

## VATP-7

Installation : Apgaismojums

Project number : 1

Customer : Ventspils Brīvosta

Processed by : Auseklis Mūzis

Date : 18.01.2018

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 TRILUX, E-Line G2 MT LED10000-840 (6991440)

#### 1.1.1 Data sheet

**Manufacturer: TRILUX**

#### **6991440 E-Line E-Line G2 MT LED10000-840**

LED gear tray for continuous line system E-Line. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. For TRILUX E-Line T5N/LED or T8 universal trunking, T5 applications ...35-...(1475 mm), T8 applications ...58-...(1530 mm) with blanking cover L55. Blanking cover available as accessory for length compensation with T8 upgrade applications, to be ordered separately. Mounting to trunking with tool-free stainless steel snap fasteners. The design of the four louvre catches enables visual control of secure clipping in of the gear tray into the trunking. The PMMA lens optic forms a fixed unit each with one LED segment. With symmetric medium-narrow light distribution. Surface of lens optic is flat for uniform light distribution and homogeneous illumination of light emission aperture. The flat surface makes cleaning the luminaire easier. Luminaire luminous flux 10000 lm, connected load 74 W, luminous efficiency of luminaire 135 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life L80(tq 35 °C) = 70,000 h, service life L85(tq 35 °C) = 50,000 h. Gear tray of sheet steel, Colour white. Permissible ambient temperature (ta): -25°C - +35 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK06/1 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Self-actuating electrical connection via plug contacts with phase selection. Phase selection is without use of tools. With electronic transformer, switchable. Gear tray in combination with accessory 07650...IP54 is suitable for applications requiring IP54 protection rating and IK06. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol.

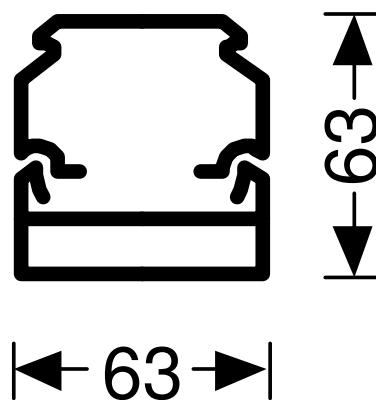
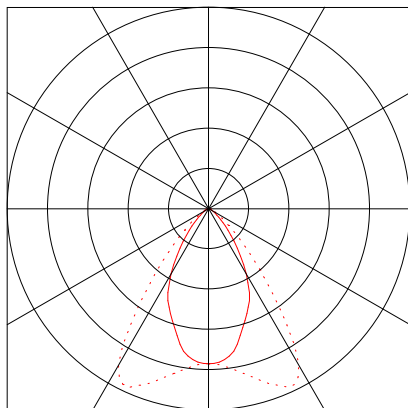
#### **Luminaire data**

Absolute Photometry	
Luminaire efficacy	: 135.08 lm/W
Classification	: A60 99.7% ↑0.3%
CIE Flux Codes	: 82 97 100 100 100
UGR 4H 8H	: 17.4 / 21.0
Control gear	: with electronic transformer
Power	: 74 W
Luminous flux	: 9996.1 lm

Dimensions : 1475 mm x 65 mm x 65 mm

#### **Equipped with**

Quantity	: 1
Designation	:
Colour	: 4000K
Colour reproduction	: 80



## 1 Luminaire data

### 1.2 TRILUX, TOC 6815440 (Olexeon 1200 B 4000-840 ET)

#### 1.2.1 Data sheet

Manufacturer: TRILUX



#### Olexeon 1200 B 4000-840 ET TOC 6815440

<b>Olexeon 1200 B 4000-840 ET (TOC 6815440)</b><br/>"LED weather-proof surface-mounted luminaire IP66. For ceiling, wall and suspended mounting. Suspended mounting possible via optional accessories. Mounting with stainless steel fixing clamps (included). With symmetric wide light intensity distribution. Luminaire luminous flux 4000 lm, connected load 36 W, luminous efficiency of luminaire 111 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life L80(t<sub>q</sub> 25 °C) = 35,000 h, service life L70(t<sub>q</sub> 25 °C) = 50,000 h. Luminaire body of glass fibre-reinforced polyester, similar to RAL 7035 light grey. Diffuser of PMMA. Dimensions (L x W): 1200 mm x 88 mm, luminaire height 77 mm. Permissible ambient temperature (ta): -20 °C - +35 °C. Safety class I, protection rating IP66, impact resistance IK04/0,5 J, heat resistance 650 °C. Rapid-mount luminaire with Wieland rapid plug system. 3-pole-version for switchable luminaires. Connection socket at one head side. With electronic transformer, switchable."

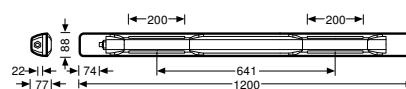
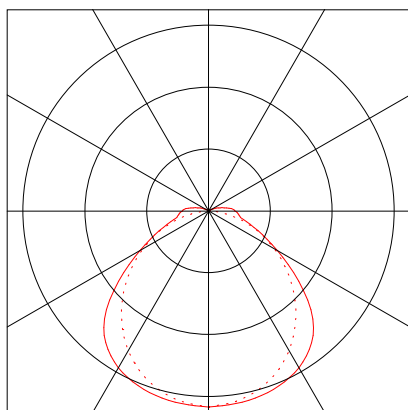
#### Luminaire data

Luminaire efficiency	: 99.9843%
Luminaire efficacy	: 111.09 lm/W
Classification	: A41 95.7% ↑ 4.3%
CIE Flux Codes	: 46 78 93 96 100
UGR 4H 8H	: 23.4 / 23.3
Power	: 36 W
Luminous flux	: 3999.4 lm

#### Equipped with

Quantity	: 1
Designation	: LED
Power	: 36 W
Colour	: 3000-6
Luminous flux	: 4000 lm
Colour reproduction	: 80

Dimensions : 1200 mm x 88 mm x 77 mm



## 1 Luminaire data

### 1.3 TRILUX, TOC 6815640 (Olexeon 1500 B 4000-840 ET)

#### 1.3.1 Data sheet

Manufacturer: TRILUX



#### Olexeon 1500 B 4000-840 ET TOC 6815640

<b>Olexeon 1500 B 4000-840 ET (TOC 6815640)</b><br/>"LED weather-proof surface-mounted luminaire IP66. For ceiling, wall and suspended mounting. Suspended mounting possible via optional accessories. Mounting with stainless steel fixing clamps (included). With symmetric wide light intensity distribution. Luminaire luminous flux 3800 lm, connected load 31 W, luminous efficiency of luminaire 123 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life L80(t<sub>q</sub> 25 °C) = 35,000 h, service life L70(t<sub>q</sub> 25 °C) = 50,000 h. Luminaire body of glass fibre-reinforced polyester, similar to RAL 7035 light grey. Diffuser of PMMA. Dimensions (L x W): 1500 mm x 88 mm, luminaire height 77 mm. Permissible ambient temperature (ta): -20 °C - +35 °C. Safety class I, protection rating IP66, impact resistance IK04/0,5 J, heat resistance 650 °C. Rapid-mount luminaire with Wieland rapid plug system. 3-pole-version for switchable luminaires. Connection socket at one head side. With electronic transformer, switchable."

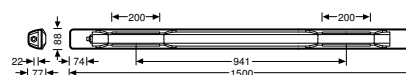
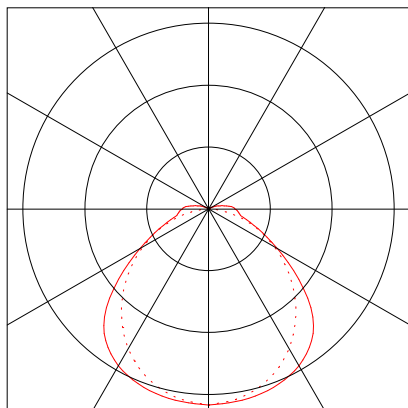
#### Luminaire data

Luminaire efficiency	: 99.9843%
Luminaire efficacy	: 122.56 lm/W
Classification	: A41 95.7% ↑ 4.3%
CIE Flux Codes	: 46 78 93 96 100
UGR 4H 8H	: 22.5 / 22.4
Power	: 31 W
Luminous flux	: 3799.4 lm

#### Equipped with

Quantity	: 1
Designation	: LED
Power	: 31 W
Colour	: 3000K
Luminous flux	: 3800 lm
Colour reproduction	: 80

Dimensions : 1500 mm x 88 mm x 77 mm





## 1 Luminaire data

### 1.4 TRILUX, TOC 6815240 (Olexeon 1500 B 6000-840 ET)

#### 1.4.1 Data sheet

Manufacturer: TRILUX



#### Olexeon 1500 B 6000-840 ET TOC 6815240

<b>Olexeon 1500 B 6000-840 ET (TOC 6815240)</b><br/>"LED weather-proof surface-mounted luminaire IP66. For ceiling, wall and suspended mounting. Suspended mounting possible via optional accessories. Mounting with stainless steel fixing clamps (included). With symmetric wide light intensity distribution. Luminaire luminous flux 5700 lm, connected load 53 W, luminous efficiency of luminaire 108 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life L80(t<sub>q</sub> 25 °C) = 35,000 h, service life L70(t<sub>q</sub> 25 °C) = 50,000 h. Luminaire body of glass fibre-reinforced polyester, similar to RAL 7035 light grey. Diffuser of PMMA. Dimensions (L x W): 1500 mm x 88 mm, luminaire height 77 mm. Permissible ambient temperature (ta): -20 °C - +35 °C. Safety class I, protection rating IP66, impact resistance IK04/0,5 J, heat resistance 650 °C. Rapid-mount luminaire with Wieland rapid plug system. 3-pole-version for switchable luminaires. Connection socket at one head side. With electronic transformer, switchable."

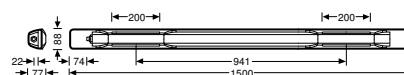
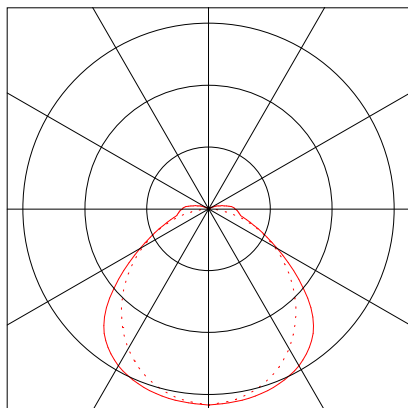
#### Luminaire data

Luminaire efficiency	: 99.9843%
Luminaire efficacy	: 107.53 lm/W
Classification	: A41 95.7% ↑ 4.3%
CIE Flux Codes	: 46 78 93 96 100
UGR 4H 8H	: 23.9 / 23.8
Power	: 53 W
Luminous flux	: 5699.1 lm

#### Equipped with

Quantity	: 1
Designation	: LED
Power	: 53 W
Colour	: 4000K
Luminous flux	: 5700 lm
Colour reproduction	: 80

Dimensions : 1500 mm x 88 mm x 77 mm



## 1 Luminaire data

### 1.5 TRILUX, TOC 6334940... (PolaronIQ H2D LED2000-840 ...)

#### 1.5.1 Data sheet

Manufacturer: TRILUX



#### **PolaronIQ H2D LED2000-840 2,0m ET Suspended mounting TOC 6334940**

<b>PolaronIQ H2D LED2000-840 ET 2,0m (TOC 6334940)</b></b><br/>Decorative suspended LED luminaire, With ring-shaped light element. With direct light distribution. For suspended mounting as single luminaire. Suspension length consists of 2,0m and is individually settable on-site. With direct light distribution. Luminaire luminous flux 2000 lm, connected load 17 W, luminous efficiency of luminaire 118 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life  $L_{80}(t_{q < 25\text{ °C}}) = 70,000\text{ h}$ , service life  $L_{85}(t_{q < 25\text{ °C}}) = 50,000\text{ h}$ . Luminaire diameter Ø 403 mm, luminaire height 50 mm. Permissible ambient temperature (ta): -20 °C - +25 °C. Safety class I, protection rating IP40, impact resistance IK02/0,2 J, heat resistance 650 °C. With electronic transformer, switchable.

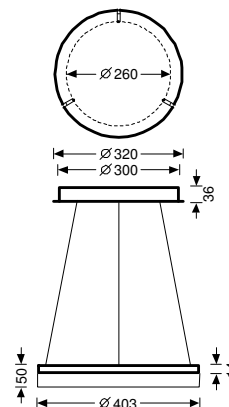
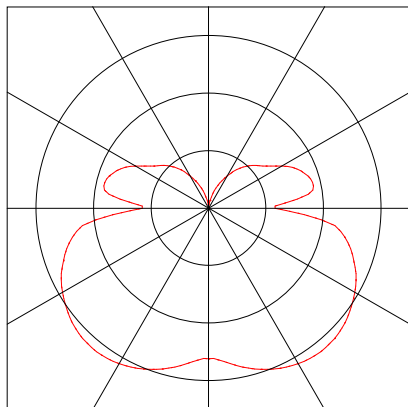
#### **Luminaire data**

Luminaire efficiency	: 99.9939%
Luminaire efficacy	: 117.64 lm/W
Classification	: B21 68.2% ↑31.8%
CIE Flux Codes	: 28 56 82 68 100
UGR 4H 8H	: 21.9 / 21.9
Power	: 17 W
Luminous flux	: 1999.9 lm

#### **Equipped with**

Quantity	: 1
Designation	: LED
Power	: 17 W
Colour	: 4000K
Luminous flux	: 2000 lm
Colour reproduction	: 80

Dimensions : Ø400 mm x 68 mm



## 1 Luminaire data

### 1.6 TRILUX, TOC 6367251... (Lateralor H1 BLGS 6000-840...)

#### 1.6.1 Data sheet

Manufacturer: TRILUX



#### Lateralor H1 BLGS 6000-840 01 ETDD Suspended mounting TOC 6367251

<b>Lateralor H1 BLGS 6000-840 ETDD 01 (TOC 6367251)</b><br/>Exclusive round LED suspended luminaire with direct and indirect luminous flux component. For innovative and prestigious office lighting. For suspended mounting as single luminaire, Suspension length consists of 400-1750 mm. With Binary Light Guide System (BLGS). Optical system consisting of two fine-prismatic PMMA covers for light emission, one above the other. With direct-indirect light distribution. Indirect component with extremely wide distribution. LED system with lateral entry of light in the Binary Light Guide System. Luminaire luminous flux 6000 lm, connected load 50 W, luminous efficiency of luminaire 120 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. Service life  $L_{80}(t_{q < 25\text{ °C}}) = 70,000\text{ h}$ , service life  $L_{85}(t_{q < 25\text{ °C}}) = 50,000\text{ h}$ . Luminaire body of diecast aluminium, white, powder-coated. Permissible ambient temperature (ta): -20 °C - +25 °C. Safety class I, protection rating IP20, impact resistance IK02/0,2 J, heat resistance 650 °C. No separate cable is required for luminaire power supply. Power supply via the wire suspensions. Wire suspension included in the scope of supply. With electronic transformer, digitally dimmable (DALI). Ballast and connection elements are located outside the luminaire body in the ceiling connection unit. White ceiling rose included in scope of supply.

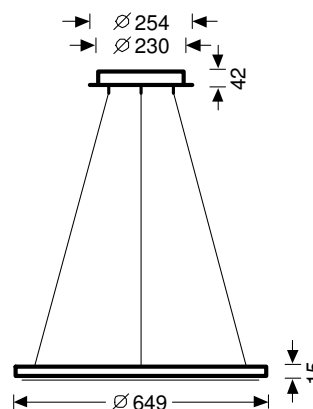
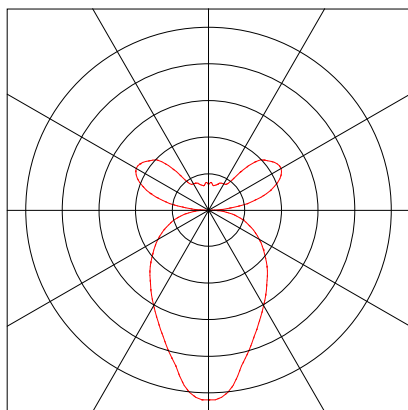
#### Luminaire data

Luminaire efficiency	: 99.9846%
Luminaire efficacy	: 119.98 lm/W
Classification	: C42 54.9% ↑45.1%
CIE Flux Codes	: 47 75 93 55 100
UGR 4H 8H	: 18.7 / 18.7
Power	: 50 W
Luminous flux	: 5999.1 lm

#### Equipped with

Quantity	: 1
Designation	: LED
Power	: 50 W
Colour	: 4000K
Luminous flux	: 6000 lm
Colour reproduction	: 80

Dimensions : Ø650 mm x 20 mm



## 1 Luminaire data

### 1.7 TRILUX, Mirona Fit TB LED13000-840 (6819651)

#### 1.7.1 Data sheet

**Manufacturer: TRILUX**

#### 6819651 Mirona Mirona Fit TB LED13000-840

Robust LED highbay luminaire. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. Suitable for use in rooms with increased risk of fire. Luminaire with limited surface temperature in accordance with DIN EN 60598-2-24, suitable for use in work locations exposed to fire hazards. Suitable for ceiling and suspended mounting with optional accessories. Optical system consists of a PC lens optic. With narrow-wide light distribution. Direct glare limitation in accordance with UGR < 22. LED system consists of 2 LED modules mounted to aluminium support. Luminaire luminous flux 13200 lm, connected load 92 W, luminous efficiency of luminaire 144 lm/W. Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L85(tq 55 °C) = 50,000 h. Robust diecast aluminium body with integrated cooling ribs. Colour white. Dimensions (L x W): 320 mm x 342 mm, luminaire height 63 mm. Permissible ambient temperature (ta): -30 °C - +55 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP65, impact resistance level in accordance with IEC 62262: IK08/5 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 850 °C. With connection cable, 1500 mm. With electronic transformer, digitally dimmable (DALI). Weight 3,8 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol. The luminaire is also ENEC-certified by an independent testing authority.

#### Luminaire data

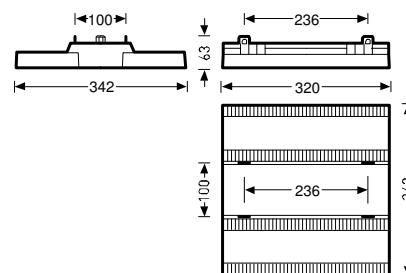
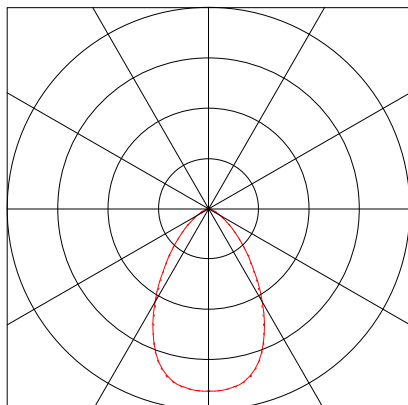
Absolute Photometry

Luminaire efficacy	: 143.43 lm/W
Classification	: A60 100.0% ↑0.0%
CIE Flux Codes	: 76 95 99 100 100
UGR 4H 8H	: 21.7 / 22.1
Control gear	: with digitally dimmable electronic transformer, Dali
Power	: 92 W
Luminous flux	: 13195.2 lm

Dimensions : 320 mm x 342 mm x 65 mm

#### Equipped with

Quantity	: 1
Designation	:
Colour	: 4000K
Colour reproduction	: 80



## 1 Luminaire data

### 1.8 TRILUX, E-Line G2 B LED10000-840 (6987940)

#### 1.8.1 Data sheet

**Manufacturer: TRILUX**

#### 6987940 E-Line E-Line G2 B LED10000-840

LED gear tray for continuous line system E-Line. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. For TRILUX E-Line T5N/LED or T8 universal trunking, T5 applications ...35-...(1475 mm), T8 applications ...58-...(1530 mm) with blanking cover L55. Blanking cover available as accessory for length compensation with T8 upgrade applications, to be ordered separately. Mounting to trunking with tool-free stainless steel snap fasteners. The design of the four louvre catches enables visual control of secure clipping in of the gear tray into the trunking. The PMMA lens optic forms a fixed unit each with one LED segment. With symmetric wide light intensity distribution. Surface of lens optic is flat for uniform light distribution and homogeneous illumination of light emission aperture. The flat surface makes cleaning the luminaire easier. Luminaire luminous flux 10000 lm, connected load 74 W, luminous efficiency of luminaire . Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L80(tq 35 °C) = 70,000 h, mean service life L85(tq 35 °C) = 50,000 h. Gear tray of sheet steel, Permissible ambient temperature (ta): -25 °C - +35 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK06/1 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Self-actuating electrical connection via plug contacts with phase selection. Phase selection is without use of tools. With electronic transformer, switchable. Gear tray in combination with accessory 07650...IP54 is suitable for applications requiring IP54 protection rating and IK06. Weight 1,9 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol.

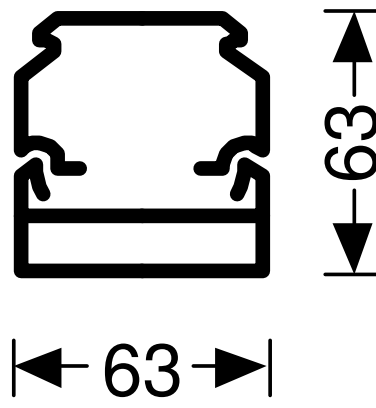
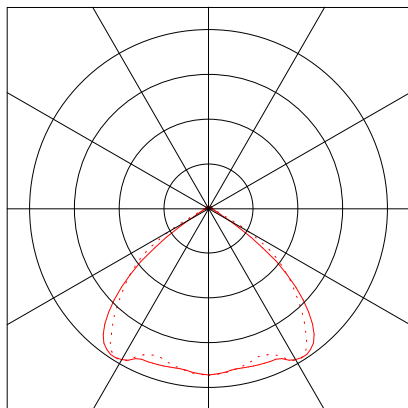
#### Luminaire data

Absolute Photometry  
 Luminaire efficacy : 135.03 lm/W  
 Classification : A51 98.0% ↑2.0%  
 CIE Flux Codes : 60 94 99 98 100  
 UGR 4H 8H : 22.9 / 23.9  
 Control gear : with electronic transformer  
 Power : 74 W  
 Luminous flux : 9992.5 lm

#### Equipped with

Quantity : 1  
 Designation :  
 Colour : 4000K  
 Colour reproduction : 80

Dimensions : 1475 mm x 65 mm x 65 mm



## 1 Luminaire data

### 1.9 TRILUX, E-Line G2 M-MT LED1000... (6989940, /../.....)

#### 1.9.1 Data sheet

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**Manufacturer: TRILUX**

#### **6989940, /../LV Tp IP54, TA../35 IP54, M-E-R IP54, KD IP54 E-Line E-Line G2 M-MT LED10000-840 IP54**

7650 G2 M-MT LED10000-840 ET (TOC 6989940)

LED gear tray for continuous line system E-Line. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. For TRILUX E-Line T5N/LED or T8 universal trunking, T5 applications ...35-...(1475 mm), T8 applications ...58-...(1530 mm) with blanking cover L55. Blanking cover available as accessory for length compensation with T8 upgrade applications, to be ordered separately. Mounting to trunking with tool-free stainless steel snap fasteners. The design of the four louvre catches enables visual control of secure clipping in of the gear tray into the trunking. The PMMA lens optic forms a fixed unit each with one LED segment. With symmetric medium-narrow light distribution. Surface of lens optic is flat for uniform light distribution and homogeneous illumination of light emission aperture. The flat surface makes cleaning the luminaire easier. Luminaire luminous flux 10000 lm, connected load 74 W, luminous efficiency of luminaire . Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L80(tq 35 °C) = 70,000 h, mean service life L85(tq 35 °C) = 50,000 h. Gear tray of sheet steel, Colour silver-grey. Permissible ambient temperature (ta): -25 °C - +35 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK06/1 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Self-actuating electrical connection via plug contacts with phase selection. Phase selection is without use of tools. With electronic transformer, switchable. Gear tray in combination with accessory 07650...IP54 is suitable for applications requiring IP54 protection rating and IK06. Weight 1,9 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol.

07650/I/35-5LV/E-2,5 Tp 07 IP54 (TOC 6758500)

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 2,1 kg.

07650/II/35-5LV-2,5 Tp 07 IP54 (TOC 6758700)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 2-length version for 2 gear trays. Trunking dimensions (LxWxH): 2982 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 4,6 kg.

07650/III/35-5LV-2,5 Tp 07 IP54 (TOC 6758900)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 3-length version for 3 gear trays. Trunking dimensions (LxWxH): Trunking dimensions (LxWxH): 4457 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 6,7 kg.

07650/I/35-7LV/E-2,5 Tp 07 IP54 (TOC 6759100)

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 2,2 kg.

07650/II/35-7LV-2,5 Tp 07 IP54 (TOC 6759300)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised



## 1 Luminaire data

### 1.9 TRILUX, E-Line G2 M-MT LED1000... (6989940, /../.....)

#### 1.9.1 Data sheet

aluminium. 2-length version for 2 gear trays. Trunking dimensions (LxWxH): 2982 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 4,7 kg.

07650/III/35-7LV-2,5 Tp 07 IP54 (TOC 6759500)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 3-length version for 3 gear trays. Trunking dimensions (LxWxH): Trunking dimensions (LxWxH): 4457 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 6,9 kg.

07650/I/35-7LV+5LV/E-2,5 Tp 07 IP54 (TOC 6759700)

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 7-core through-wiring for segmenting circuits and supplementary 5-core through-wiring for additional emergency light or light management uses. With 7-pole and additional 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit

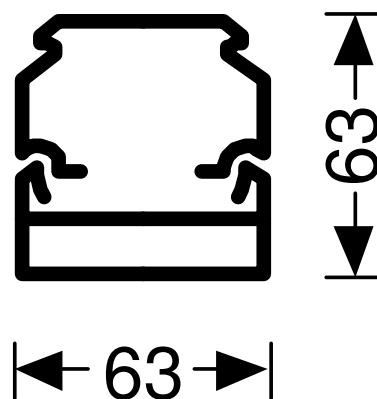
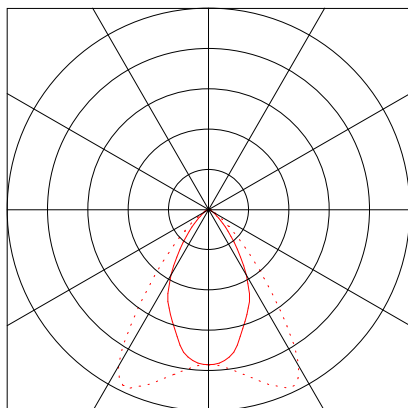
#### Luminaire data

Absolute Photometry  
 Luminaire efficacy : 128.33 lm/W  
 Classification : A60 99.7% ↑ 0.3%  
 CIE Flux Codes : 82 97 100 100 100  
 UGR 4H 8H : 15.6 / 19.5  
 Control gear : with electronic transformer  
 Power : 74 W  
 Luminous flux : 9496.3 lm

#### Equipped with

Quantity : 1  
 Designation :  
 Colour : 4000K  
 Colour reproduction : 80

Dimensions : 1500 mm x 88 mm x 70 mm





## 1 Luminaire data

### 1.10 TRILUX, Mirona Fit-Spo TB LED 26000-840 (6918751)

#### 1.10.1 Data sheet

**Manufacturer: TRILUX**

#### **6918751 Mirona Mirona Fit-Spo TB LED 26000-840**

Robust LED highbay luminaire, ball-proof. Suitable for use in rooms with increased risk of fire. Luminaire with limited surface temperature in accordance with DIN EN 60598-2-24, suitable for use in work locations exposed to fire hazards. Surface-mounted luminaire for ceiling mounting. Optical system consists of a PC lens optic. With narrow-wide light distribution. Direct glare limitation in accordance with UGR < 22. LED system consists of 4 LED modules mounted to aluminium support. Luminaire luminous flux 26400 lm, connected load 181 W, luminous efficiency of luminaire 146 lm/W. Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L85(tq 55 °C) = 50,000 h. Robust diecast aluminium body with integrated cooling ribs. Colour white. Dimensions (L x W): 649 mm x 342 mm, luminaire height 63 mm. Rear reinforcement of luminaire body for special use in sports locations. Ball-impact-resistance according to DIN 18032-3. Permissible ambient temperature (ta): -30 °C - +55 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): , impact resistance level in accordance with IEC 62262: IK08/5 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 850 °C. With 2 electronic ballasts, digitally dimmable (DALI). Weight 8,1 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol.

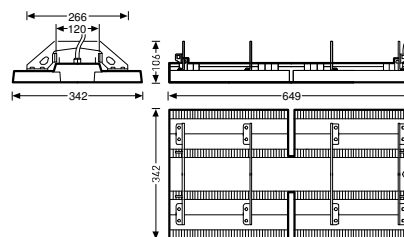
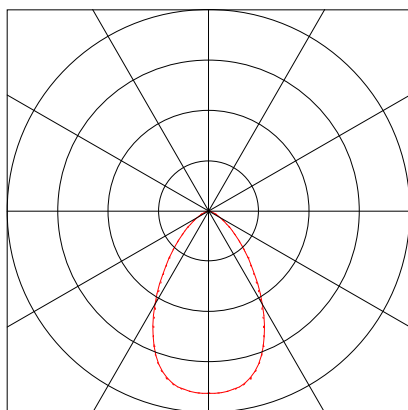
#### **Luminaire data**

Absolute Photometry	
Luminaire efficacy	: 145.8 lm/W
Classification	: A60 100.0% ↑0.0%
CIE Flux Codes	: 76 95 99 100 100
UGR 4H 8H	: 21.6 / 22.1
Control gear	: with digitally dimmable electronic transformer, Dali
Power	: 181 W
Luminous flux	: 26390.4 lm

Dimensions : 650 mm x 342 mm x 110 mm

#### **Equipped with**

Quantity	: 1
Designation	:
Colour	: 4000K
Colour reproduction	: 80



## 1 Luminaire data

### 1.11 TRILUX, E-Line B LED6500-840 (6239340)

#### 1.11.1 Data sheet

**Manufacturer: TRILUX**

#### **6239340 E-Line E-Line B LED6500-840**

LED gear tray for continuous line system E-Line. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. For TRILUX E-Line T5N/LED or T8 universal trunking, T5 applications ...35-...(1475 mm), T8 applications ...58-...(1530 mm) with blanking cover L55. Blanking cover available as accessory for length compensation with T8 upgrade applications, to be ordered separately. Mounting to trunking with tool-free stainless steel snap fasteners. The design of the four louvre catches enables visual control of secure clipping in of the gear tray into the trunking. The PMMA lens optic forms a fixed unit each with one LED segment. With symmetric wide light intensity distribution. Surface of lens optic is flat for uniform light distribution and homogeneous illumination of light emission aperture. The flat surface makes cleaning the luminaire easier. LED system consists of 5 LED segments. Each segment has 33 Mid Power LEDs in 3 rows, each configured with 11 LEDs. Luminaire luminous flux 6600 lm, connected load 41 W, luminous efficiency of luminaire . Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L80(tq 40 °C) = 70,000 h, mean service life L85(tq 40 °C) = 50,000 h. Gear tray of sheet steel, Colour white. Dimensions (L x W) 1475 mm x 63 mm, 75 mm maximum width due to locking device. Permissible ambient temperature (ta): -25 °C - +40 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK06/1 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Self-actuating electrical connection via plug contacts with phase selection. Phase selection is without use of tools. With electronic transformer, switchable. Gear tray in combination with accessory 07650...IP54 is suitable for applications requiring IP54 protection rating and IK06. Weight 1,9 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol. The luminaire is also ENEC-certified by an independent testing authority.

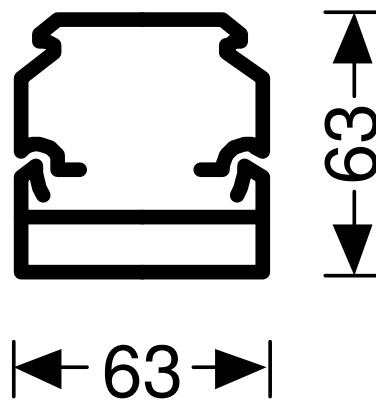
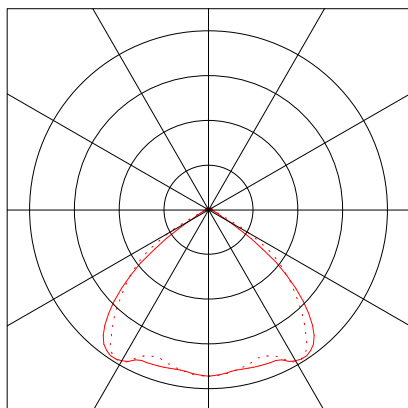
#### **Luminaire data**

Absolute Photometry	
Luminaire efficacy	: 160.86 lm/W
Classification	: A51 98.0% ↑2.0%
CIE Flux Codes	: 60 94 99 98 100
UGR 4H 8H	: 21.4 / 22.4
Control gear	: with electronic transformer
Power	: 41 W
Luminous flux	: 6595.1 lm

#### **Equipped with**

Quantity	: 1
Designation	:
Colour	: 4000K
Colour reproduction	: 80

Dimensions : 1475 mm x 65 mm x 65 mm



## 1 Luminaire data

### 1.12 TRILUX, E-Line B LED5500-840 I... (6210040, /../.....)

#### 1.12.1 Data sheet

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**Manufacturer: TRILUX**

**6210040, /../LV Tp IP54, TA../35 IP54, M-E-R IP54, KD IP54 E-Line E-Line B LED5500-840 IP54**  
7650B LED5500-840 ET (TOC 6210040)

LED gear tray for continuous line system E-Line. Compliant to DIN 10500. The luminaires are suitable for applications in IFS Version 6 and/or BRC Global Standard Food Version 7-certified companies in the food and beverage industries. For TRILUX E-Line T5N/LED or T8 universal trunking, T5 applications ...35-...(1475 mm), T8 applications ...58-...(1530 mm) with blanking cover L55. Blanking cover available as accessory for length compensation with T8 upgrade applications, to be ordered separately. Mounting to trunking with tool-free stainless steel snap fasteners. The design of the four louvre catches enables visual control of secure clipping in of the gear tray into the trunking. The PMMA lens optic forms a fixed unit each with one LED segment. With symmetric wide light intensity distribution. Surface of lens optic is flat for uniform light distribution and homogeneous illumination of light emission aperture. The flat surface makes cleaning the luminaire easier. LED system consists of 5 LED segments. Each segment has 33 Mid Power LEDs in 3 rows, each configured with 11 LEDs. Luminaire luminous flux 5700 lm, connected load 35 W, luminous efficiency of luminaire . Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) Ra > 80. Mean service life L80(tq 45 °C) = 70,000 h, mean service life L85(tq 45 °C) = 50,000 h. Gear tray of sheet steel, Colour white. Dimensions (L x W) 1475 mm x 63 mm, 75 mm maximum width due to locking device. Permissible ambient temperature (ta): -25 °C - +45 °C. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK06/1 J, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Self-actuating electrical connection via plug contacts with phase selection. Phase selection is without use of tools. With electronic transformer, switchable. Gear tray in combination with accessory 07650...IP54 is suitable for applications requiring IP54 protection rating and IK06. Weight 1,9 kg. The luminaire complies with fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol. The luminaire is also ENEC-certified by an independent testing authority.

**07650/I/35-5LV/E-2,5 Tp 07 IP54 (TOC 6758500)**

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 2,1 kg.

**07650/II/35-5LV-2,5 Tp 07 IP54 (TOC 6758700)**

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 2-length version for 2 gear trays. Trunking dimensions (LxWxH): 2982 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 4,6 kg.

**07650/III/35-5LV-2,5 Tp 07 IP54 (TOC 6758900)**

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 3-length version for 3 gear trays. Trunking dimensions (LxWxH): Trunking dimensions (LxWxH): 4457 mm x 88 mm x 43 mm. With 5-conductor through-wiring. With 5-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 5-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 6,7 kg.

**07650/I/35-7LV/E-2,5 Tp 07 IP54 (TOC 6759100)**

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 2,2 kg.

## 1 Luminaire data

### 1.12 TRILUX, E-Line B LED5500-840 I... (6210040, /../.....)

#### 1.12.1 Data sheet

07650/II/35-7LV-2,5 Tp 07 IP54 (TOC 6759300)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 2-length version for 2 gear trays. Trunking dimensions (LxWxH): 2982 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 4,7 kg.

07650/III/35-7LV-2,5 Tp 07 IP54 (TOC 6759500)

E-Line trunking for LED continuous line applications with IP54 protection Rating. Of silver-grey anodised aluminium. 3-length version for 3 gear trays. Trunking dimensions (LxWxH): Trunking dimensions (LxWxH): 4457 mm x 88 mm x 43 mm. With 7-conductor through-wiring. With 7-pole plug/socket pair for rapid electrical connection and termination at ends with protection against accidental contact. With 7-pole female connector for each length unit for rapid electrical connection of gear trays. Weight 6,9 kg.

07650/I/35-7LV+5LV/E-2,5 Tp 07 IP54 (TOC 6759700)

E-Line trunking for LED single luminaires or LED continuous line applications with IP54 protection rating. Of silver-grey anodised aluminium. 1-length version for 1 gear tray. Trunking dimensions (LxWxH): 1507 mm x 88 mm x 43 mm. With 7-core through-wiring for segmenting circuits and supplementary 5-core through-wiring

#### Luminaire data

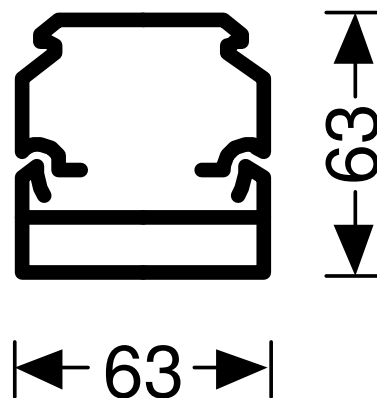
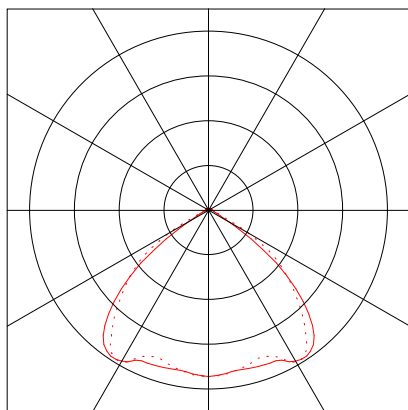
##### Absolute Photometry

Luminaire efficacy	: 154.17 lm/W
Classification	: A51 98.0% ↑ 2.0%
CIE Flux Codes	: 60 94 99 98 100
UGR 4H 8H	: 19.1 / 20.3
Control gear	: with electronic transformer
Power	: 35 W
Luminous flux	: 5396 lm

#### Equipped with

Quantity	: 1
Designation	:
Colour	: 4000K
Colour reproduction	: 80

Dimensions : 1500 mm x 88 mm x 70 mm



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### 2.2.1 Table, Reference plane 1.1 (E)



Height of the reference plane		: 0.75 m
Average illuminance	Eav	: 779 lx
Minimum illuminance	Emin	: 374 lx
Maximum illuminance	Emax	: 935 lx
Uniformity Uo	Emin/Eav	: 1 : 2.08 (0.48)
Diversity Ud	Emin/Emax	: 1 : 2.50 (0.40)



2 116

2.2 Calculation results, 116

2.2.1 Table, Reference plane 1.1 (E)

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475	382
└	└
594	478
└	└
670	538
└	└
687	556
└	└
713	574
└	└
701	567
└	└
714	574
└	└
688	556
└	└
672	540
└	└
596	481
└	└
481	386
└	└
<hr/>	
0 [m]	



Part2

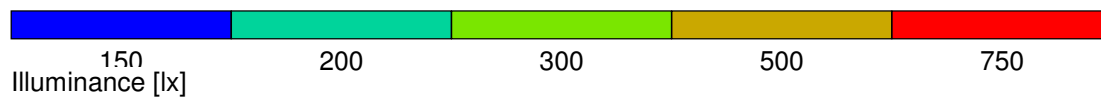
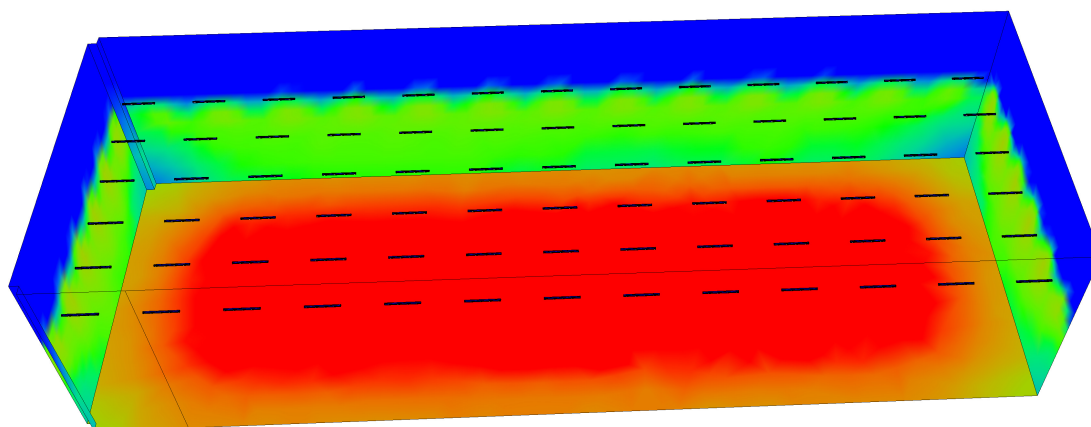
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## 2.2 Calculation results, 116

### 2.2.2 3D pseudo colours, View 1 (E)

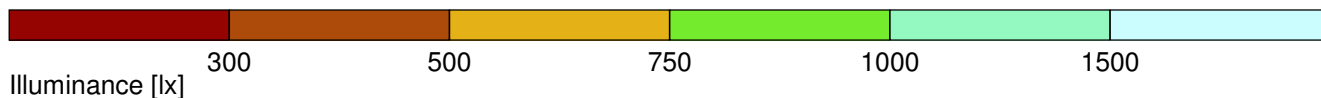
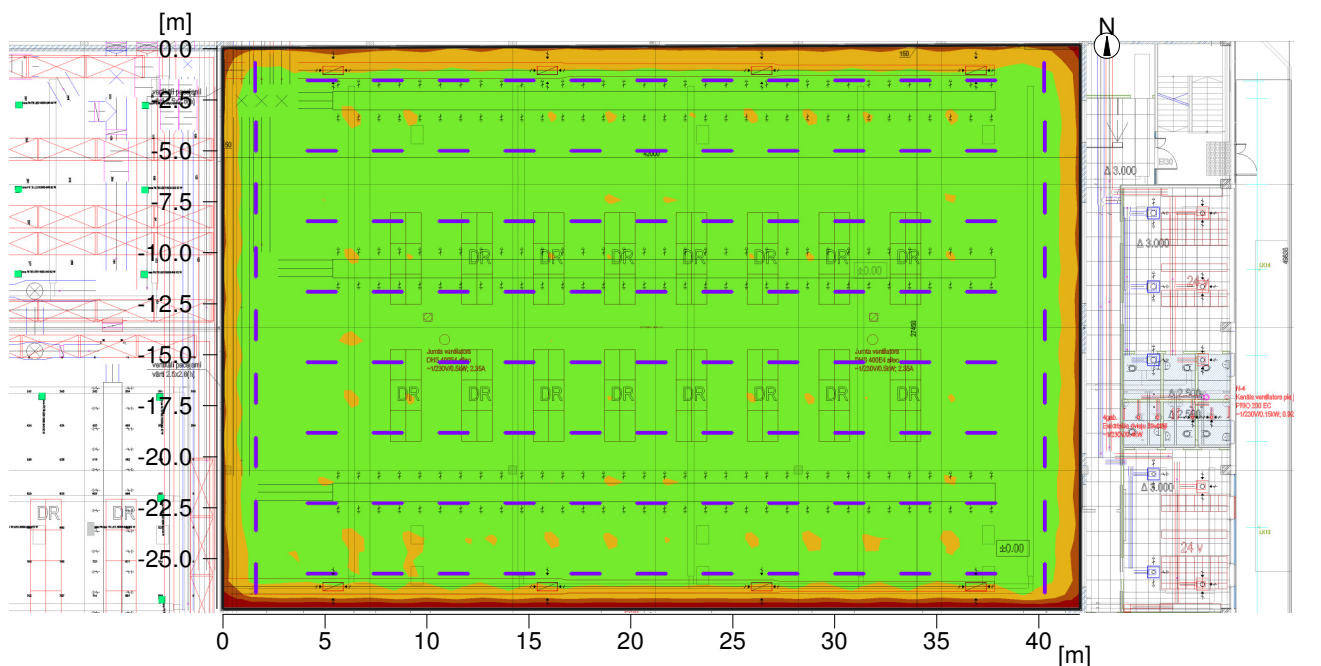
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### 3 117

#### 3.1 Summary, 117

##### 3.1.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	1060000.00 lm
Total power	7844.0 W
Total power per area (1156.05 m²)	6.79 W/m² (0.89 W/m²/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Industrial activities and crafts - Electrical and electronic industry  
 5.11.5 (EN 12464-1, 8.2011) Assembly work: fine, e.g. telephones, radios, IT equipment (computers) (Ra >80.00)

Horizontal

Em	763 lx	(>= 750 lx)
Emin	714 lx	
Emin/Eav (Uo)	0.94	(>= 0.70)
Emin/Emax (Ud)	0.86	
UGR (12.0H 8.0H)	<=23.8	(< 19.00)
Position	0.75 m	

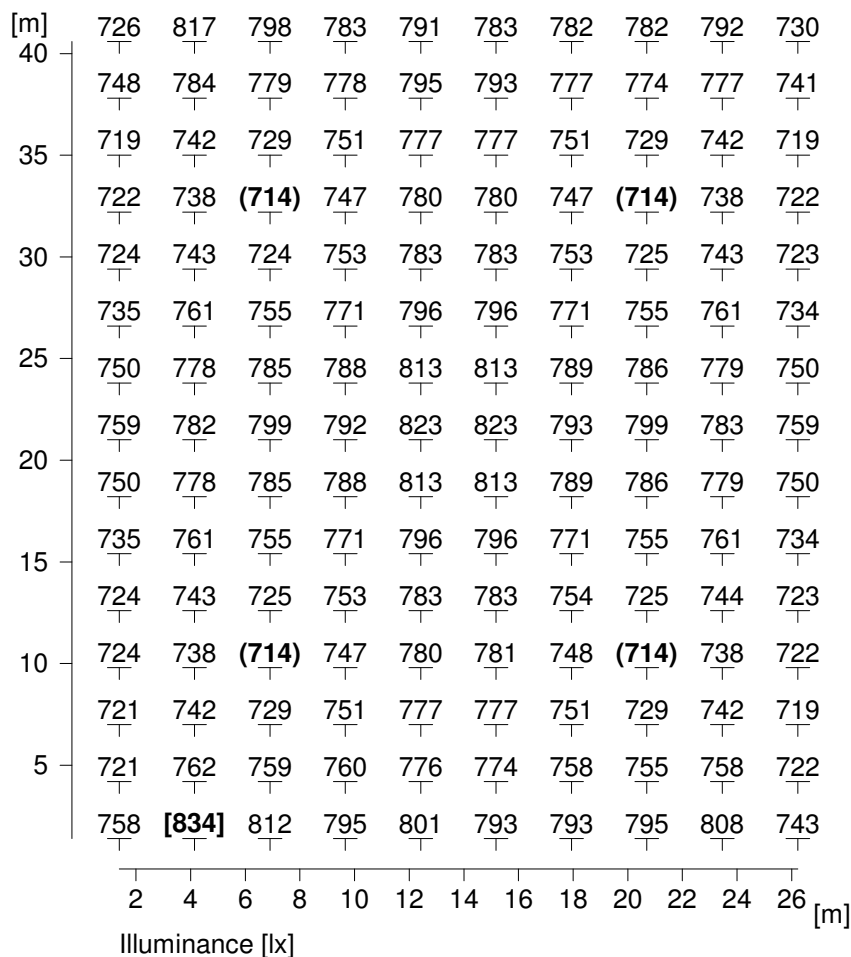
#### Type No.\Make

8 106	<b>TRILUX</b>	
	Order No.	: 6987940
	Luminaire name	: E-Line G2 B LED10000-840
	Equipment	: 1 x 74 W / 10000 lm

### 3 117

#### 3.2 Calculation results, 117

##### 3.2.1 Table, Reference plane 1.1 (E)

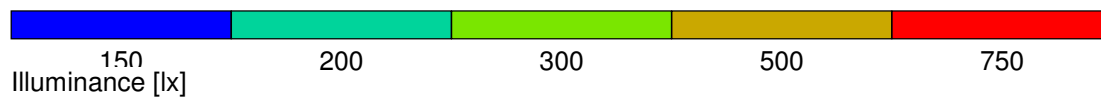
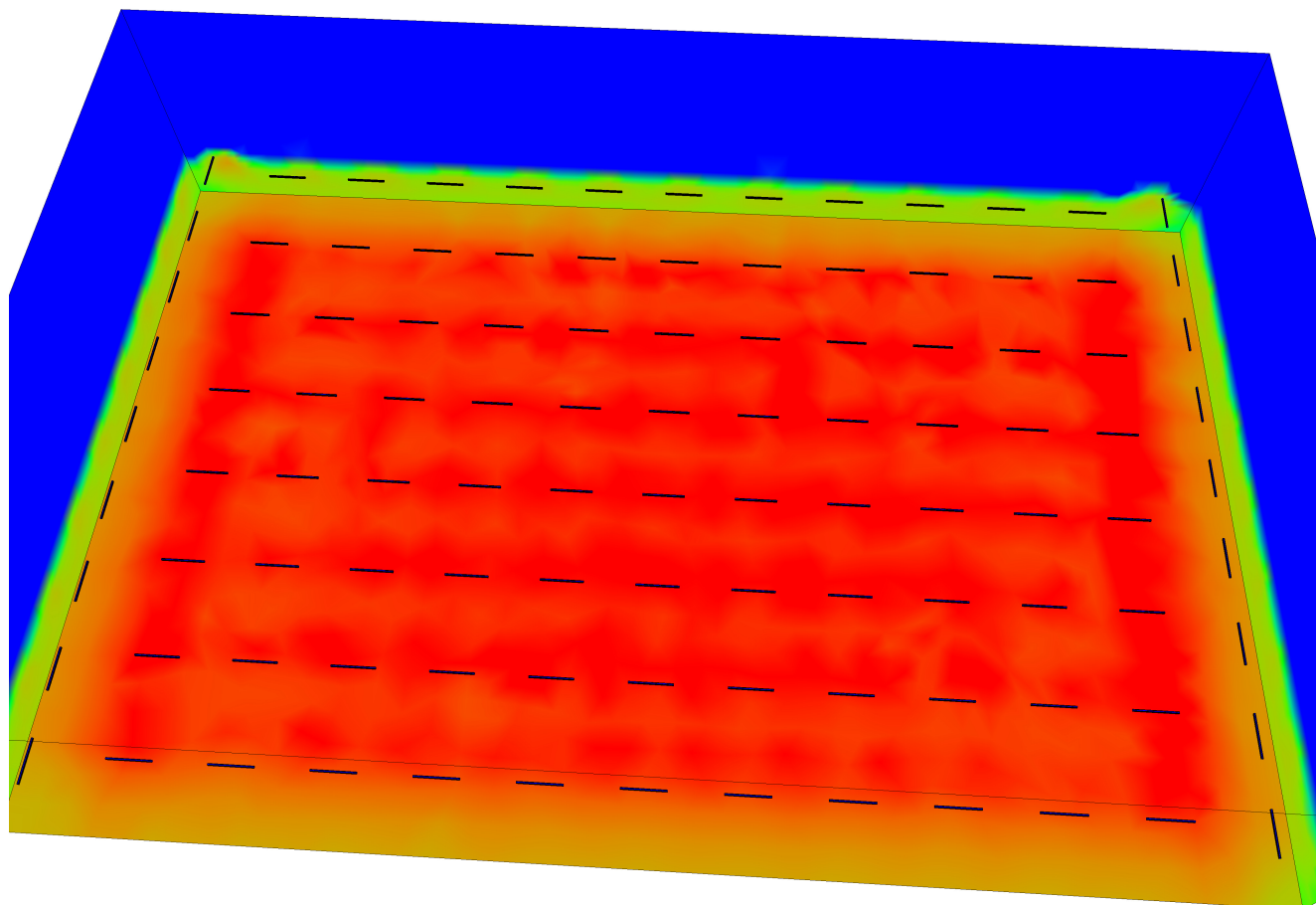


Height of the reference plane	: 0.75 m
Average illuminance	Eav : 763 lx
Minimum illuminance	Emin : 714 lx
Maximum illuminance	Emax : 834 lx
Uniformity Uo	Emin/Eav : 1 : 1.07 (0.94)
Diversity Ud	Emin/Emax : 1 : 1.17 (0.86)

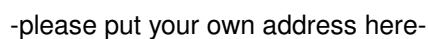
## 3.2 Calculation results, 117

### 3.2.2 3D pseudo colours, View 1 (E)

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### 1.1.1 Floor plan



Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018



## 1 135

### 1.1 Description, 135

#### 1.1.1 Floor plan

---

Wall	x	y	Length	Reflectance
1	18.13 m	49.97 m	20.99 m	50.0 %
2	18.12 m	49.77 m	0.20 m	50.0 %
3	20.27 m	49.67 m	2.15 m	50.0 %
4	20.27 m	42.74 m	6.92 m	50.0 %
5	45.47 m	42.74 m	25.20 m	50.0 %
6	45.47 m	56.24 m	13.50 m	50.0 %
7	31.62 m	56.24 m	13.85 m	50.0 %
8	31.67 m	70.54 m	14.30 m	50.0 %
9	31.62 m	70.55 m	0.06 m	50.0 %
10	31.63 m	70.92 m	0.36 m	50.0 %
11	17.62 m	70.94 m	14.01 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		8.00 m		
Height of reference plane		0.00 m		

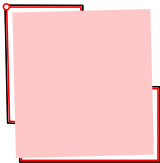
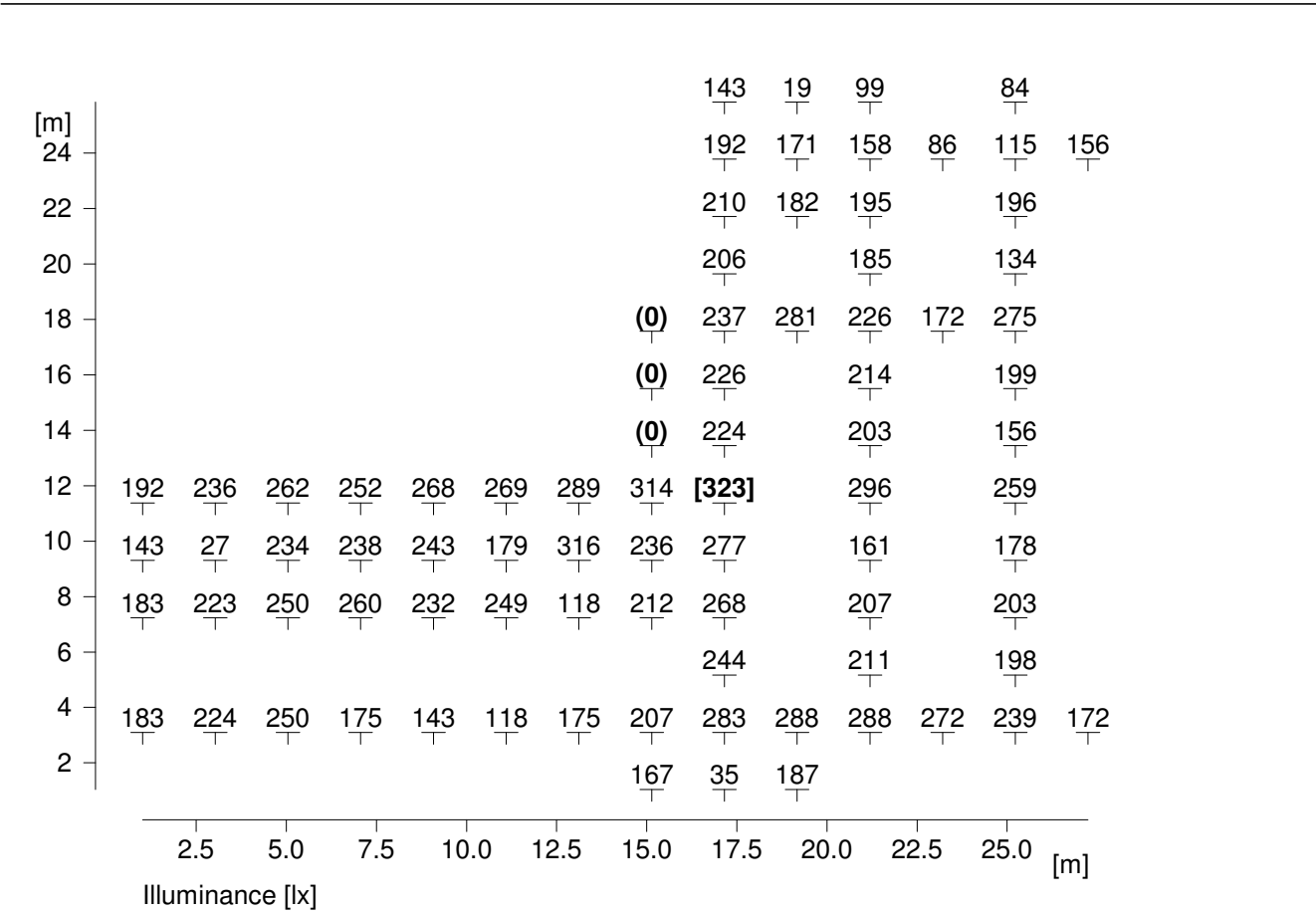
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1 135

1.3 Calculation results, 135

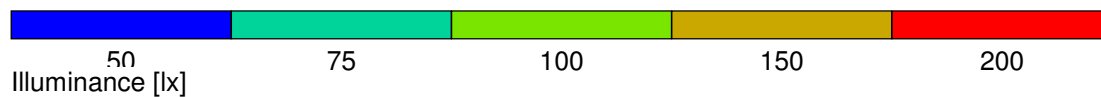
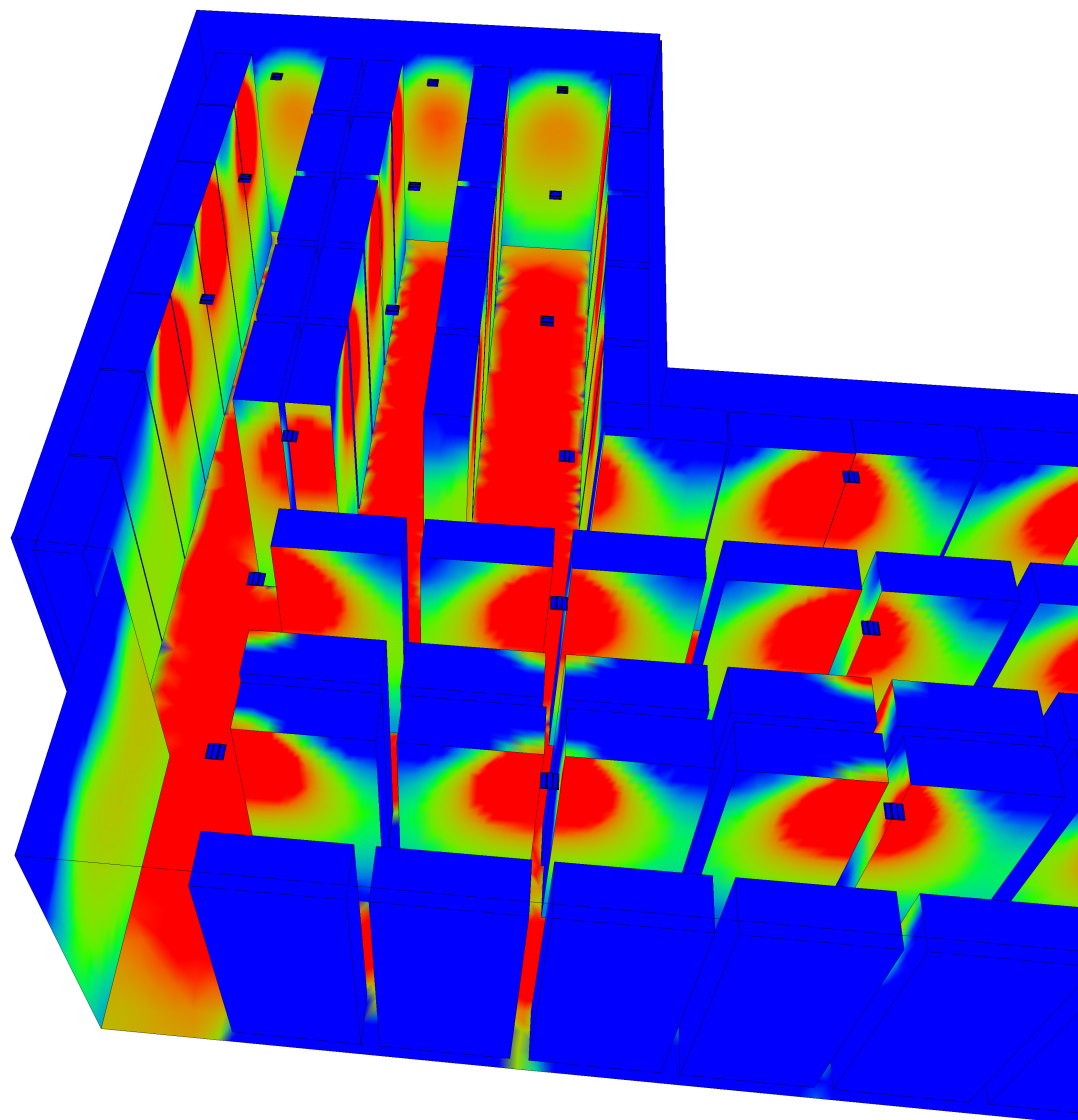
1.3.1 Table, Reference plane 1.1 (E)



Height of the reference plane	: 0.00 m
Average illuminance	Eav : 198 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 323 lx
Uniformity Uo	Emin/Eav : ---
Diversity Ud	Emin/Emax : ---

### 1.3 Calculation results, 135

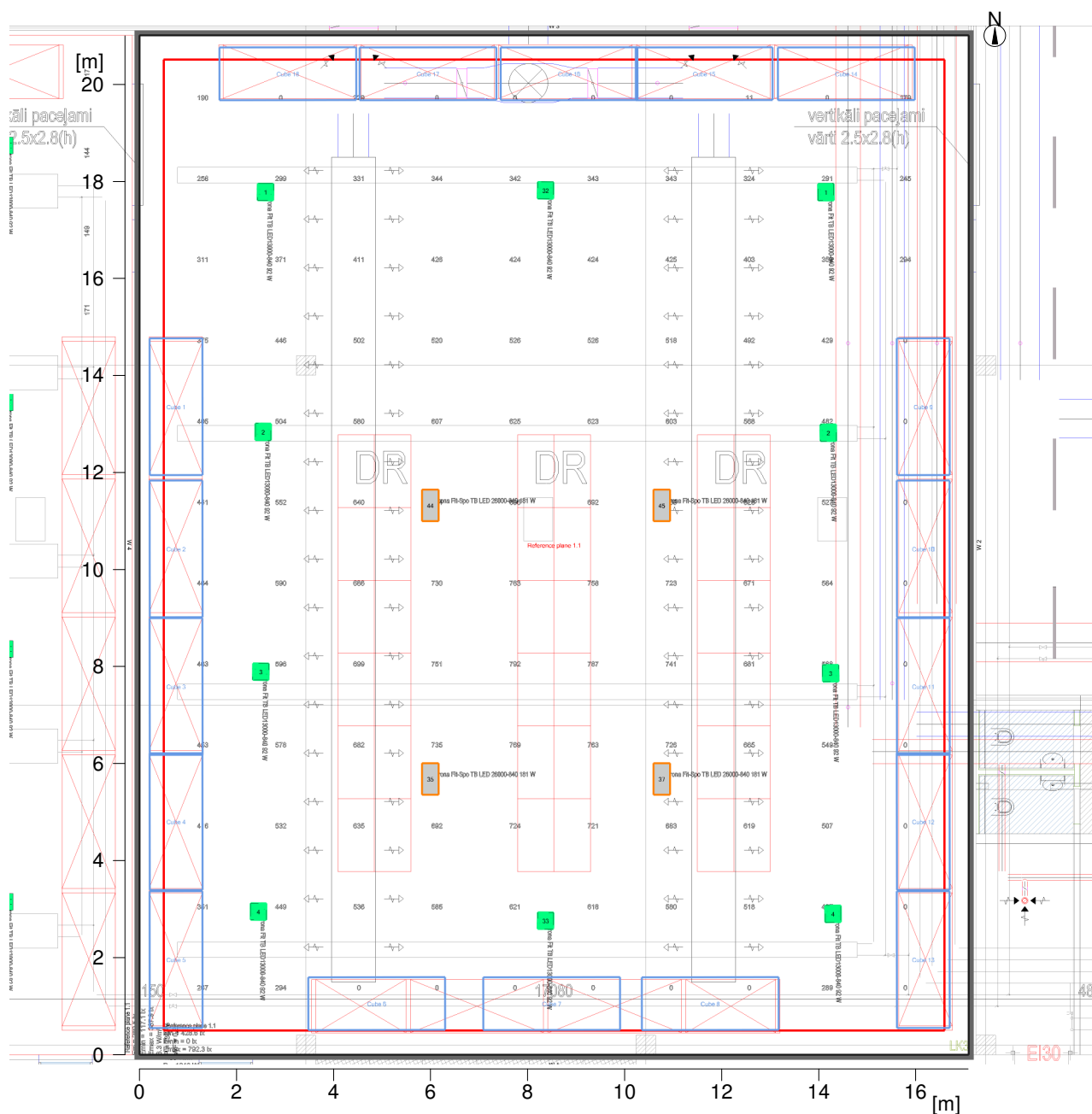
#### 1.3.2 3D pseudo colours, View 1 (E)



## 2 130

### 2.1 Description, 130

#### 2.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	45.47 m	21.54 m	17.08 m	50.0 %
2	45.47 m	42.54 m	21.00 m	50.0 %
3	28.39 m	42.54 m	17.08 m	50.0 %
4	28.39 m	21.54 m	21.00 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		9.00 m		
Height of reference plane		0.00 m		

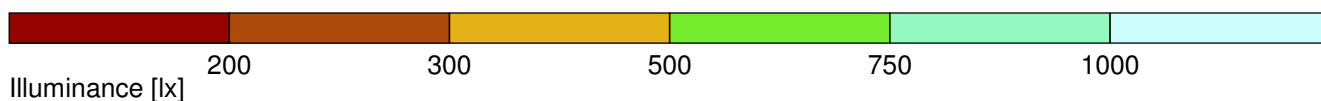
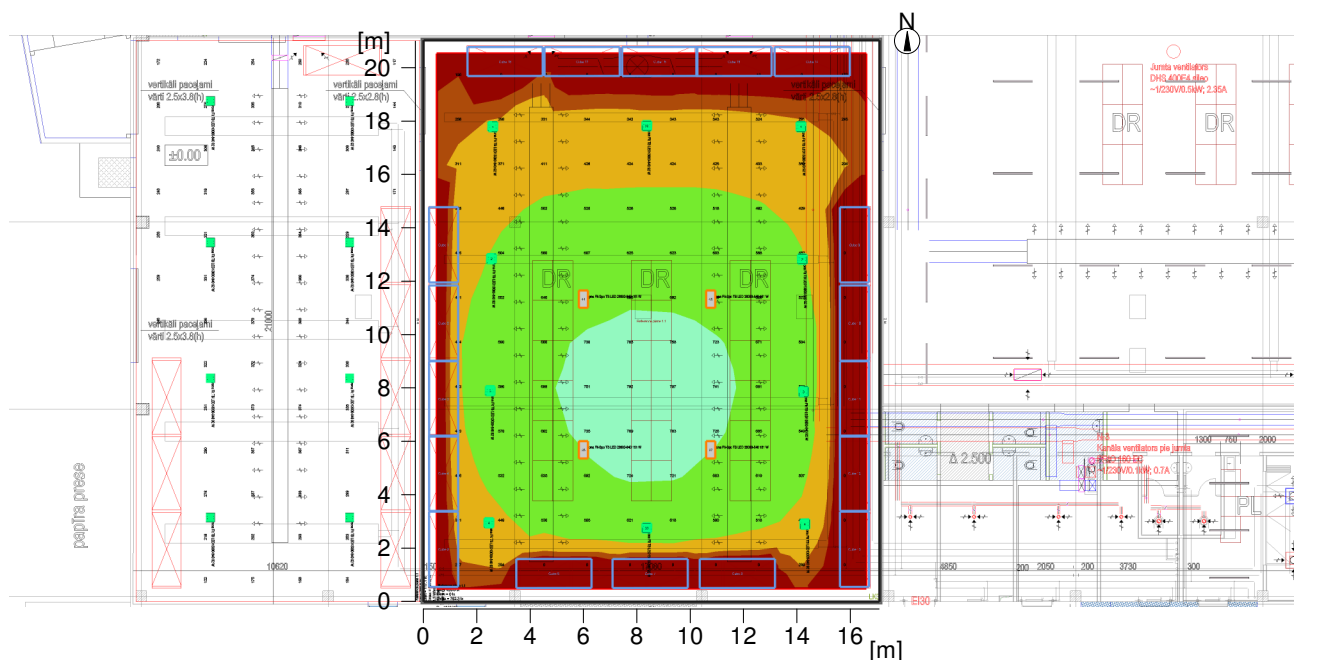
Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018

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## 2 130

### 2.2 Summary, 130

#### 2.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
Height of luminaire plane  
Maintenance factor

Average indirect fraction  
8.00 m  
0.80

Total luminous flux of all lamps  
Total power  
Total power per area (358.68 m<sup>2</sup>)

237600.00 lm  
1644.0 W  
4.58 W/m<sup>2</sup> (1.07 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Store rooms, cold stores  
5.4.2 (EN 12464-1, 8.2011) Dispatch packing handling areas (Ra >60.00)  
Horizontal

Em 429 lx (>= 300 lx)  
Emin 0 lx  
Emin/Eav (Uo) --- (>= 0.60)  
Emin/Emax (Ud) ---  
Position 0.00 m

#### Type No.\Make

7 10 **TRILUX**  
Order No. : 6819651  
Luminaire name : Mirona Fit TB LED13000-840  
Equipment : 1 x 92 W / 13200 lm

10 4  
Order No. : 6918751  
Luminaire name : Mirona Fit-Spo TB LED 26000-840  
Equipment : 1 x 181 W / 26400 lm

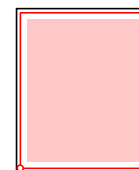
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## 2 130

### 2.3 Calculation results, 130

#### 2.3.1 Table, Reference plane 1.1 (E)

	189	(0)	229	(0)	(0)	(0)	(0)	11	(0)	179
[m]	256	299	331	344	342	343	343	324	291	245
18	310	371	410	426	424	424	425	403	359	294
16	375	446	502	520	526	526	518	492	429	(0)
14	405	504	580	607	625	623	603	568	482	(0)
12	441	552	640	674	696	692	669	626	527	(0)
10	464	590	686	730	763	758	723	671	564	(0)
8	463	596	699	751	[792]	787	741	681	568	(0)
6	453	578	682	735	769	764	726	665	549	(0)
4	416	532	635	692	725	721	683	619	507	(0)
2	351	449	537	585	621	618	580	518	427	(0)
	268	296	(0)	(0)	(0)	(0)	(0)	(0)	289	(0)
	2	4	6	8	10	12	14	[m]		
	Illuminance [lx]									

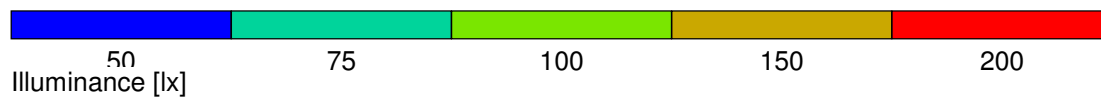
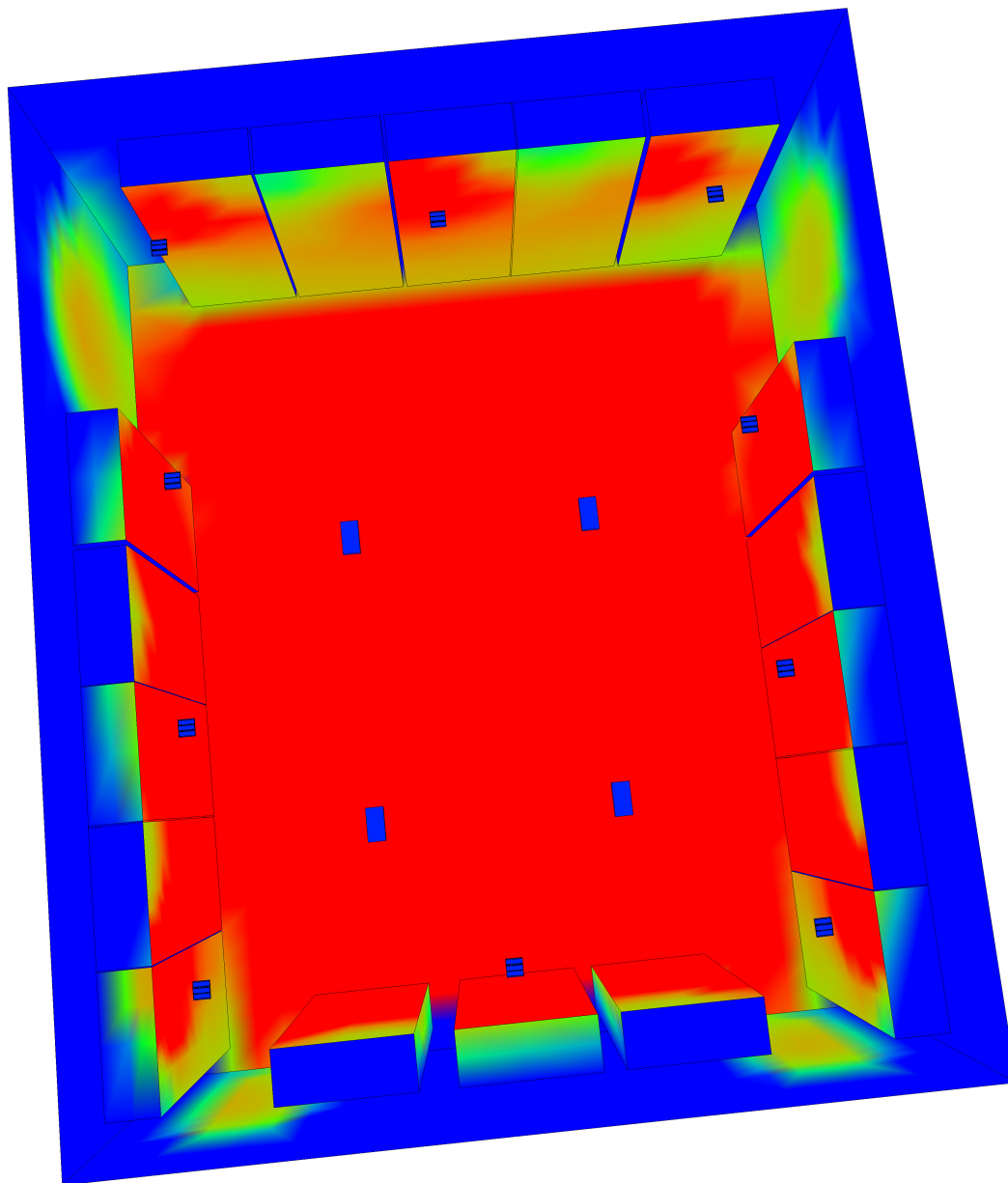


Height of the reference plane	: 0.00 m
Average illuminance	Eav : 429 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 792 lx
Uniformity Uo	Emin/Eav : ---
Diversity Ud	Emin/Emax : ---

## 2.3 Calculation results, 130

### 2.3.2 3D pseudo colours, View 1 (E)

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**RELUX®**

### 3.1.1 Floor plan



Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018



### 3 134

#### 3.1 Description, 134

##### 3.1.1 Floor plan

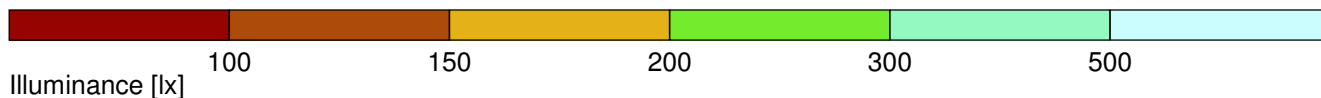
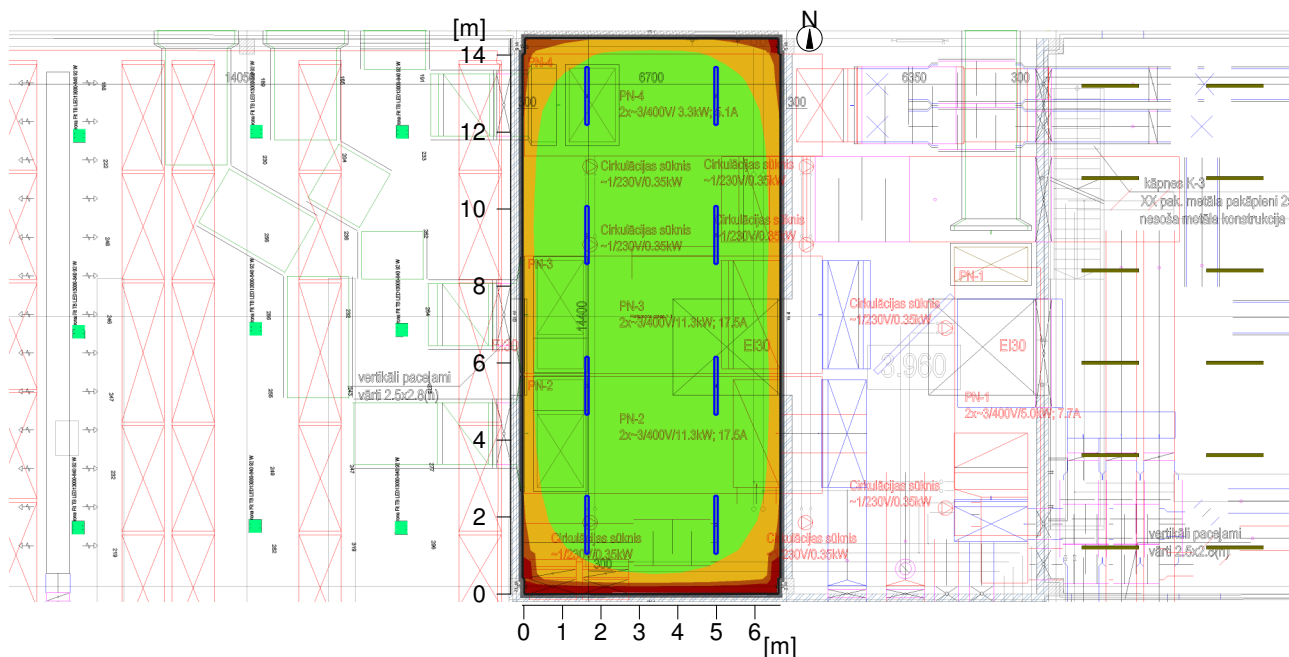
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Wall	x	y	Length	Reflectance
1	38.62 m	56.54 m	6.60 m	50.0 %
2	38.61 m	56.94 m	0.40 m	50.0 %
3	38.67 m	56.94 m	0.06 m	50.0 %
4	38.67 m	70.54 m	13.60 m	50.0 %
5	38.62 m	70.55 m	0.05 m	50.0 %
6	38.62 m	70.95 m	0.40 m	50.0 %
7	32.04 m	70.95 m	6.58 m	50.0 %
8	32.04 m	70.54 m	0.41 m	50.0 %
9	31.97 m	70.54 m	0.06 m	50.0 %
10	31.97 m	56.94 m	13.60 m	50.0 %
11	32.02 m	56.94 m	0.04 m	50.0 %
12	32.02 m	56.53 m	0.41 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.55 m		
Height of reference plane		0.00 m		

### 3 134

#### 3.2 Summary, 134

##### 3.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
Height of luminaire plane  
Maintenance factor

Average indirect fraction  
3.55 m  
0.67

Total luminous flux of all lamps  
Total power  
Total power per area (96.49 m<sup>2</sup>)

45600.00 lm  
424.0 W  
4.39 W/m<sup>2</sup> (2.00 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Storage rack areas  
5.5.4 (EN 12464-1, 8.2011) Storage rack face (Ra >60.00)  
Horizontal

Em 220 lx (>= 200 lx)  
Emin 137 lx  
Emin/Eav (Uo) 0.62 (>= 0.40)  
Emin/Emax (Ud) 0.52  
UGR (6.2H 2.9H) <=23.0  
Position 0.00 m

#### Type No.\Make

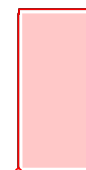
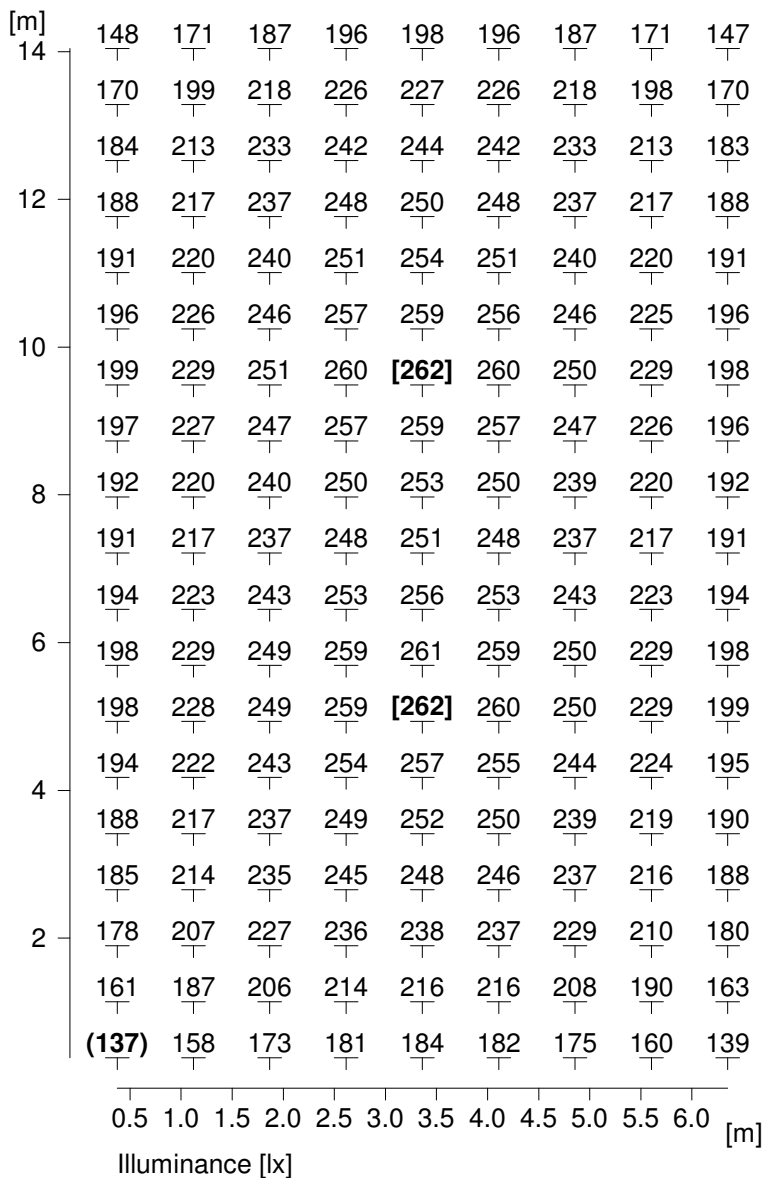
#### TRILUX

4 8  
Order No. : Olxeon 1500 B 6000-840 ET  
Luminaire name : TOC 6815240  
Equipment : 1 x LED 53 W / 5700 lm

### 3 134

#### 3.3 Calculation results, 134

##### 3.3.1 Table, Reference plane 1.1 (E)

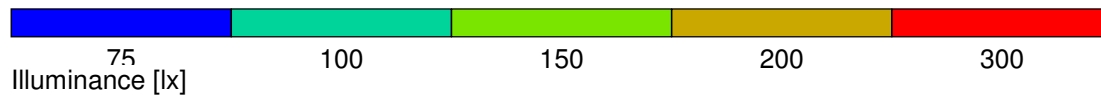
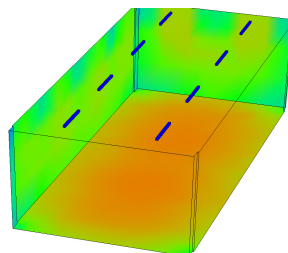


Height of the reference plane	: 0.00 m
Average illuminance	Eav : 220 lx
Minimum illuminance	Emin : 137 lx
Maximum illuminance	Emax : 262 lx
Uniformity Uo	Emin/Eav : 1 : 1.61 (0.62)
Diversity Ud	Emin/Emax : 1 : 1.91 (0.52)

### 3.3 Calculation results, 134

#### 3.3.2 3D pseudo colours, View 1 (E)

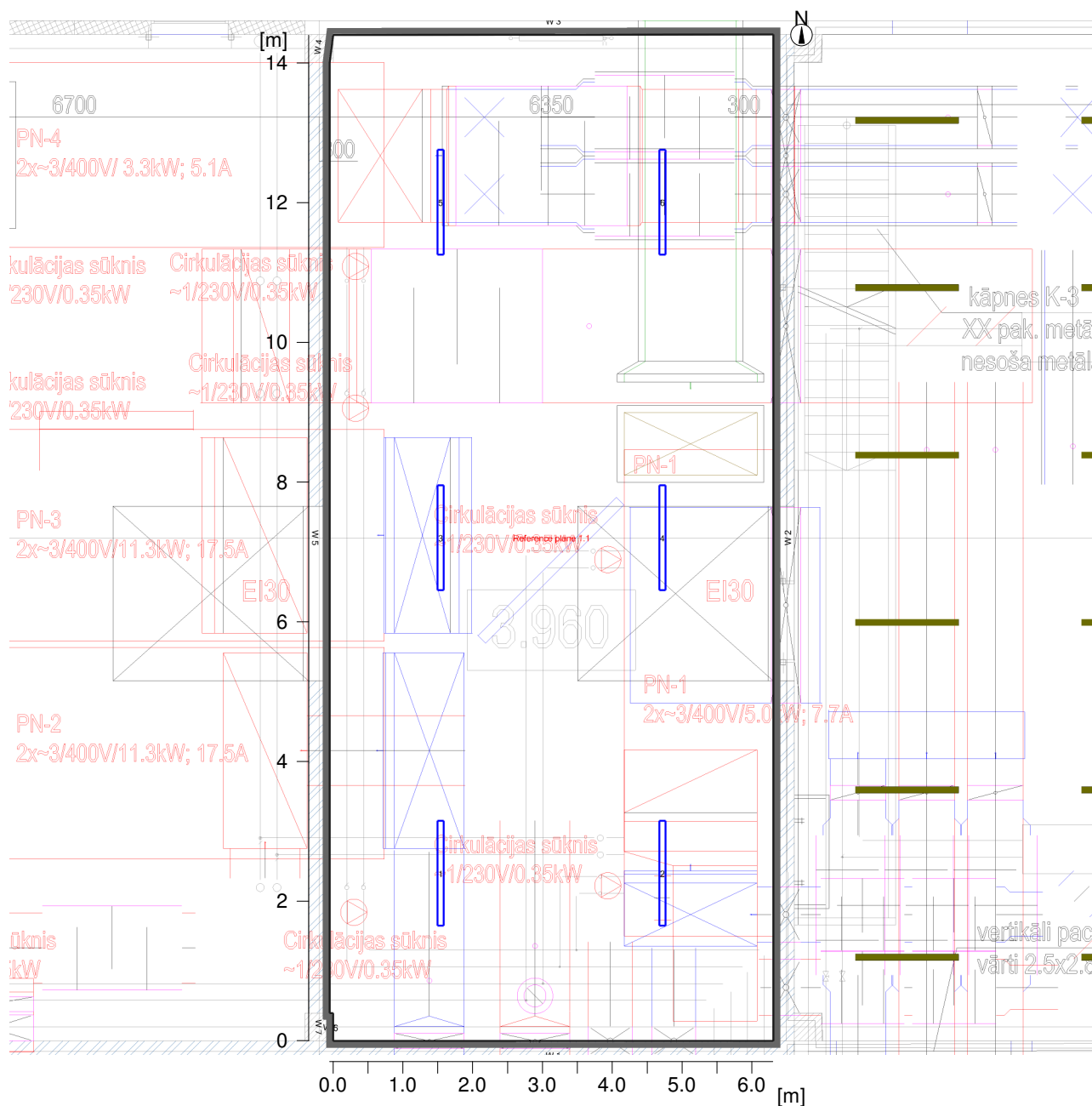
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## 4 133

### 4.1 Description, 133

#### 4.1.1 Floor plan

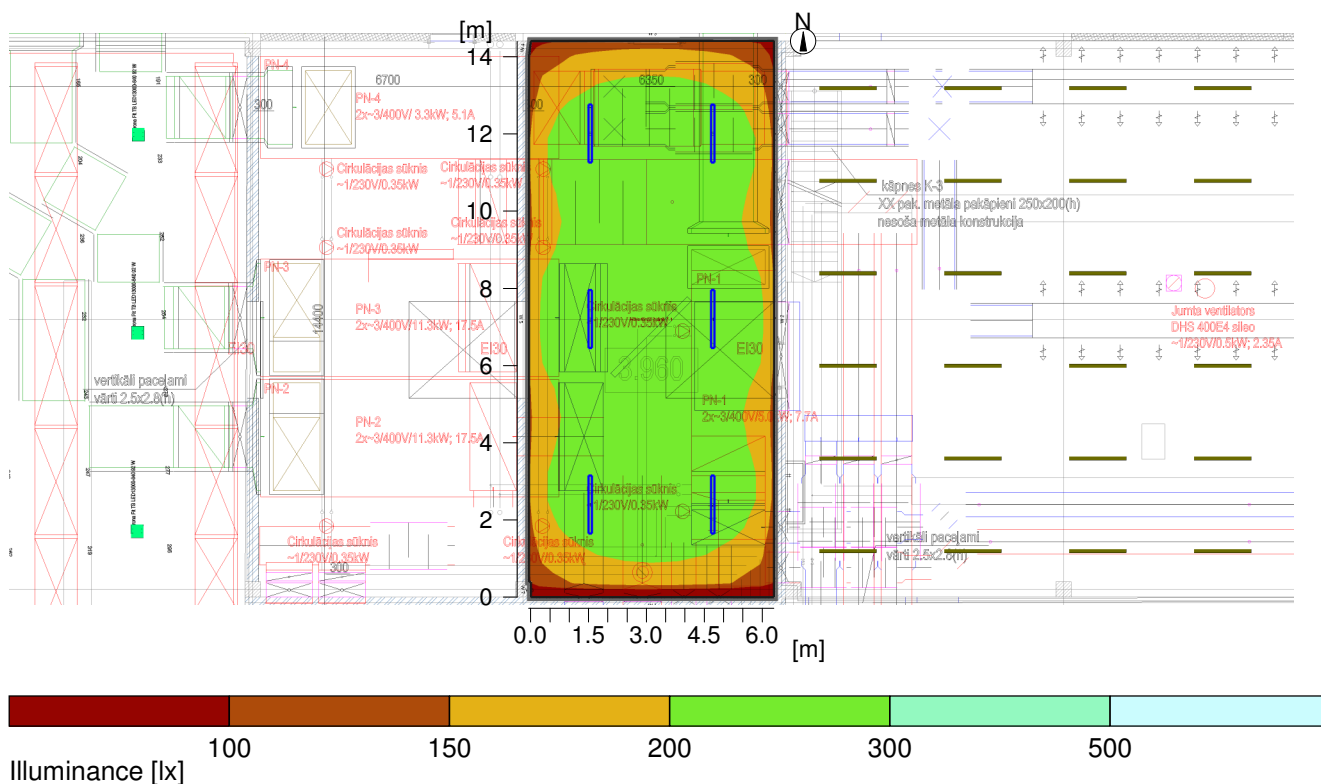


Wall	x	y	Length	Reflectance
1	45.32 m	56.54 m	6.30 m	50.0 %
2	45.32 m	70.94 m	14.40 m	50.0 %
3	39.02 m	70.94 m	6.30 m	50.0 %
4	38.97 m	70.54 m	0.40 m	50.0 %
5	38.97 m	56.94 m	13.60 m	50.0 %
6	39.02 m	56.94 m	0.05 m	50.0 %
7	39.02 m	56.55 m	0.40 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.55 m		
Height of reference plane		----		

## 4 133

### 4.2 Summary, 133

#### 4.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
Height of luminaire plane  
Maintenance factor

Average indirect fraction  
3.55 m  
0.80

Total luminous flux of all lamps  
Total power  
Total power per area (91.38 m<sup>2</sup>)

34200.00 lm  
318.0 W  
3.48 W/m<sup>2</sup> (1.68 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Storage rack areas  
5.5.4 (EN 12464-1, 8.2011) Storage rack face (Ra >60.00)  
Horizontal

Em 207 lx (>= 200 lx)  
Emin 122 lx  
Emin/Eav (Uo) 0.59 (>= 0.40)  
Emin/Emax (Ud) 0.47  
UGR (2.7H 6.2H) <=22.9  
Position 0.00 m (rot: 0°/0.01°)

#### Type No.Make

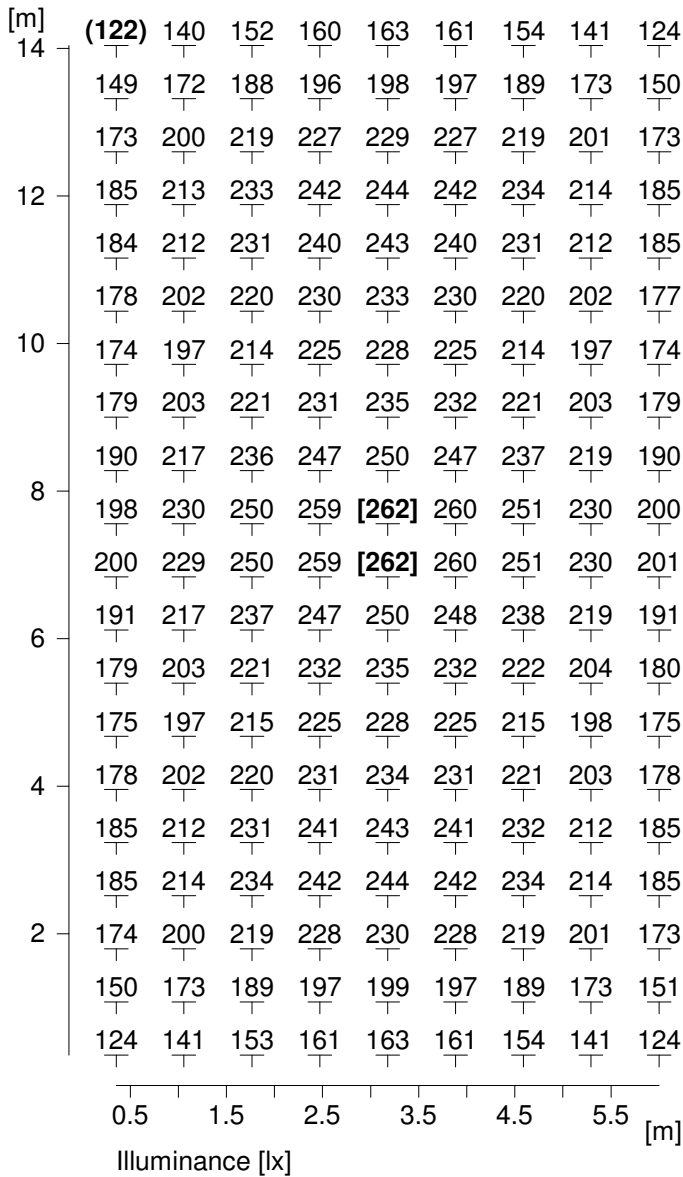
#### TRILUX

4 6 Order No. : Olxeon 1500 B 6000-840 ET  
Luminaire name : TOC 6815240  
Equipment : 1 x LED 53 W / 5700 lm

4 133

4.3 Calculation results, 133

4.3.1 Table, Reference plane 1.1 (E)



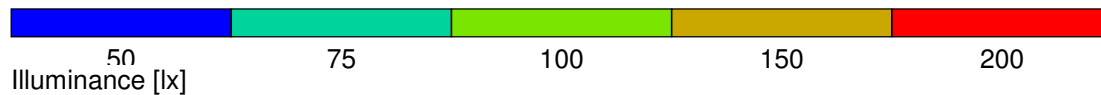
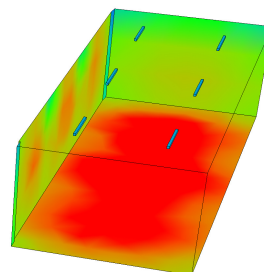
Average illuminance	Eav	: 207 lx
Minimum illuminance	Emin	: 122 lx
Maximum illuminance	Emax	: 262 lx
Uniformity Uo	Emin/Eav	: 1 : 1.69 (0.59)
Diversity Ud	Emin/Emax	: 1 : 2.14 (0.47)



## 4.3 Calculation results, 133

### 4.3.2 3D pseudo colours, View 1 (E)

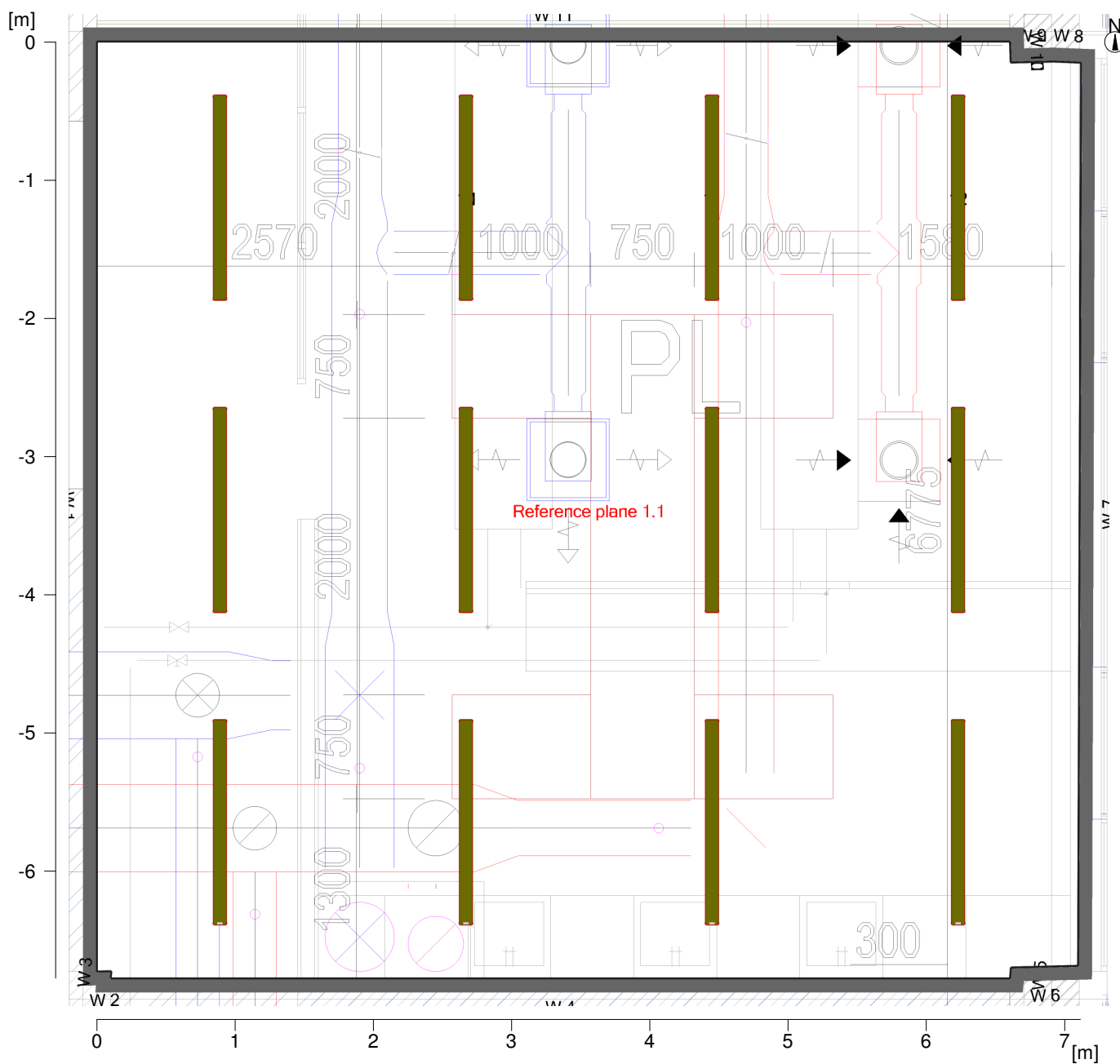
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## 5 114

### 5.1 Description, 114

#### 5.1.1 Floor plan



Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018



## 5 114

### 5.1 Description, 114

#### 5.1.1 Floor plan

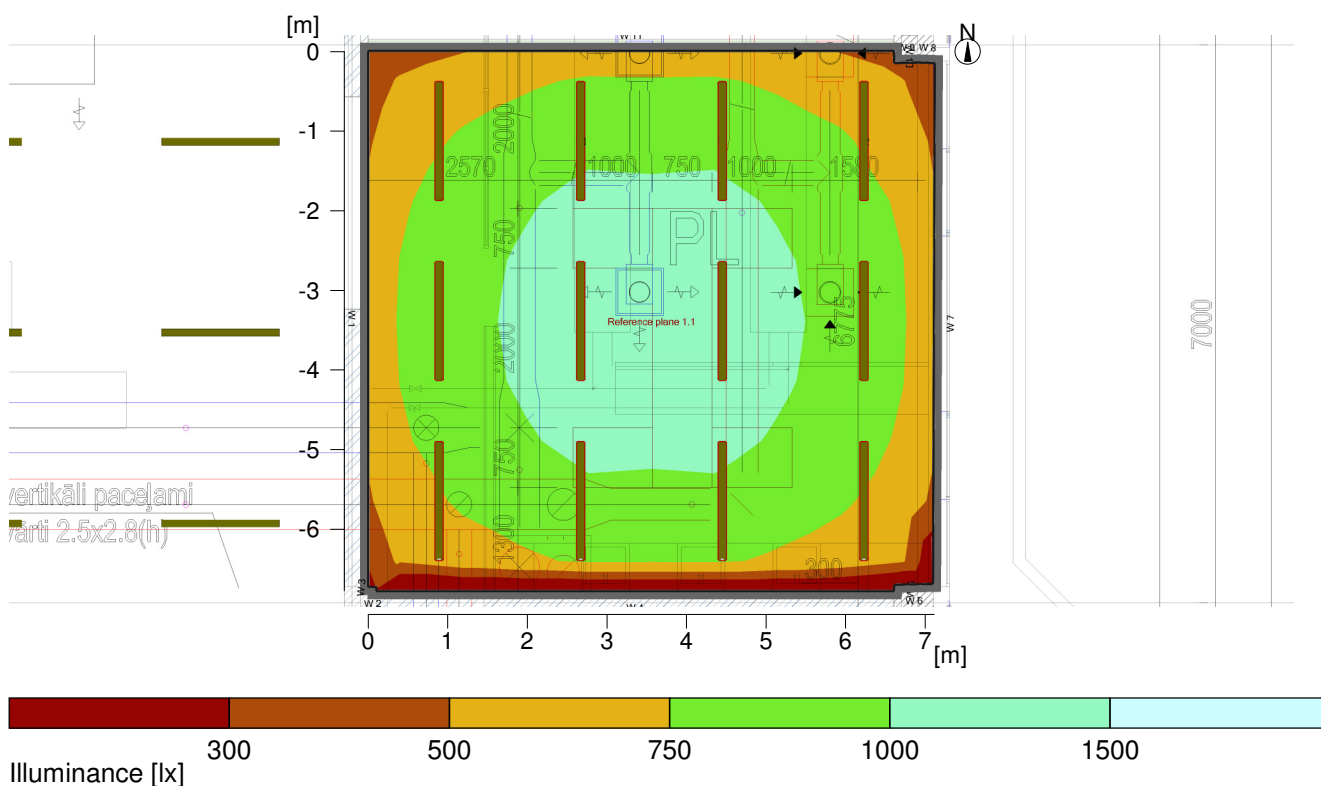
---

Wall	x	y	Length	Reflectance
1	87.92 m	56.94 m	6.72 m	50.0 %
2	88.03 m	56.95 m	0.11 m	50.0 %
3	88.02 m	56.89 m	0.05 m	50.0 %
4	94.52 m	56.89 m	6.50 m	50.0 %
5	94.53 m	56.97 m	0.08 m	50.0 %
6	95.01 m	56.99 m	0.49 m	50.0 %
7	95.04 m	63.52 m	6.53 m	50.0 %
8	94.84 m	63.52 m	0.20 m	50.0 %
9	94.53 m	63.52 m	0.31 m	50.0 %
10	94.52 m	63.67 m	0.15 m	50.0 %
11	87.92 m	63.67 m	6.60 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.55 m		
Height of reference plane		0.75 m		

## 5 114

### 5.2 Summary, 114

#### 5.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 3.55 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (48.00 m²)

64800.00 lm  
 420.0 W  
 8.75 W/m² (1.06 W/m²/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Industrial activities and crafts - Electrical and electronic industry  
 5.11.5 (EN 12464-1, 8.2011) Assembly work: fine, e.g. telephones, radios, IT equipment (computers) (Ra >80.00)

Horizontal

Em 822 lx (>= 750 lx)  
 Emin 482 lx  
 Emin/Eav (Uo) 0.59 (>= 0.70)  
 Emin/Emax (Ud) 0.45  
 UGR (3.1H 3.0H) <=20.3 (< 19.00)  
 Position 0.75 m

#### Type No.\Make

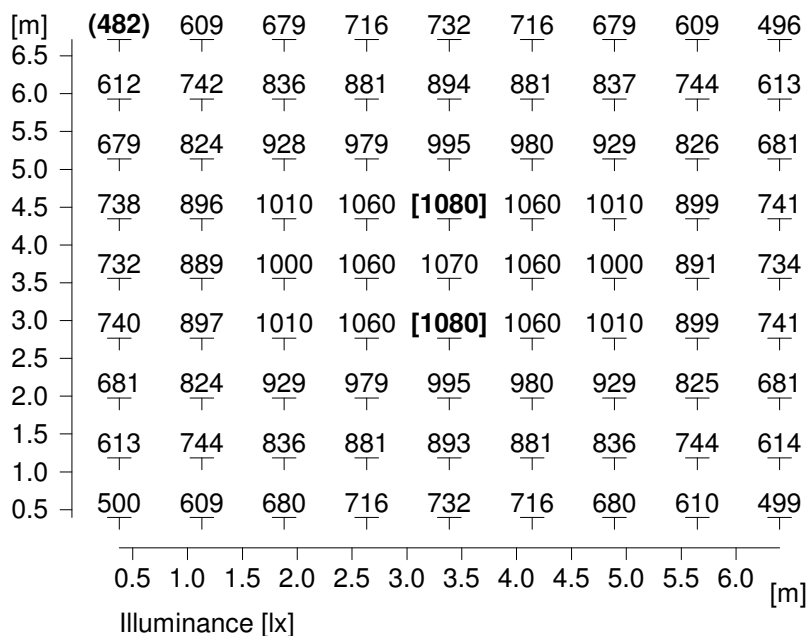
#### TRILUX

12 12 Order No. : 6210040, /../LV Tp IP54, TA../35 IP54, M-E-R IP54, KD IP54  
 Luminaire name : E-Line B LED5500-840 IP54  
 Equipment : 1 x 35 W / 5400 lm

## 5 114

### 5.3 Calculation results, 114

#### 5.3.1 Table, Reference plane 1.1 (E)

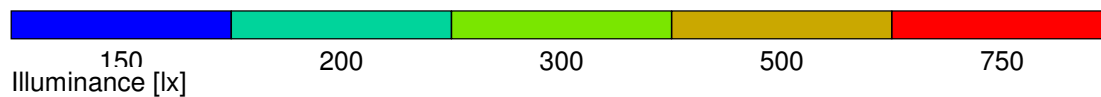
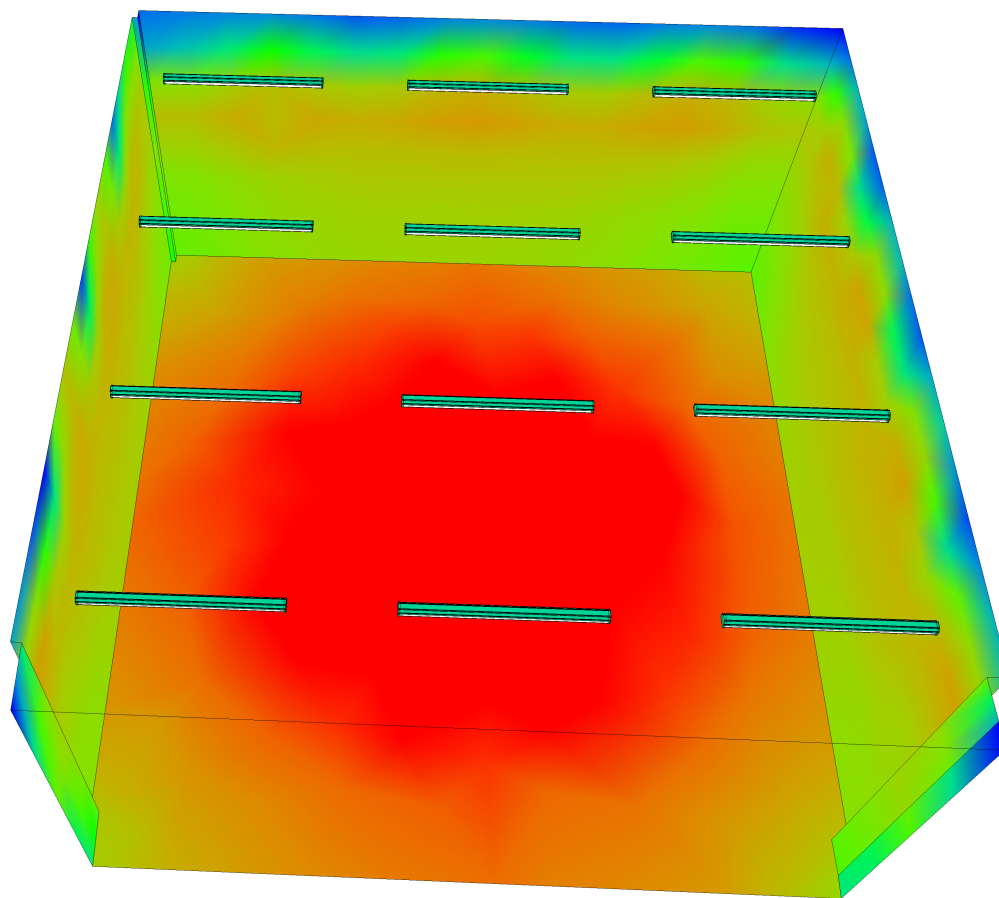


Height of the reference plane	: 0.75 m
Average illuminance	Eav : 822 lx
Minimum illuminance	Emin : 482 lx
Maximum illuminance	Emax : 1080 lx
Uniformity Uo	Emin/Eav : 1 : 1.71 (0.59)
Diversity Ud	Emin/Emax : 1 : 2.24 (0.45)

### 5.3 Calculation results, 114

#### 5.3.2 3D pseudo colours, View 1 (E)

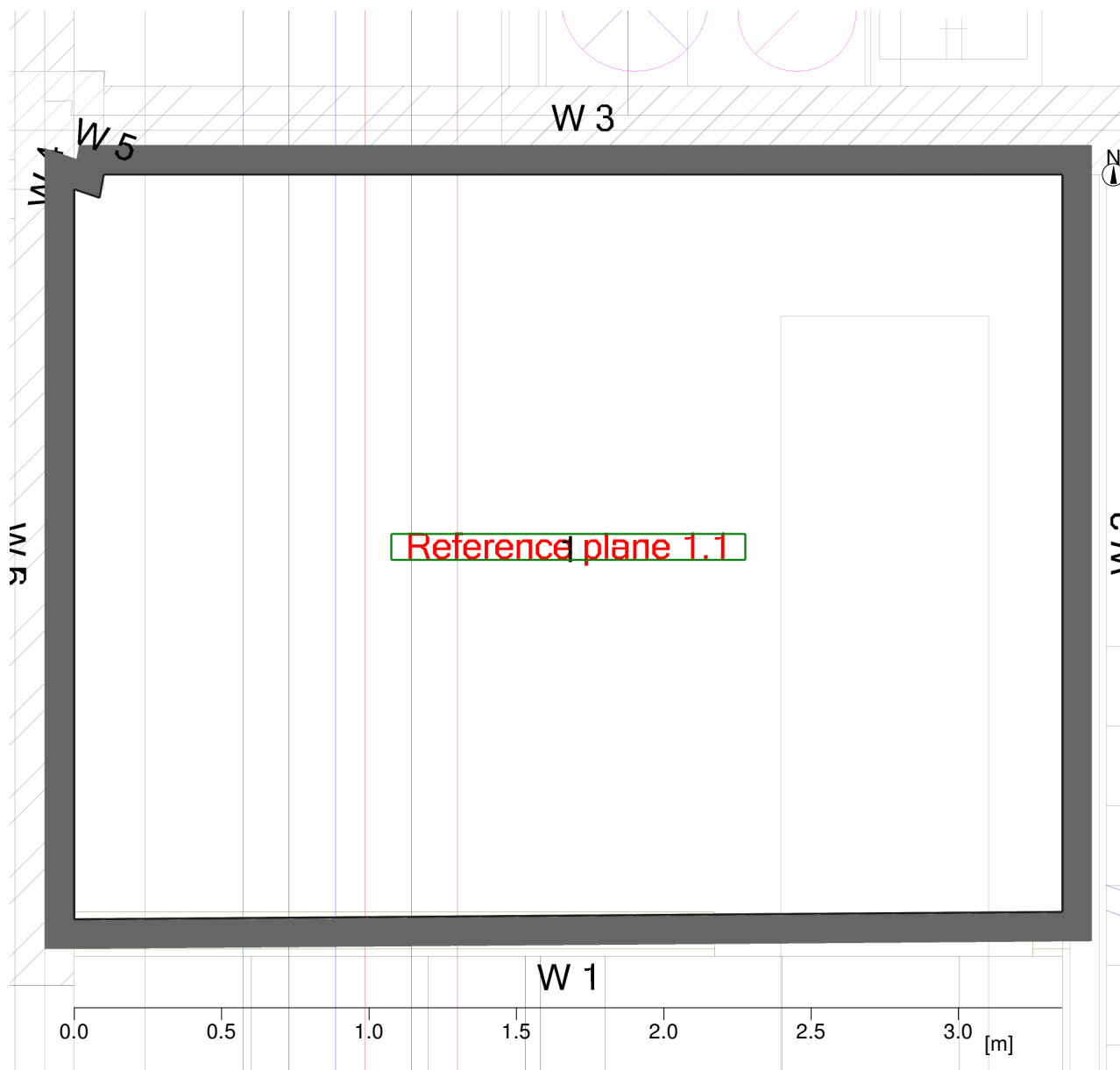
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## 6 113

### 6.1 Description, 113

#### 6.1.1 Floor plan



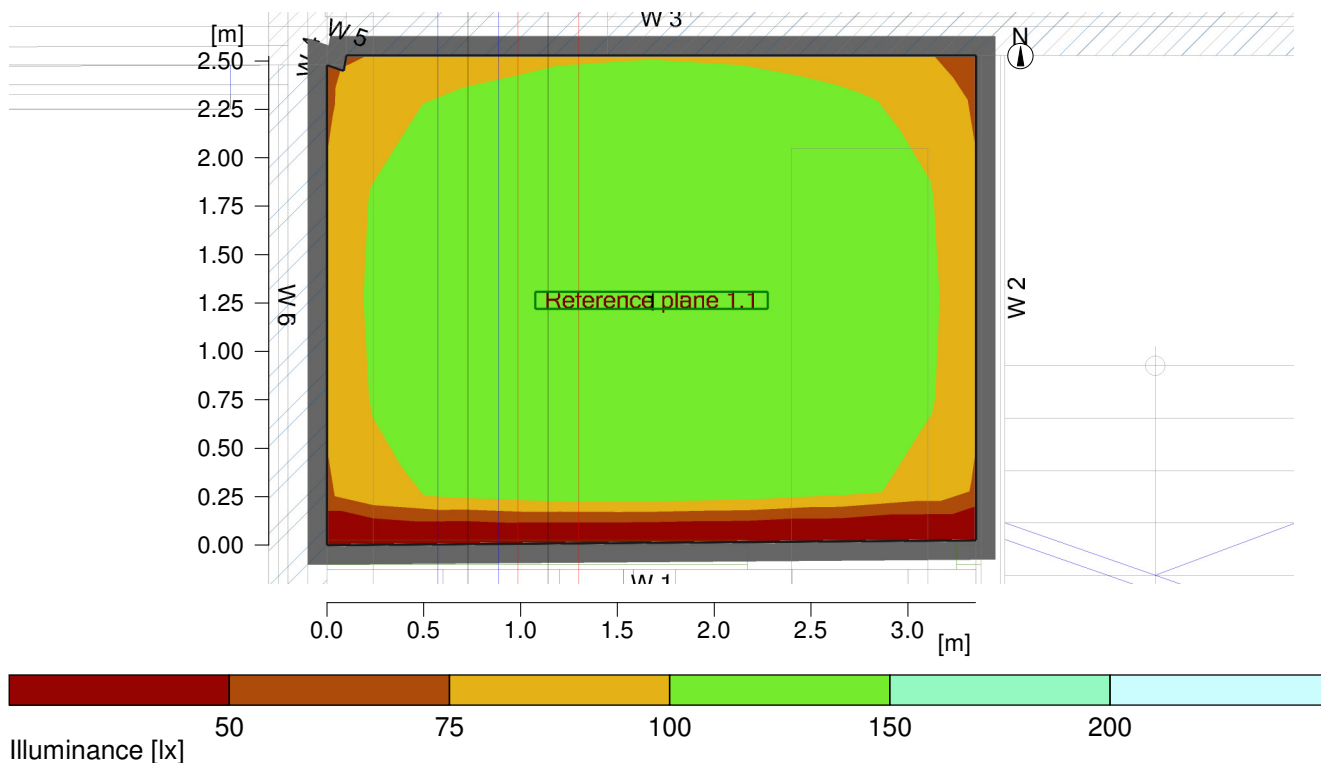
Wall	x	y	Length	Reflectance
1	91.27 m	54.09 m	3.35 m	50.0 %
2	91.27 m	56.59 m	2.50 m	50.0 %
3	88.02 m	56.59 m	3.25 m	50.0 %
4	88.01 m	56.52 m	0.08 m	50.0 %
5	87.92 m	56.54 m	0.09 m	50.0 %
6	87.92 m	54.07 m	2.47 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.55 m		
Height of reference plane		0.00 m		



## 6 113

### 6.2 Summary, 113

#### 6.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.55 m
Maintenance factor	0.80
Total luminous flux of all lamps	4000.00 lm
Total power	36.0 W
Total power per area (8.41 m <sup>2</sup> )	4.28 W/m <sup>2</sup> (3.95 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Store rooms, cold stores  
 5.4.1 (EN 12464-1, 8.2011) Store and stockrooms (Ra >60.00)  
 Horizontal

Em	108 lx	(>= 100 lx)
Emin	87 lx	
Emin/Eav (Uo)	0.81	(>= 0.40)
Emin/Emax (Ud)	0.68	
UGR (2.0H 2.0H)	<=19.7	(< 25.00)
Position	0.00 m	

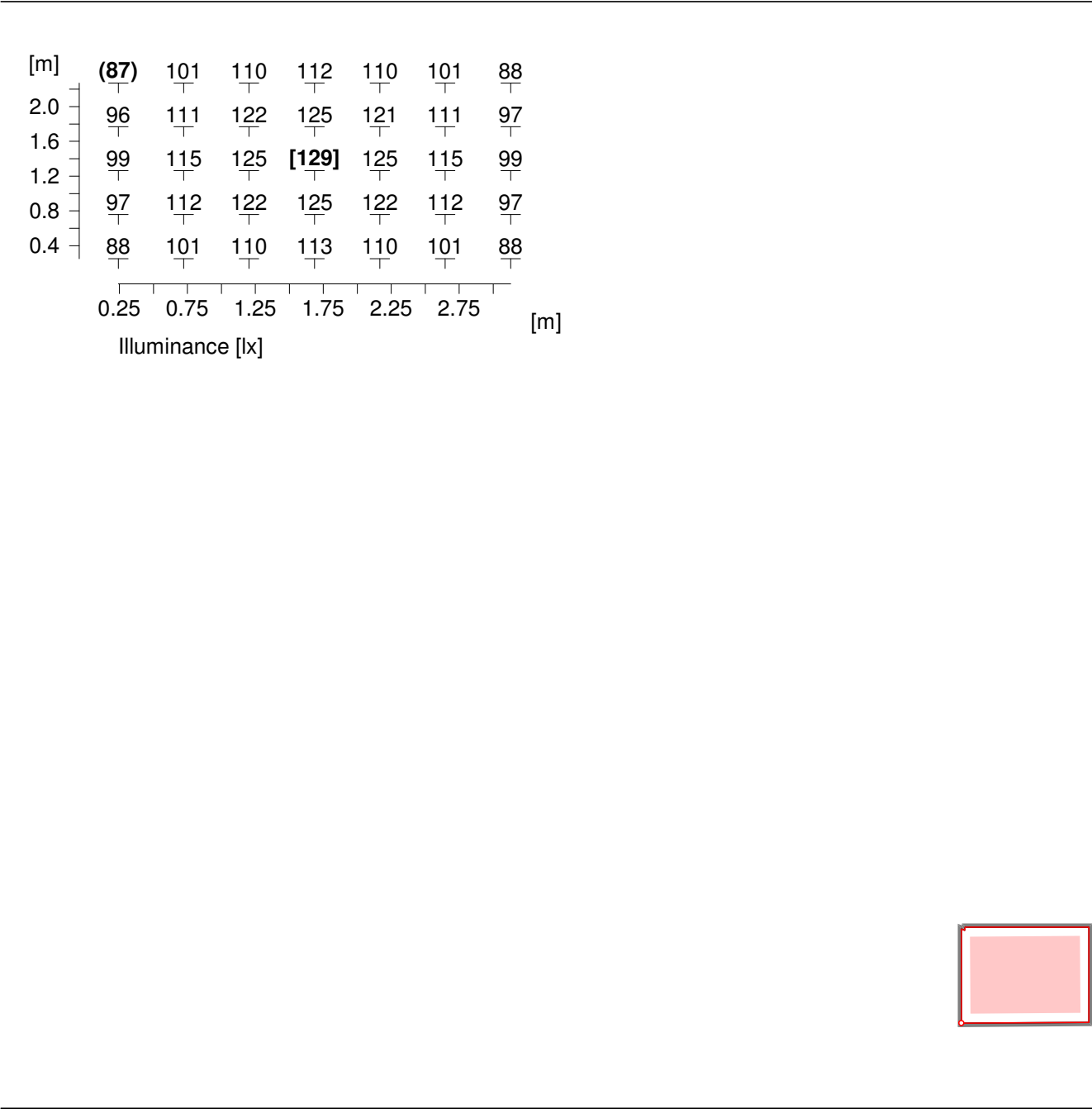
#### Type No.\Make

2	1	<b>TRILUX</b>	
		Order No.	: Olxeon 1200 B 4000-840 ET
		Luminaire name	: TOC 6815440
		Equipment	: 1 x LED 36 W / 4000 lm

6 113

6.3 Calculation results, 113

6.3.1 Table, Reference plane 1.1 (E)

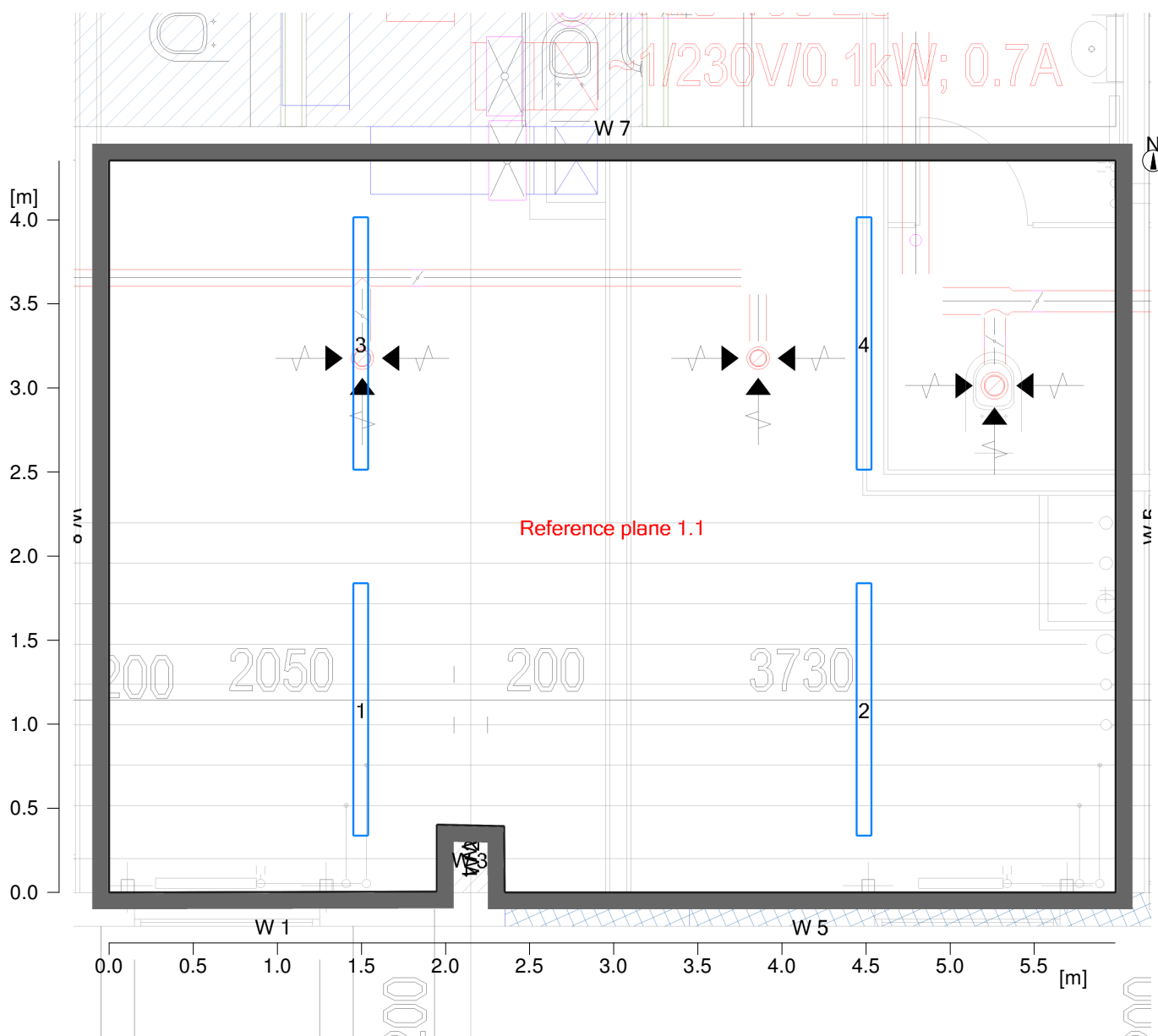


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 108 lx
Minimum illuminance	Emin	: 87 lx
Maximum illuminance	Emax	: 129 lx
Uniformity Uo	Emin/Eav	: 1 : 1.24 (0.81)
Diversity Ud	Emin/Emax	: 1 : 1.47 (0.68)

## 7 128

### 7.1 Description, 128

#### 7.1.1 Floor plan

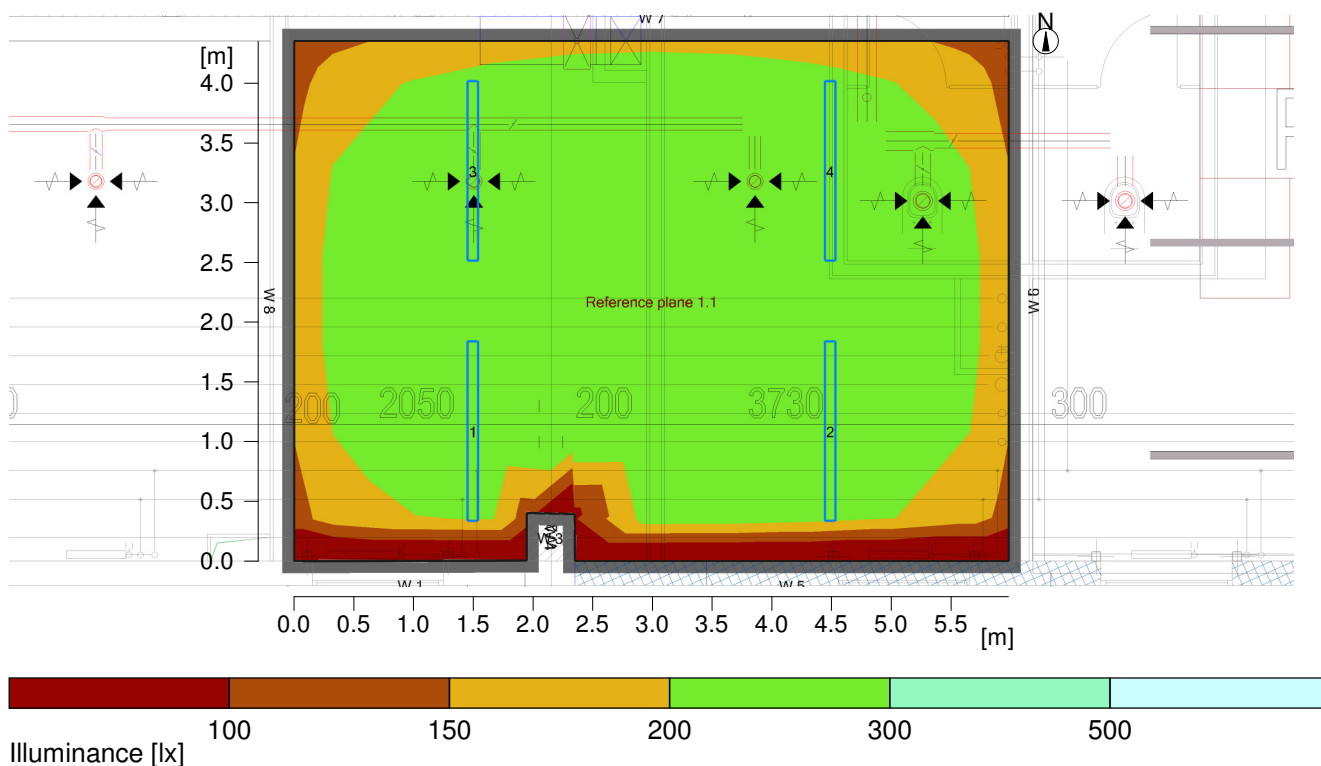


Wall	x	y	Length	Reflectance
1	52.62 m	21.55 m	1.95 m	50.0 %
2	52.62 m	21.95 m	0.40 m	50.0 %
3	53.02 m	21.94 m	0.40 m	50.0 %
4	53.02 m	21.54 m	0.39 m	50.0 %
5	56.65 m	21.54 m	3.63 m	50.0 %
6	56.65 m	25.89 m	4.35 m	50.0 %
7	50.67 m	25.89 m	5.98 m	50.0 %
8	50.67 m	21.54 m	4.35 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.50 m		
Height of reference plane		0.00 m		

## 7 128

### 7.2 Summary, 128

#### 7.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 3.50 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (25.85 m<sup>2</sup>)

15200.00 lm  
 124.0 W  
 4.80 W/m<sup>2</sup> (2.13 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Control rooms  
 5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)  
 Horizontal

Em 225 lx (>= 200 lx)  
 Emin 164 lx  
 Emin/Eav (Uo) 0.73 (>= 0.40)  
 Emin/Emax (Ud) 0.60  
 UGR (1.9H 2.6H) <=19.7 (< 25.00)  
 Position 0.00 m

#### Type No.\Make

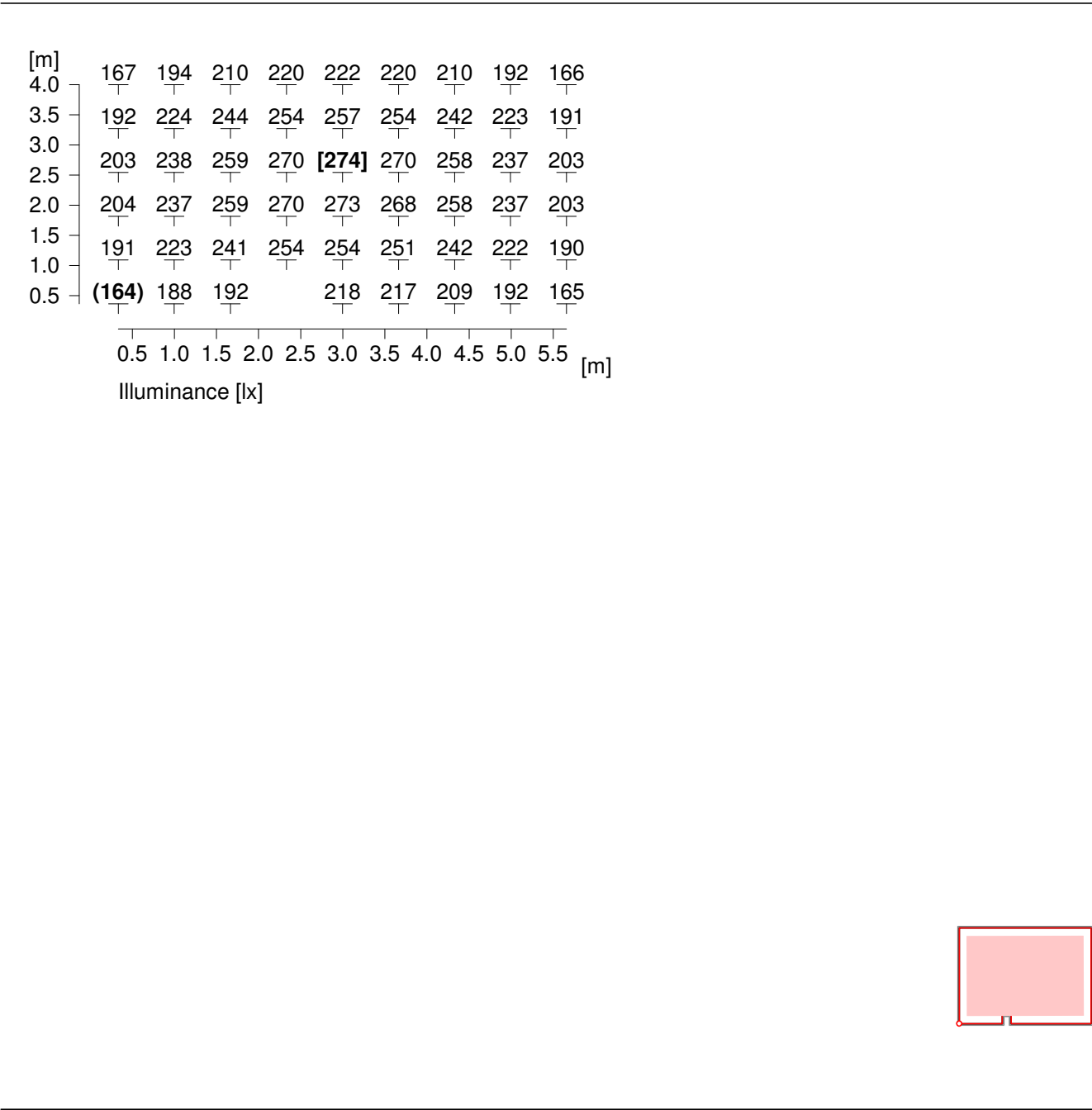
##### TRILUX

3 4 Order No. : Olxeon 1500 B 4000-840 ET  
 Luminaire name : TOC 6815640  
 Equipment : 1 x LED 31 W / 3800 lm

7 128

7.3 Calculation results, 128

7.3.1 Table, Reference plane 1.1 (E)

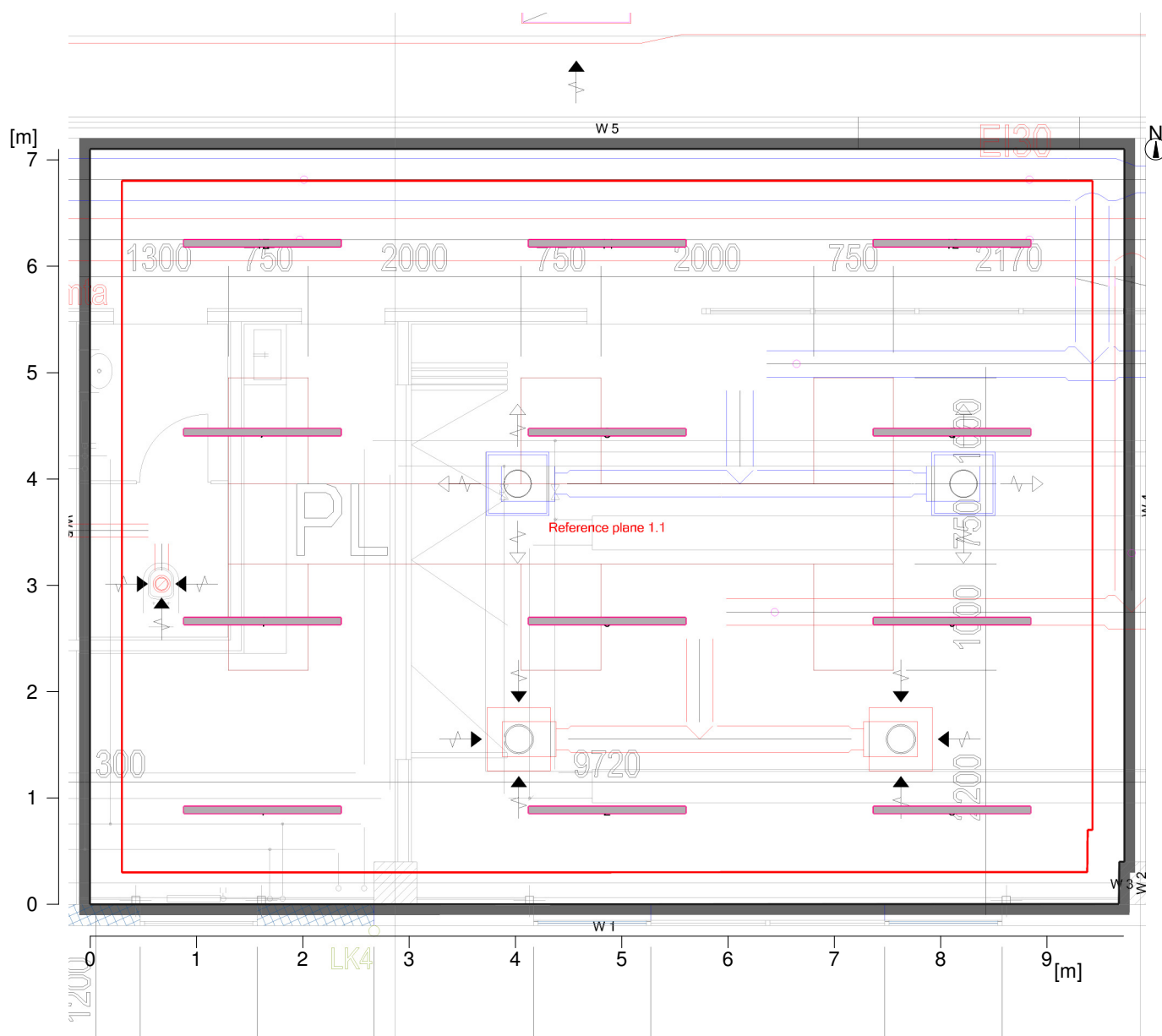


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 225 lx
Minimum illuminance	Emin	: 164 lx
Maximum illuminance	Emax	: 274 lx
Uniformity Uo	Emin/Eav	: 1 : 1.37 (0.73)
Diversity Ud	Emin/Emax	: 1 : 1.67 (0.60)

## 8 120

### 8.1 Description, 120

#### 8.1.1 Floor plan

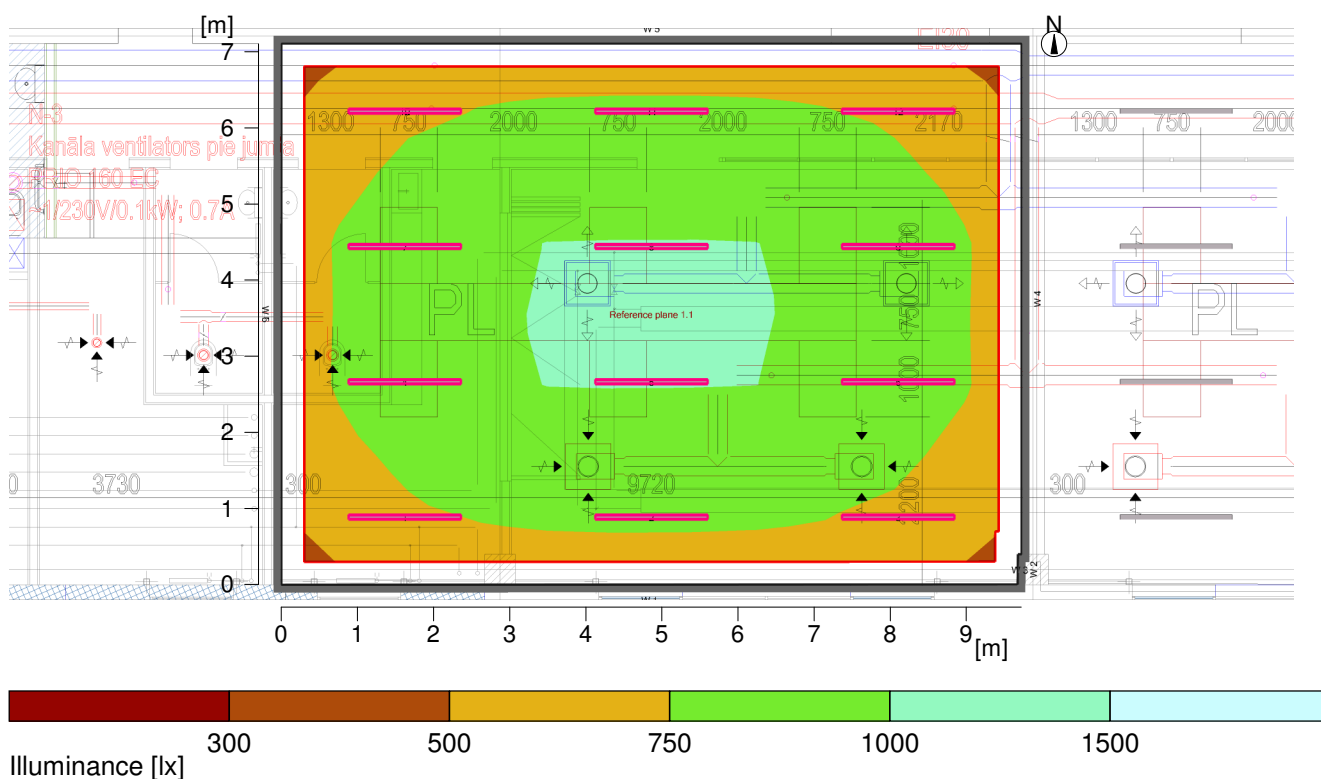


Wall	x	y	Length	Reflectance
1	66.62 m	21.55 m	9.67 m	50.0 %
2	66.62 m	21.94 m	0.40 m	50.0 %
3	66.67 m	21.94 m	0.05 m	50.0 %
4	66.67 m	28.64 m	6.70 m	50.0 %
5	56.95 m	28.64 m	9.72 m	50.0 %
6	56.95 m	21.54 m	7.10 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.50 m		
Height of reference plane		----		

## 8 120

### 8.2 Summary, 120

#### 8.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 3.50 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (68.98 m<sup>2</sup>)

79200.00 lm  
 492.0 W  
 7.13 W/m<sup>2</sup> (0.89 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Industrial activities and crafts - Electrical and electronic industry  
 5.11.5 (EN 12464-1, 8.2011) Assembly work: fine, e.g. telephones, radios, IT equipment (computers) (Ra >80.00)  
 Horizontal  
 Em 798 lx (>= 750 lx)  
 Emin 558 lx  
 Emin/Eav (Uo) 0.70 (>= 0.70)  
 Emin/Emax (Ud) 0.58  
 UGR (3.2H 4.3H) <=22.4 (< 19.00)  
 Position 0.75 m (rot: 0°/0.02°)

#### Type No.\Make

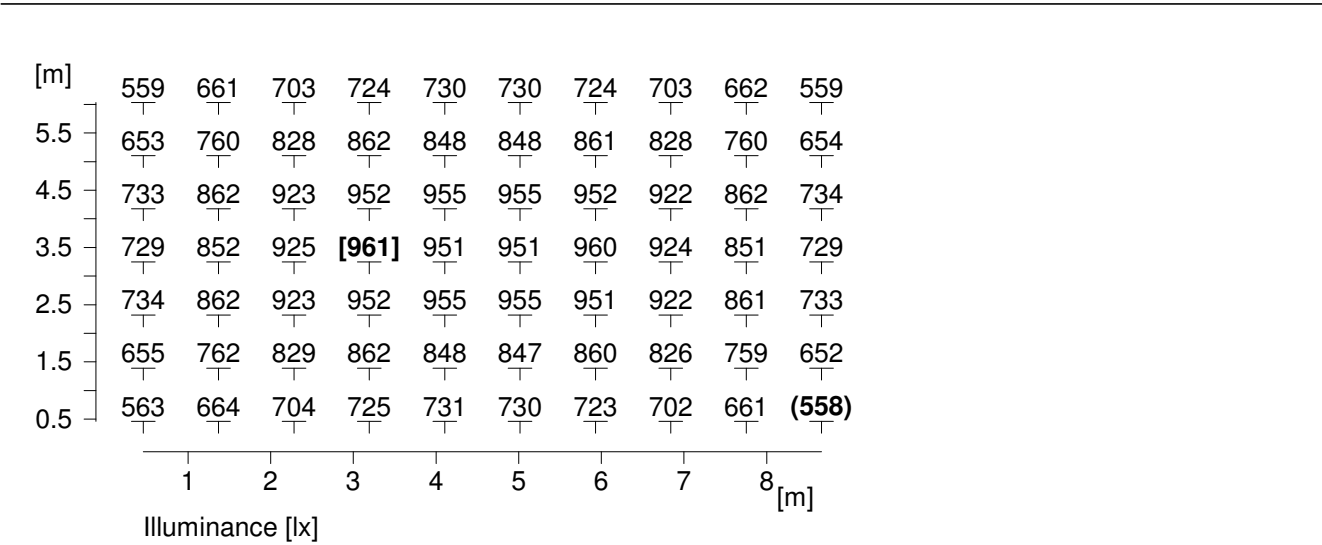
11	12	<b>TRILUX</b>	
		Order No.	: 6239340
		Luminaire name	: E-Line B LED6500-840
		Equipment	: 1 x 41 W / 6600 lm



8 120

8.3 Calculation results, 120

8.3.1 Table, Reference plane 1.1 (E)

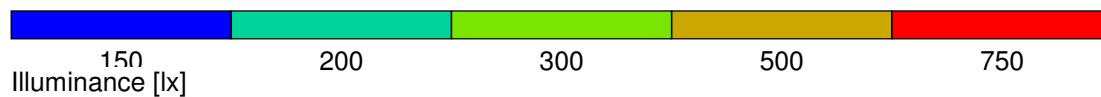
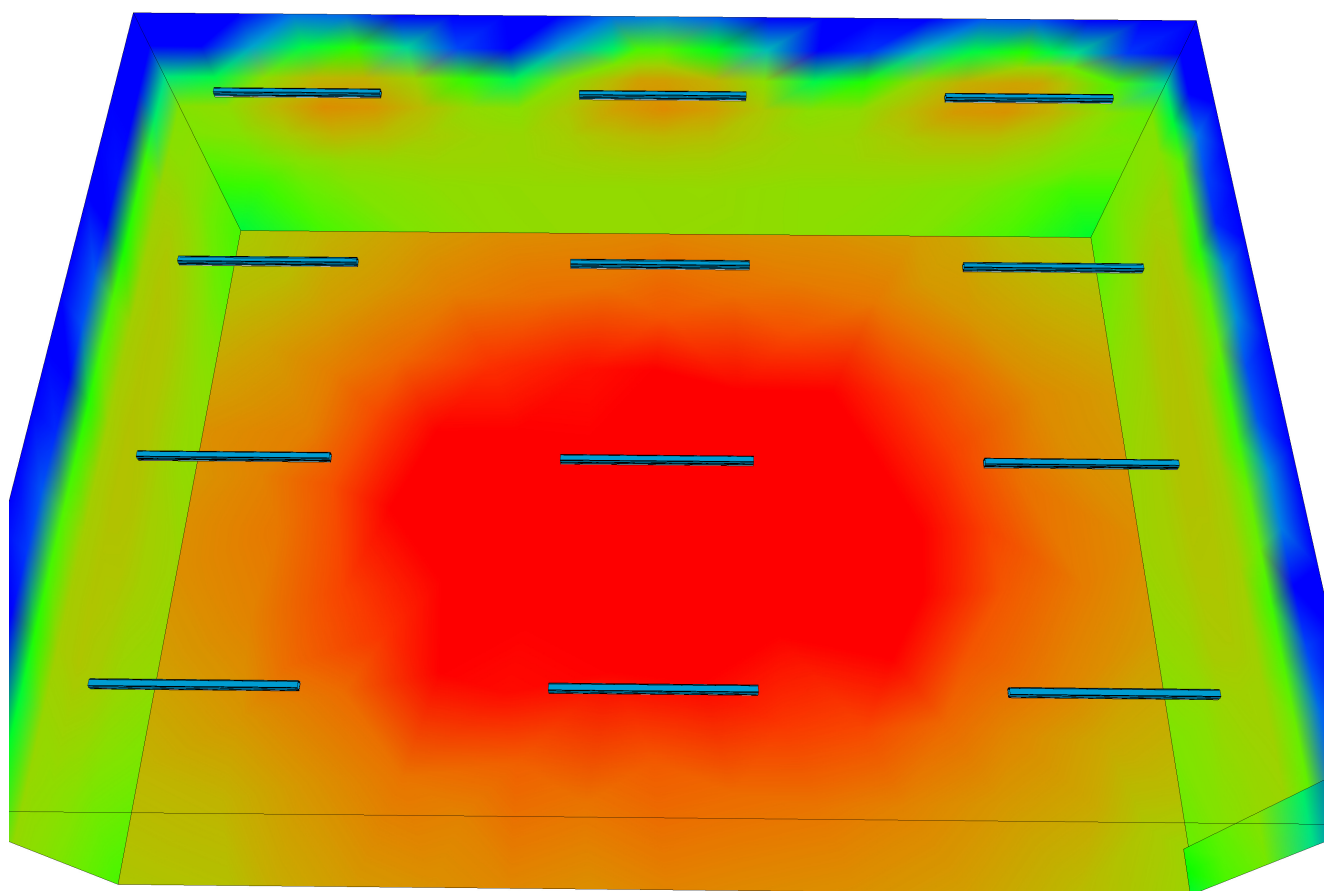


Average illuminance	Eav	: 798 lx
Minimum illuminance	Emin	: 558 lx
Maximum illuminance	Emax	: 961 lx
Uniformity Uo	Emin/Eav	: 1 : 1.43 (0.70)
Diversity Ud	Emin/Emax	: 1 : 1.72 (0.58)

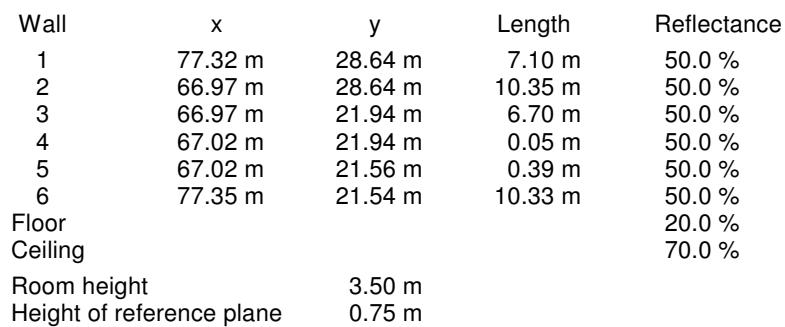
### 8.3 Calculation results, 120

#### 8.3.2 3D pseudo colours, View 1 (E)

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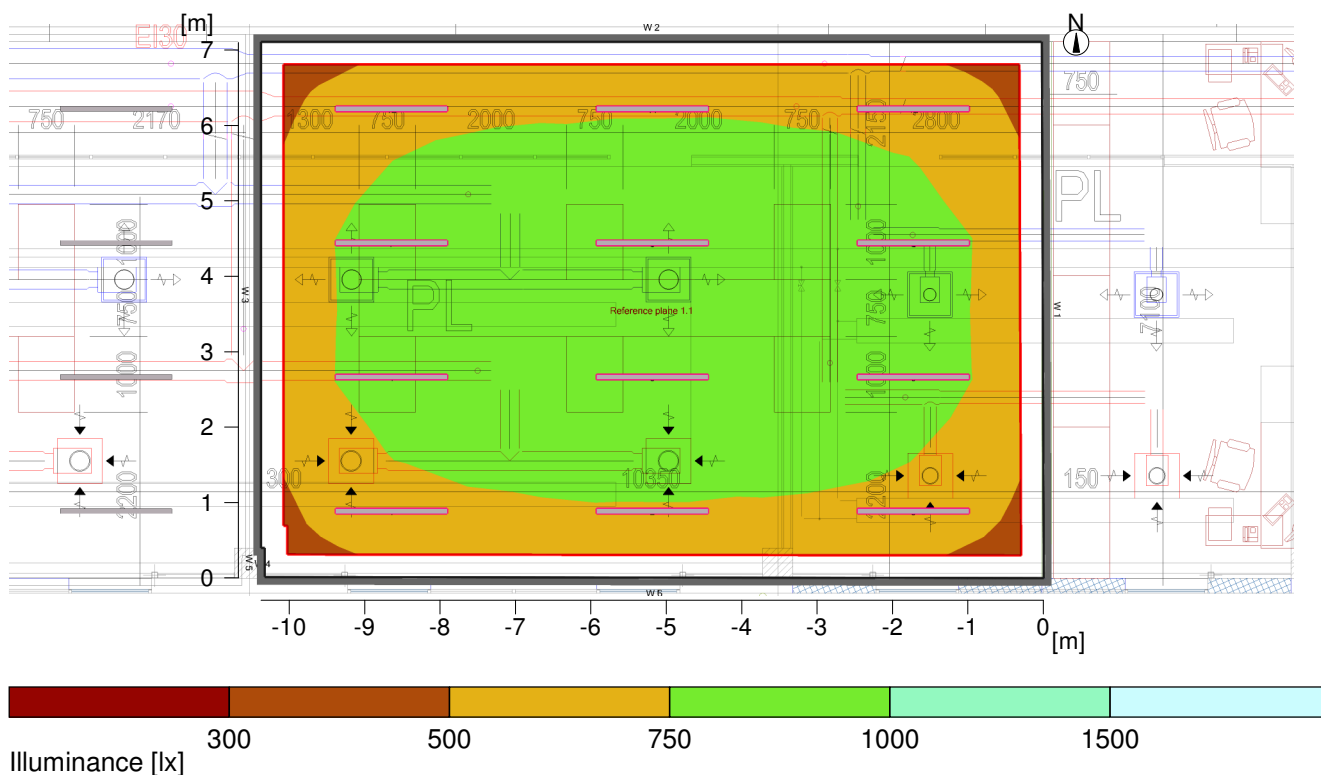
### 9.1.1 Floor plan



## 9 119

### 9.2 Summary, 119

#### 9.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 3.50 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (73.48 m<sup>2</sup>)

79200.00 lm  
 492.0 W  
 6.70 W/m<sup>2</sup> (0.89 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Industrial activities and crafts - Electrical and electronic industry  
 5.11.5 (EN 12464-1, 8.2011) Assembly work: fine, e.g. telephones, radios, IT equipment (computers) (Ra >80.00)

Horizontal

Em 750 lx (>= 750 lx)  
 Emin 511 lx  
 Emin/Eav (Uo) 0.68 (>= 0.70)  
 Emin/Emax (Ud) 0.56  
 UGR (3.2H 4.6H) <=22.4 (< 19.00)  
 Position 0.75 m

#### Type No.\Make

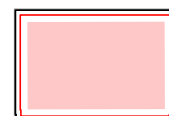
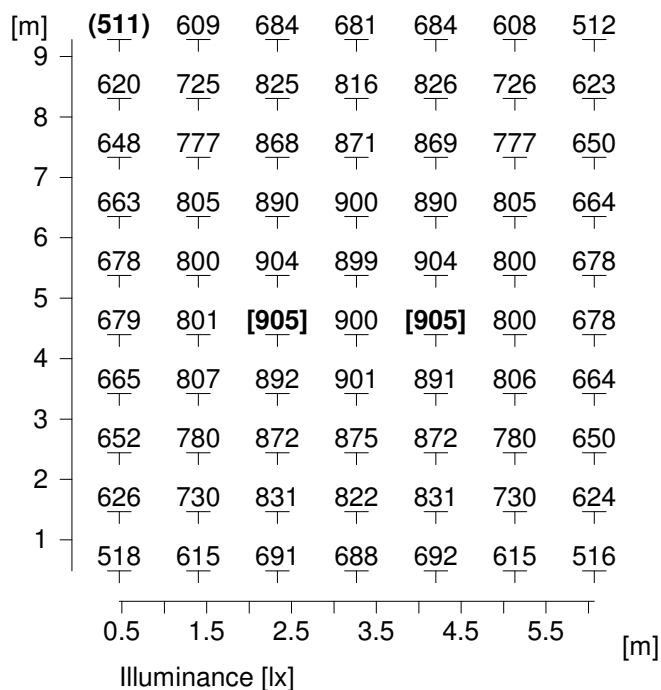
#### TRILUX

11 12 Order No. : 6239340  
 Luminaire name : E-Line B LED6500-840  
 Equipment : 1 x 41 W / 6600 lm

## 9 119

### 9.3 Calculation results, 119

#### 9.3.1 Table, Reference plane 1.1 (E)

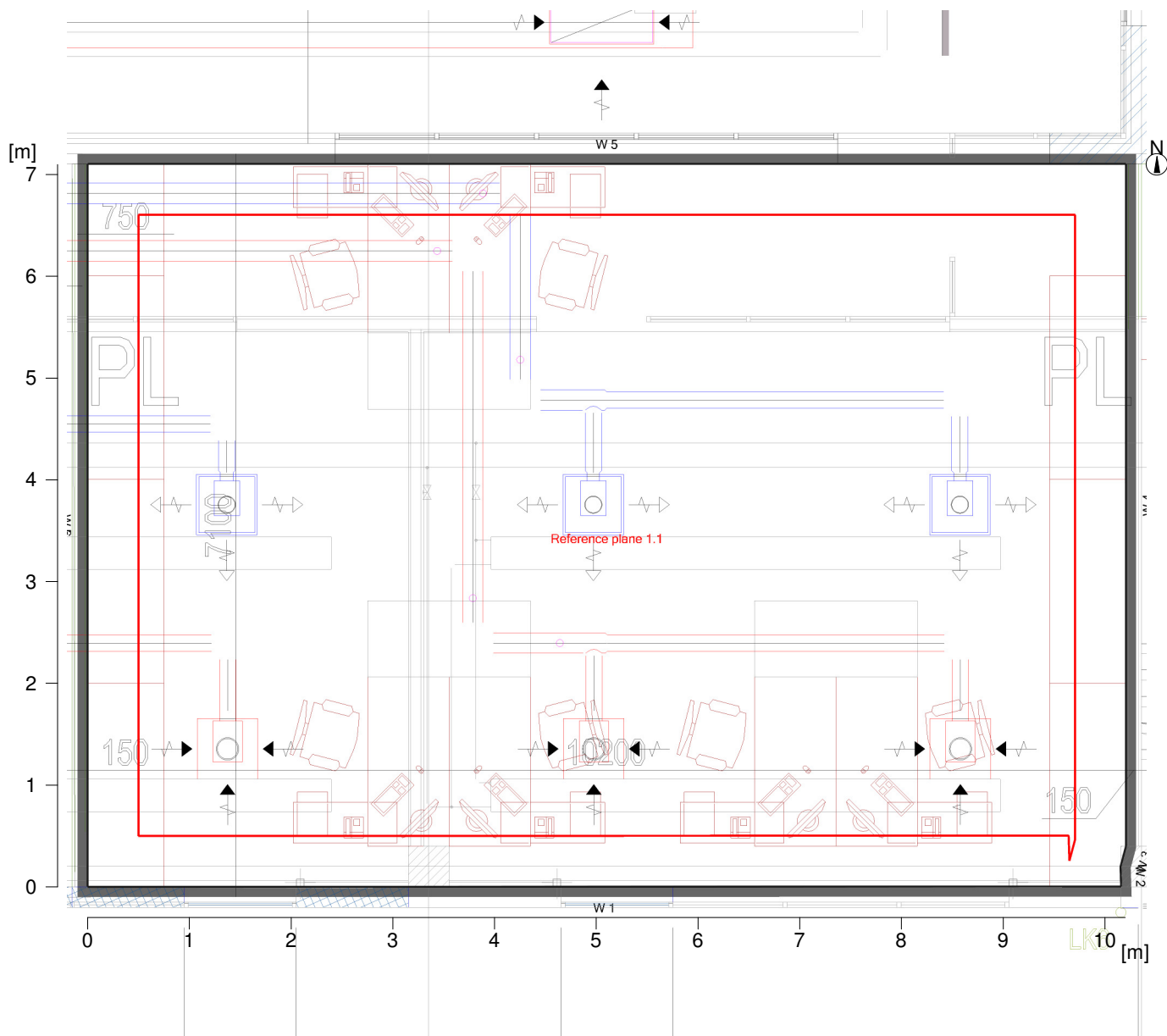


Height of the reference plane	: 0.75 m
Average illuminance	Eav : 750 lx
Minimum illuminance	Emin : 511 lx
Maximum illuminance	Emax : 905 lx
Uniformity Uo	Emin/Eav : 1 : 1.47 (0.68)
Diversity Ud	Emin/Emax : 1 : 1.77 (0.56)

## 10 118

### 10.1 Description, 118

#### 10.1.1 Floor plan

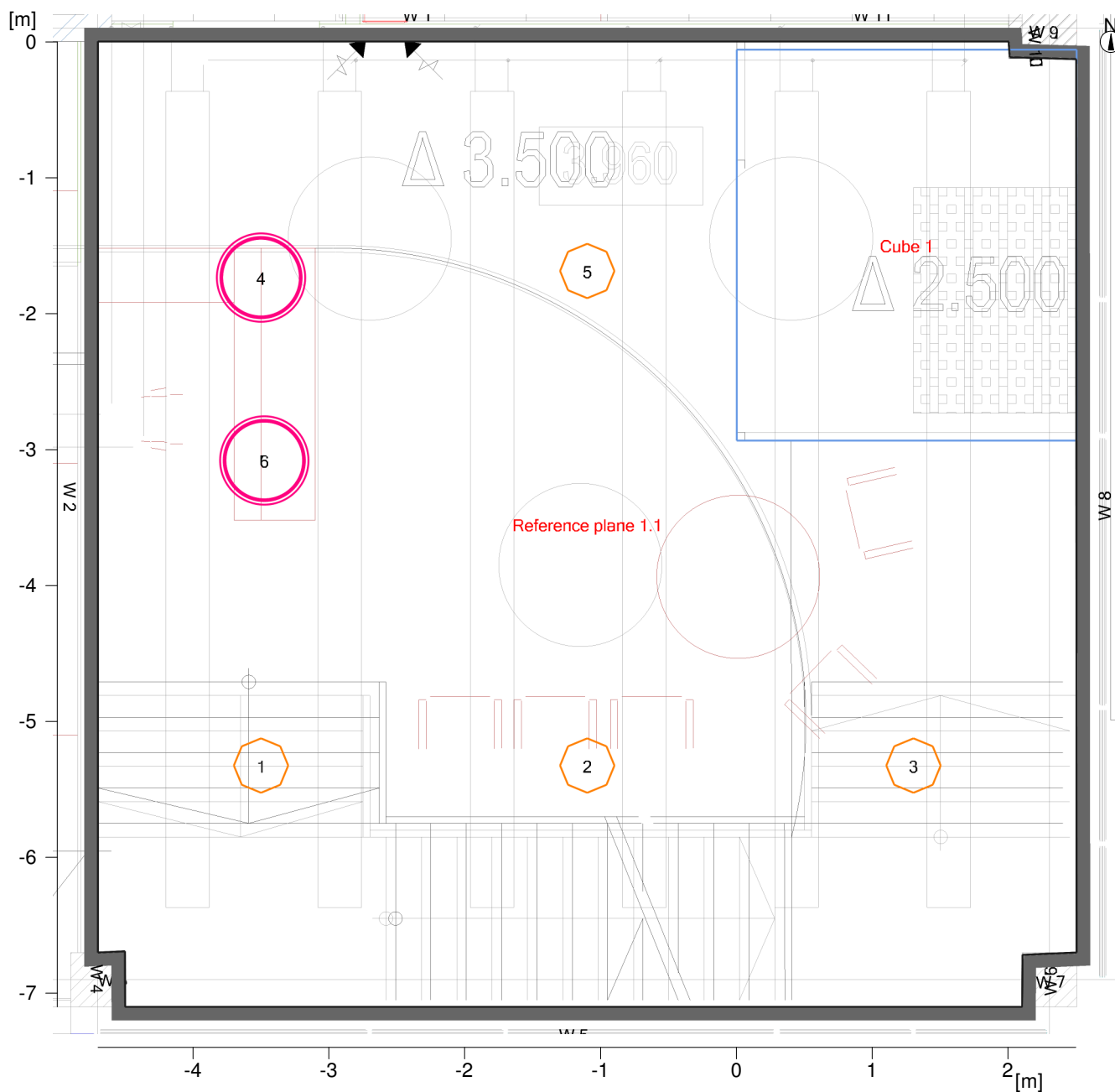


Wall	x	y	Length	Reflectance
1	87.62 m	21.55 m	10.15 m	50.0 %
2	87.62 m	21.74 m	0.20 m	50.0 %
3	87.67 m	21.94 m	0.21 m	50.0 %
4	87.67 m	28.64 m	6.70 m	50.0 %
5	77.47 m	28.64 m	10.20 m	50.0 %
6	77.47 m	21.54 m	7.10 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.50 m		
Height of reference plane		----		

## 11 102

### 11.1 Description, 102

#### 11.1.1 Floor plan





Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018



## 11 102

### 11.1 Description, 102

#### 11.1.1 Floor plan

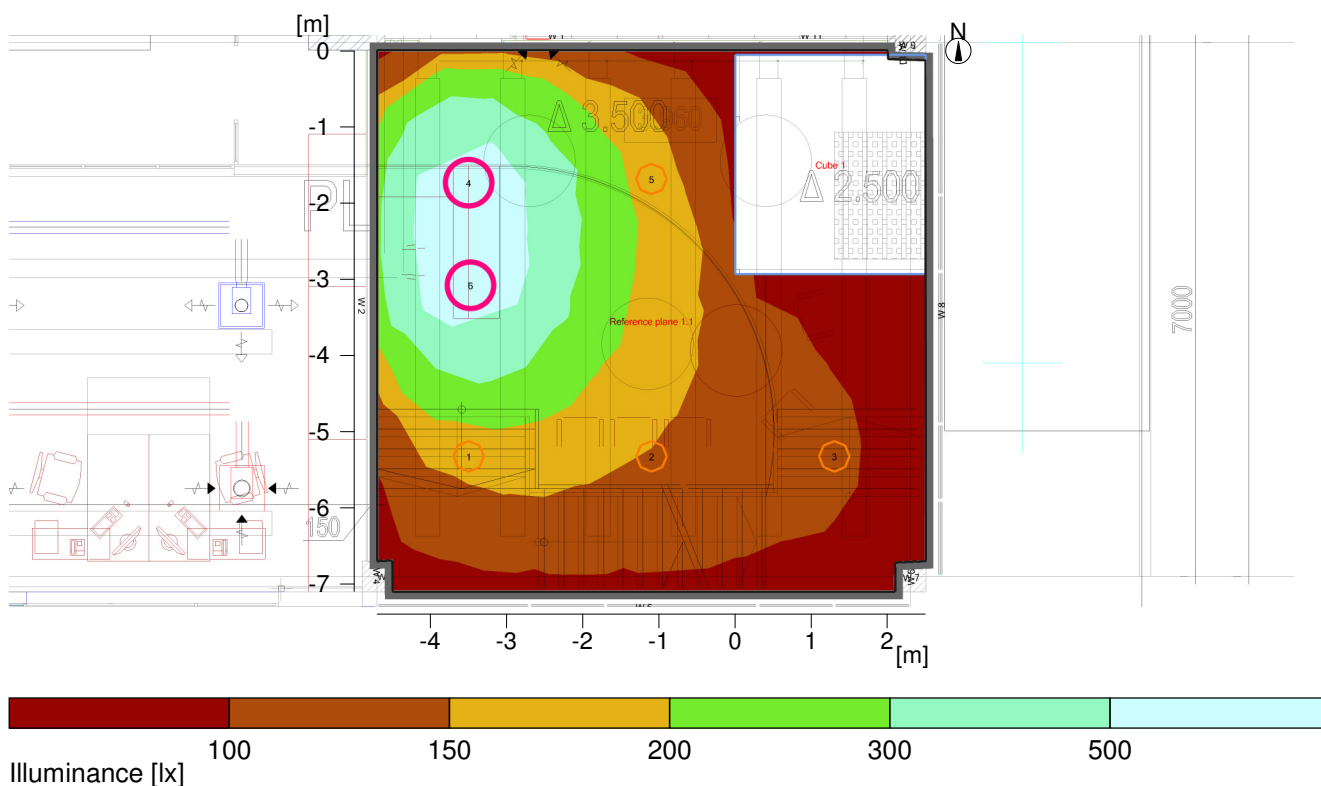
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Wall	x	y	Length	Reflectance
1	87.82 m	28.64 m	4.70 m	50.0 %
2	87.82 m	21.94 m	6.70 m	50.0 %
3	88.02 m	21.95 m	0.20 m	50.0 %
4	88.02 m	21.54 m	0.41 m	50.0 %
5	94.62 m	21.54 m	6.60 m	50.0 %
6	94.62 m	21.93 m	0.38 m	50.0 %
7	95.02 m	21.94 m	0.40 m	50.0 %
8	95.02 m	28.51 m	6.57 m	50.0 %
9	94.53 m	28.53 m	0.49 m	50.0 %
10	94.52 m	28.64 m	0.12 m	50.0 %
11	92.52 m	28.64 m	2.00 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.50 m		
Height of reference plane		0.00 m		

## 11 102

### 11.2 Summary, 102

#### 11.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Maintenance factor

High indirect fraction  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (50.81 m<sup>2</sup>)

20000.00 lm  
 168.0 W  
 3.31 W/m<sup>2</sup> (1.70 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Traffic zones inside buildings  
 5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)  
 Horizontal

Em 194 lx (>= 100 lx)  
 Emin 63 lx  
 Emin/Eav (Uo) 0.32 (>= 0.40)  
 Emin/Emax (Ud) 0.08  
 Position 0.00 m

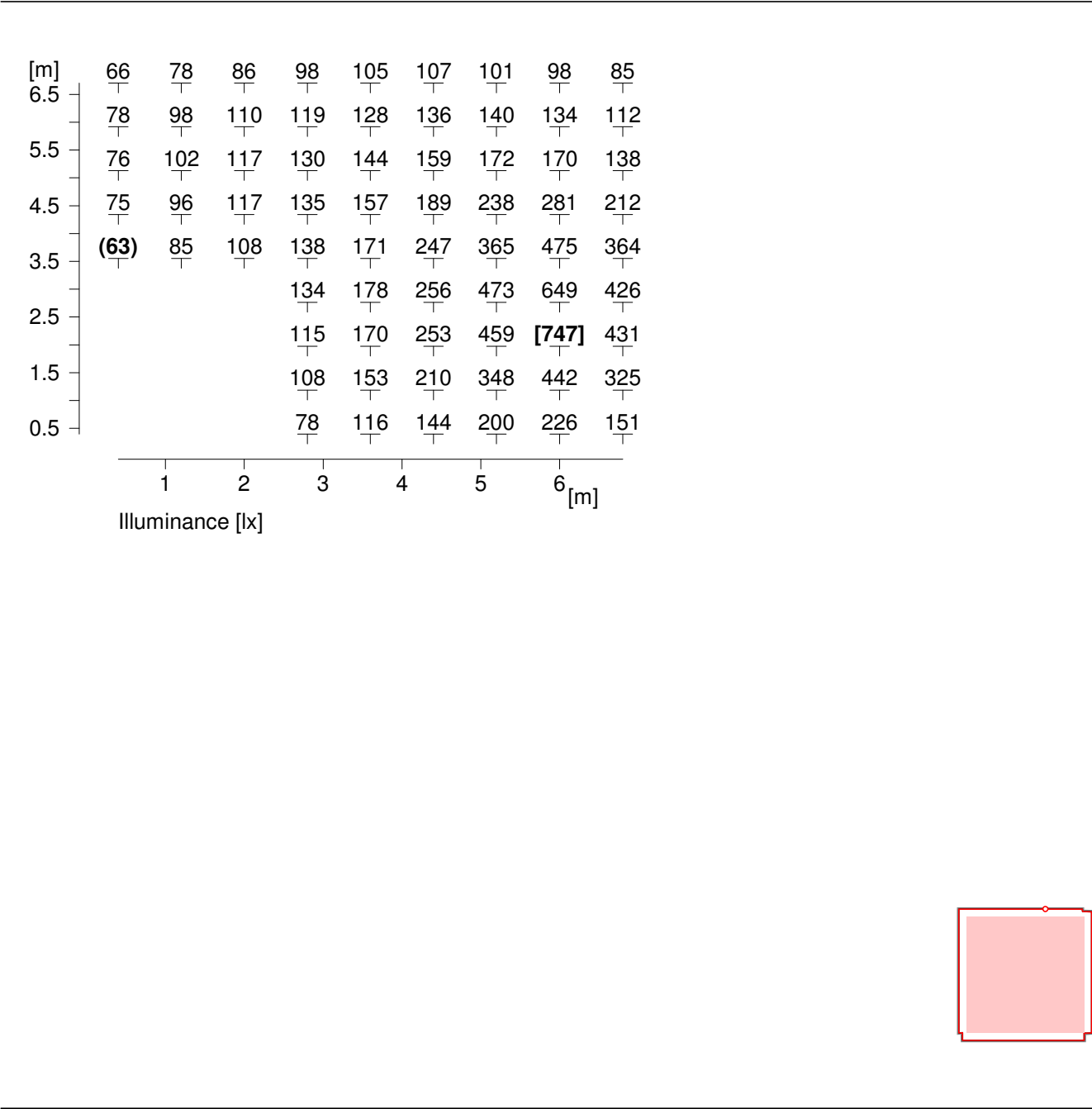
#### Type No. Make

5	4	<b>TRILUX</b>	
		Order No.	: PolaronIQ H2D LED2000-840 2,0m ET
		Luminaire name	: TOC 6334940
		Equipment	: 1 x LED 17 W / 2000 lm
6	2	Order No.	: Lateralor H1 BLGS 6000-840 01 ETDD
		Luminaire name	: TOC 6367251
		Equipment	: 1 x LED 50 W / 6000 lm

11 102

11.3 Calculation results, 102

11.3.1 Table, Reference plane 1.1 (E)

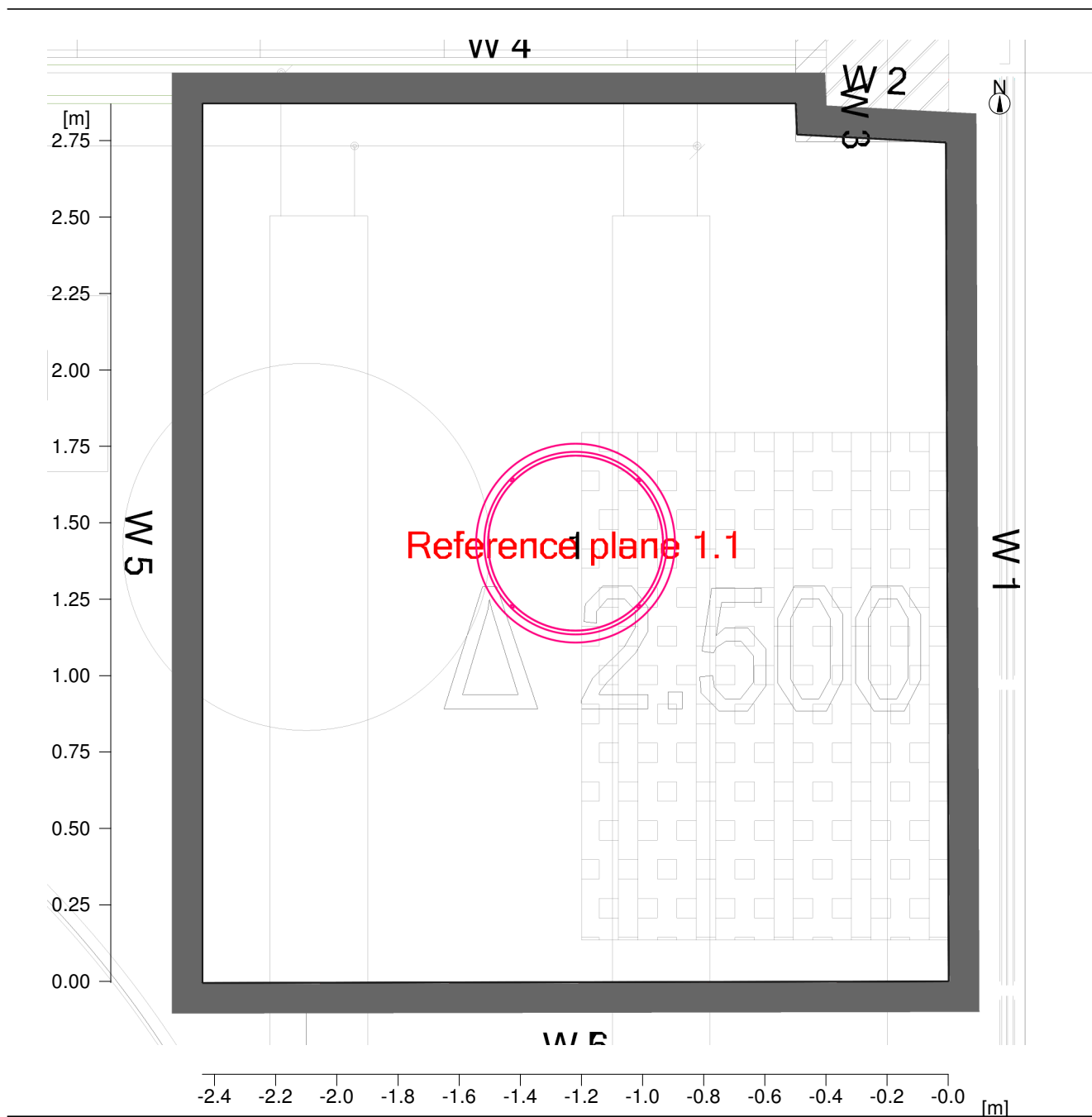


Height of the reference plane	: 0.00 m
Average illuminance	Eav : 194 lx
Minimum illuminance	Emin : 63 lx
Maximum illuminance	Emax : 747 lx
Uniformity Uo	Emin/Eav : 1 : 3.10 (0.32)
Diversity Ud	Emin/Emax : 1 : 11.95 (0.08)

## 12 101

### 12.1 Description, 101

#### 12.1.1 Floor plan

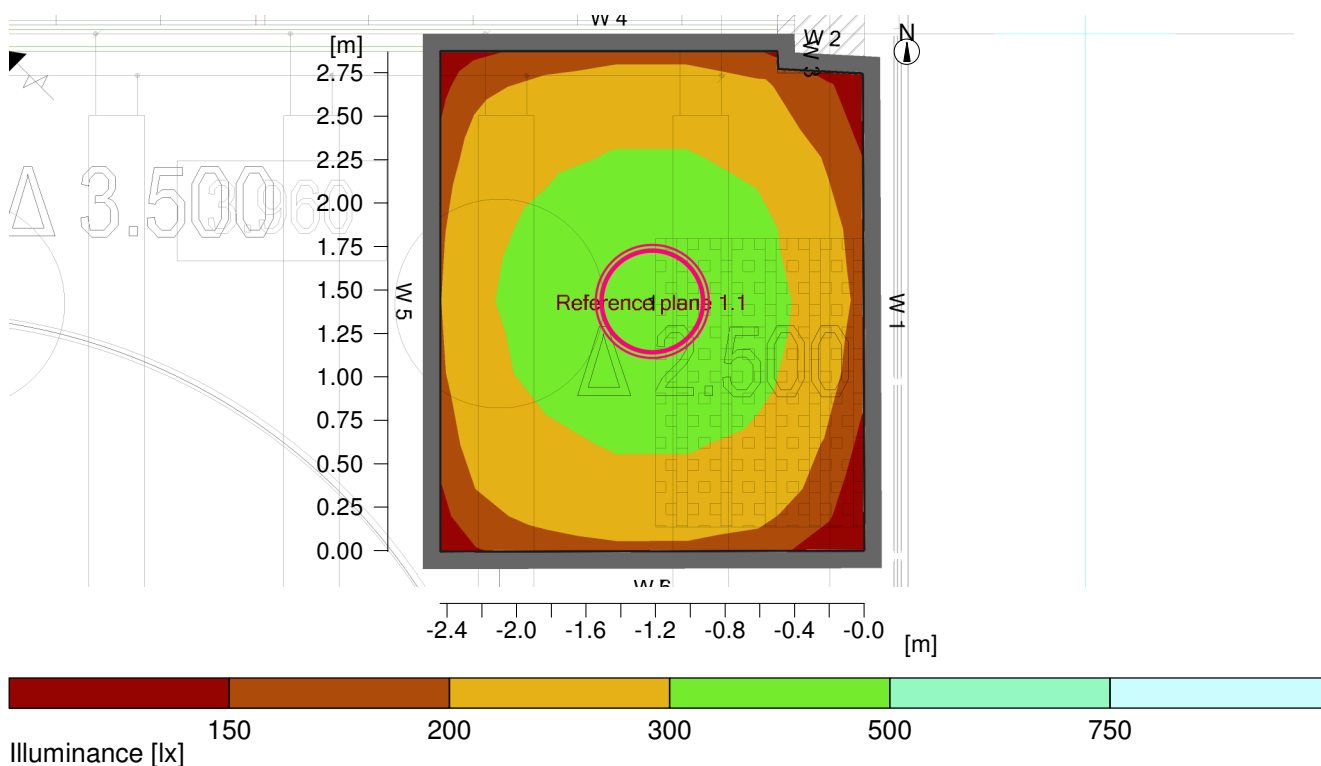


Wall	x	y	Length	Reflectance
1	95.01 m	28.52 m	2.74 m	50.0 %
2	94.53 m	28.54 m	0.49 m	50.0 %
3	94.52 m	28.64 m	0.10 m	50.0 %
4	92.58 m	28.64 m	1.94 m	50.0 %
5	92.58 m	25.77 m	2.88 m	50.0 %
6	95.02 m	25.77 m	2.44 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

## 12 101

### 12.2 Summary, 101

#### 12.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	High indirect fraction
Height of luminaire plane	2.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	6000.00 lm
Total power	50.0 W
Total power per area (6.94 m²)	7.20 W/m² (2.72 W/m²/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Traffic zones inside buildings  
 5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)  
 Horizontal

Em	265 lx	(>= 100 lx)
Emin	148 lx	
Emin/Eav (Uo)	0.56	(>= 0.40)
Emin/Emax (Ud)	0.34	
UGR (3.1H 3.6H)	<=16.8	(< 28.00)
Position	0.00 m	

#### Type No.\Make



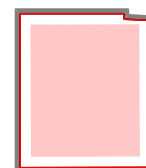
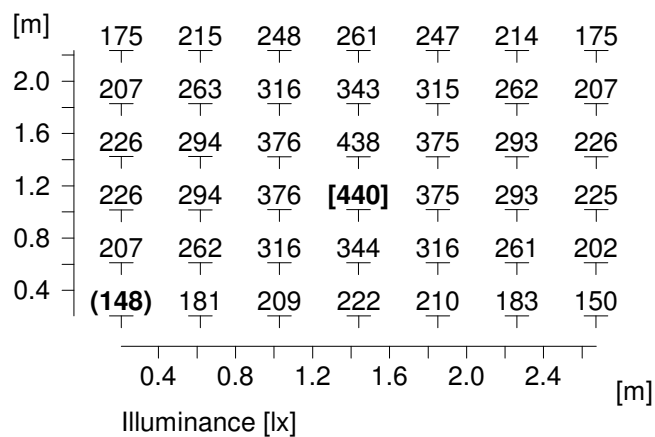
#### TRILUX

Order No. : Lateralor H1 BLGS 6000-840 01 ETDD  
 Luminaire name : TOC 6367251  
 Equipment : 1 x LED 50 W / 6000 lm

## 12 101

### 12.3 Calculation results, 101

#### 12.3.1 Table, Reference plane 1.1 (E)

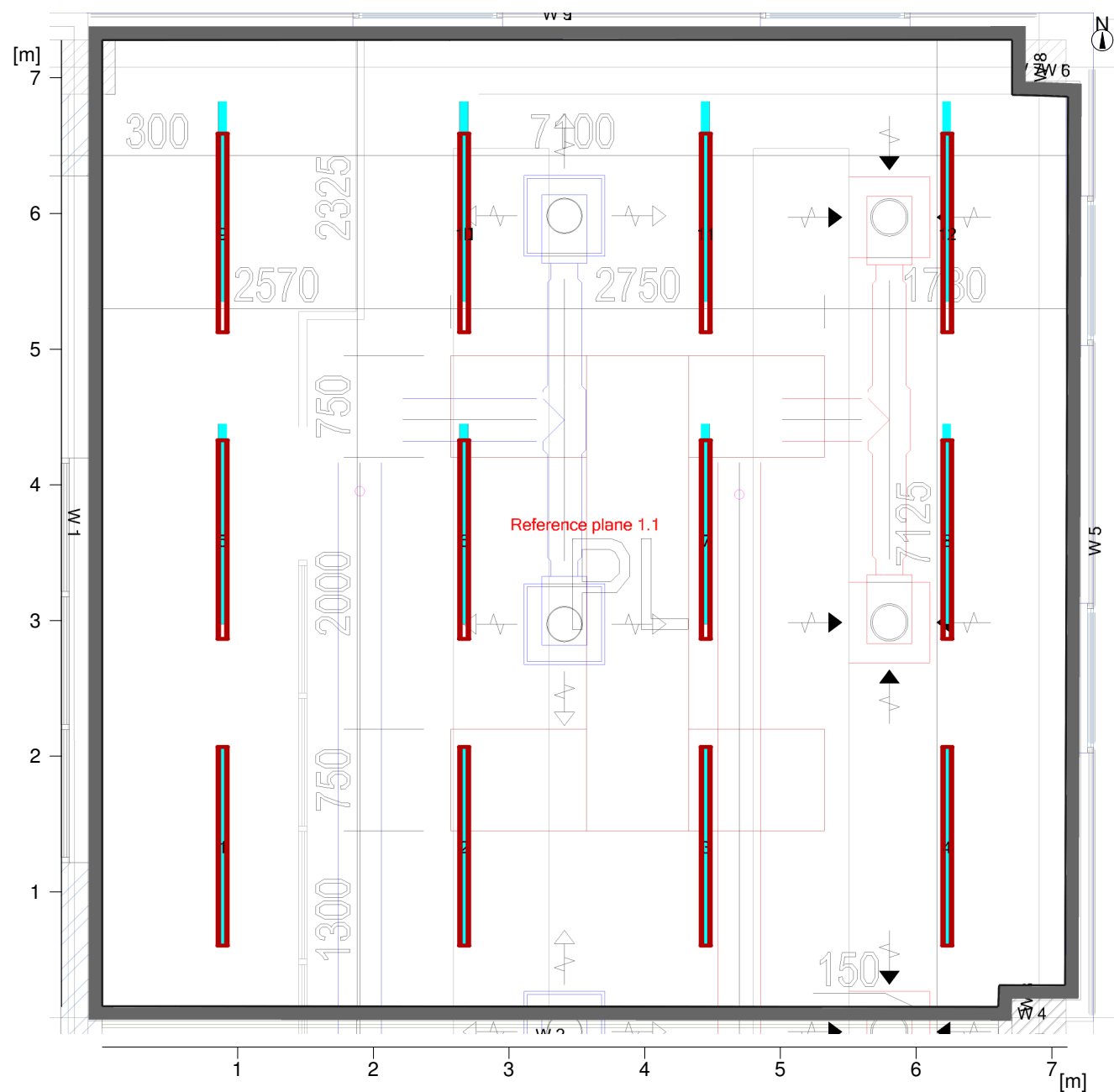


Height of the reference plane	: 0.00 m
Average illuminance	Eav : 265 lx
Minimum illuminance	Emin : 148 lx
Maximum illuminance	Emax : 440 lx
Uniformity Uo	Emin/Eav : 1 : 1.79 (0.56)
Diversity Ud	Emin/Emax : 1 : 2.98 (0.34)

## 13 115

### 13.1 Description, 115

#### 13.1.1 Floor plan



Object : VATP-7  
Installation : Apgaismojums  
Project number : 1  
Date : 18.01.2018



## 13 115

### 13.1 Description, 115

#### 13.1.1 Floor plan

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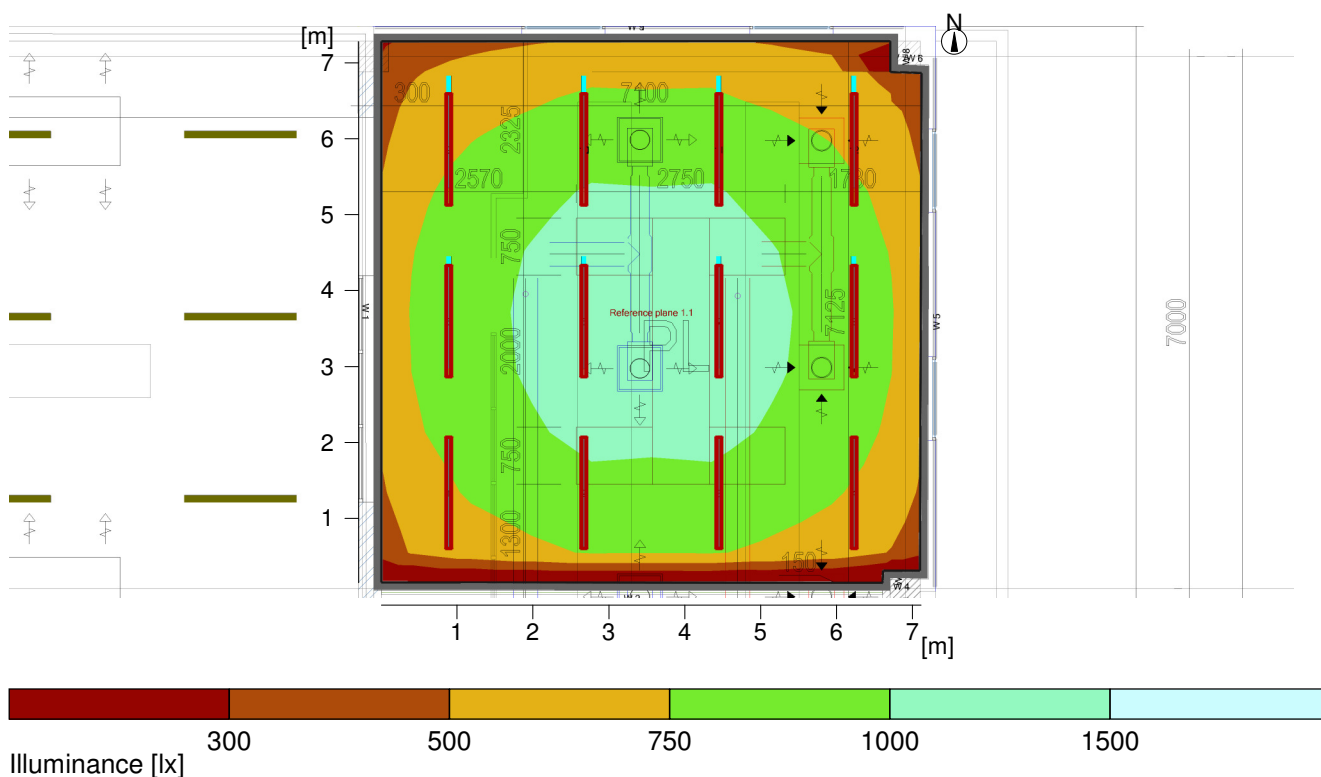
Wall	x	y	Length	Reflectance
1	87.93 m	63.83 m	7.11 m	50.0 %
2	94.52 m	63.82 m	6.60 m	50.0 %
3	94.53 m	63.98 m	0.16 m	50.0 %
4	95.01 m	63.98 m	0.49 m	50.0 %
5	95.04 m	70.53 m	6.54 m	50.0 %
6	94.84 m	70.53 m	0.20 m	50.0 %
7	94.62 m	70.54 m	0.21 m	50.0 %
8	94.62 m	70.95 m	0.41 m	50.0 %
9	87.93 m	70.94 m	6.70 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.55 m		
Height of reference plane		0.75 m		



## 13 115

### 13.2 Summary, 115

#### 13.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 3.55 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (50.30 m<sup>2</sup>)

64800.00 lm  
 420.0 W  
 8.35 W/m<sup>2</sup> (1.04 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

Industrial activities and crafts - Electrical and electronic industry  
 5.11.5 (EN 12464-1, 8.2011) Assembly work: fine, e.g. telephones, radios, IT equipment (computers) (Ra >80.00)  
 Horizontal

Em 805 lx (>= 750 lx)  
 Emin 451 lx  
 Emin/Eav (Uo) 0.56 (>= 0.70)  
 Emin/Emax (Ud) 0.42  
 UGR (3.1H 3.1H) <=20.3 (< 19.00)  
 Position 0.75 m

#### Type No.\Make

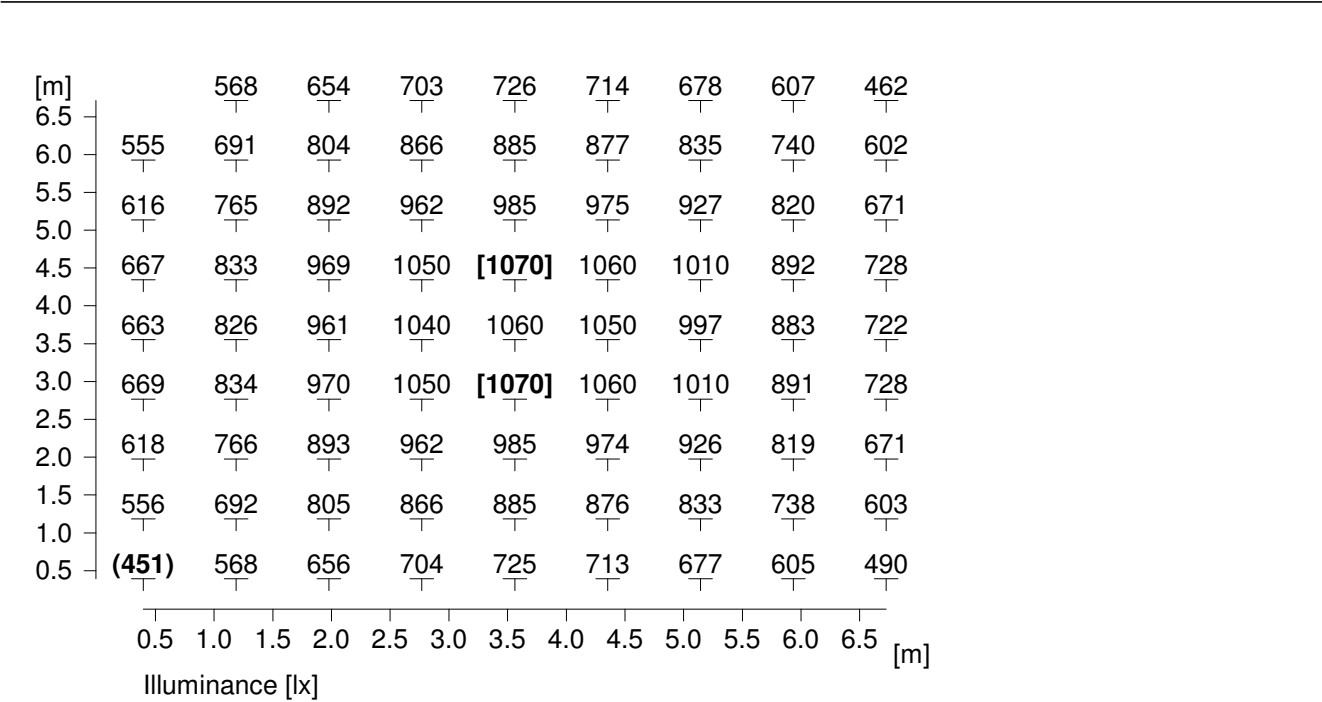
#### TRILUX

12 12 Order No. : 6210040, /../LV Tp IP54, TA../35 IP54, M-E-R IP54, KD IP54  
 Luminaire name : E-Line B LED5500-840 IP54  
 Equipment : 1 x 35 W / 5400 lm

13 115

13.3 Calculation results, 115

13.3.1 Table, Reference plane 1.1 (E)

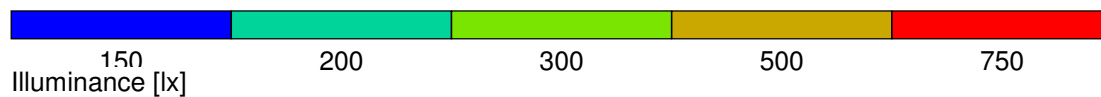
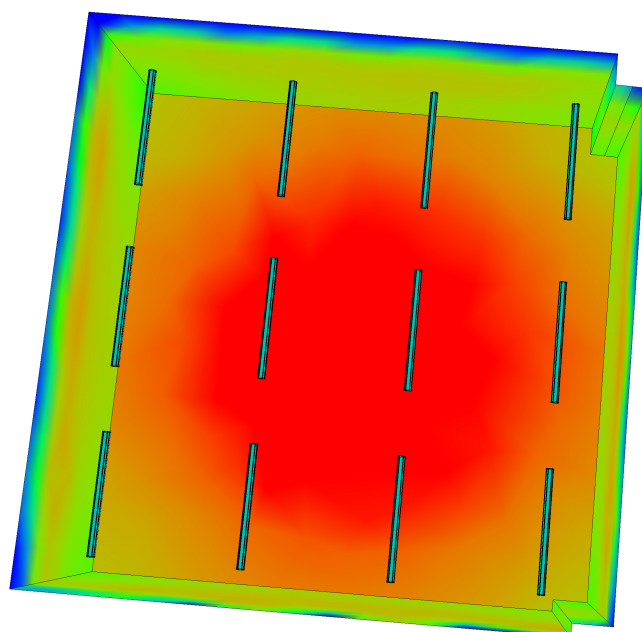


Height of the reference plane	: 0.75 m
Average illuminance	Eav : 805 lx
Minimum illuminance	Emin : 451 lx
Maximum illuminance	Emax : 1070 lx
Uniformity Uo	Emin/Eav : 1 : 1.78 (0.56)
Diversity Ud	Emin/Emax : 1 : 2.37 (0.42)

### 13.3 Calculation results, 115

#### 13.3.2 3D pseudo colours, View 1 (E)

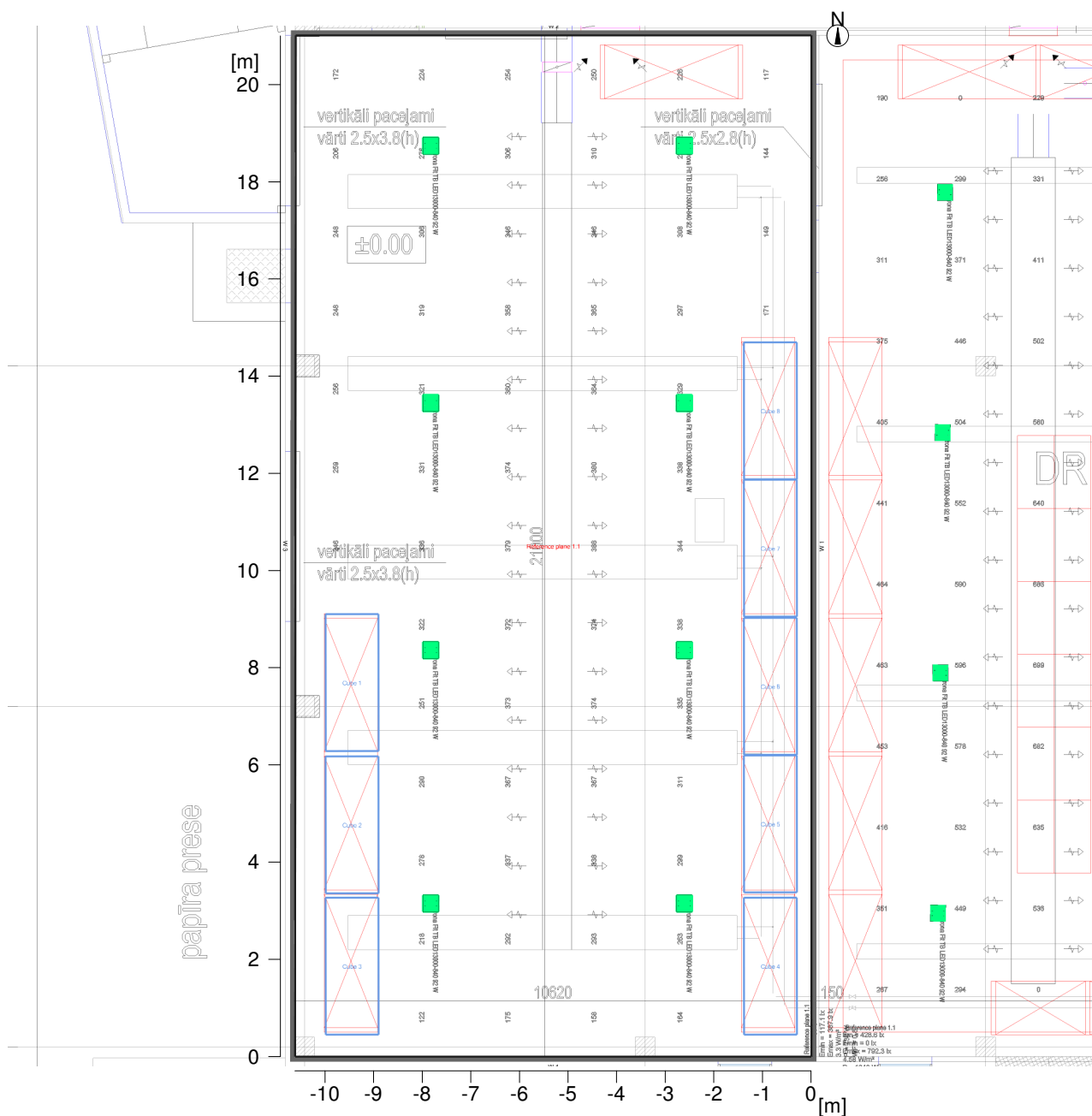
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## 4 131

### 4.1 Description, 131

#### 4.1.1 Floor plan

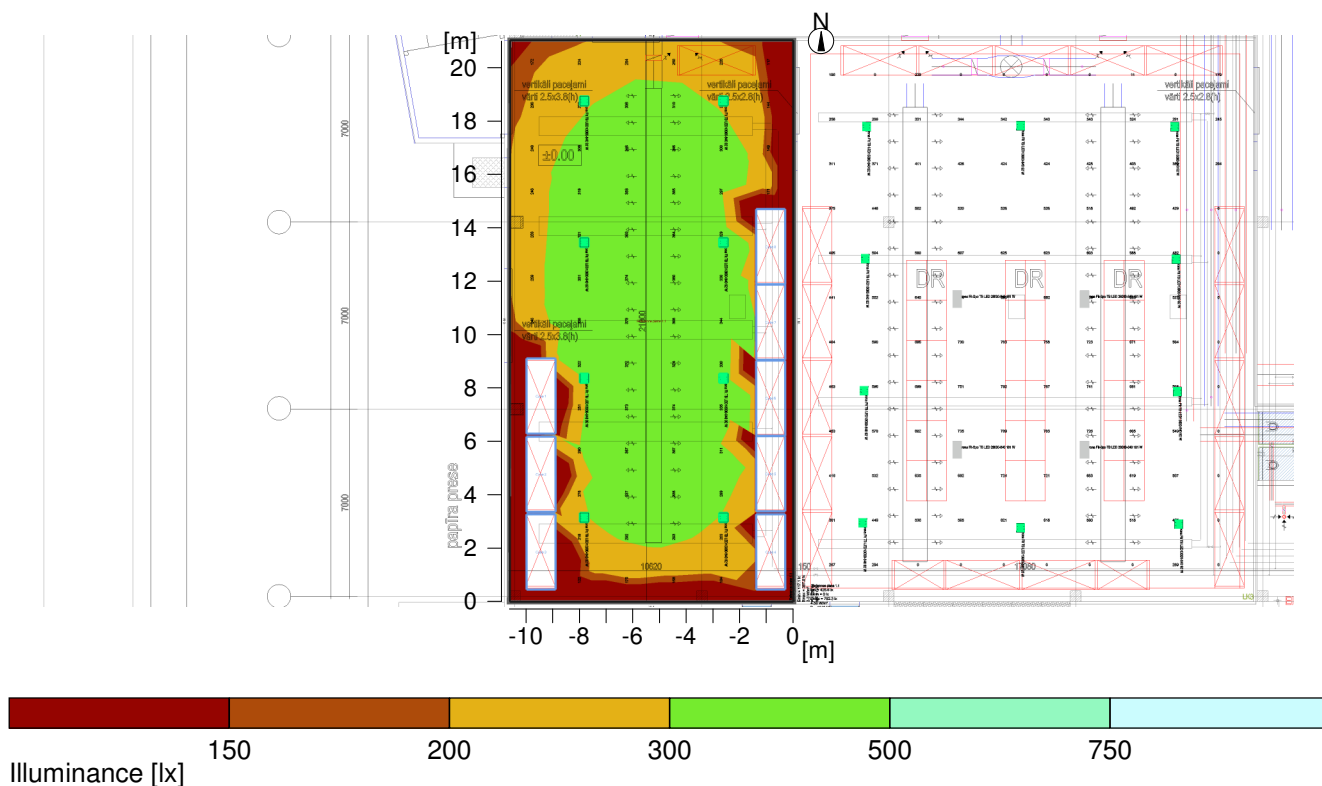


Wall	x	y	Length	Reflectance
1	28.24 m	42.54 m	21.00 m	50.0 %
2	17.64 m	42.54 m	10.61 m	50.0 %
3	17.62 m	21.54 m	21.00 m	50.0 %
4	28.24 m	21.54 m	10.62 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		8.00 m		
Height of reference plane		0.00 m		

## 4 131

### 4.2 Summary, 131

#### 4.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Height of luminaire plane  
 Maintenance factor

Average indirect fraction  
 7.50 m  
 0.80

Total luminous flux of all lamps  
 Total power  
 Total power per area (222.87 m<sup>2</sup>)

105600.00 lm  
 736.0 W  
 3.30 W/m<sup>2</sup> (1.14 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Storage rack areas  
 5.5.4 (EN 12464-1, 8.2011) Storage rack face (Ra >60.00)  
 Horizontal

Em 290 lx (>= 200 lx)  
 Emin 117 lx  
 Emin/Eav (Uo) 0.40 (>= 0.40)  
 Emin/Emax (Ud) 0.30  
 UGR (1.7H 3.4H) <=21.8  
 Position 0.00 m

#### Type No.\Make

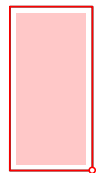
7 8



#### TRILUX

Order No. : 6819651  
 Luminaire name : Mirona Fit TB LED13000-840  
 Equipment : 1 x 92 W / 13200 lm

#### 4.3.1 Table, Reference plane 1.1 (E)

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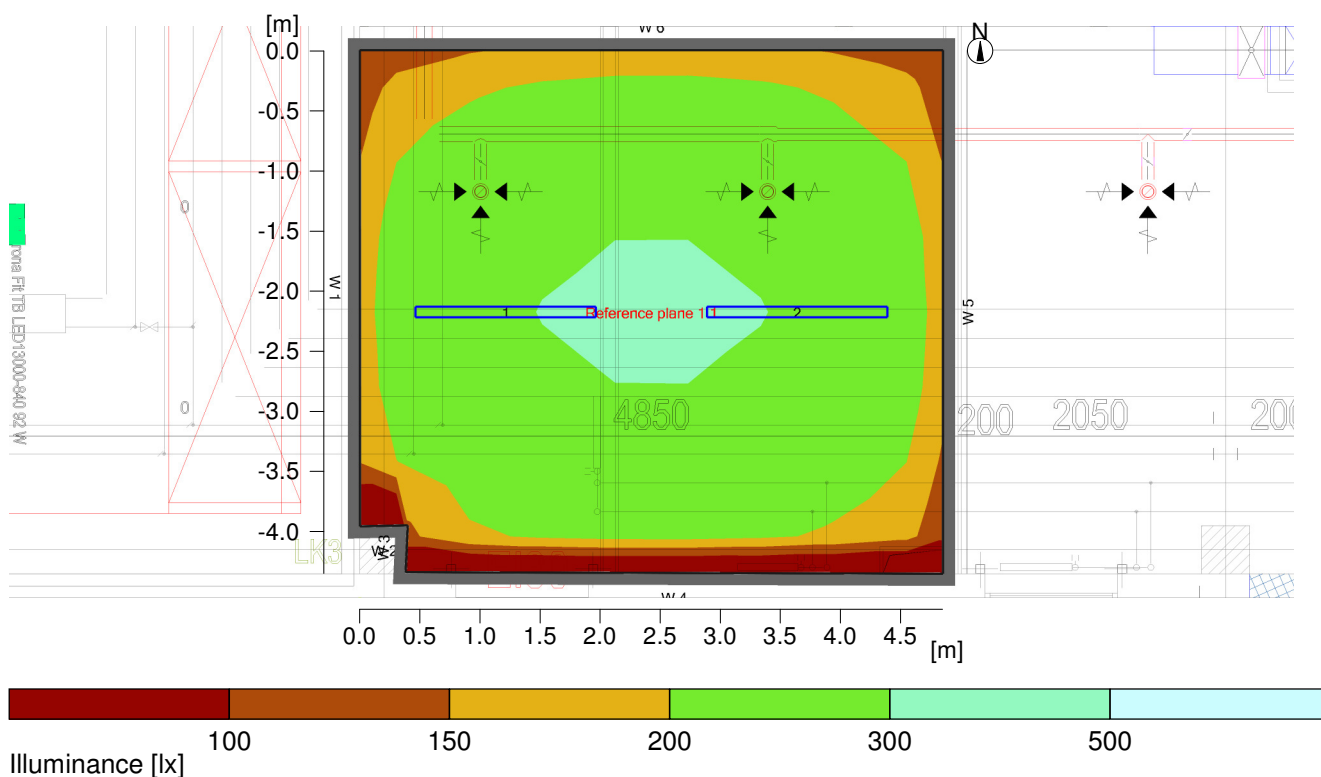
### 6.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	45.62 m	21.94 m	3.96 m	50.0 %
2	46.02 m	21.95 m	0.40 m	50.0 %
3	46.00 m	21.56 m	0.39 m	50.0 %
4	50.47 m	21.54 m	4.47 m	50.0 %
5	50.47 m	25.89 m	4.35 m	50.0 %
6	45.62 m	25.89 m	4.85 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.50 m		
Height of reference plane		0.00 m		

## 6 129

### 6.2 Summary, 129

#### 6.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	11400.00 lm
Total power	106.0 W
Total power per area (20.91 m²)	5.07 W/m² (2.20 W/m²/100lx)

#### Evaluation area 1

User profile

#### Reference plane 1.1

General areas inside buildings - Control rooms  
 5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)  
 Horizontal

Em	231 lx	(>= 200 lx)
Emin	157 lx	
Emin/Eav (Uo)	0.68	(>= 0.40)
Emin/Emax (Ud)	0.53	
UGR (2.5H 2.8H)	<=21.2	(< 25.00)
Position	0.00 m	

#### Type No.Make

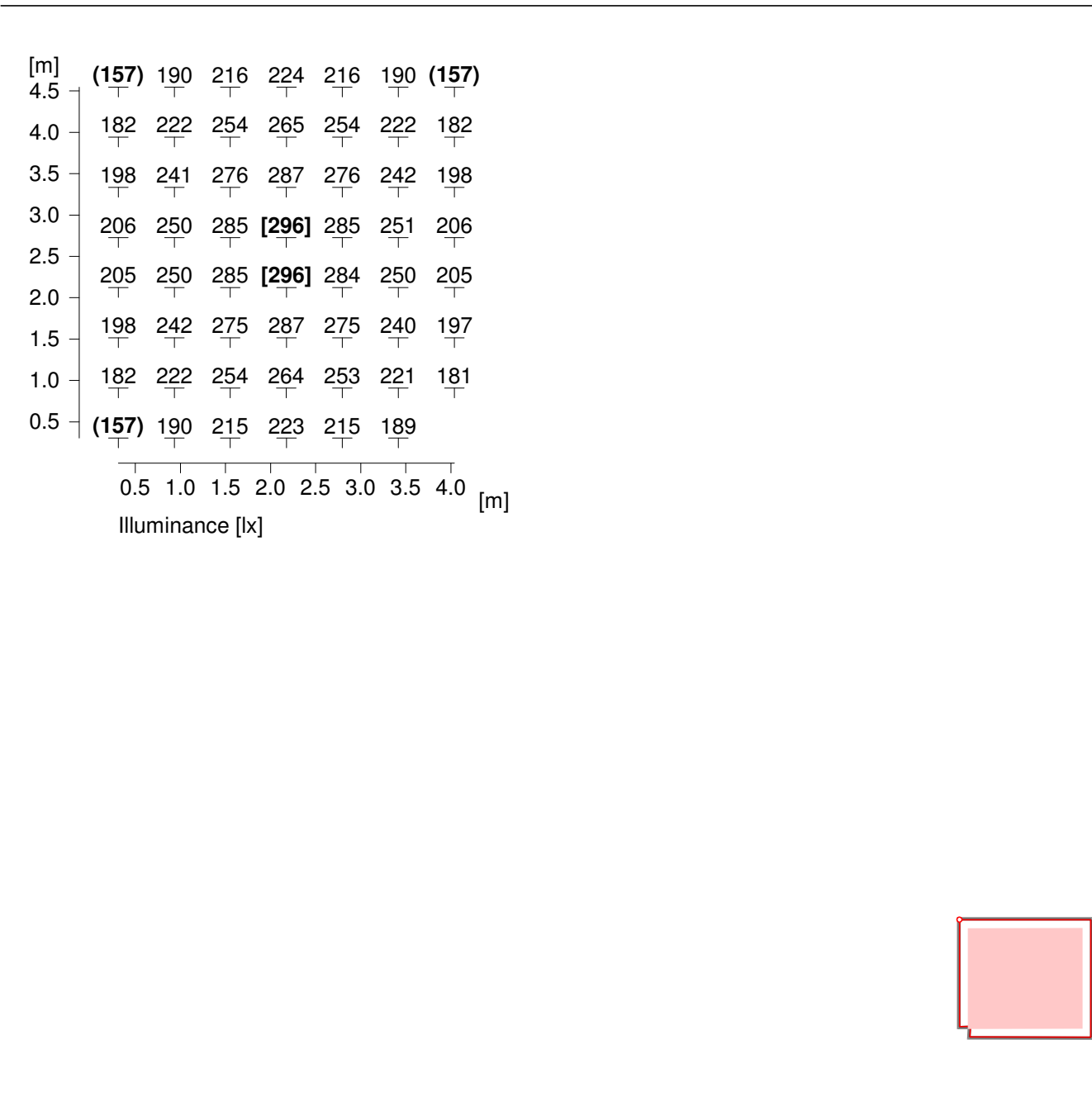
4	2	<b>TRILUX</b>	
		Order No.	: Olxeon 1500 B 6000-840 ET
		Luminaire name	: TOC 6815240
		Equipment	: 1 x LED 53 W / 5700 lm



6 129

6.3 Calculation results, 129

6.3.1 Table, Reference plane 1.1 (E)



Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 231 lx
Minimum illuminance	Emin	: 157 lx
Maximum illuminance	Emax	: 296 lx
Uniformity Uo	Emin/Eav	: 1 : 1.47 (0.68)
Diversity Ud	Emin/Emax	: 1 : 1.88 (0.53)