

## Parkplatz .03 (parking area)

Installation : Sistar System + Sistella + SQ 100

Project number : Musteranlage (standard exemple)

Customer :

Processed by : Siteco

Date : 01.2007

Project description:

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 Mirrortec, Sistar-Spiegel 1200 x 1200mm (!5NW726 40QB\_Z)

#### 1.1.1 Data sheet

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Manufacturer: Mirrortec

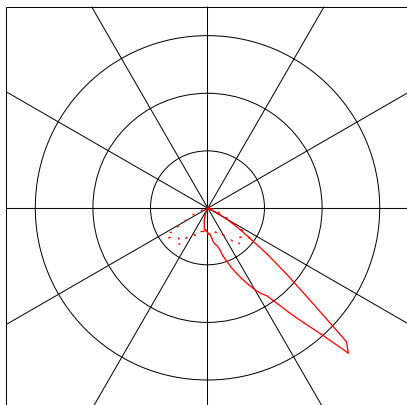
**!5NW726 40QB\_Z**      **Sistar-Spiegel 1200 x 1200mm**

#### Luminaire data

Luminaires efficiency : 99% (A20)  
Control gear :  
Length : 1262 mm  
Width : 1275 mm  
Height : 107 mm

#### Equipped with

Number of : 1  
Designation :  
Power : W  
Colour :  
Luminous flux : 18000 lm



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## 1 Luminaire data

### 1.2 Siteco, SiCOMPACT R2 MAXI (!5NA 726 0-1VS11C)

#### 1.2.1 Data sheet

Manufacturer: Siteco

#### **!5NA 726 0-1VS11C    Rotationssymmetrischer Scheinwerfer    SiCOMPACT R2 MAXI**

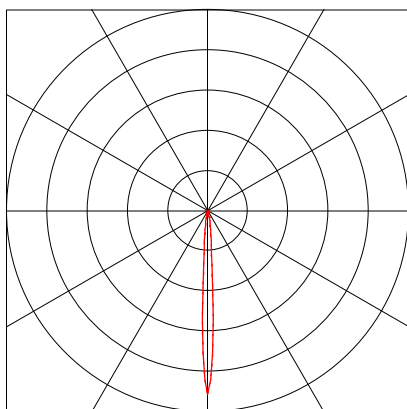
Leuchtgehäuse aus Aluminiumdruckguss, grau lackiert (RAL 7036)  
mit Zündgerät für Normalzündung, ohne Vorschaltgerät, Betrieb nur mit geeignetem Vorschaltgerät (separat zu bestellen)  
chemisch gehärtetes Abdeckglas mit Schutzgitter  
eng bündelnd  
Schutzart: IP 65  
Montageart: Flutlicht

#### **Luminaire data**

Luminaires efficiency : 86.6% (A60)  
Control gear : VG  
System power : 1065 W  
Diameter : 491 mm  
Height : 363 mm

#### **Equipped with**

Number of : 1  
Designation : HIT-DE  
Power : 1000 W  
Colour :  
Luminous flux : 0 lm



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## 1 Luminaire data

### 1.3 Siteco, SiSTELLAR MAXI (5NA 630 2-6F)

#### 1.3.1 Data sheet

Manufacturer: Siteco

#### 5NA 630 2-6F Straßenleuchte SiSTELLAR MAXI

Leuchtgehäuse aus Aluminiumblech mit Tropfrand, graualuminium lackiert (RAL 9007)

kompensiert

SiVARIABLE-Systemeinheit

Einscheiben-Sicherheitsglas

rotationssymmetrische Ausstrahlung

Schutzart:IP 44

Montageart:Mastaufsatzleuchte

Einstellung 1

#### Luminaire data

Luminaire efficiency : 57.3% (A20)

Control gear : VG

System power : 2550 W

Diameter : 1500 mm

Height : 395 mm

#### Equipped with

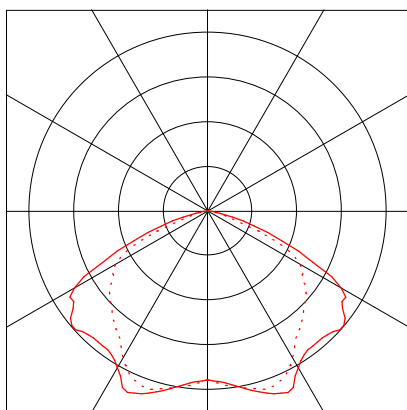
Number of : 6

Designation : HME

Power : 400 W

Colour :

Luminous flux : 22000 lm



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## 1 Luminaire data

### 1.4 Siteco, SQ 100 (5NA 558 1-1PT1B200)

#### 1.4.1 Data sheet

Manufacturer: Siteco

#### **5NA 558 1-1PT1B200 Straßenleuchte SQ 100**

Dach und Rahmen aus Aluminiumdruckguss  
Alu sandgestrahlt, mit Reduzierschaltung "ECO"  
Radialfacettenoptik  
Planglas  
Schutzart:IP 66  
Montageart:Mastansatzleuchte, Mastaufsatzleuchte

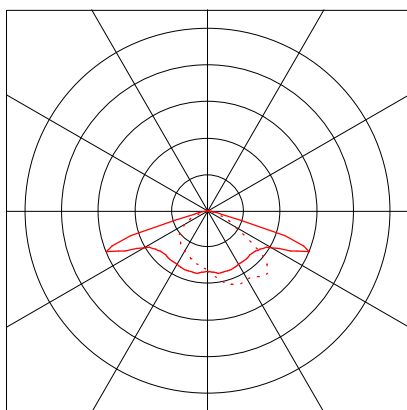
Serieneinstellung, LP 2, RP 5

#### **Luminaire data**

Luminaires efficiency : 78.4% (A20)  
Control gear : KVG  
System power : 176 W  
Length : 688 mm  
Width : 465 mm  
Height : 191 mm

#### **Equipped with**

Number of : 1  
Designation : HST  
Power : 150 W  
Colour :  
Luminous flux : 17500 lm



Object : Parkplatz .03 (parking area)  
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## 1 Luminaire data

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

#### 1.5.1 Data sheet

Manufacturer: Siteco

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

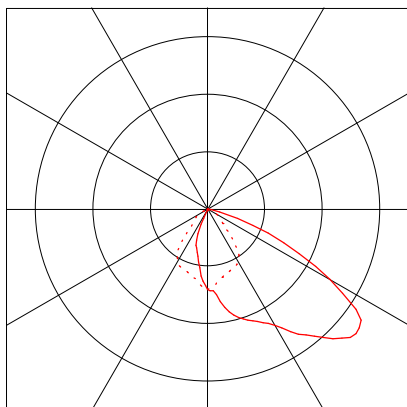
Gehäuse aus Aluminiumdruckguss, lackiert in Reinweiß  
mit eingebautem Zündgerät für sofortige Heißwiederzündung, Vorschaltgeräteeinheit in separatem Gehäuse  
Alu-Reflektor, hochglänzend  
Abdeckscheibe, Sicherheitsglas  
asymmetrisch, streuend  
Schutzart: IP 66  
Montageart: Flutlicht

#### **Luminaire data**

Luminaires efficiency : 76.4% (A20)  
Control gear : KVG  
System power : 170 W  
Length : 250 mm  
Width : 355 mm  
Height : 95 mm

#### **Equipped with**

Number of : 1  
Designation : HIT-DE  
Power : 150 W  
Colour :  
Luminous flux : 11000 lm

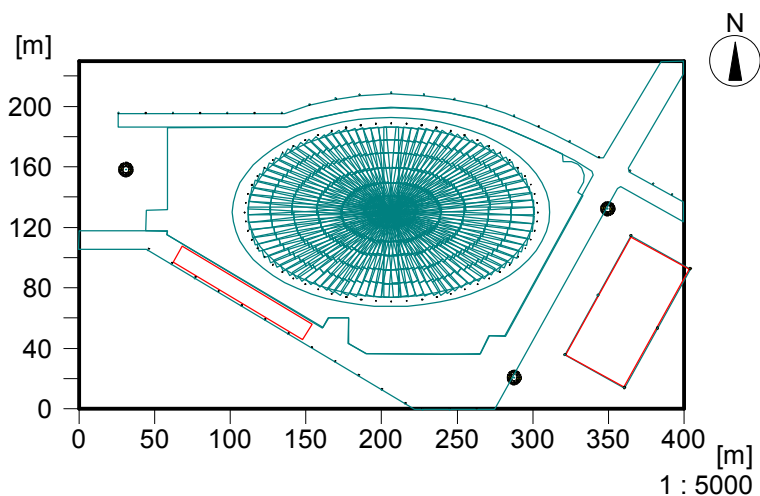


Object : Parkplatz .03 (parking area)  
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## 2 Aussenanlage

### 2.1 Description, Aussenanlage

#### 2.1.1 Floor plan

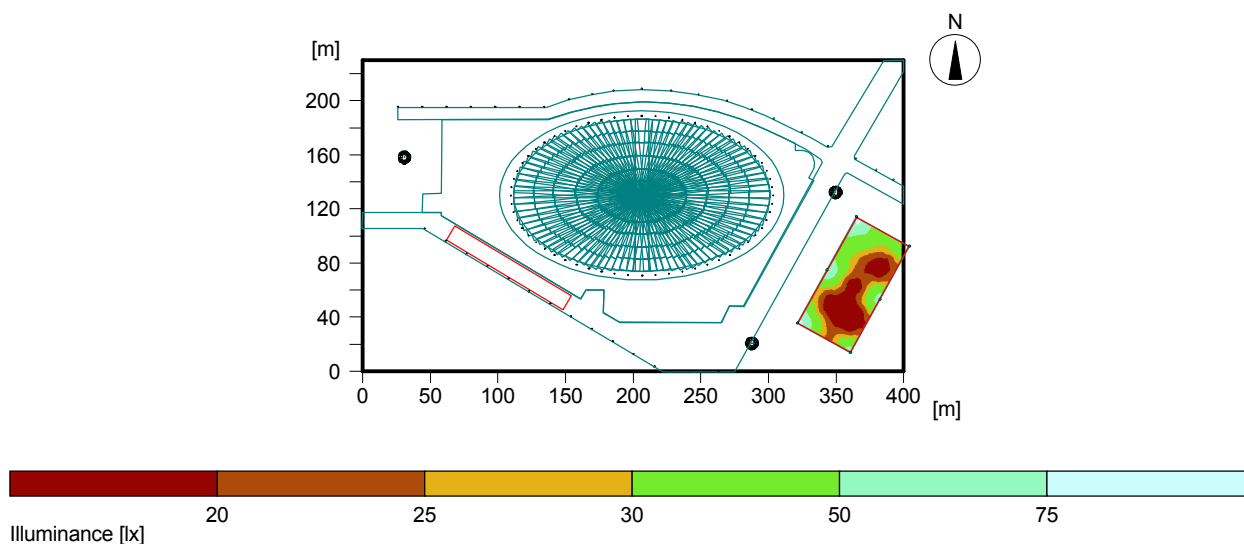


Object : Parkplatz .03 (parking area)  
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## 2 Aussenanlage

### 2.2 Summary, Aussenanlage

#### 2.2.1 Result overview, Measuring area (virtual) 5.1



#### General

Calculation algorithm used	low indirect fraction
Reduction factor	0.60
Total luminous flux of all lamps	3378000 lm
Total power	108516 W
Total power per area (92000.00 m <sup>2</sup> )	1.18 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Eav	30.2 lx
Minimum illuminance	Emin	12.9 lx
Maximum illuminance	Emax	78.1 lx
Uniformity g1	Emin/Em	1:2.34 (0.43)
Uniformity g2	Emin/Emax	1:6.05 (0.17)

#### Type No.\Make

1	72	<b>Mirrortec</b>	Order No. : !5NW726 40QB_Z Luminaire name : Sistar-Spiegel 1200 x 1200mm Equipment : 1 x W / 18000 lm
2	72	<b>Siteco</b>	Order No. : !5NA 726 0-1VS11C Luminaire name : SiCOMPACT R2 MAXI Equipment : 1 x HIT-DE 1000 W / 0 lm
3	6		Order No. : 5NA 630 2-6F/ Luminaire name : SiSTELLAR MAXI Equipment : 6 x HME 400 W / 22000 lm

Object : Parkplatz .03 (parking area)  
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## 2 Aussenanlage

### 2.2 Summary, Aussenanlage

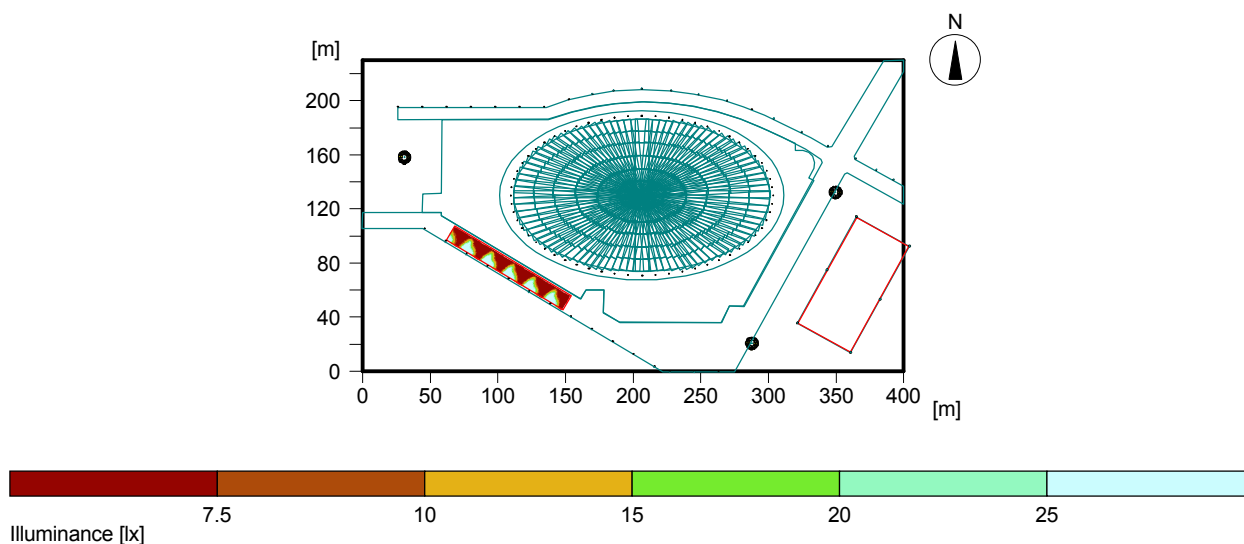
#### 2.2.1 Result overview, Measuring area (virtual) 5.1

4	36	Order No.	: 5NA 558 1-1PT1B200/
		Luminaire name	: SQ 100
		Equipment	: 1 x HST 150 W / 17500 lm
5	60	Order No.	: 5NA 757 6-1PS0205
		Luminaire name	: SiCOMPACT A2 MINI
		Equipment	: 1 x HIT-DE 150 W / 11000 lm

Object : Parkplatz .03 (parking area)  
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## 2.2 Summary, Aussenanlage

### 2.2.2 Result overview, Measuring area (virtual) 5.2



#### General

Calculation algorithm used : low indirect fraction  
 Height of evaluation surface : 0.75 m  
 Reduction factor : 0.60

Total luminous flux of all lamps : 3378000 lm  
 Total power : 108516 W  
 Total power per area (92000.00 m<sup>2</sup>) : 1.18 W/m<sup>2</sup>

#### Illuminance

Average illuminance : Eav : 15 lx  
 Minimum illuminance : Emin : 1 lx  
 Maximum illuminance : Emax : 105 lx  
 Uniformity g1 : Emin/Em : 1:17.6 (0.06)  
 Uniformity g2 : Emin/Emax : 1:123 (0.01)

#### Type No.\Make

- |   |    |                  |                                |
|---|----|------------------|--------------------------------|
|   |    | <b>Mirrortec</b> |                                |
| 1 | 72 | Order No.        | : !5NW726 40QB_Z               |
|   |    | Luminaire name   | : Sistar-Spiegel 1200 x 1200mm |
|   |    | Equipment        | : 1 x W / 18000 lm             |
|   |    | <b>Siteco</b>    |                                |
| 2 | 72 | Order No.        | : !5NA 726 0-1VS11C            |
|   |    | Luminaire name   | : SiCOMPACT R2 MAXI            |
|   |    | Equipment        | : 1 x HIT-DE 1000 W / 0 lm     |
| 3 | 6  | Order No.        | : 5NA 630 2-6F/                |
|   |    | Luminaire name   | : SiSTELLAR MAXI               |
|   |    | Equipment        | : 6 x HME 400 W / 22000 lm     |

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## 2.2 Summary, Aussenanlage

### 2.2.2 Result overview, Measuring area (virtual) 5.2

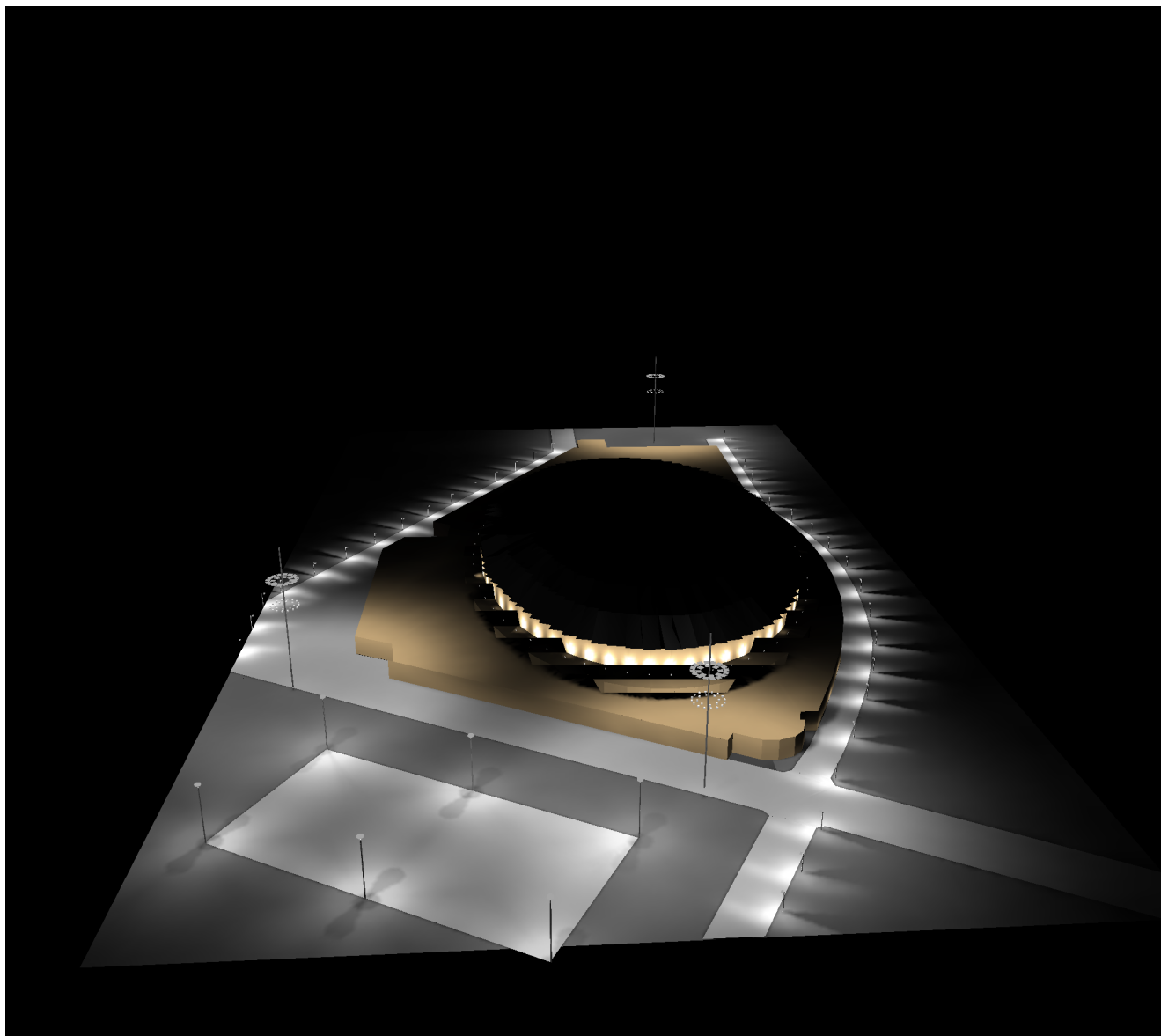
4	36	Order No.	: 5NA 558 1-1PT1B200/
		Luminaire name	: SQ 100
		Equipment	: 1 x HST 150 W / 17500 lm
5	60	Order No.	: 5NA 757 6-1PS0205
		Luminaire name	: SiCOMPACT A2 MINI
		Equipment	: 1 x HIT-DE 150 W / 11000 lm

Object : Parkplatz .03 (parking area)  
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## 2 Aussenanlage

### 2.3 Calculation results, Aussenanlage

#### 2.3.1 3D luminance, View 1



Luminance in the scene

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

Maximum: : 7060 cd/m<sup>2</sup>

Object : Parkplatz .03 (parking area)  
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## 2.3 Calculation results, Aussenanlage

### 2.3.2 3D luminance, View from the front



Luminance in the scene

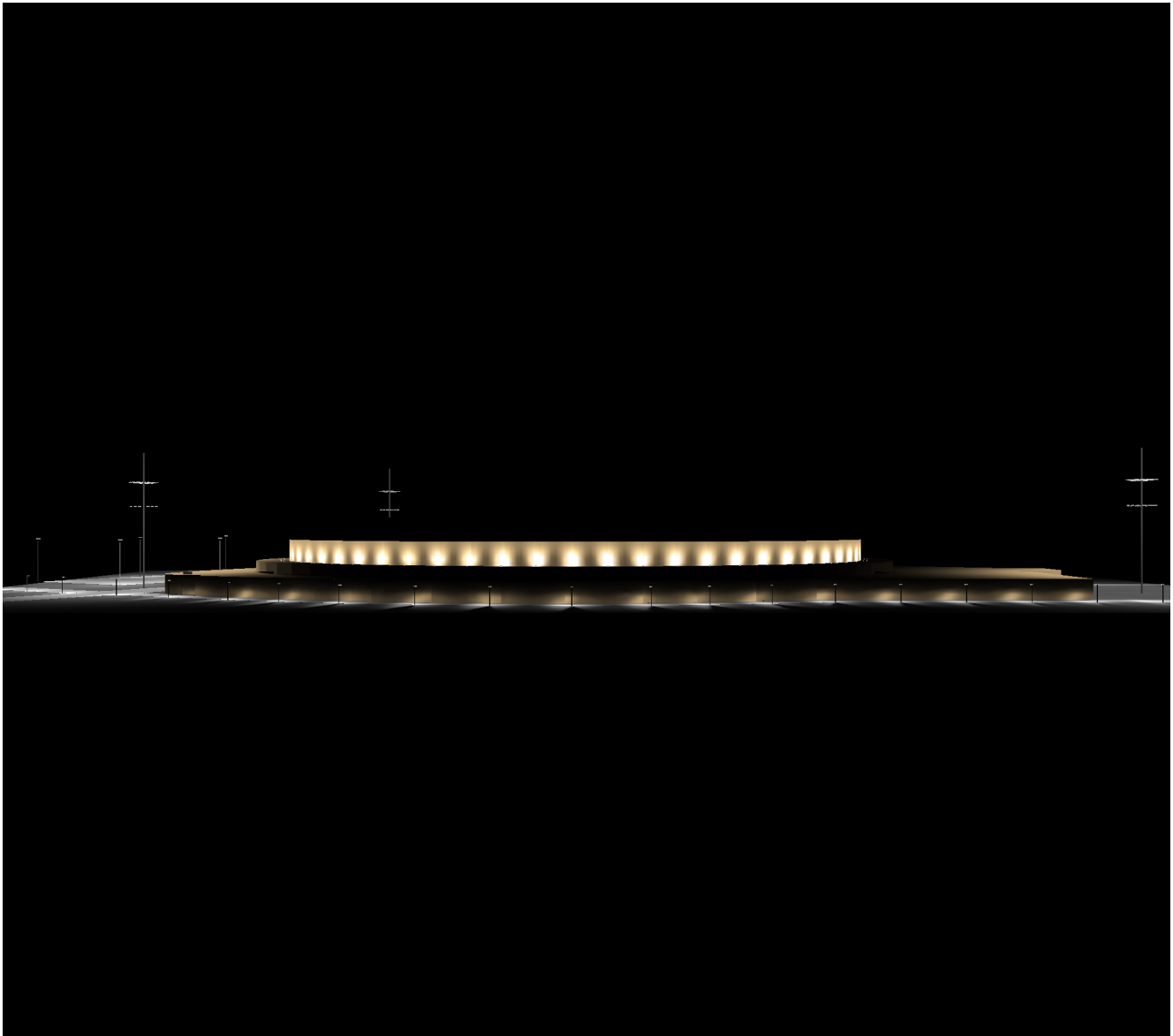
Minimum: : 0 cd/m<sup>2</sup>

Maximum: : 7060 cd/m<sup>2</sup>

Object : Parkplatz .03 (parking area)  
Installation : Sistar System + Sistella + SQ 100  
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## 2.3 Calculation results, Aussenanlage

### 2.3.3 3D luminance, View from the back



Luminance in the scene

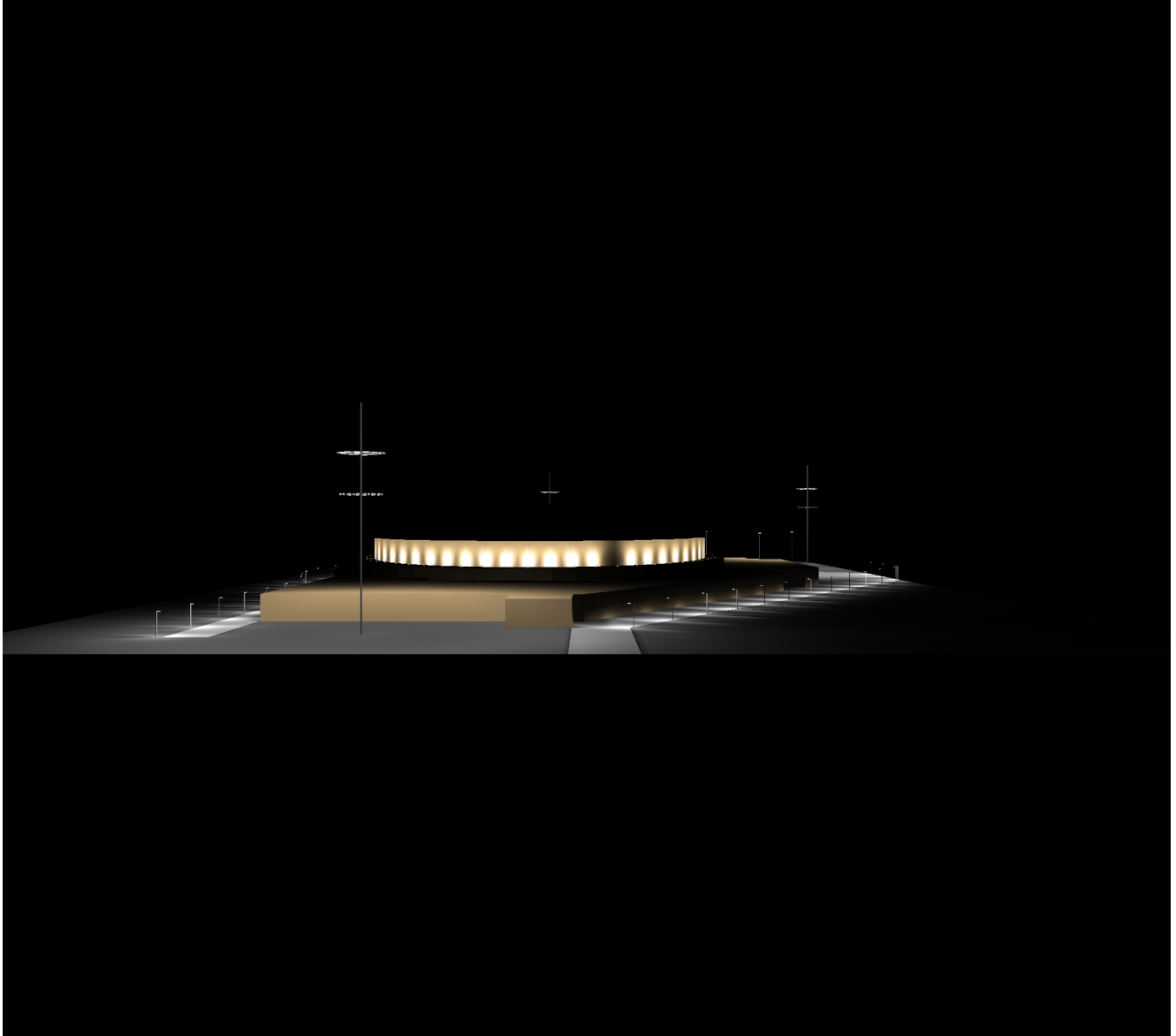
Minimum: : 0 cd/m<sup>2</sup>

Maximum: : 7060 cd/m<sup>2</sup>

Object : Parkplatz .03 (parking area)  
Installation : Sistar System + Sistella + SQ 100  
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## 2.3 Calculation results, Aussenanlage

### 2.3.4 3D luminance, View from the left



Luminance in the scene

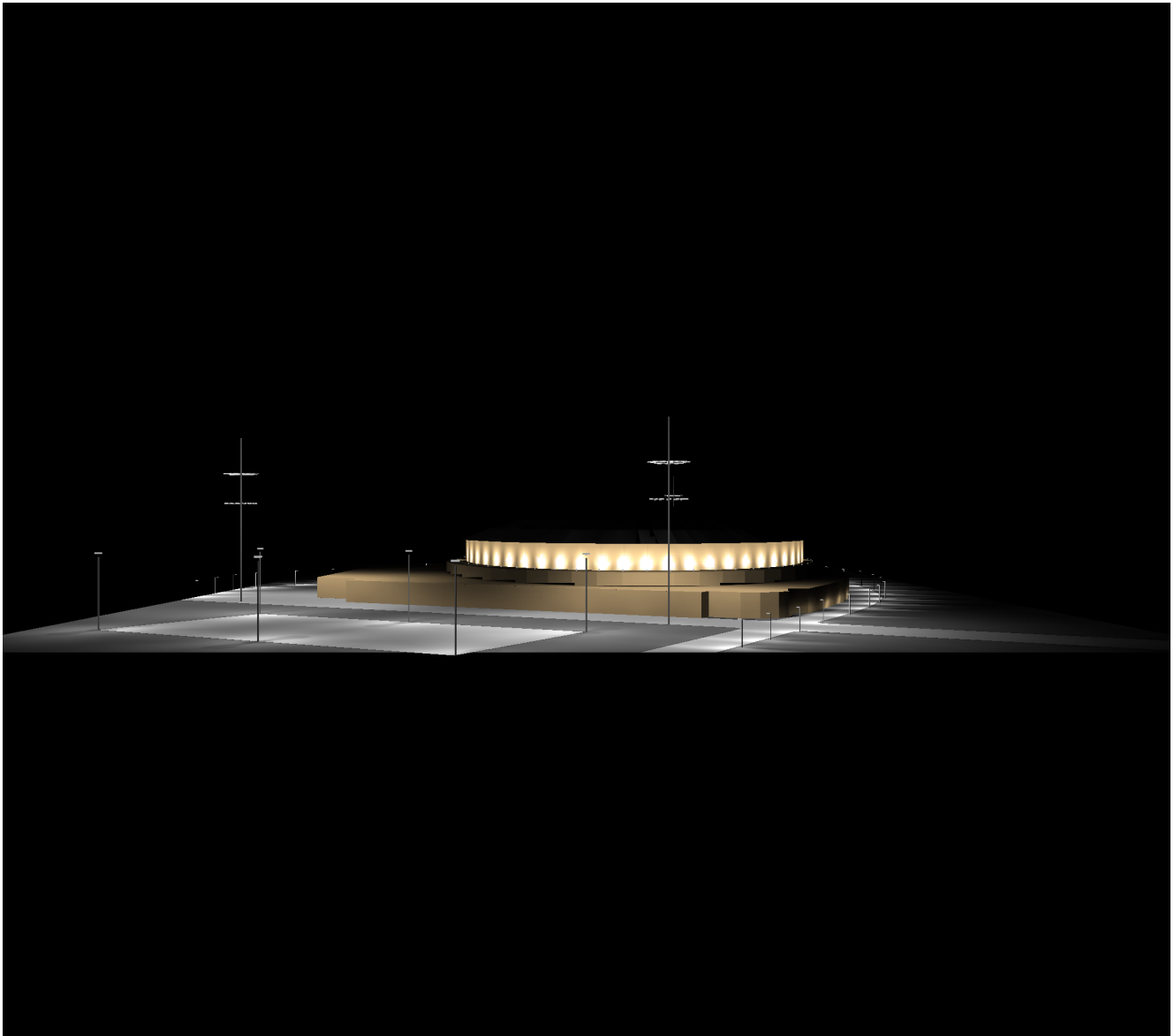
Minimum: : 0 cd/m<sup>2</sup>

Maximum: : 7060 cd/m<sup>2</sup>

Object : Parkplatz .03 (parking area)  
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## 2.3 Calculation results, Aussenanlage

### 2.3.5 3D luminance, View from the right



Luminance in the scene

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

Maximum: : 7060 cd/m<sup>2</sup>

Object : Parkplatz .03 (parking area)  
Installation : Sistar System + Sistella + SQ 100  
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## 2.3 Calculation results, Aussenanlage

### 2.3.6 3D pseudo colours, View 1 (L)

