



Asda Sign Lighting

Installation :

Project number :

Customer :

Processed by : S Shenton

Date : 20.02.2013

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.

Object : Asda Sign Lighting
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1 Small Sign

1.1 Description, Small Sign

1.1.1 Luminaire data/Room elements

Luminaire data:

Type No.\Make

		Tamlite	
1	2	Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Tamlite SIGNALITE ISL1250									
1	1.46	0.89	0.43	90.00	0.00	75.00	1.46	0.46	0.00
2	4.07	0.89	0.43	90.00	0.00	75.00	4.07	0.46	0.00

Structural elements

Virtual measuring surface

Under Measuring device							Rotation angle	
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	L axis	Q axis
Ref. plane 1								
	2.75	0.51	0.00	5.50	1.02	0.00	0.00	0.00

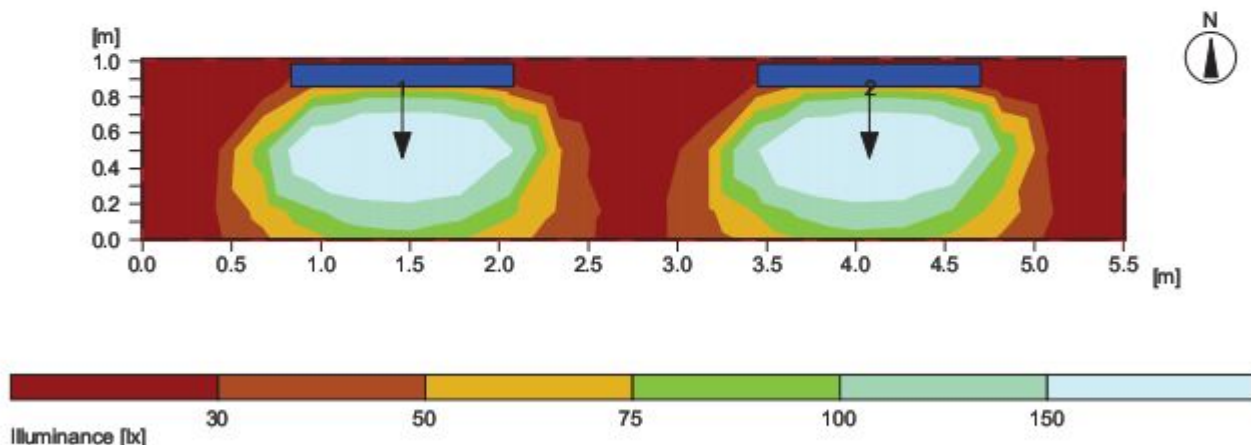
Object : Asda Sign Lighting
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1 Small Sign

1.2 Summary, Small Sign

1.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	0.43 m
Maintenance factor	0.80
Total luminous flux of all lamps	3100 lm
Total power	36 W
Total power per area (5.59 m²)	6.44 W/m² (8.09 W/m²/100lx)

Illuminance

Average illuminance	Eav	80 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	282 lx
Uniformity g1	Emin/Em	1:80 (0.01)
Uniformity g2	Emin/Emax	1:284 (0)

Type No.\Make

1	2	Tamlite	
		Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

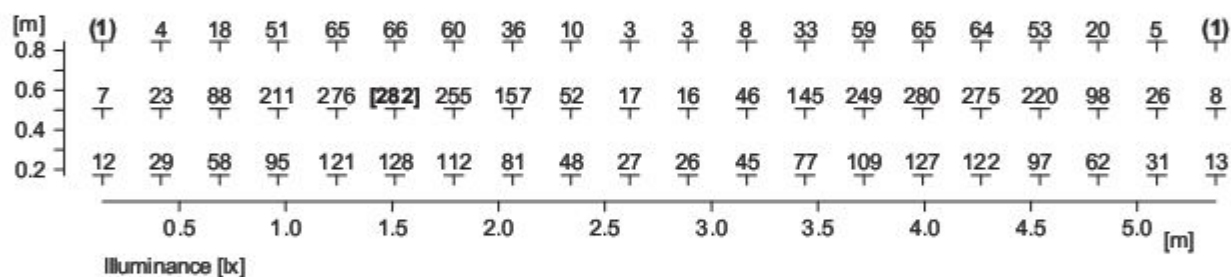
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1 Small Sign

1.3 Calculation results, Small Sign

1.3.1 Table, Reference plane 1 (E)



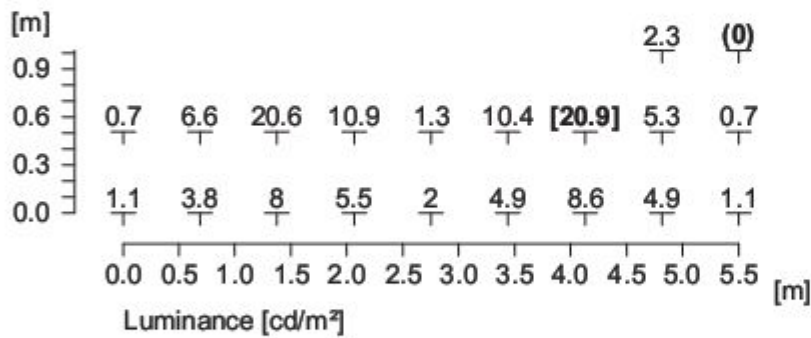
Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 80 lx
Minimum illuminance	Emin	: 1 lx
Maximum illuminance	Emax	: 282 lx
Uniformity g1	Emin/Eav	: 1 : 79.98 (0.01)
Uniformity g2	Emin/Emax	: 1 : 283.55 (0.00)

Object : Asda Sign Lighting
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1.3 Calculation results, Small Sign

1.3.2 Table, Floor (L)



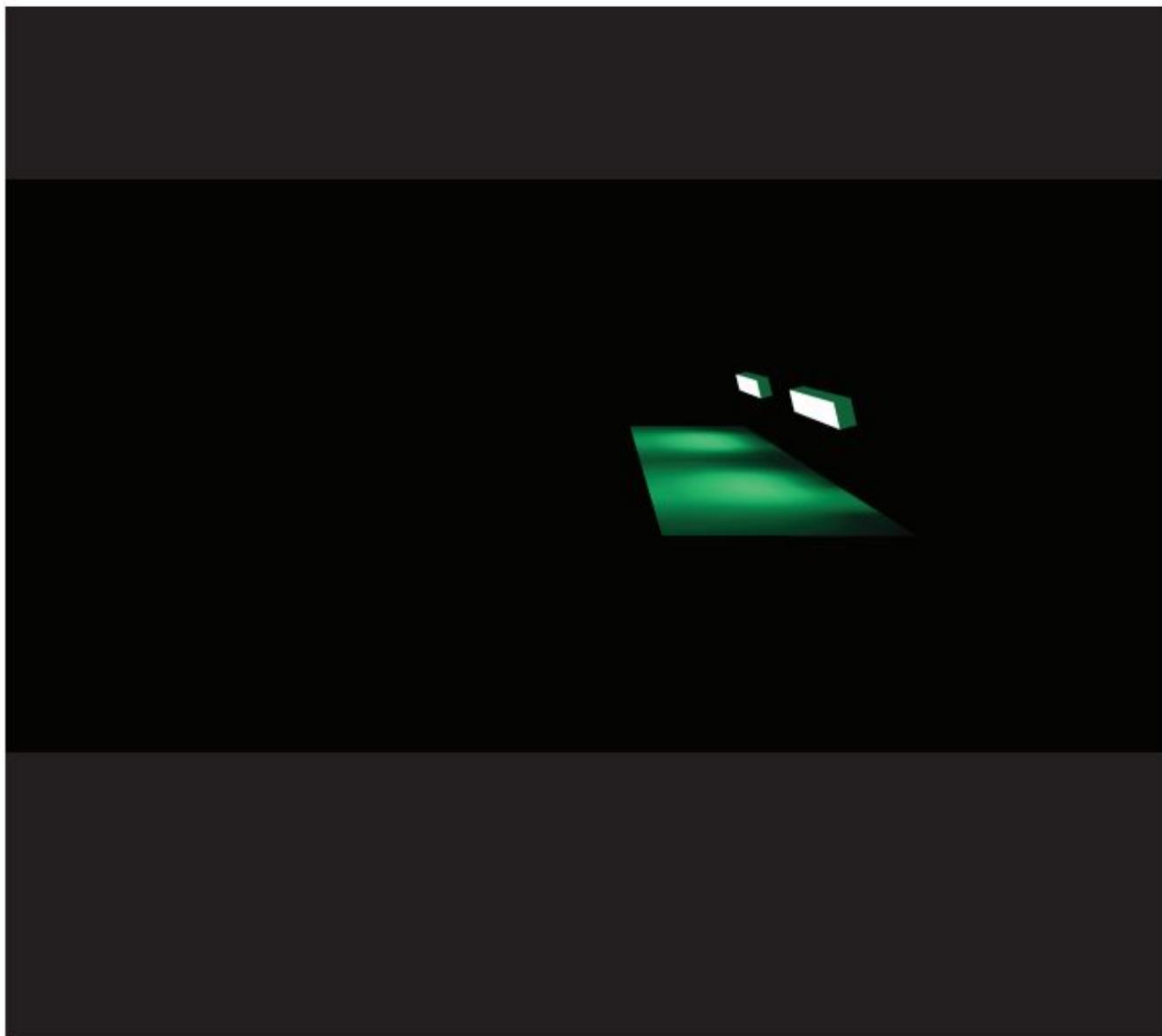
Average luminance	Lav	: 5.98 cd/m ²
Minimum luminance	Lmin	: 0.05 cd/m ²
Maximum luminance	Lmax	: 20.9 cd/m ²

Object : Asda Sign Lighting
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1.3 Calculation results, Small Sign

1.3.3 3D luminance, View 1



Luminance in the scene

Minimum: : 0.05 cd/m²

Maximum: : 20.9 cd/m²

Object : Asda Sign Lighting
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2 Large Sign

2.1 Description, Large Sign

2.1.1 Luminaire data/Room elements

Luminaire data:

Type No.\Make

		Tamlite	
1	2	Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Tamlite SIGNALITE ISL1250									
1	2.04	0.89	0.43	90.00	0.00	75.00	2.04	0.47	0.00
2	5.65	0.89	0.43	90.00	0.00	75.00	5.65	0.47	0.00

Structural elements

Virtual measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1	3.85	0.50	0.00	7.71	1.01	0.00	0.00	0.00

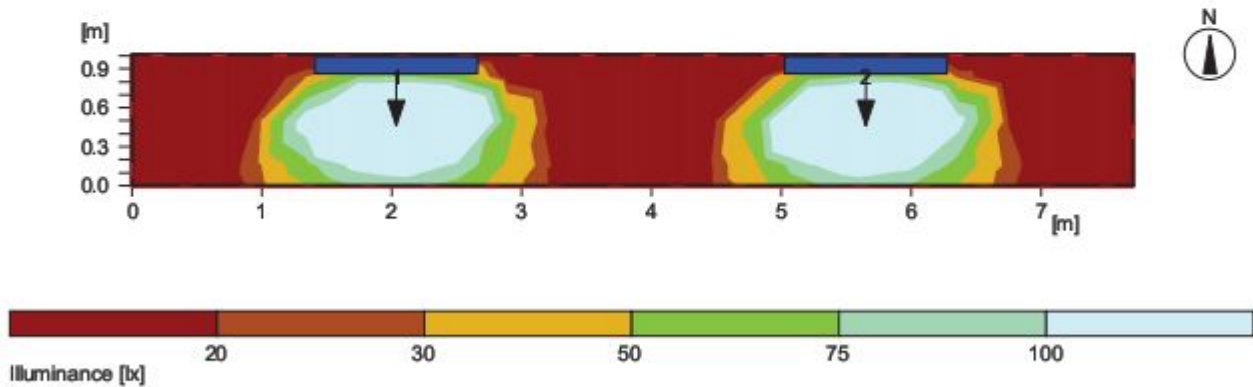
Object : Asda Sign Lighting
 Installation :
 Project number :
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2 Large Sign

2.2 Summary, Large Sign

2.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	0.43 m
Maintenance factor	0.80
Total luminous flux of all lamps	3100 lm
Total power	36 W
Total power per area (7.77 m²)	4.64 W/m² (8.03 W/m²/100lx)

Illuminance

Average illuminance	Eav	58 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	278 lx
Uniformity g1	Emin/Em	1:432 (0)
Uniformity g2	Emin/Emax	1:2080 (0)

Type No.\Make

1	2	Tamlite	
		Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

Object : Asda Sign Lighting
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2 Large Sign

2.3 Calculation results, Large Sign

2.3.1 Table, Reference plane 1 (E)

[m]	(0)	1	4	31	73	77	62	13	2	(0)	(0)	2	14	64	77	72	28	4	1	(0)
0.8																				
0.6	1	4	21	120	258	276	215	59	10	3	3	11	65	220	[278]	252	112	19	4	1
0.4																				
0.2	2	8	26	67	112	124	95	47	16	6	6	17	50	97	125	110	65	24	7	2
		1			2			3		4			5			6			7	[m]
	Illuminance [lx]																			

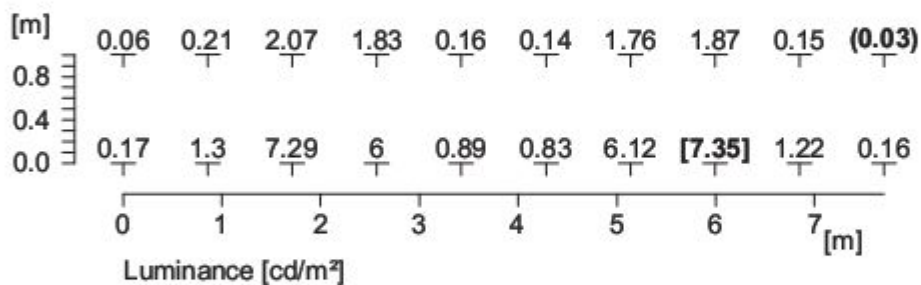
Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 58 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 278 lx
Uniformity g1	Emin/Eav	: 1 : 432.19 (0.00)
Uniformity g2	Emin/Emax	: 1 : 2081.45 (0.00)

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2.3 Calculation results, Large Sign

2.3.2 Table, Floor (L)



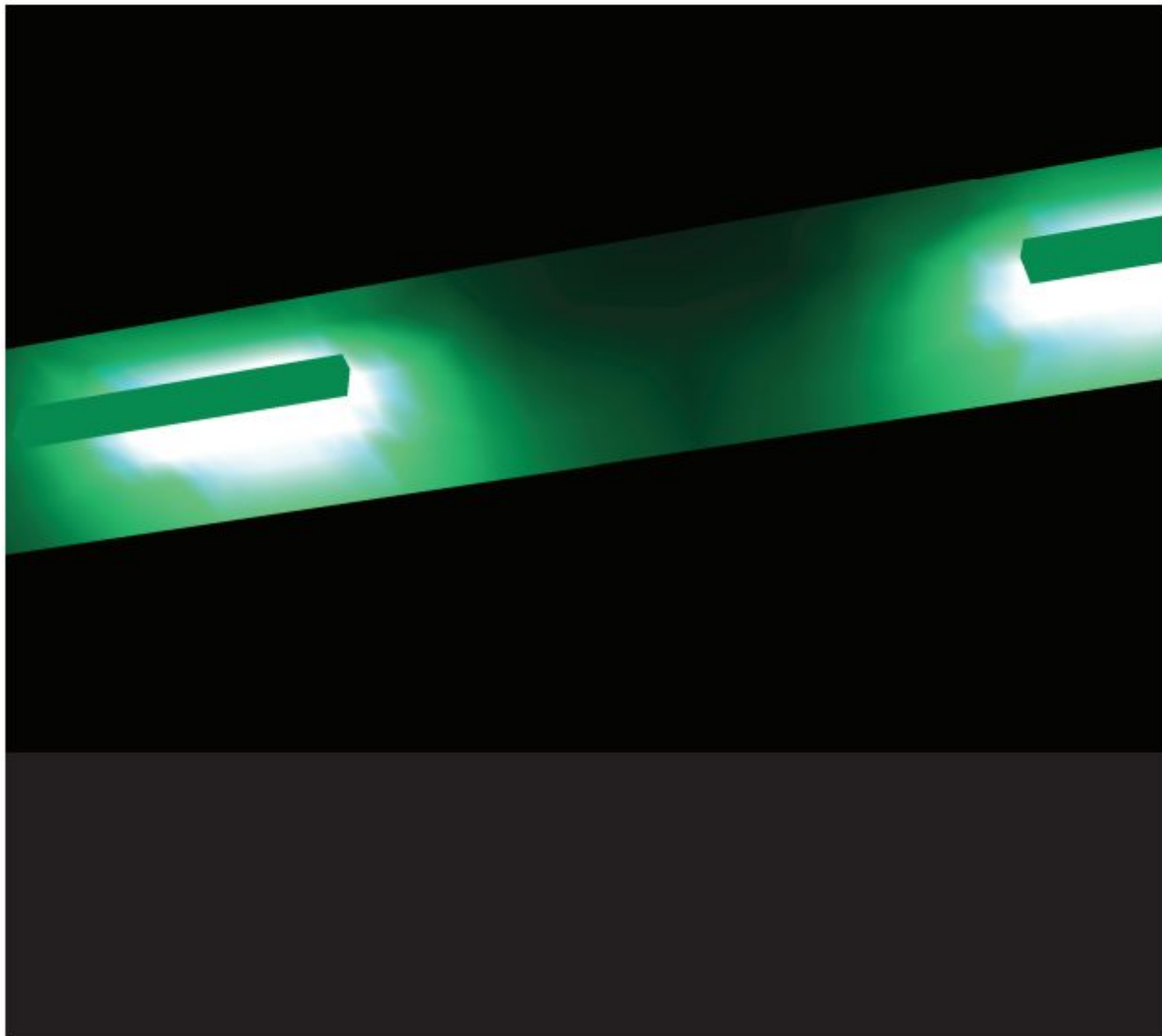
Average luminance	Lav	: 1.98 cd/m ²
Minimum luminance	Lmin	: 0.03 cd/m ²
Maximum luminance	Lmax	: 7.35 cd/m ²

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2.3 Calculation results, Large Sign

2.3.3 3D luminance, View 1



Luminance in the scene

Minimum: : 0.03 cd/m²

Maximum: : 7.35 cd/m²

Object : Asda Sign Lighting
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3 Large Sign - 3 fittings

3.1 Description, Large Sign - 3 fittings

3.1.1 Luminaire data/Room elements

Luminaire data:

Type No.\Make

		Tamlite	
1	3	Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Tamlite SIGNALITE ISL1250									
1	1.04	0.89	0.43	90.00	0.00	75.00	1.04	0.47	0.00
2	6.65	0.89	0.43	90.00	0.00	75.00	6.65	0.47	0.00
3	3.78	0.89	0.43	90.00	0.00	75.00	3.78	0.47	0.00

Structural elements

Virtual measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1	3.85	0.50	0.00	7.71	1.01	0.00	0.00	0.00

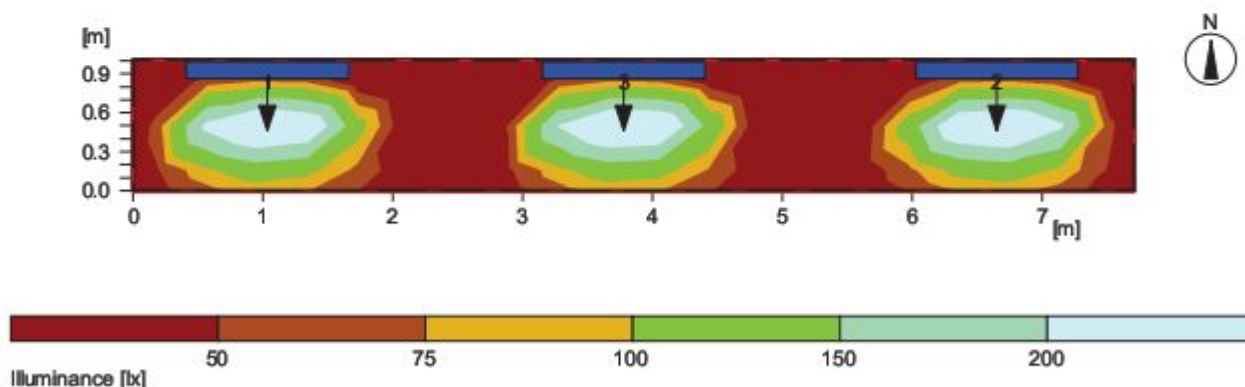
Object : Asda Sign Lighting
 Installation :
 Project number :
 Date : 20.02.2013



3 Large Sign - 3 fittings

3.2 Summary, Large Sign - 3 fittings

3.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	0.43 m
Maintenance factor	0.80
Total luminous flux of all lamps	4650 lm
Total power	54 W
Total power per area (7.77 m²)	6.95 W/m² (8.13 W/m²/100lx)

Illuminance

Average illuminance	Eav	86 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	277 lx
Uniformity g1	Emin/Em	1:58.1 (0.02)
Uniformity g2	Emin/Emax	1:188 (0.01)

Type No.\Make

1	3	Tamlite	
		Order No.	: ISL1250
		Luminaire name	: SIGNALITE
		Equipment	: 1 x 1 x LED 18W 18 W / 1550 lm

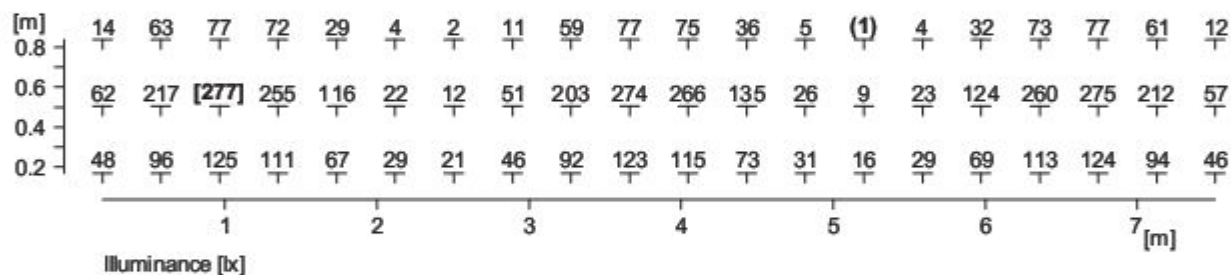
Object : Asda Sign Lighting
 Installation :
 Project number :
 Date : 20.02.2013



3 Large Sign - 3 fittings

3.3 Calculation results, Large Sign - 3 fittings

3.3.1 Table, Reference plane 1 (E)



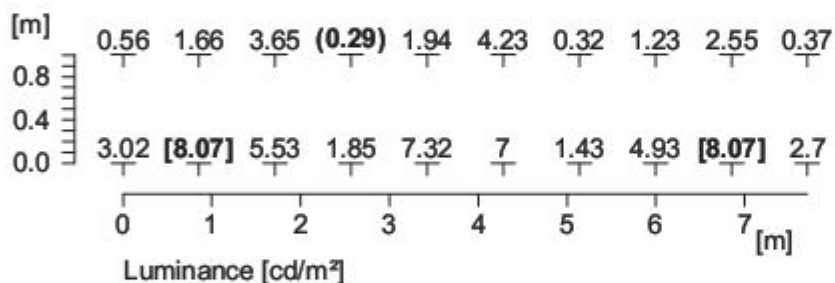
Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 86 lx
Minimum illuminance	Emin	: 1 lx
Maximum illuminance	Emax	: 277 lx
Uniformity g1	Emin/Eav	: 1 : 58.12 (0.02)
Uniformity g2	Emin/Emax	: 1 : 188.04 (0.01)

Object : Asda Sign Lighting
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Date : 20.02.2013



3.3 Calculation results, Large Sign - 3 fittings

3.3.2 Table, Floor (L)



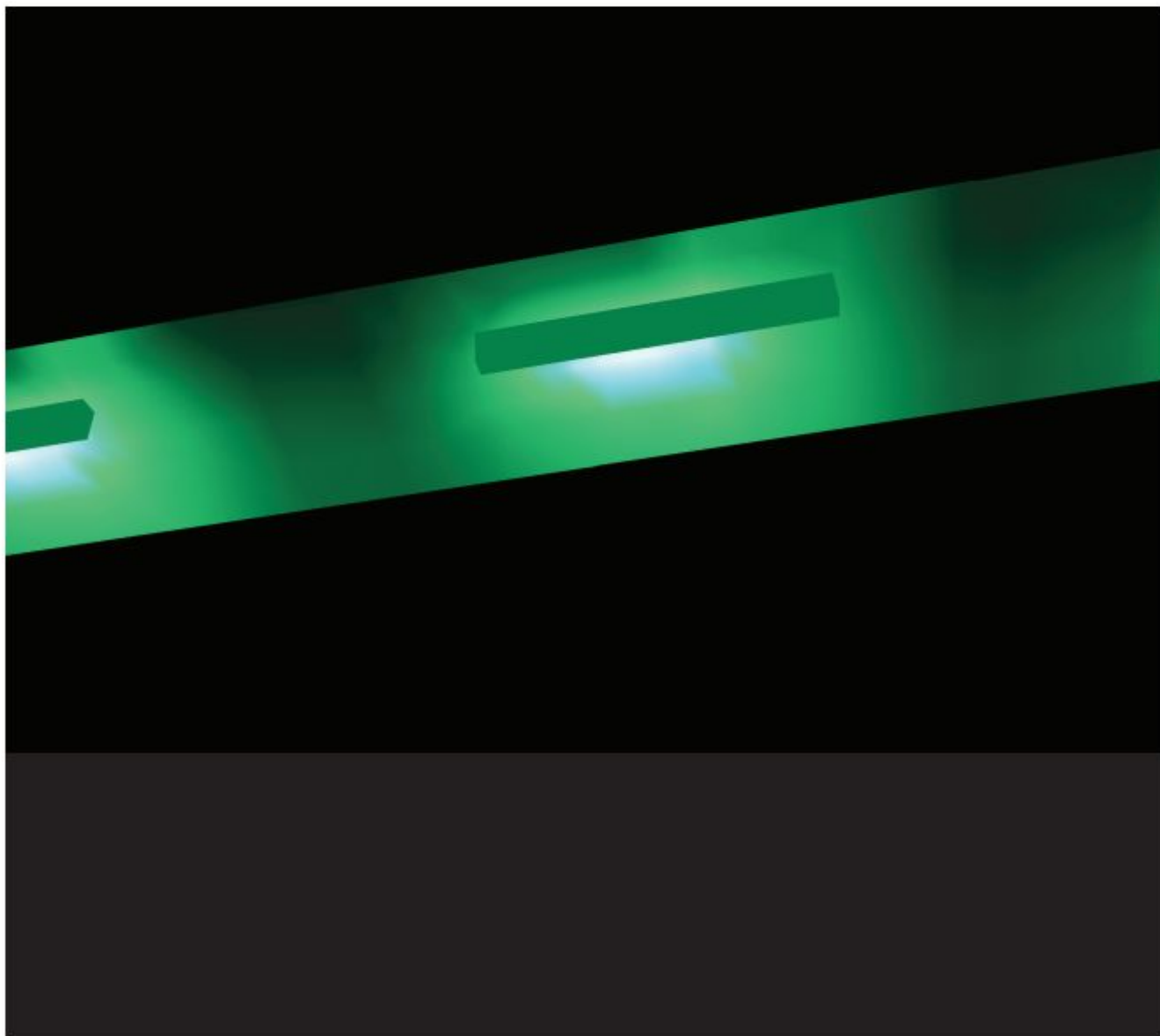
Average luminance	Lav	: 3.34 cd/m²
Minimum luminance	Lmin	: 0.29 cd/m²
Maximum luminance	Lmax	: 8.07 cd/m²

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3.3 Calculation results, Large Sign - 3 fittings

3.3.3 3D luminance, View 1



Luminance in the scene

Minimum: : 0.29 cd/m²

Maximum: : 8.07 cd/m²