



Howards Scrap Yard 2

Installation : City Electrical Factors Portsmouth

Project number : Email

Customer : -

Processed by : Craig Wood

Date : 02.08.2013



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.

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1 Luminaire data

1.1 Tamlite, INFINITY SF (EXPE50)

1.1.1 Data sheet

Manufacturer: Tamlite



EXPE50 LightEmitter INFINITY SF

HID

EXPE50

LED

50W Small area LED Floodlight

Features

High output LED Floodlight

Single chip-on-board package for compact size

Ideal for small car park or doorway lighting

Stirrup mount allows for column/bracket fix or ceiling fit

Finished in grey

3 year warranty

To order / specify

50W LED Floodlight as per Tamlite 'Infinity SF' range.

Dimensions (mm)

A 288

B 238

C 180

Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 61.14 lm/W
Classification : ↓100.0% ↑0.0%
CIE Flux Codes : 54 88 100 100 100
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 22.7 / 23.6
Control gear : electronic ballast
System power : 49.1 W
Length : 288 mm
Width : 238 mm
Height : 180 mm

Equipped with

Quantity : 1
Designation : 50W LED
Power : 50 W
Colour : 4500K
Luminous flux : 3002 lm

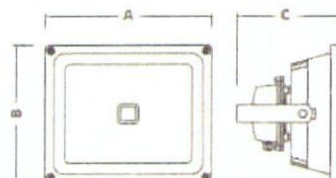
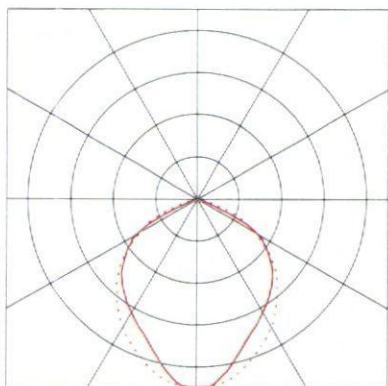
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1 Luminaire data

1.1 Tamlite, INFINITY SF (EXPE50)

1.1.1 Data sheet



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2 Yard 1

2.1 Description, Yard 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

1	9	Tamlite	
		Order No.	: EXPE50
		Luminaire name	: INFINITY SF
		Equipment	: 1 x 50W LED 50 W / 3002 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Tamlite INFINITY SF EXPE50									
1	-19.27	67.28	3.00	103.07	0.00	-50.00	-20.08	70.76	0.00
2	4.48	45.95	3.00	3.05	0.00	-50.00	8.05	46.14	0.00
3	-7.34	56.67	3.00	46.94	0.00	-50.00	-4.90	59.28	0.00
4	-23.63	38.48	3.00	227.59	0.00	-50.00	-26.05	35.84	0.00
5	-11.76	27.87	3.00	267.68	0.00	-50.00	-11.90	24.30	0.00
6	-14.52	88.54	3.00	180.00	0.00	-50.00	-18.09	88.54	0.00
7	-3.55	36.82	3.00	317.22	0.00	-50.00	-0.93	34.39	0.00
8	-27.60	58.52	3.00	131.77	0.00	-50.00	-29.98	61.18	0.00
9	-34.08	70.39	3.00	90.00	0.00	-50.00	-34.08	73.96	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 1.1	0.00	0.00	0.00	99.33	100.21	0.00	0.00	0.00

Others

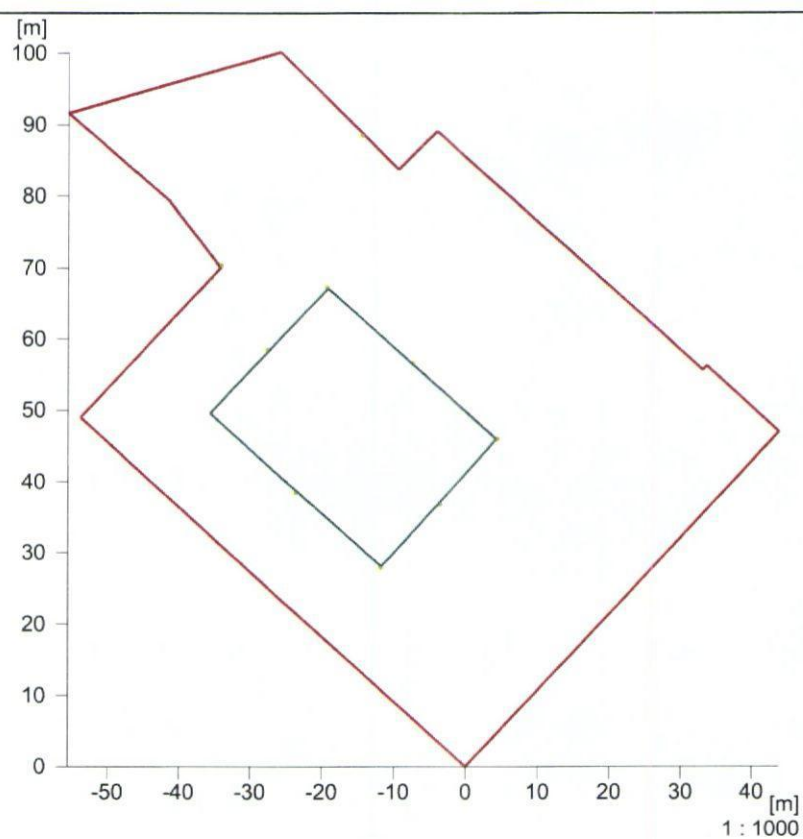
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
A 1	-11.75	28.08	0.00	39.94	39.00	0.00	0.00	0.00

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2.1 Description, Yard 1

2.1.2 Floor plan



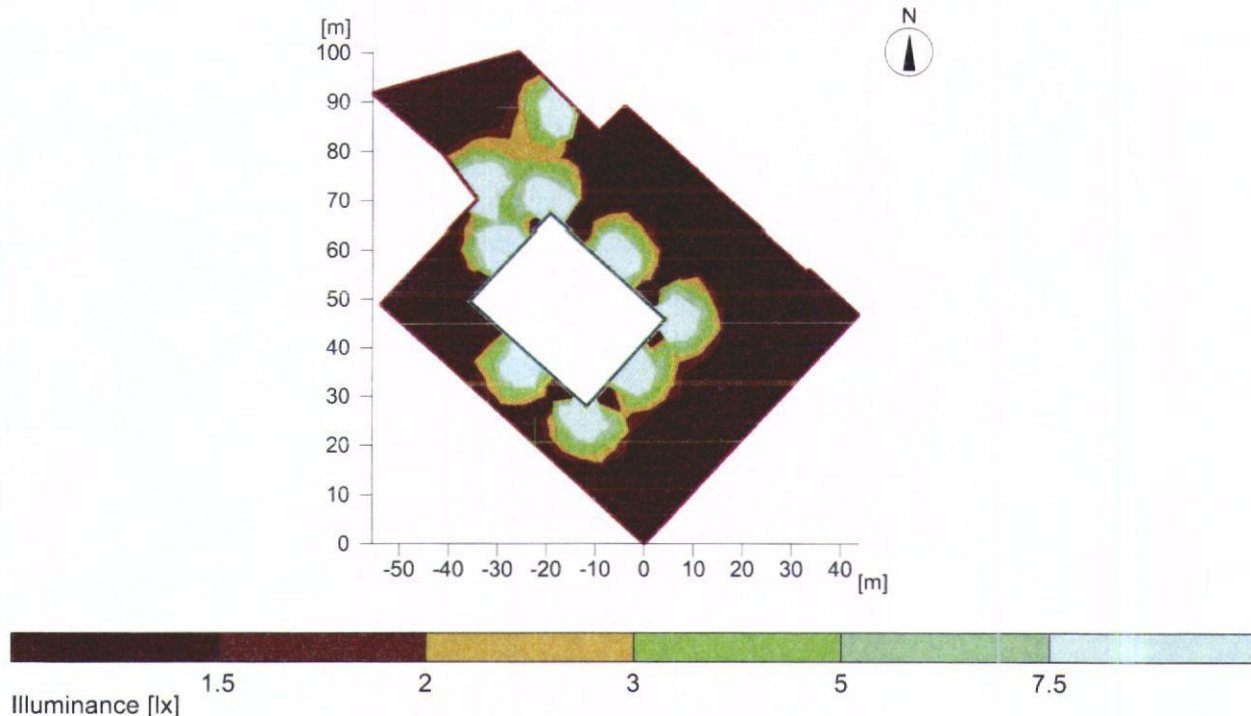
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2 Yard 1

2.2 Summary, Yard 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 photometric centre height.
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (5138.34 m²)

27018 lm
 441.9 W
 0.09 W/m² (2.38 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 3.61 lx
 Emin 0.03 lx
 Emin/Eav (Uo) 0.01
 Emin/Emax (Ud) 0.00
 Position 0.00 m

Type No.\Make

1	9	Tamlite	
		Order No.	: EXPE50
		Luminaire name	: INFINITY SF
		Equipment	: 1 x 50W LED 50 W / 3002 lm

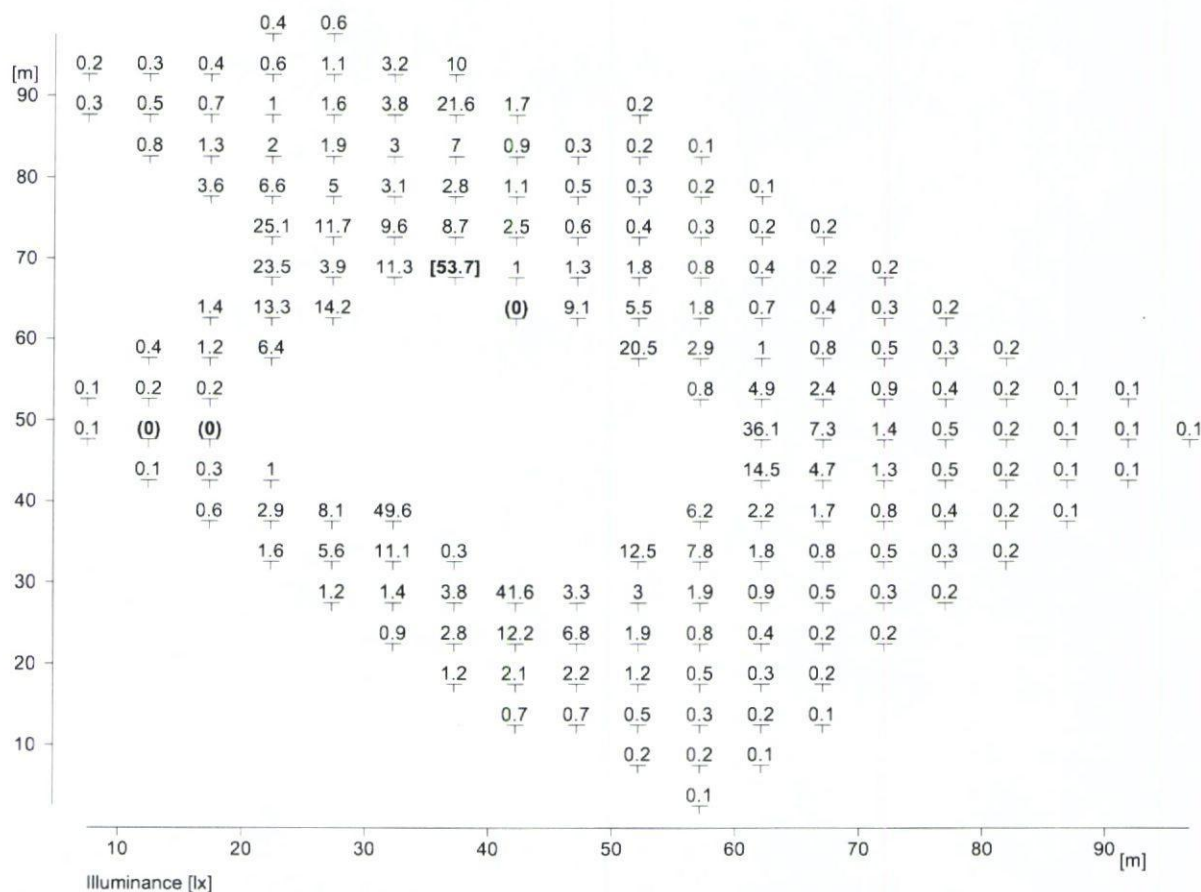
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2 Yard 1

2.3 Calculation results, Yard 1

2.3.1 Table, Reference plane 1.1 (E)



Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 3.6 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 53.7 lx
Uniformity U _o	Emin/Eav	: 1 : 121.16 (0.01)
Diversity U _d	Emin/Emax	: 1 : 1804.20 (0.00)

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3 Yard 2

3.1 Description, Yard 2

3.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

1	8	Tamlite	
		Order No.	: EXPE50
		Luminaire name	: INFINITY SF
		Equipment	: 1 x 50W LED 50 W / 3002 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Tamlite INFINITY SF EXPE50									
1	64.06	-10.50	3.03	124.83	0.00	-50.00	62.00	-7.53	0.00
2	22.93	-20.61	3.03	47.22	0.00	-50.00	25.39	-17.95	0.00
3	6.59	-5.74	3.03	47.22	0.00	-50.00	9.05	-3.08	0.00
4	89.81	5.13	3.03	124.83	0.00	-50.00	87.75	8.10	0.00
5	41.48	-24.55	3.03	124.83	0.00	-50.00	39.42	-21.59	0.00
6	47.07	43.68	3.03	221.55	0.00	-50.00	44.37	41.29	0.00
7	78.55	29.54	3.03	221.55	0.00	-50.00	75.85	27.14	0.00
8	23.45	24.89	3.00	317.15	0.00	-50.00	26.07	22.46	0.00

Structural elements

Virtual measuring surface

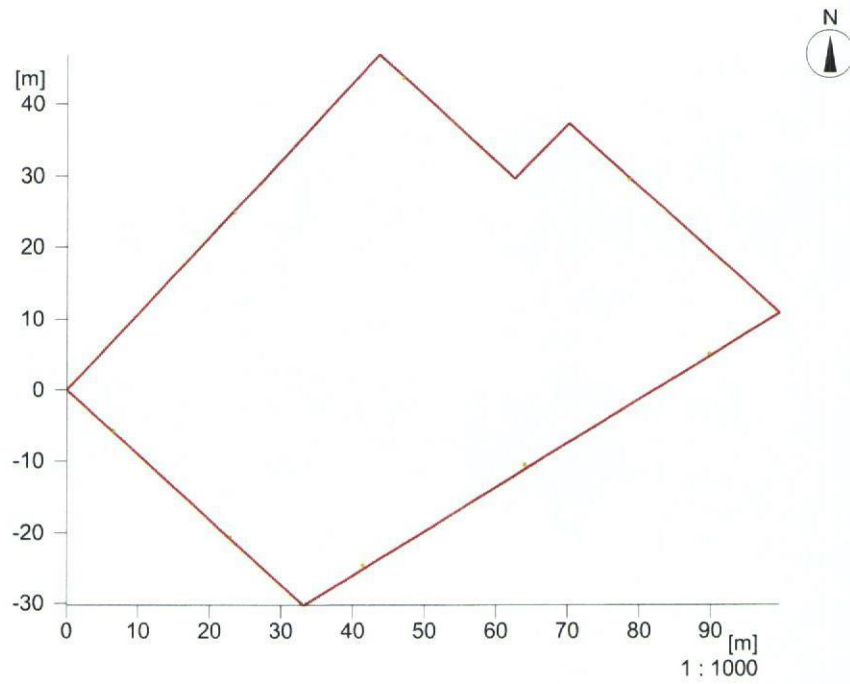
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1.1	0.00	-0.00	0.00	99.64	77.29	0.00	0.00	0.00

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3.1 Description, Yard 2

3.1.2 Floor plan



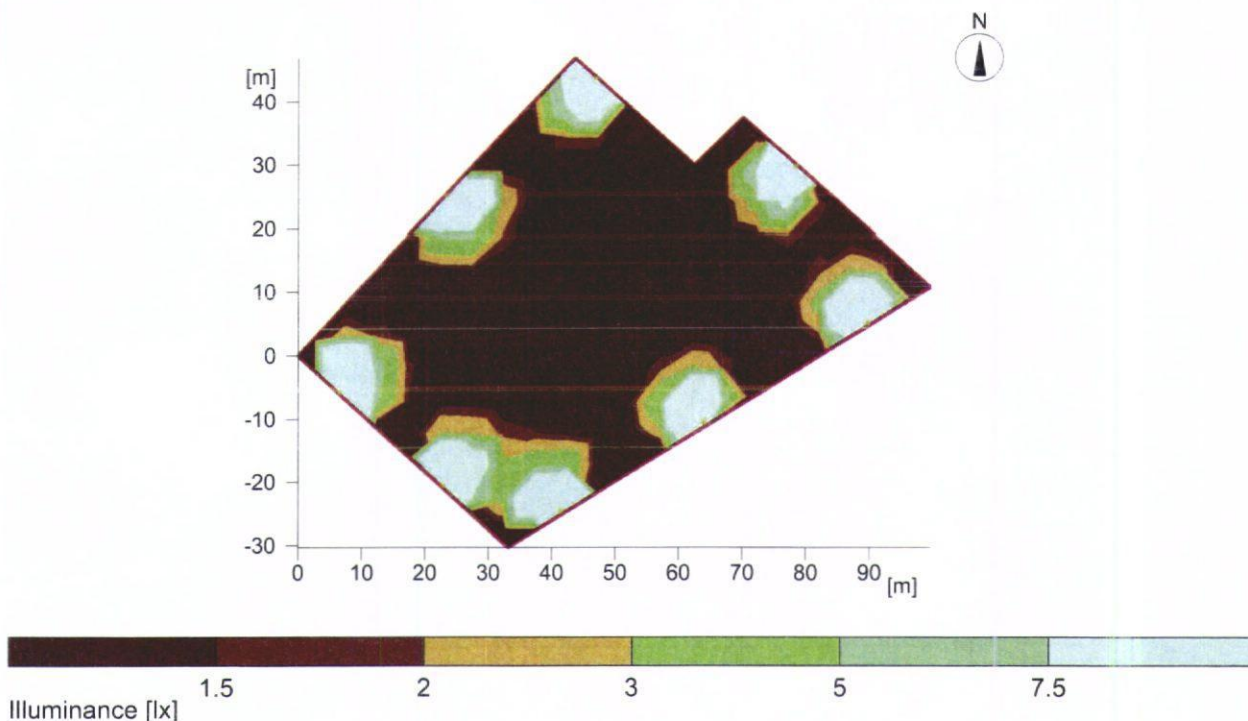
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3 Yard 2

3.2 Summary, Yard 2

3.2.1 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 (3865.36 m²)

24016 lm
 392.8 W
 0.10 W/m² (2.76 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 3.68 lx
 Emin 0.07 lx
 Emin/Eav (Uo) 0.02
 Emin/Emax (Ud) 0.00
 Position 0.00 m

Type No.\Make

1	8	Tamlite	
		Order No.	: EXPE50
		Luminaire name	: INFINITY SF
		Equipment	: 1 x 50W LED 50 W / 3002 lm

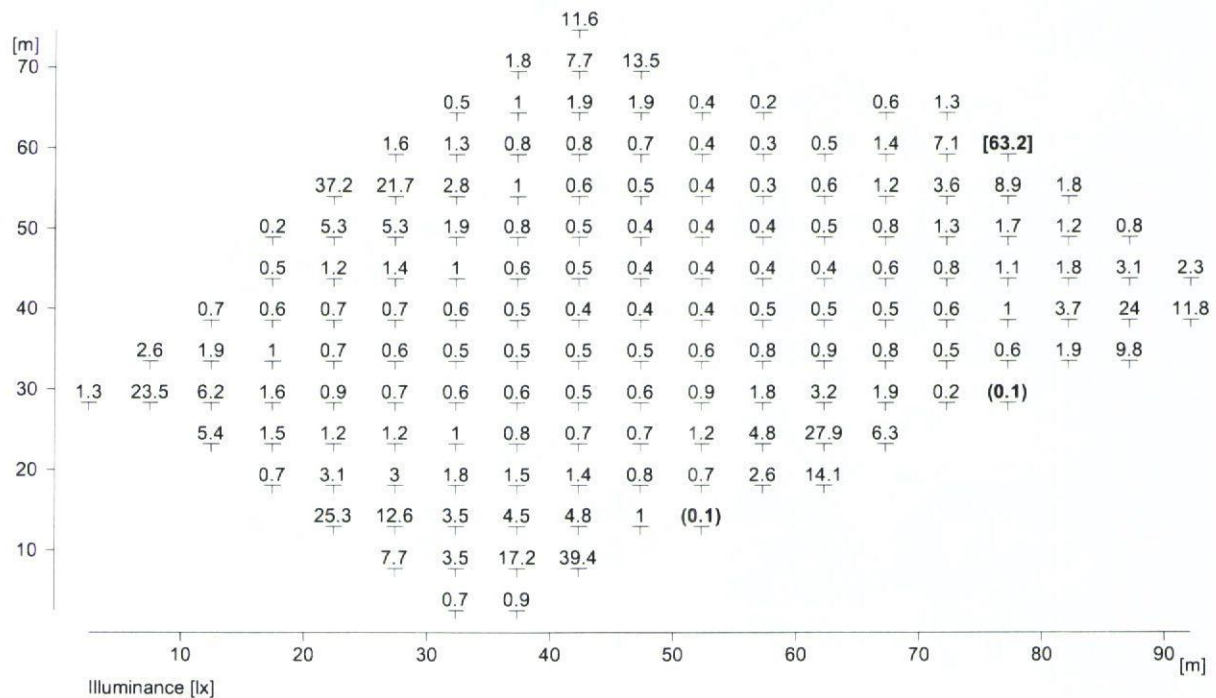
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3 Yard 2

3.3 Calculation results, Yard 2

3.3.1 Table, Reference plane 1.1 (E)



Height of the reference plane	: 0.00 m
Average illuminance	Eav : 3.7 lx
Minimum illuminance	Emin : 0.1 lx
Maximum illuminance	Emax : 63.2 lx
Uniformity Uo	Emin/Eav : 1 : 49.64 (0.02)
Diversity Ud	Emin/Emax : 1 : 852.89 (0.00)