

СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ

Installation : Евакуационно осветление

Project number : B22041

Customer : ОБЩИНА САМОКОВ

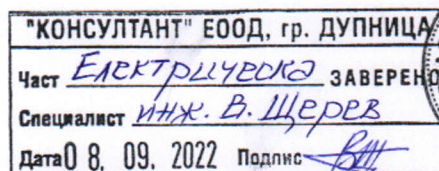
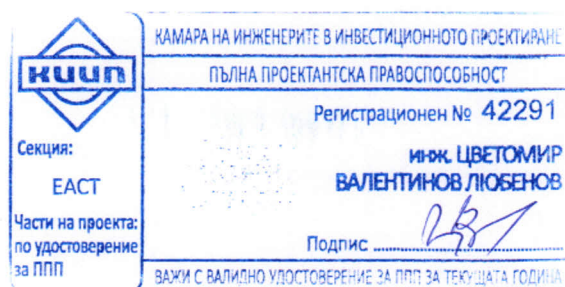
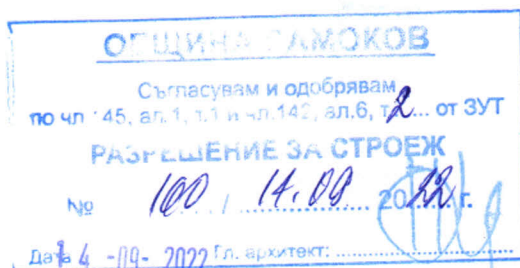
Processed by : инж. Цветомир Любенов

Date : 27.07.2022



Project description:

Основен ремонт и преустройство на самостоятелен обект в сграда с идентификатор 65231.906.282.3.9", гр. Самоков в културен център „Самоков – уникално съчетание на традиции, култура и природа“ по процедура BG06RDNP001-19.355 - Подбор на проектни предложения за вътрешнотериториално и транснационално сътрудничество по подмярка 19.3 „Подготовка и изпълнение на дейности за сътрудничество на местни инициативни групи“ от мярка 19 „Водено от общностите местно развитие“, финансирана от ПРСР 2014 - 2020г.



The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1 Luminaire data

1.1 Kosnic, LED EME Downlight - Nitro (EDWL03C20/COR)

1.1.1 Data sheet

Manufacturer: Kosnic



EDWL03C20/COR Emergency Luminaire LED EME Downlight - Nitro
3w Nitro LED Non-Maintained Emergency Corridor Downlight

Product Overview

Kosnic's LED Non-Maintained Emergency Downlights are discrete recessed fittings that provide emergency lighting only. The downlights are available with a standard lens design with a circular light pattern or a corridor version lens with a beam that is designed to emphasis illumination along one axis more than the other. The battery pack and emergency module are separate components recessed into the ceiling void.

Features

- Non-Maintained
- Three hour rated duration
- Class II, IP20
- Recessed mounting
- Built-in green charging indicator
- Corridor specific design available
- Ni-CD battery
- Mercury free

Please see datasheet or website for further info.

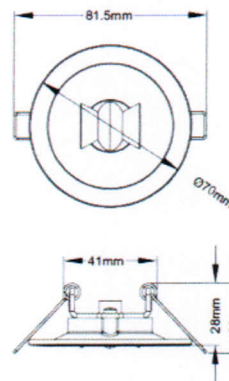
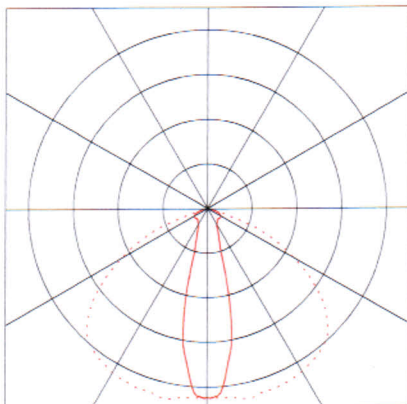
Luminaire data

Absolute Photometry
Luminaire efficacy : 66.67 lm/W
Classification : A60 □ 100.0% ↑ 0.0%
CIE Flux Codes : 62 89 99 100 100
UGR 4H 8H : 27.5 / 36.2
Power : 3 W
Luminous flux : 200 lm

Dimensions : Ø70 mm x 1 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 6500K
Socket : -
Colour reproduction : 82



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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1 Luminaire data

1.1 Kosnic, LED EME Downlight - Nitro (EDWL03C20/COR)

1.1.1 Data sheet

Emergency Lighting

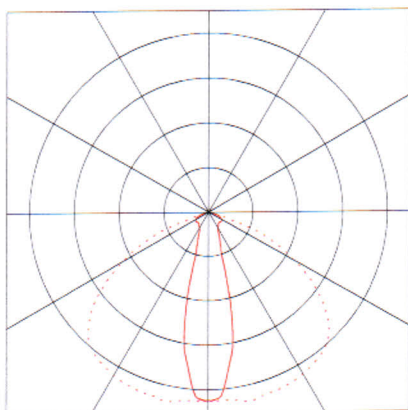
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 66.67 lm/W

Power : 3 W

Luminous flux : 200 lm



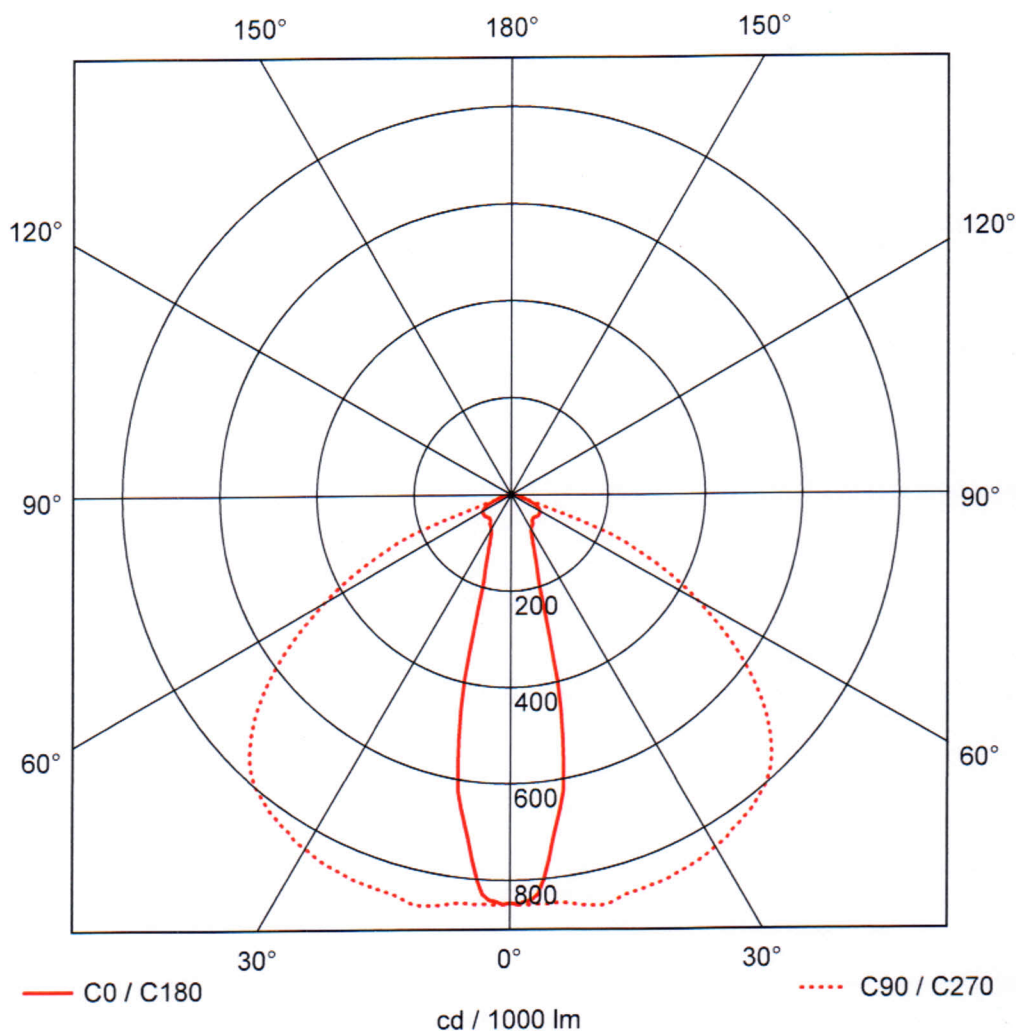
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1.1 Kosnic, LED EME Downlight - Nitro (EDWL03C20/COR)

1.1.2 LDC

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	C0	C90	C180
0°	846	846	846
5°	800	852	800
10°	625	864	625
15°	312	866	312
20°	151	861	151
25°	104	856	104
30°	84	846	84
35°	76	828	76
40°	68	805	68
45°	67	760	67
50°	70	677	70
55°	71	569	71
60°	68	444	68
65°	59	309	59
70°	38	61	38
75°	21	17	21
80°	14	7	14
85°	0	0	0
90°	0	0	0
cd / 1000 lm			



Manufacturer : Kosnic
 Order number : EDWL03C20/COR
 Luminaire name : LED EME Downlight - Nitro
 Equipment : 1 x LED 3 W / 200 lm
 Dimensions : D 70 mm x H 1 mm
 File name : rlx178869562.ltd

Luminaire efficacy : 66.67 lm/W (A60)
 Light distribution : asymmetric
 Beam Angle : 13.4° C0
 60.3° C90
 13.4° C180
 60.3° C270

Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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1 Luminaire data

1.2 Kosnic, Emergency sign right... (EESN0105S65 w/ Ex...)

1.2.1 Data sheet

Manufacturer: Kosnic



EESN0105S65 w/ Exit Sign Escape Luminaire Emergency sign right
Mulu IP65 LED Emergency Exit Sign Bulkhead

Product Overview

Kosnic's LED Emergency Exit Sign or Emergency Bulkhead Luminaire is a self-contained, multi-purpose, non-maintained or maintained* 3-hour emergency exit sign or emergency luminaire solution. The fitting can be used with or without the emergency exit graphics. It is supplied with adaptable self-adhesive graphics that can be arranged to indicate escape routes as necessary.

Features

- Three hour rated duration
- Class II, IP65
- Self-adhesive graphics (1 x right figure, 1 x left figure, 1 x direction arrows)
- Available in white or black
- Surface mounting
- Conduit entry
- Polycarbonate
- Ni-CD battery
- Mercury free



* For maintained use, switched side of supply must not include other luminaires.

Please see datasheet or website for further info.

Luminaire data

Absolute Photometry
Luminaire efficacy : 14 lm/W
Classification : A40 □ 100.0% ↑ 0.0%
CIE Flux Codes : 52 83 97 100 100
UGR 4H 8H : 13.3 / 13.3
Power : 5 W
Luminous flux : 70 lm

Dimensions : 352 mm x 114 mm x 56 mm

Equipped with

Quantity : 1
Designation : LED
Colour : 6500K
Socket : -
Colour reproduction : >80

Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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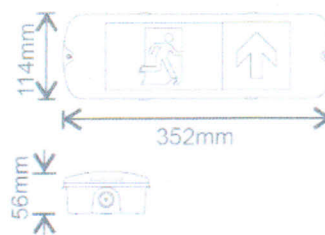
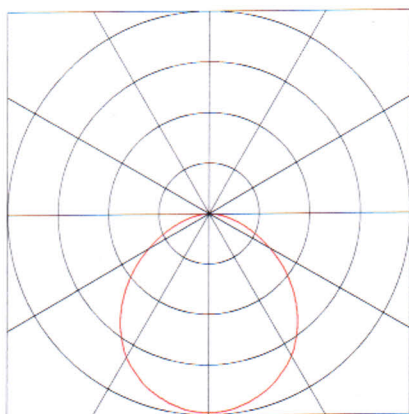


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1 Luminaire data

1.2 Kosnic, Emergency sign right... (EESN0105S65 w/ Ex...)

1.2.1 Data sheet



Emergency Lighting

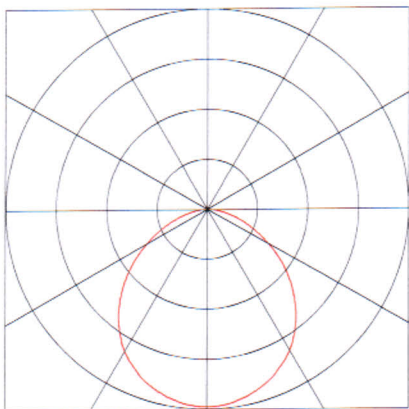
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 14 lm/W

Power : 5 W

Luminous flux : 70 lm



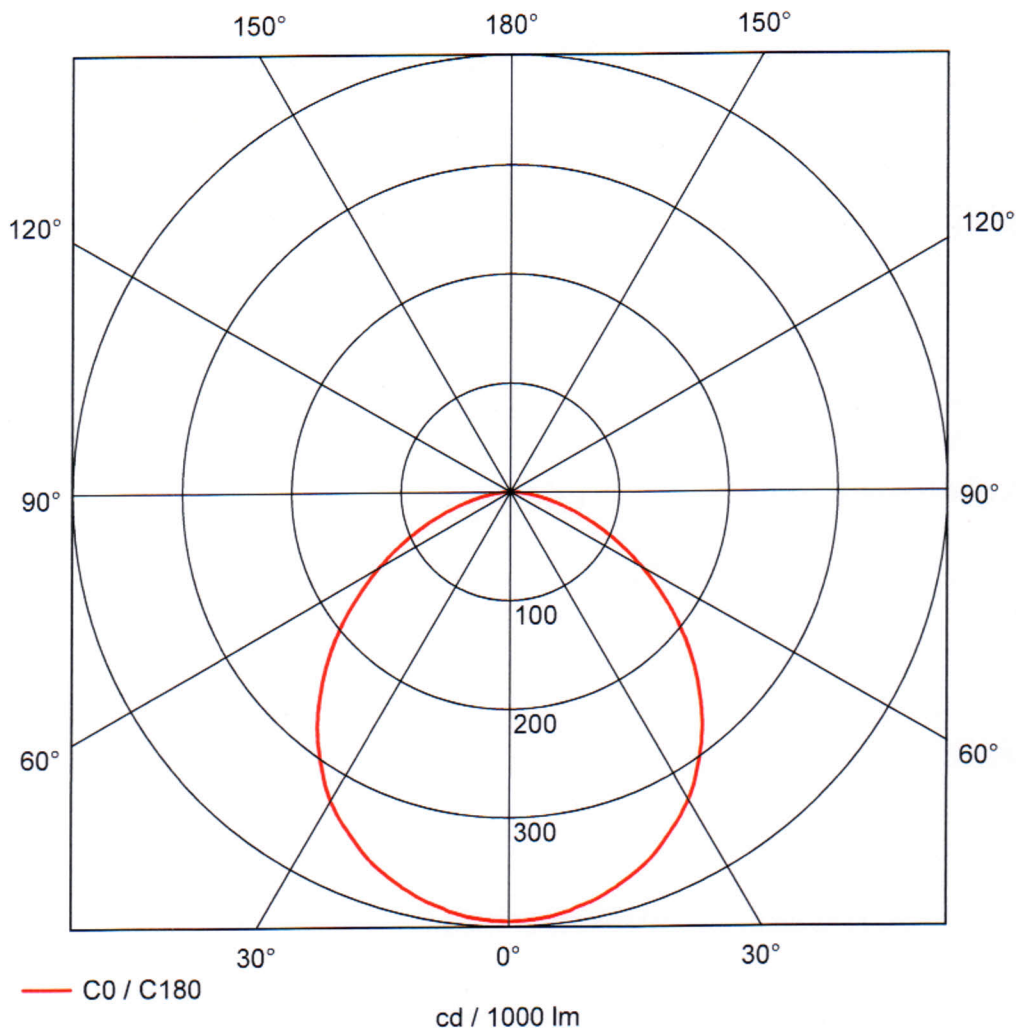
Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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1.2 Kosnic, Emergency sign right... (EESN0105S65 w/ Ex...)

1.2.2 LDC

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	C0	C90	C180
0°	395	395	395
5°	393	393	393
10°	387	387	387
15°	377	377	377
20°	364	364	364
25°	347	347	347
30°	327	327	327
35°	302	302	302
40°	274	274	274
45°	242	242	242
50°	208	208	208
55°	173	173	173
60°	139	139	139
65°	106	106	106
70°	75	75	75
75°	49	49	49
80°	26	26	26
85°	7	7	7
90°	0	0	0
cd / 1000 lm			



Manufacturer : Kosnic
Order number : EESN0105S65 w/ Exit Sign
Luminaire name : Emergency sign right
Equipment : 1 x LED 5 W / 70 lm
Dimensions : L 352 mm x W 114 mm x H 56 mm
File name : rlx178936390.ltd

Luminaire efficacy : 14 lm/W (A40)
Light distribution : rotationally symmetric
Beam Angle : 103.0° C0-C180

Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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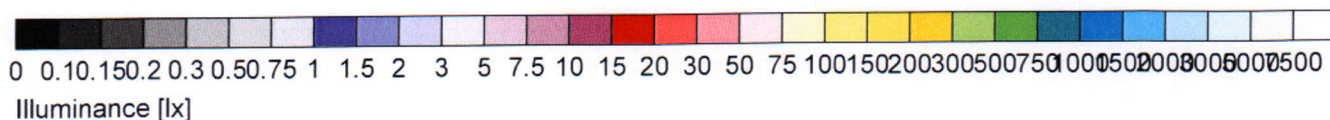
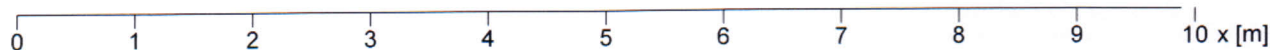
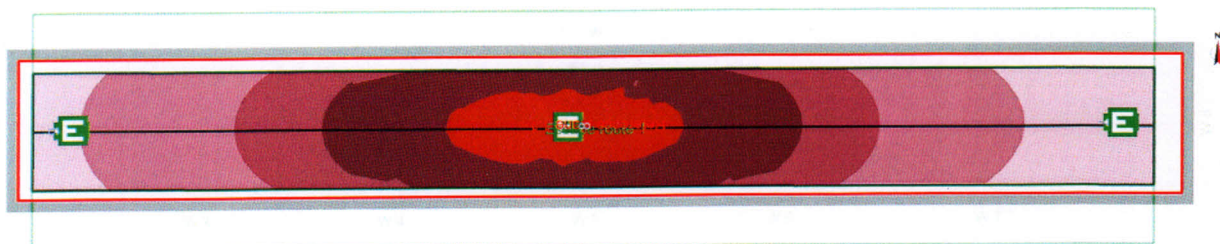


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1 Коридор 3

1.1 Summary, Коридор 3

1.1.1.1 Result overview (emergency lighting)



General

Calculation algorithm used : Direct component
 Maintenance factor : 0.8
 Height (phot. centre) : -variable-
 Maximum I : 170 cd

Escape routes:

No.	Emin [lx]	Central axis Emax [lx]	Ud
-----	-----------	---------------------------	----

Escape route 1

Calculation field: 9.52m x 1m (48 x 9 pts), Height = 0.00m

1	3.72 lx >= 1 lx	16.52 lx < 1 : 40	
---	--------------------	----------------------	--

Surface	
Emin [lx]	Emax [lx]

3.48 lx >= 0.5 lx	16.52 lx
----------------------	----------



Type No.\Make

187	1 x	Kosnic
		Order No. : EDWL03C20/COR
		Luminaire name : LED EME Downlight - Nitro
		Equipment : 1 x LED 3 W / 200 lm
		Emergency : 200 lm

Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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1 Коридор 3

1.1 Summary, Коридор 3

1.1.1.1 Result overview (emergency lighting)

188	2 x	Order No.	: EESN0105S65 w/ Exit Sign
		Luminaire name	: Emergency sign right
		Equipment	: 1 x LED 5 W / 70 lm
		Emergency	: 70 lm



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
 Installation : Евакуационно осветление
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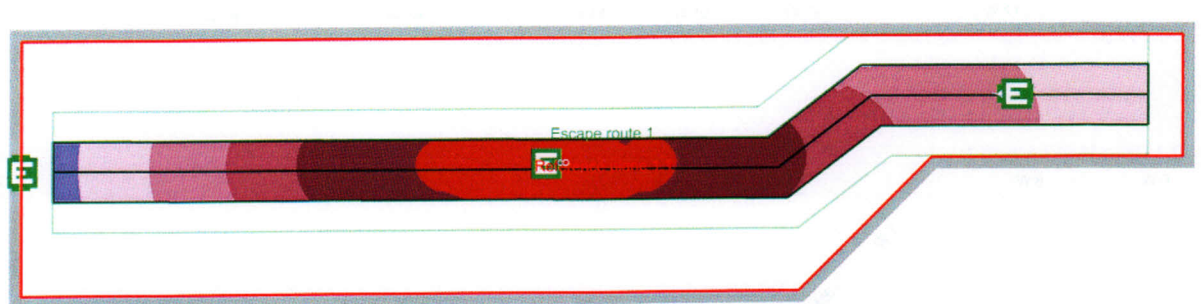


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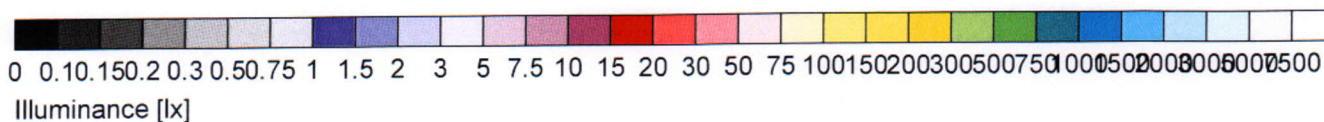
2 Коридор 11

2.1 Summary, Коридор 11

2.1.1.1 Result overview (emergency lighting)



0 1 2 3 4 5 6 7 8 9 x [m]



General

Calculation algorithm used : Direct component
 Maintenance factor : 0.8
 Height (phot. centre) : -variable-
 Maximum I : 170 cd



Escape routes:

No.	Emin [lx]	Central axis Emax [lx]	Ud
-----	-----------	---------------------------	----

Escape route 1

Calculation field: 9.26m x 0.5m (75 x 9 pts), Height = 0.00m

1	2.28 lx	16.77 lx	1: 7.36
	>= 1 lx		< 1 : 40

Surface	
Emin [lx]	Emax [lx]

2.23 lx	16.80 lx
>= 0.5 lx	



Type No./Make

Kosnic	
187	1 x
Order No.	: EDWL03C20/COR
Luminaire name	: LED EME Downlight - Nitro
Equipment	: 1 x LED 3 W / 200 lm
Emergency	: 200 lm



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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2 Коридор 11

2.1 Summary, Коридор 11

2.1.1.1 Result overview (emergency lighting)

188	2 x	Order No.	: EESN0105S65 w/ Exit Sign
		Luminaire name	: Emergency sign right
		Equipment	: 1 x LED 5 W / 70 lm
		Emergency	: 70 lm



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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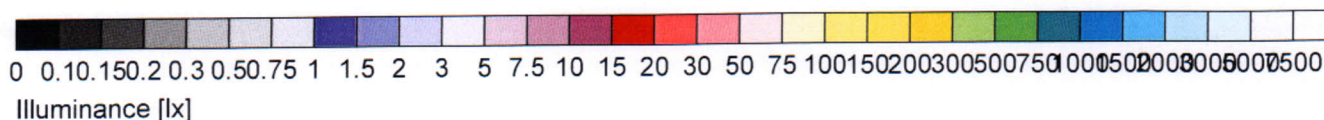
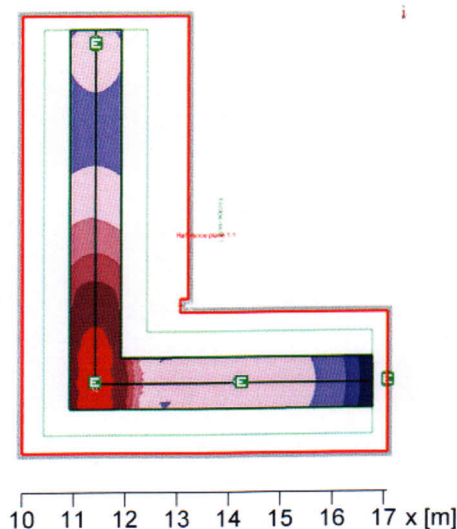


BBSINESS SPECTOR

3 Фойе 18

3.1 Summary, Фойе 18

3.1.1.1 Result overview (emergency lighting)



General

Calculation algorithm used : Direct component
 Maintenance factor : 0.8
 Height (phot. centre) : -variable-
 Maximum I : 170 cd

Escape routes:

		Central axis		
No.	Emin [lx]	Emax [lx]	Ud	
Escape route 1				
Calculation field: 12.19m x 1m (61 x 9 pts), Height = 0.00m				
1	1.01 lx	17.02 lx	1: 16.85	
	>= 1 lx		< 1 : 40	

Surface	
Emin [lx]	Emax [lx]
0.97 lx	17.02 lx
>= 0.5 lx	



Type No./Make

187	1 x	Kosnic	
		Order No.	: EDWL03C20/COR
		Luminaire name	: LED EME Downlight - Nitro
		Equipment	: 1 x LED 3 W / 200 lm
		Emergency	: 200 lm



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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3 Фойе 18

3.1 Summary, Фойе 18

3.1.1.1 Result overview (emergency lighting)

188	3 x	Order No.	: EESN0105S65 w/ Exit Sign
		Luminaire name	: Emergency sign right
		Equipment	: 1 x LED 5 W / 70 lm
		Emergency	: 70 lm



Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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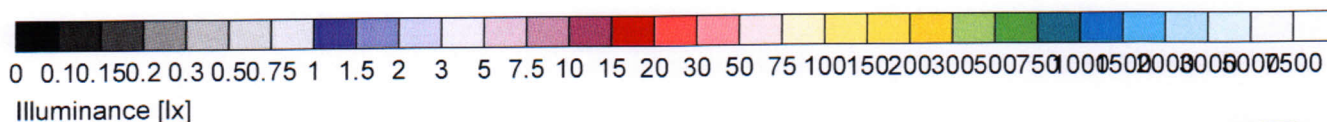
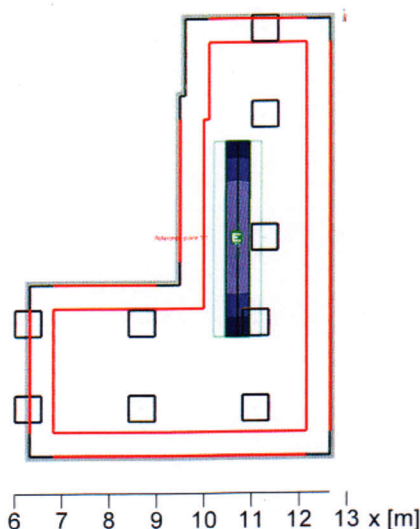


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4 Споделен офис 20

4.1 Summary, Споделен офис 20

4.1.1.1 Result overview (emergency lighting)



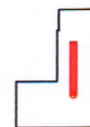
General

Calculation algorithm used : Direct component
 Maintenance factor : 0.8
 Height (phot. centre) : 2.87 m
 Maximum I : 28 cd < 900 cd



Escape routes:

Escape routes:				Surface	
No.	Emin [lx]	Central axis Emax [lx]	Ud	Emin [lx]	Emax [lx]
Escape route 1					
Calculation field: 4.12m x 0.5m (40 x 9 pts), Height = 0.00m					
1	1.06 lx	2.68 lx	1: 2.53	1.05 lx	2.68 lx
	>= 1 lx		< 1 : 40	>= 0.5 lx	



Type No. Make

188	1 x	Kosnic	
		Order No.	: EESN0105S65 w/ Exit Sign
		Luminaire name	: Emergency sign right
		Equipment	: 1 x LED 5 W / 70 lm
		Emergency	: 70 lm

Object : СВЕТЛОТЕХНИЧЕСКИ ПРОЕКТ
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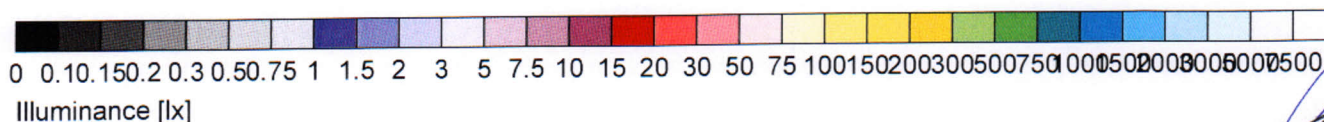
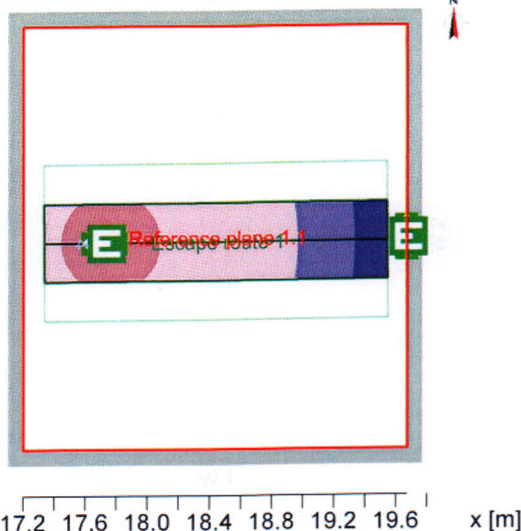


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5 Вестибюл 21

5.1 Summary, Вестибюл 21

5.1.1.1 Result overview (emergency lighting)



General

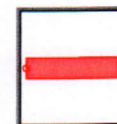
Calculation algorithm used : Direct component
Maintenance factor : 0.8
Height (phot. centre) : -variable-
Maximum I : 28 cd

"КОНСУЛТАНТ" ЕООД, гр. ДУПНИЦА
Част ЕЛЕКТРИЧЕСКА ЗАВЕРЕНА
Специалист ИНЖ. В. ЦЕРЕВ
Дата 08.09.2022 Подпис ВЦ



Escape routes:

No.	Central axis			Surface	
	Emin [lx]	Emax [lx]	Ud	Emin [lx]	Emax [lx]
Escape route 1					
Calculation field: 2.21m x 0.5m (6 x 9 pts), Height = 0.00m					
1	1.43 lx	4.93 lx	1: 3.45	1.41 lx	4.93 lx
	>= 1 lx		< 1 : 40	>= 0.5 lx	



Type No. Make

188 2 x **Kosnic**
Order No. : EESN0105S65 w/ Exit Sign
Luminaire name : Emergency sign right
Equipment : 1 x LED 5 W / 70 lm
Emergency : 70 lm

КАМАРА НА ИНЖЕНЕРИТЕ В ИНВЕСТИЦИОННОТО ПРОЕКТИРАНЕ
ПЪЛНА ПРОЕКТАНТСКА ПРАВОСПОСОБНОСТ
Регистрационен № 42291
ИНЖ. ЦВЕТОМИР
ВАЛЕНТИНОВ ЛЮБЕНОВ
Подпис ВЦ
ВАЖИ С ВАЛИДНО УДОСТОВЕРЕНИЕ ЗА ПОП ЗА ТЕХНИКАТА ПОП