SL... (131-9538)

#### 1.4.1 Data sheet

Manufacturer: WE-EF;Eulumdat2

**131-9538 SLS420 [E] IP66:LED-6/12W/4K;SLS420 LED, Wall Luminaires / Surface Mounted**

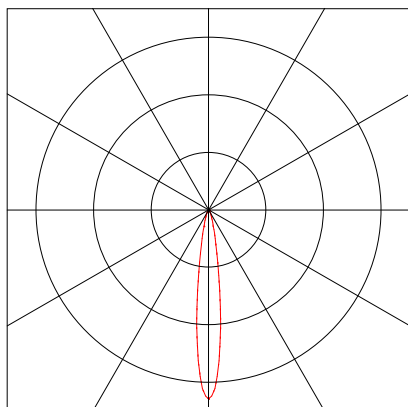
#### Luminaire data

Luminaire efficiency : 75.5%  
Luminaire efficacy : 74.29 lm/W  
Classification : A80 100.0% ↑0.0%  
CIE Flux Codes : 96 99 100 100 75  
UGR 4H 8H : <10.0 / <10.0  
Power : 15 W  
Luminous flux : 1114.4 lm

#### Equipped with

Quantity : 6  
Designation :  
  
Colour : 3000K  
Luminous flux : 246 lm  
Colour reproduction : 80

Dimensions : 220 mm x 150 mm x 260 mm



## 1 Luminaire data

### 1.5 WE-EF;Eulumdat2, UDN330-TC/E-35/H[P/O];UDN330, W... (112-0010)

#### 1.5.1 Data sheet

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**Manufacturer:** WE-EF;Eulumdat2

#### 112-0010 UDN330-TC/E-35/H[P/O];UDN330, Wall Luminaires / Surface Mounted

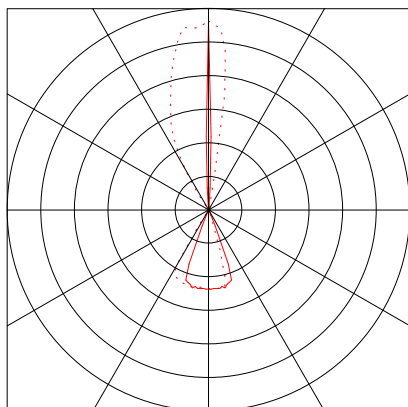
##### Luminaire data

Luminaire efficiency : 7.1%  
Luminaire efficacy : 5.78 lm/W  
Classification : B84 88.8% ↑11.2%  
CIE Flux Codes : 95 99 100 89 7  
Glare : n/a / D6  
Power : 43 W  
Luminous flux : 248.5 lm

##### Equipped with

Quantity : 1  
Designation : HIT-TC-CE  
35W/830 G8,5  
Colour : 3000K  
Luminous flux : 3500 lm  
Colour reproduction : 85

Dimensions : 210 mm x 204 mm x 270 mm



## 1 Luminaire data

### 1.6 WE-EF;Eulumdat2, UDN330-TC/E-35/H[P/P];UDN330, W... (112-0006)

#### 1.6.1 Data sheet

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**Manufacturer:** WE-EF;Eulumdat2

**112-0006 UDN330-TC/E-35/H[P/P];UDN330, Wall Luminaires / Surface Mounted**

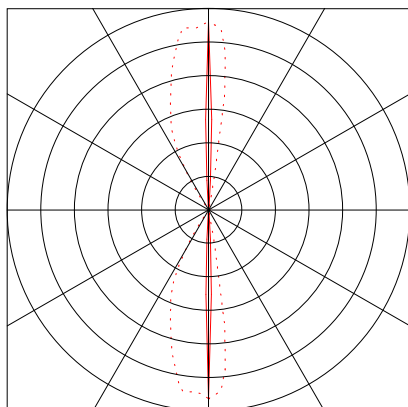
#### Luminaire data

Luminaire efficiency : 1.9%  
Luminaire efficacy : 1.55 lm/W  
Classification : C84 50.0% ↑ 50.0%  
CIE Flux Codes : 94 98 99 50 2  
Glare : n/a / D6  
Power : 43 W  
Luminous flux : 66.5 lm

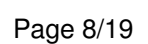
#### Equipped with

Quantity : 1  
Designation : HIT-TC-CE  
35W/830 G8,5  
Colour : 3000K  
Luminous flux : 3500 lm  
Colour reproduction : 85

Dimensions : 210 mm x 204 mm x 270 mm



### 2.1.1 Floor plan





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


### 2.2.1 Result overview, Evaluation area 1

Order No. : SR 067 40 02 01 2 G N DD  
Luminaire name : Stork 67W DWC  
Equipment : 1 x Stork 2 modules 66.7 W / 6928.3 lm

## 2 Exterior 1(Copy of2)

### 2.2 Summary, Exterior 1(Copy of2)

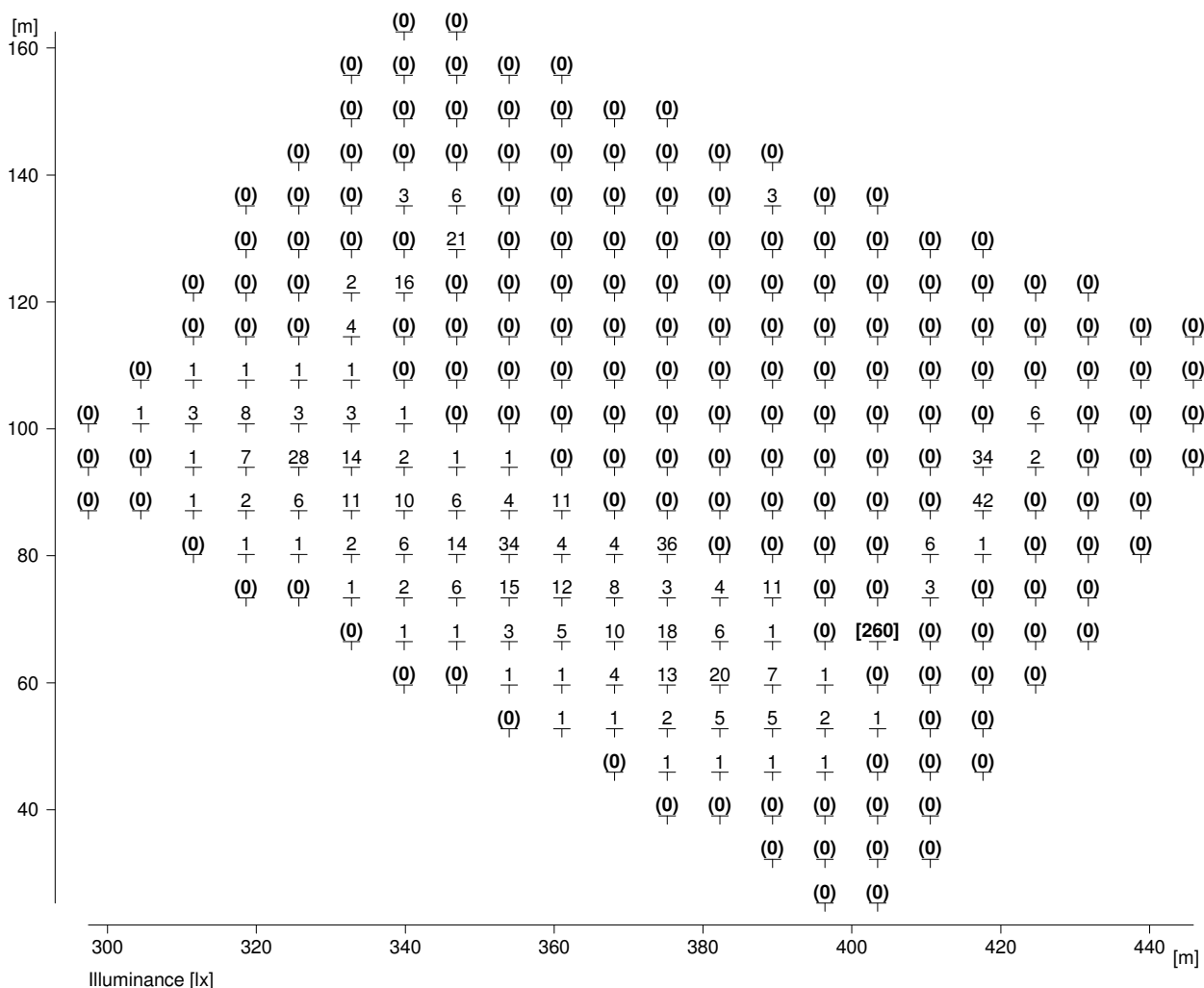
#### 2.2.1 Result overview, Evaluation area 1

		<b>WE-EF;Eulumdat2</b>	
14	7	Order No.	: !134-1428
		Luminaire name	: DAC220 [B] IP65:LED-12/24W/4K;DAC220 LED, Ceiling Luminaires
		Equipment	: 12 x LED-12/24W/840 - 4000K / 245.917 lm 4000K
16	5	Order No.	: 195-9528
		Luminaire name	: DLS229 IP55:LED-FT-12W/4K;DLS229 LED-FT, Wall Luminaires / Surface Mounted
		Equipment	: 1 x LED-FT-12W - 4000K 15 W / 2050 lm 4000K
21	4	Order No.	: 131-9550
		Luminaire name	: SLS420 [E/M] IP66:2xLED-6/12W/4K;SLS420 LED, Wall Luminaires / Surface Mounted
		Equipment	: 12 x LED 2x6/12W/840 - 4000K / 123 lm 4000K
22	3	Order No.	: 131-9537
		Luminaire name	: SLS420 [M] IP66:LED-6/12W/4K;SLS420 LED, Wall Luminaires / Surface Mounted
		Equipment	: 6 x LED-6/12W/840 - 4000K / 246 lm 4000K
23	3	Order No.	: 131-9538
		Luminaire name	: SLS420 [E] IP66:LED-6/12W/4K;SLS420 LED, Wall Luminaires / Surface Mounted
		Equipment	: 6 x LED-6/12W/840 - 4000K / 246 lm 3000K
		<b>TRILUX</b>	
25	2	Order No.	: 6959840
		Luminaire name	: Combial 20-RB8R/3500-740 1G1W
		Equipment	: 1 x 32 W / 3500 lm

## 2 Exterior 1(Copy of2)

### 2.3 Calculation results, Exterior 1(Copy of2)

#### 2.3.1 Table, Floor (E)



Average illuminance  
 Minimum illuminance  
 Maximum illuminance  
 Uniformity  $U_0$   
 Diversity  $U_d$

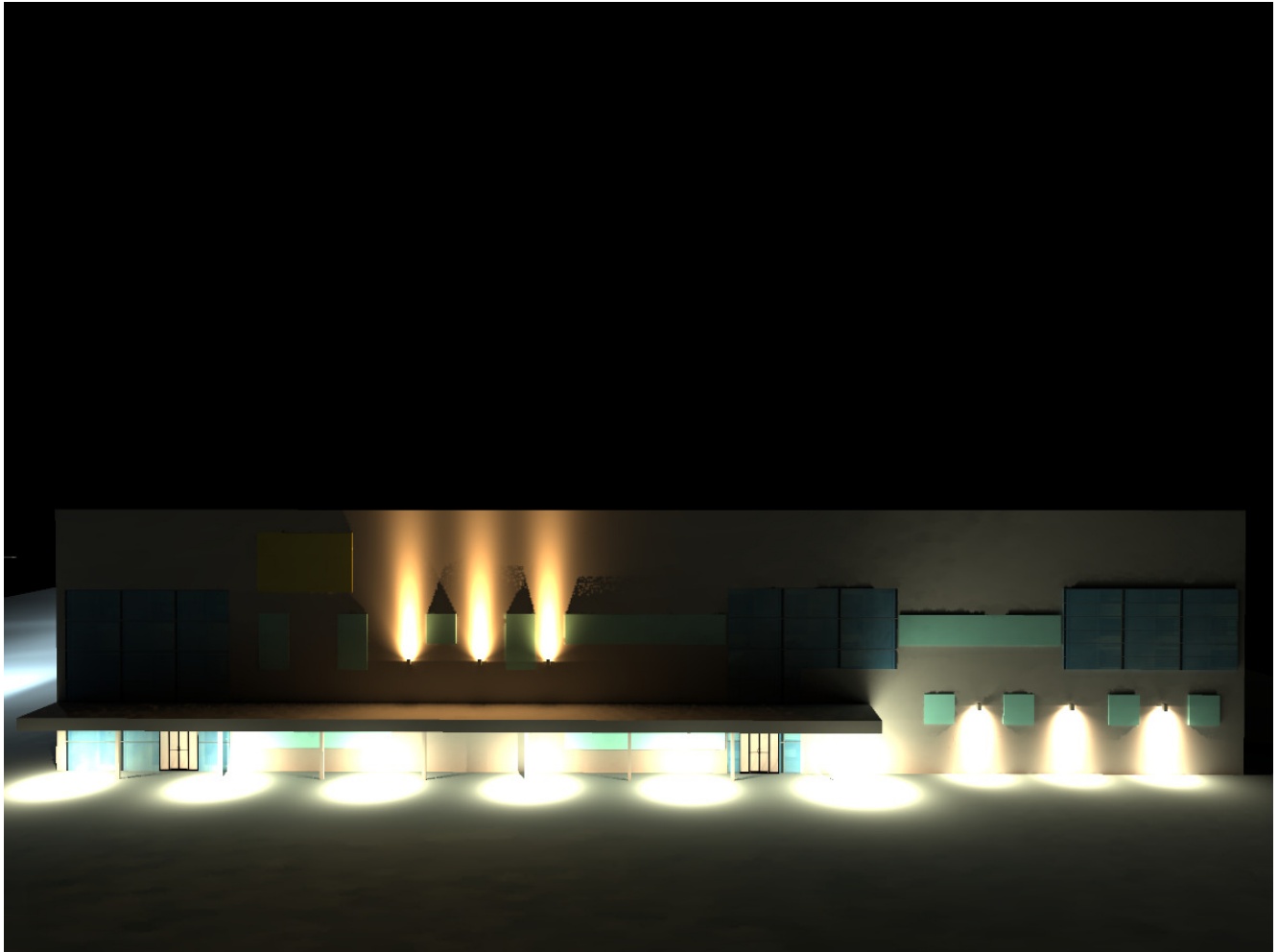
Eav : 3 lx  
 Emin : 0 lx  
 Emax : 260 lx  
 Emin/Eav : ---  
 Emin/Emax : ---

## 2 Exterior 1(Copy of2)

### 2.4 Calculation results, Exterior 1(Copy of2)

#### 2.4.1 3D luminance (raytracing), Variable view

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Luminance in the illustration:

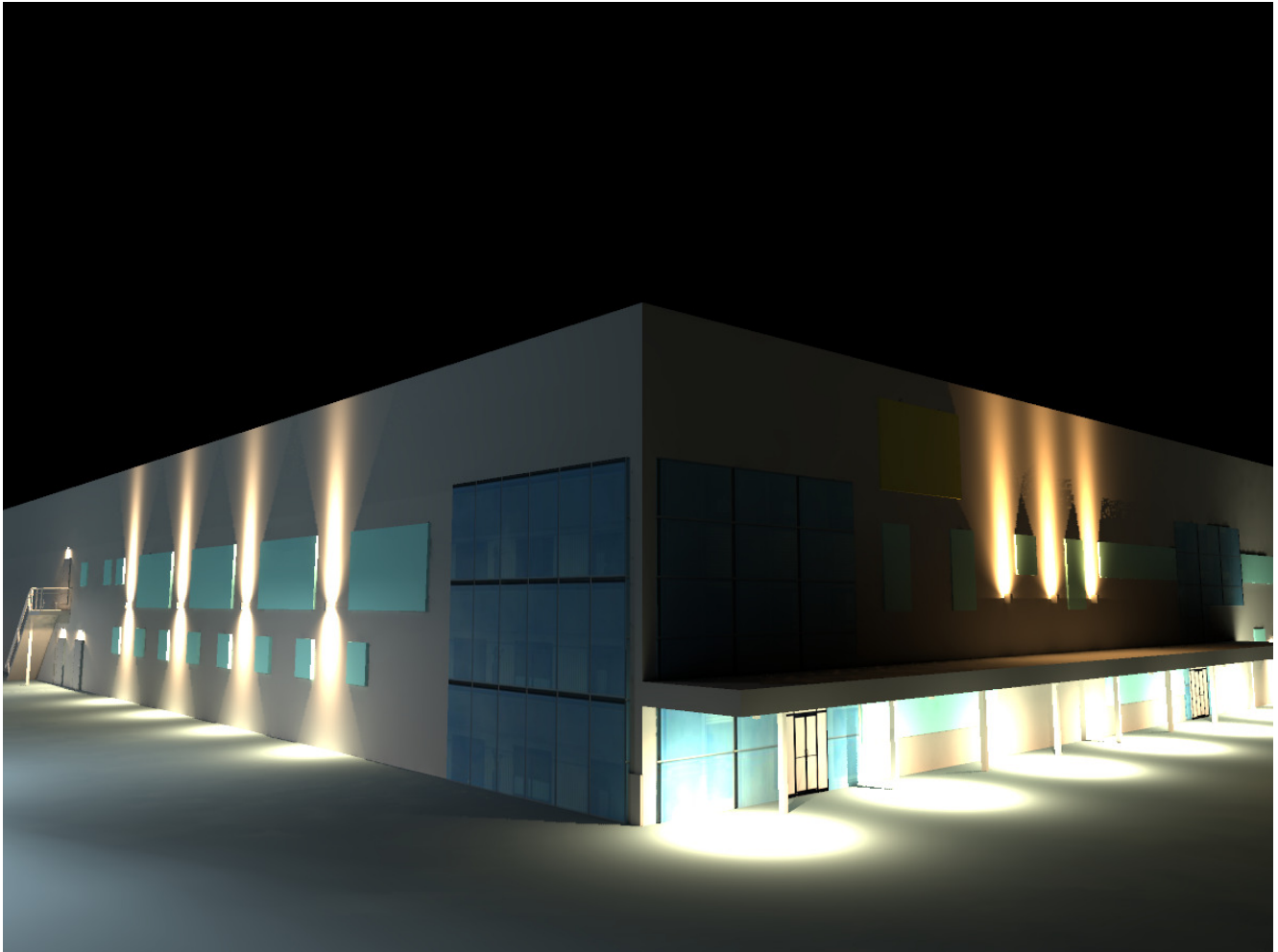
Minimum: : 0 cd/m<sup>2</sup>  
Maximum: : 173 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.2 3D luminance (raytracing), Variable view

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Luminance in the illustration:

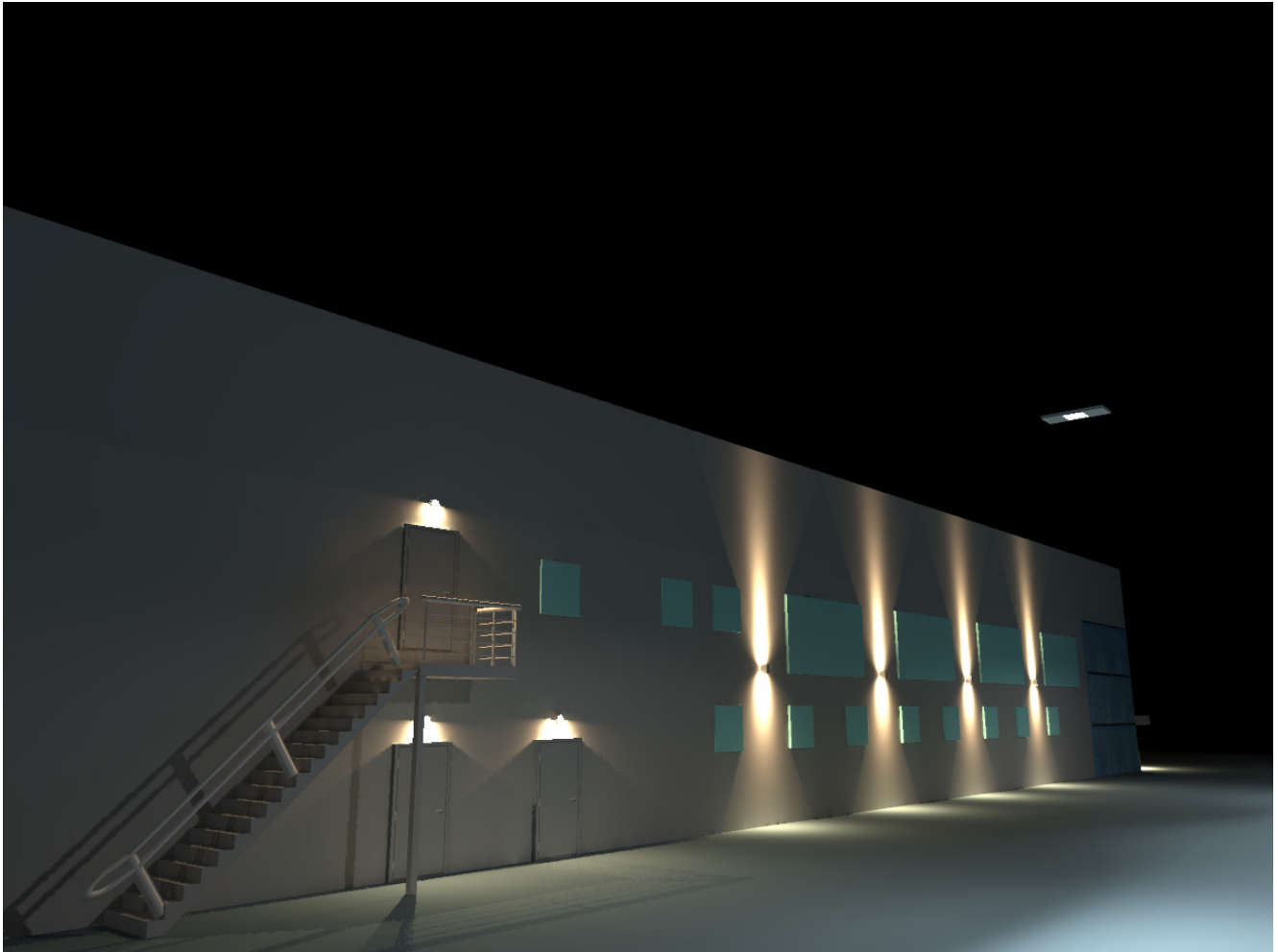
Minimum: : 0 cd/m<sup>2</sup>  
Maximum: : 301 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.3 3D luminance (raytracing), Variable view

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Luminance in the illustration:

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

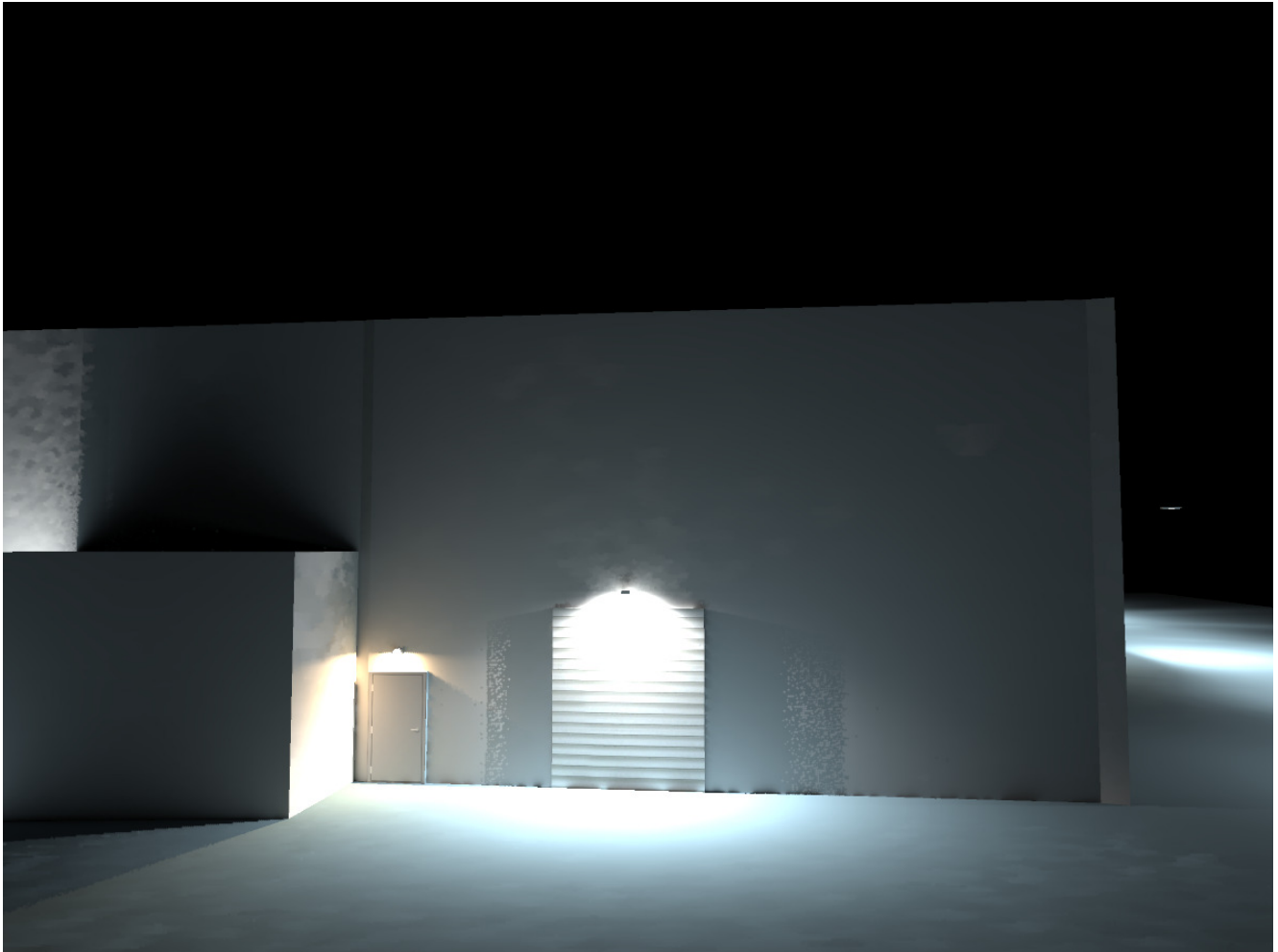
Maximum: : 9450 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.4 3D luminance (raytracing), Variable view

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Luminance in the illustration:

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

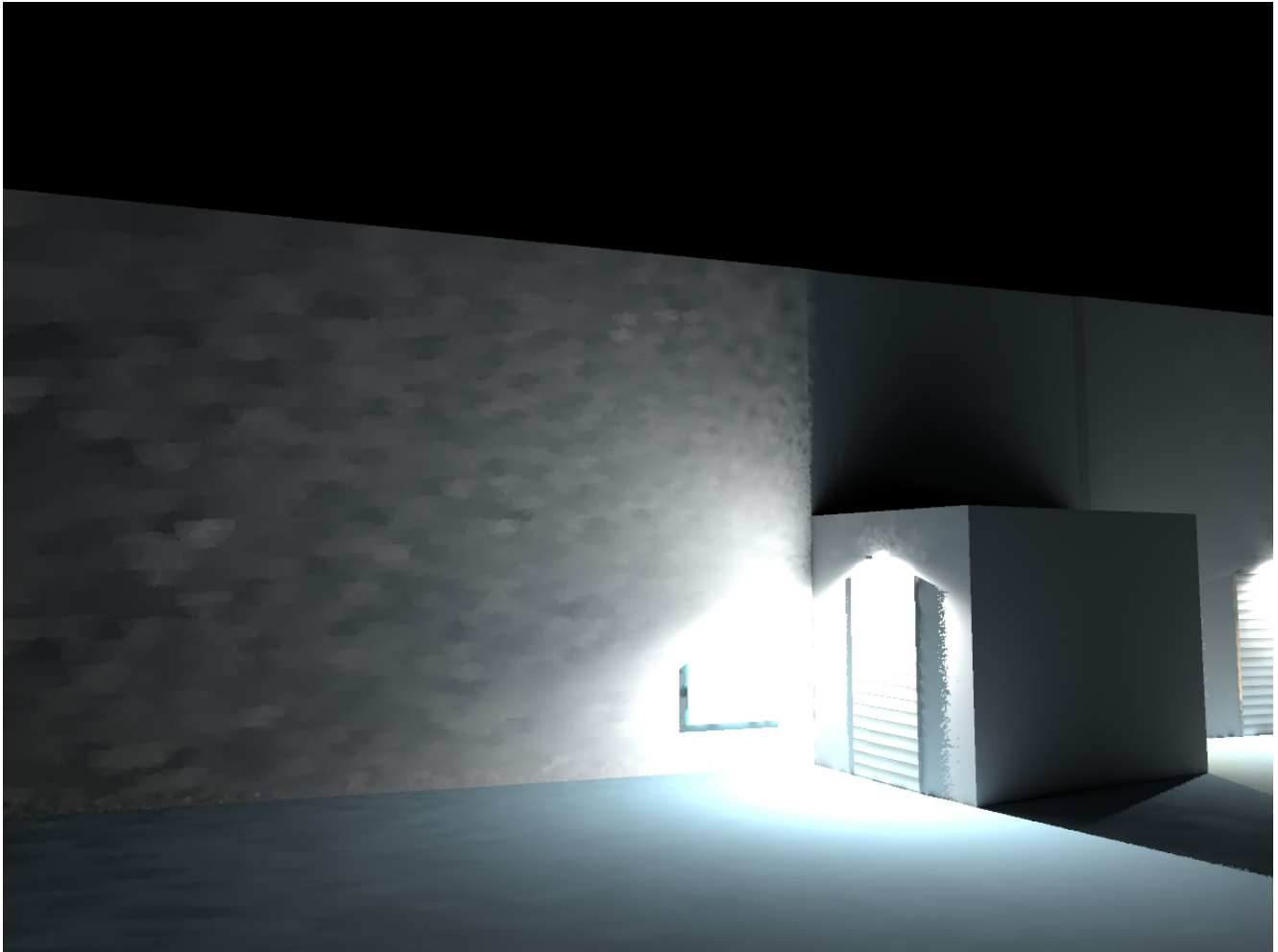
Maximum: : 1740 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.5 3D luminance (raytracing), Variable view

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Luminance in the illustration:

Minimum: : 0 cd/m<sup>2</sup>  
Maximum: : 1240 cd/m<sup>2</sup>

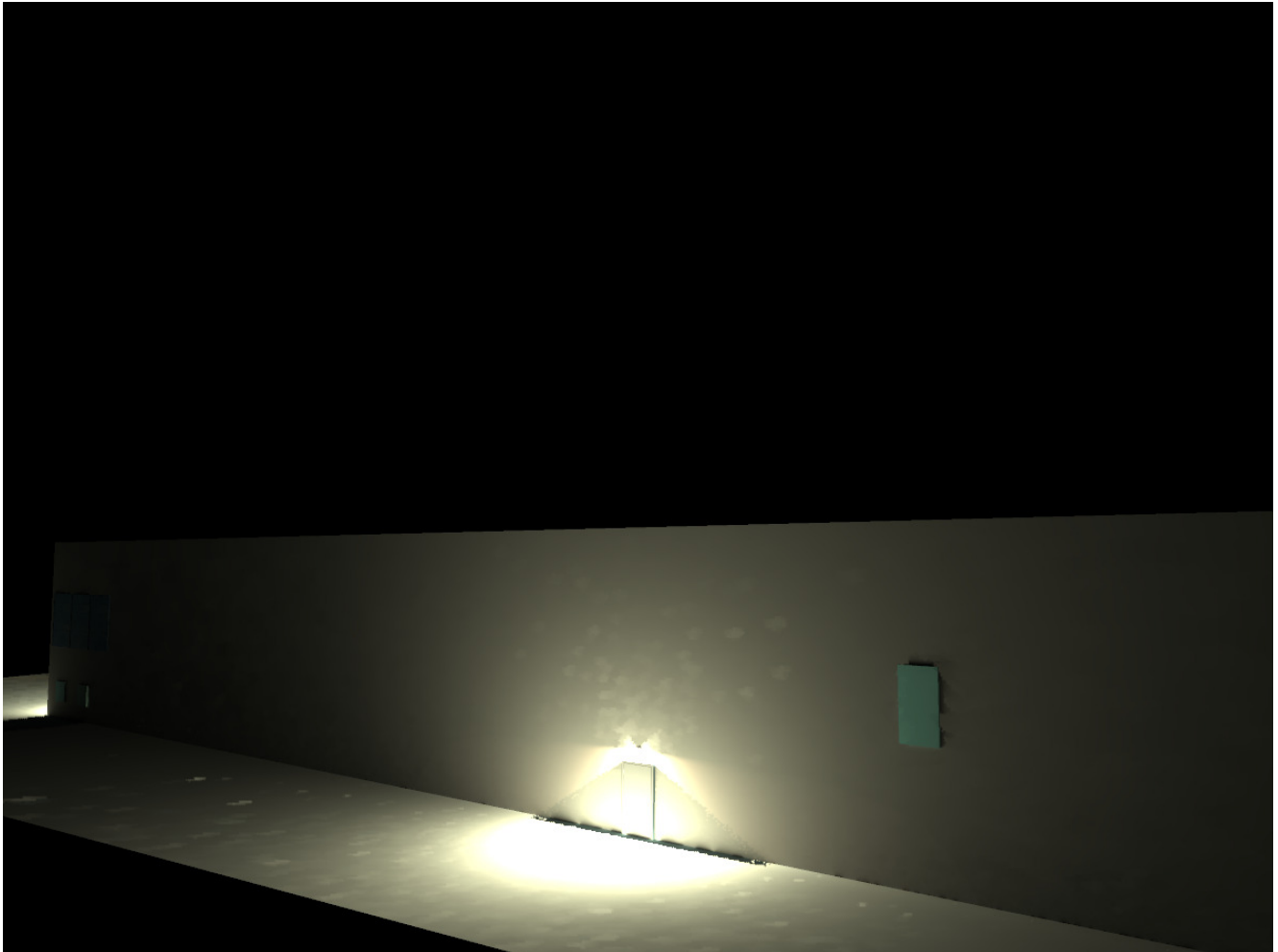
Artificial light calculation : Direct part, with 2 inter-reflections



## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.6 3D luminance (raytracing), Variable view

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Luminance in the illustration:

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

Maximum: : 353 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.7 3D luminance (raytracing), Variable view

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Luminance in the illustration:

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

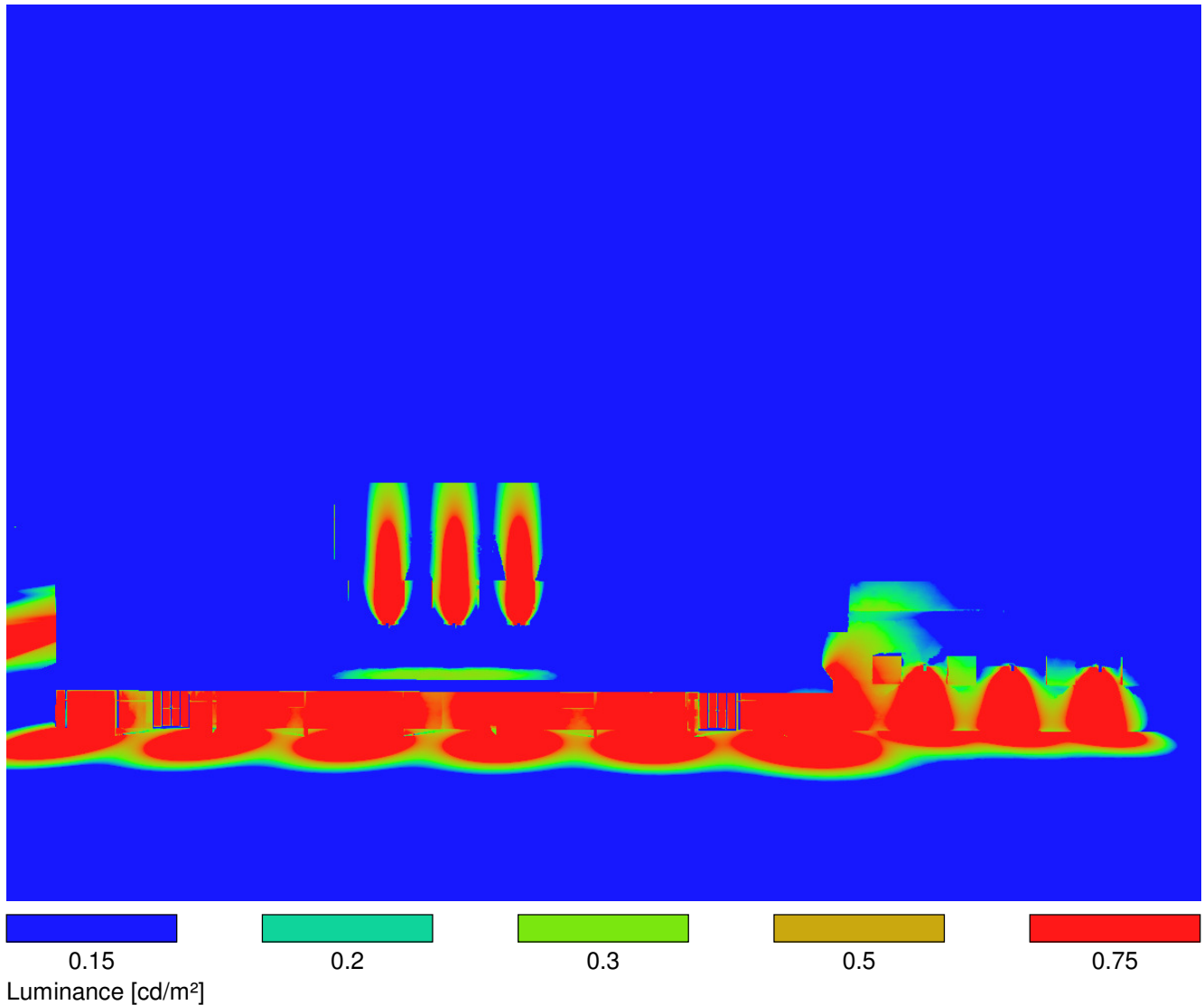
Maximum: : 148 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections

## 2.4 Calculation results, Exterior 1(Copy of2)

### 2.4.8 3D pseudo colours (raytracing), Variable view (E)

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Luminance in the illustration:

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

Maximum: : 173 cd/m<sup>2</sup>

Artificial light calculation : Direct part, with 2 inter-reflections