

CUKRARNA

Installation : KLIMAT in HODNIK

Project number : 411/16

Customer : SCAPELAB

Processed by : SCAPELAB

Date : 16.11.2016

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 Zumtobel, RESCLITE C ANTIPANIC AD NSI WH ... (42180404)

1.1.1 Data sheet

Manufacturer: Zumtobel

42180404 surface mounted RESCLITE C ANTIPANIC AD NSI WH [STD]

LED Safety luminaire for anti-panic lighting with min. 0.5 lx as specified in EN 1838; surface mounted; Luminaire for central emergency lighting supply for individual luminaire monitoring via Powerline, adjustable emergency lighting level; room height 2.2 to 5 m; high power LED, cool white; large die-cast aluminium heat sink ensures optimum thermal management, lens made of polycarbonate (PC); luminaire housing made of die-cast aluminium in powder coated white finish, RAL 9016; luminaire can be installed quickly without tools; tool-free maintenance; through-wiring plug-in terminals for wire cross-sections up to 2.5 mm²; luminaire total power: 5 W; power supply: 230V AC, 220V DC; rotary switch for mechanical address-setting; non-maintained and maintained mode possible, Maintained mode: -5°C to +25°C, Non-maintained mode: -5°C to +30°C; Dimensions: 146 x 146 x 37 mm; IP40; weight: 0.55 kg; Luminaire wired with halogen-free leads; max. line length from emergency power source to last luminaire: 300 m.

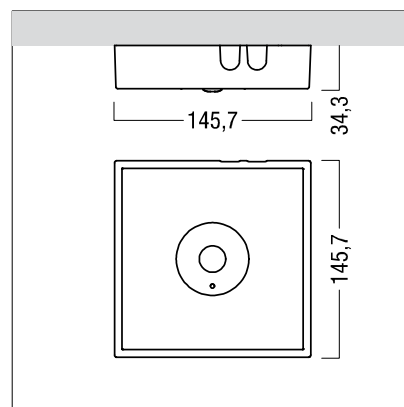
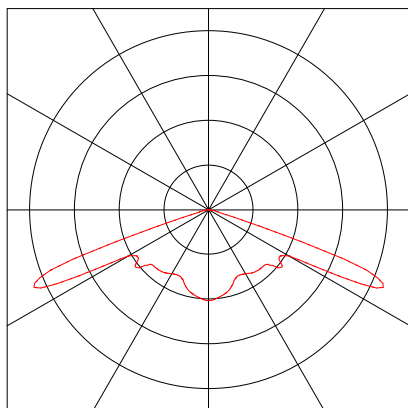
Luminaire data

Absolute Photometry
Luminaire efficacy : 39.6 lm/W
Classification : A20 ↓100.0% ↑0.0%
CIE Flux Codes : 27 57 99 100 100
UGR 4H 8H : 27.9 / 27.9
Power : 5 W
Luminous flux : 198 lm

Equipped with

Quantity : 1
Designation : LED-Z630
Colour : Unknown
Colour reproduction :

Dimensions : 146 mm x 146 mm x 37 mm



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1 Luminaire data

1.2 ZUMTOBEL, ONLITE ERI (70446584 (STD - Standard))

1.2.1 Data sheet

Manufacturer: ZUMTOBEL

70446584 (STD - Standard)

ONLITE ERI

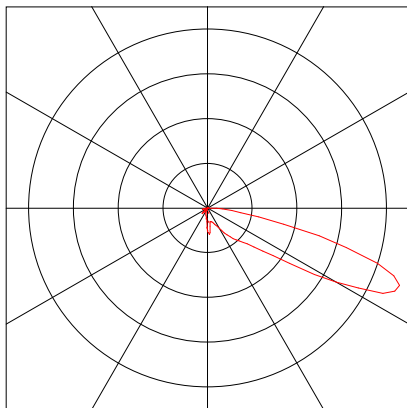
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 34 lm/W
Classification : A10 ↓99.6% ↑0.4%
CIE Flux Codes : 23 48 87 100 100
UGR 4H 8H : 47.8 / 20.8
Power : 1 W
Luminous flux : 34 lm

Equipped with

Quantity : 1
Designation : LED-Z396
0C8W
Colour :
Luminous flux : 34 lm

Dimensions : 15 mm x 15 mm x 2 mm

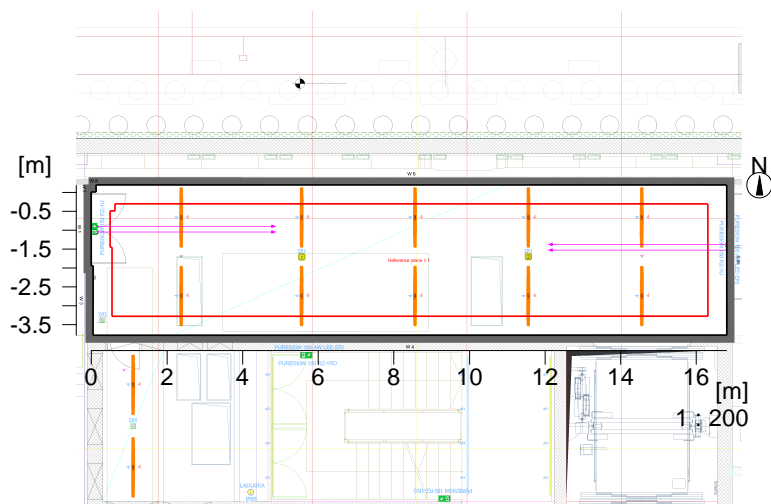


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2 02_varnostna osvetlitev

2.1 Description, 02_varnostna osvetlitev

2.1.1 Floor plan



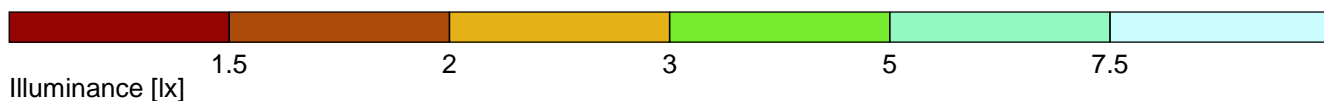
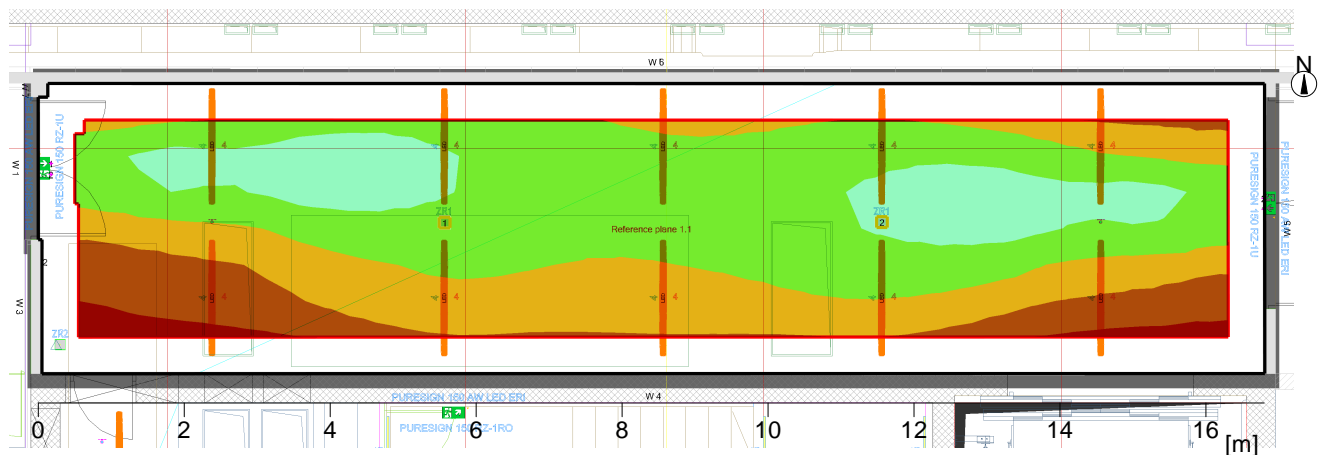
Wall	x	y	Length	Reflectance
1	89.39 m	202.60 m	1.95 m	50.0 %
2	89.44 m	202.60 m	0.05 m	50.0 %
3	89.44 m	200.76 m	1.83 m	50.0 %
4	106.19 m	200.77 m	16.75 m	50.0 %
5	106.19 m	204.73 m	3.96 m	50.0 %
6	89.52 m	204.73 m	16.66 m	50.0 %
7	89.52 m	204.54 m	0.19 m	50.0 %
8	89.39 m	204.54 m	0.13 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		5.66 m		
Height of reference plane		0.03 m		

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2 02_varnostna osvetlitev

2.2 Summary, 02_varnostna osvetlitev

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (66.49 m²)

532 lm
 14.0 W
 0.21 W/m² (5.70 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 E_m 3.7 lx
 E_{min} 1.27 lx
 E_{min}/E_{av} (U_o) 0.34
 E_{min}/E_{max} (U_d) 0.19
 Position 0.03 m

Type No.\Make

1	2	Zumtobel	
		Order No.	: 42180404
		Luminaire name	: RESCLITE C ANTIPANIC AD NSI WH [STD]
		Equipment	: 1 x LED-Z630 5 W / 198 lm

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2 02_varnostna osvetlitev

2.2 Summary, 02_varnostna osvetlitev

2.2.1 Result overview, Evaluation area 1

2	4	ZUMTOBEL	
		Order No.	: 70446584 (STD - Standard)
		Luminaire name	: ONLITE ERI
		Equipment	: 1 x LED-Z396 0C8W 1 W / 34 lm

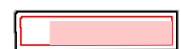
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2 02_varnostna osvetlitev

2.3 Calculation results, 02_varnostna osvetlitev

2.3.1 Table, Reference plane 1.1 (E)

				(1.27)	
	2.5	4.79	4.08	2.15	1.75
	2.74	5.52	4.79	2.25	1.79
	2.97	5.81	4.9	2.39	1.82
[m]	3.09	5.6	4.79	2.55	1.87
14	3.36	5.64	4.93	2.78	1.96
	3.72	5.99	5.4	3.1	2.07
	4.16	6.59	5.97	3.5	2.26
	4.37	6.61	6.04	3.78	2.51
12	4.55	6.45	5.95	3.96	2.73
	4.48	5.98	5.61	4	2.89
	4.3	5.48	5.21	3.92	2.96
	4.11	4.97	4.74	3.82	2.94
10	3.82	4.47	4.33	3.61	2.87
	3.55	4.03	3.94	3.39	2.76
	3.34	3.66	3.58	3.21	2.7
	3.24	3.47	3.39	3.08	2.67
	3.21	3.37	3.29	3.01	2.65
8	3.22	3.35	3.24	2.96	2.63
	3.29	3.38	3.25	2.93	2.6
	3.42	3.5	3.31	2.93	2.58
	3.66	3.75	3.48	3	2.59
6	4.08	4.12	3.65	3.08	2.65
	4.53	4.53	3.85	3.16	2.7
	5	4.94	3.99	3.19	2.71
	5.49	5.34	4.09	3.13	2.65
	5.98	5.71	4.07	2.99	2.5
4	6.4	6.03	3.99	2.79	2.31
	6.46	6.03	3.75	2.53	2.12
	6.27	5.85	3.44	2.24	1.97



Part1

Height of the reference plane

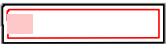
	: 0.03 m
Average illuminance	Eav : 3.7 lx
Minimum illuminance	Emin : 1.27 lx
Maximum illuminance	Emax : 6.61 lx
Uniformity Uo	Emin/Eav : 1 : 2.90 (0.34)
Diversity Ud	Emin/Emax : 1 : 5.19 (0.19)

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2 02_varnostna osvetlitev

2.3 Calculation results, 02_varnostna osvetlitev

2.3.1 Table, Reference plane 1.1 (E)



Part2