Westleigh Developments

Installation : Derby Road, Hinckley

Project number : Email
Customer : -
Processed by : Craig Wood
Date : 08.12.2010

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 Tamlite, TAMGROVE (!TMGR70MBI)

1.1.1 Data sheet

Manufacturer: Tamlite

!TMGR70MBI EXTERIOR - Road & Car Park TAMGROVE
HID
TAMGROVE
Road
Compact medium range lantern

Features
Compact, flat glass lantern
Adjustable side or pole-top (42-76mm dia.) spigot can be configured on site
Sealed optical assembly
Luminaire can be adjusted to a maximum 20º inclination for post top mounting and a maximum 10º for side entry
IP66 lamp compartment
IP43 gear compartment
Maximum projected area = 0.122m2

Construction
High impact polyamide body in light grey RAL7035
Flat etched toughened front glass
Triple pole mains terminal block
Supplied with lamp and gear

To order / specify
Compact, polycarbonate road lantern with flat etched glass for use with low wattage discharge lamps as per Tamlite 'TAMGROVE' range

Options
PC|Photocell

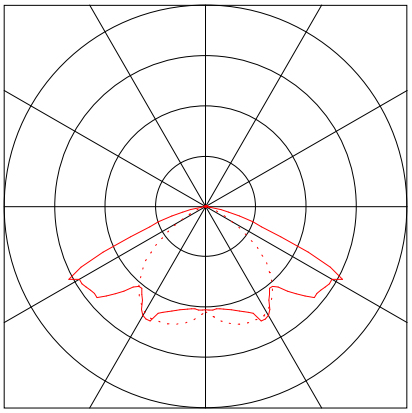
Diagram Dimensions
A 610
B 310
C 334

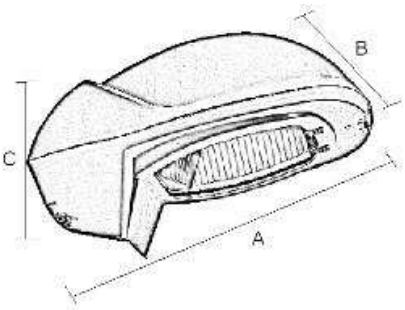
Luminaire data			**Equipped with**		
Luminaires efficiency	:	76.72% (A40) ⇓ 99.0% ⇑ 1.0%	Number of	:	1
			Designation	:	MBI
Control gear	:	conventional ballast, comp., without ignition device	Power	:	70 W
			Colour	:	ww/2200K
System power	:	76.3 W	Luminous flux	:	5600 lm
Length	:	610 mm			
Width	:	310 mm			
Height	:	334 mm			

1 Luminaire data

1.1 Tamlite, TAMGROVE (!TMGR70MBI)

1.1.1 Data sheet



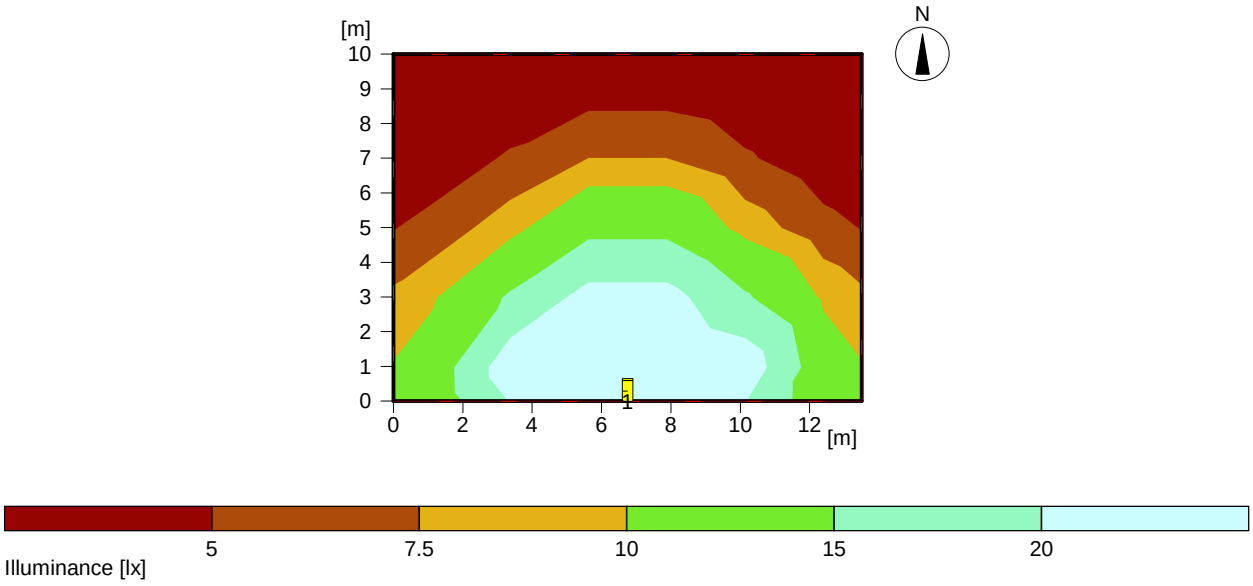




2 Area A

2.1 Summary, Area A

2.1.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	6.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	5600 lm
Total power	76.3 W
Total power per area (135.00 m²)	0.57 W/m² (5.26 W/m²/100lx)

Illuminance

Average illuminance	Eav	10.7 lx
Minimum illuminance	Emin	1.9 lx
Maximum illuminance	Emax	25.6 lx
Uniformity g1	Emin/Em	1:5.58 (0.18)
Uniformity g2	Emin/Emax	1:13.3 (0.08)

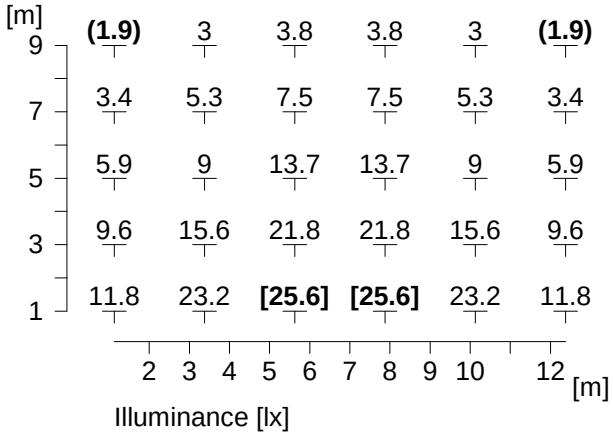
Type No.\Make

		Tamlite	
1	1	Order No.	: !TMGR70MBI
		Luminaire name	: TAMGROVE
		Equipment	: 1 x MBI 70 W / 5600 lm

2 Area A

2.2 Calculation results, Area A

2.2.1 Table, Reference plane 1 (E)

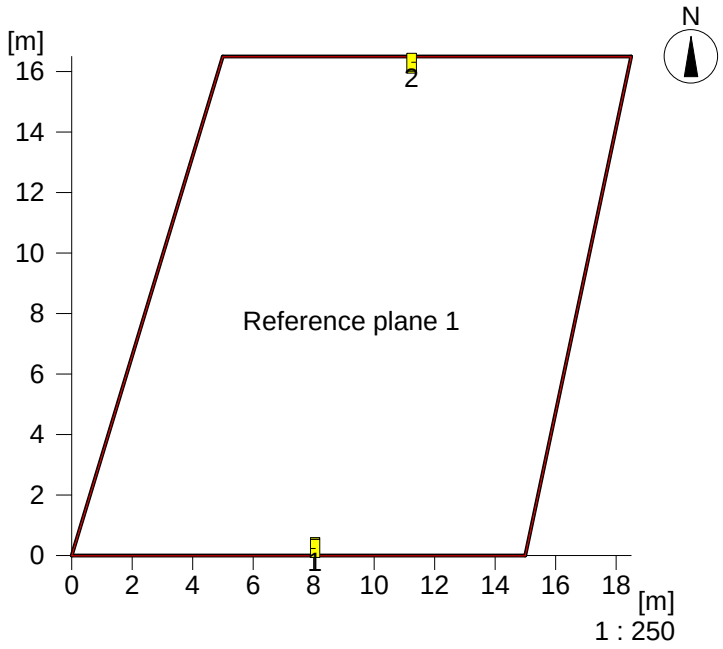


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 10.7 lx
Minimum illuminance	Emin	: 1.9 lx
Maximum illuminance	Emax	: 25.6 lx
Uniformity g1	Emin/Eav	: 1 : 5.58 (0.18)
Uniformity g2	Emin/Emax	: 1 : 13.28 (0.08)

3 Area B

3.1 Description, Area B

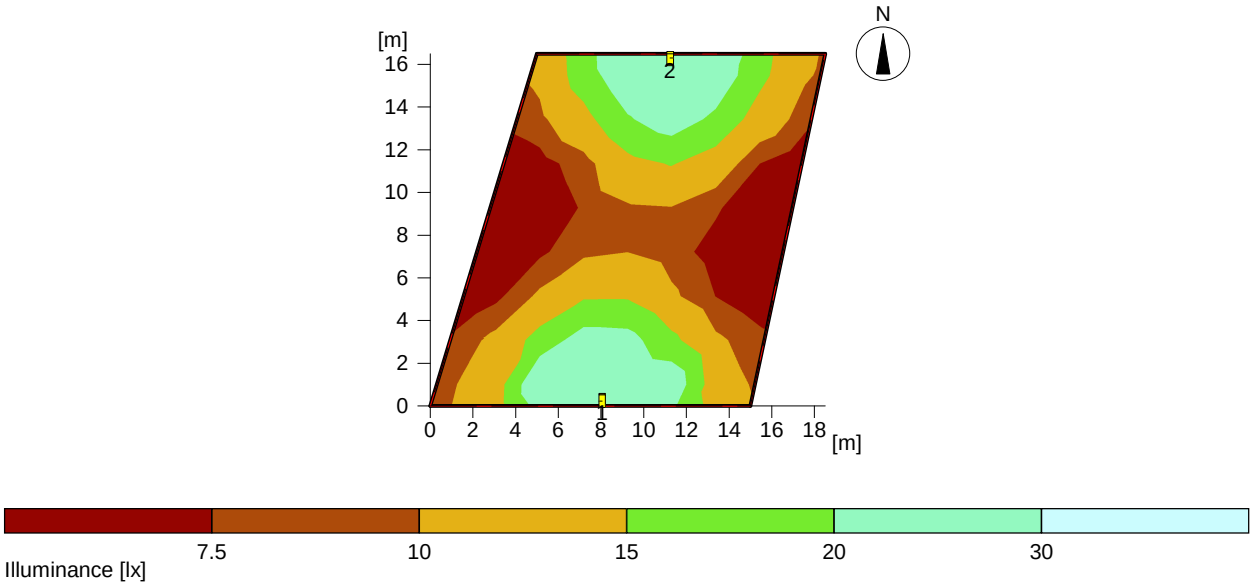
3.1.1 Floor plan



3 Area B

3.2 Summary, Area B

3.2.1 Result overview, Reference plane 1



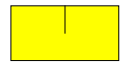
General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	6.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	11200 lm
Total power	152.6 W
Total power per area (235.13 m²)	0.65 W/m² (5.06 W/m²/100lx)

Illuminance

Average illuminance	Eav	12.8 lx
Minimum illuminance	Emin	3.9 lx
Maximum illuminance	Emax	26.3 lx
Uniformity g1	Emin/Em	1:3.29 (0.3)
Uniformity g2	Emin/Emax	1:6.74 (0.15)

Type No.\Make



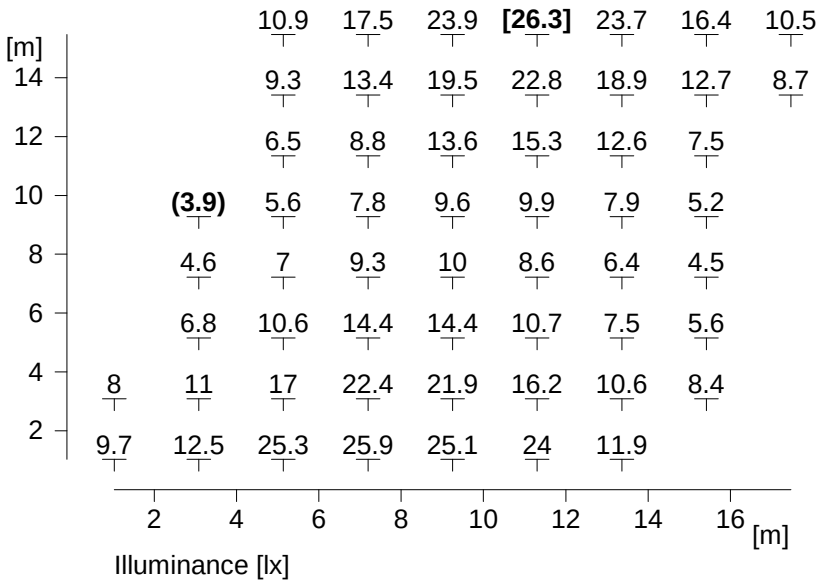
Tamlite

Order No.	: !TMGR70MBI
Luminaire name	: TAMGROVE
Equipment	: 1 x MBI 70 W / 5600 lm

3 Area B

3.3 Calculation results, Area B

3.3.1 Table, Reference plane 1 (E)

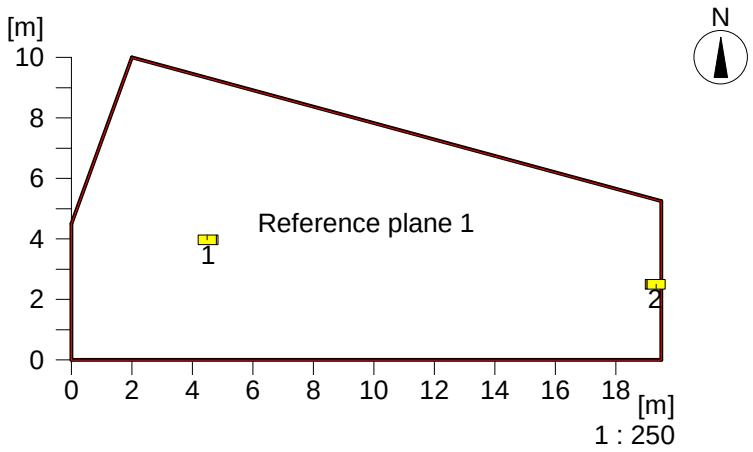


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 12.8 lx
Minimum illuminance	Emin	: 3.9 lx
Maximum illuminance	Emax	: 26.3 lx
Uniformity g1	Emin/Eav	: 1 : 3.29 (0.30)
Uniformity g2	Emin/Emax	: 1 : 6.74 (0.15)

4 Area C

4.1 Description, Area C

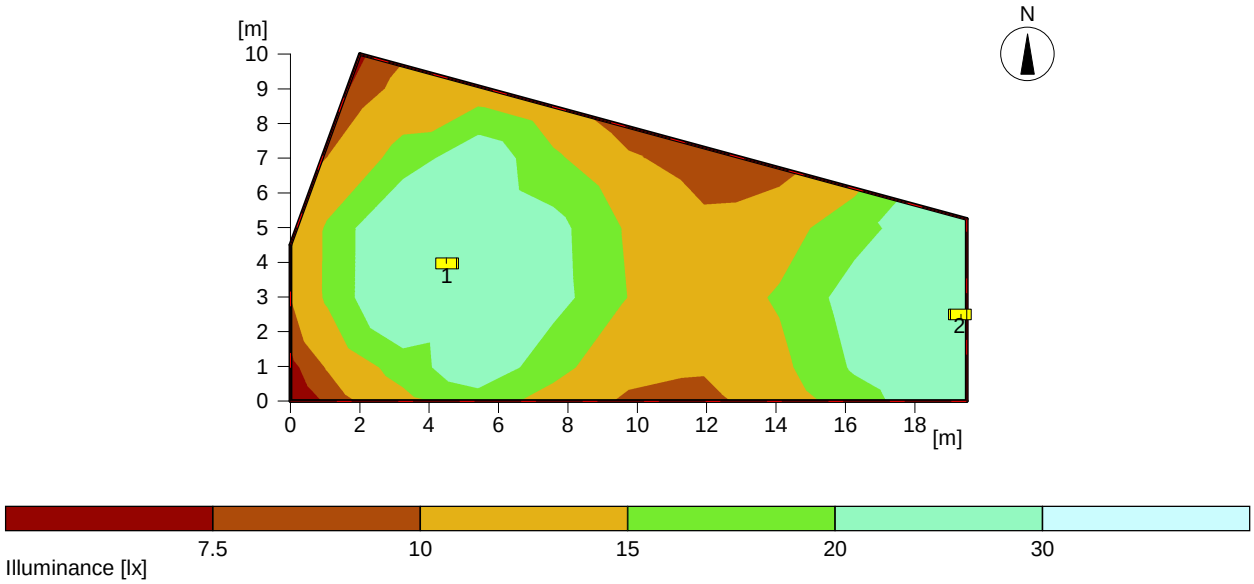
4.1.1 Floor plan



4 Area C

4.2 Summary, Area C

4.2.1 Result overview, Reference plane 1



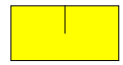
General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	6.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	11200 lm
Total power	152.6 W
Total power per area (147.94 m²)	1.03 W/m² (5.93 W/m²/100lx)

Illuminance

Average illuminance	Eav	17.4 lx
Minimum illuminance	Emin	8.1 lx
Maximum illuminance	Emax	27.5 lx
Uniformity g1	Emin/Em	1:2.15 (0.47)
Uniformity g2	Emin/Emax	1:3.39 (0.29)

Type No.\Make



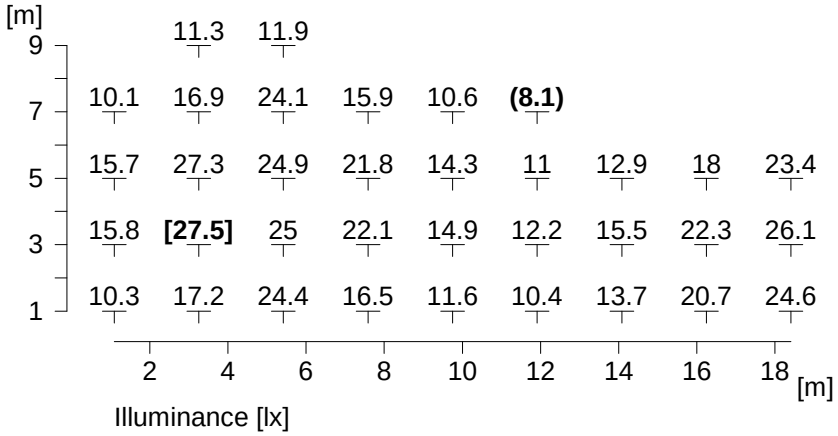
Tamlite

Order No.	: !TMGR70MBI
Luminaire name	: TAMGROVE
Equipment	: 1 x MBI 70 W / 5600 lm

4 Area C

4.3 Calculation results, Area C

4.3.1 Table, Reference plane 1 (E)

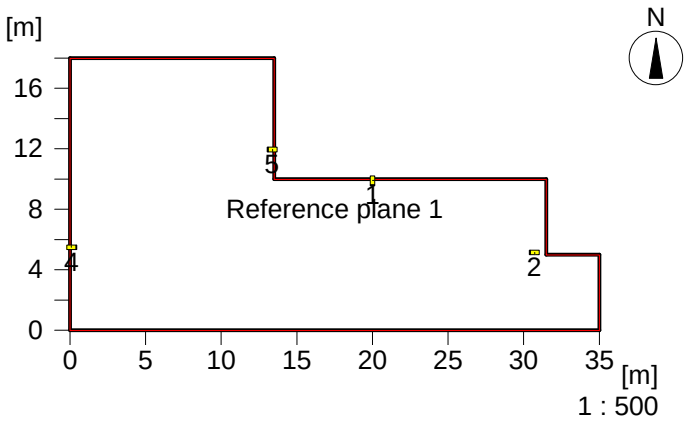


Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 17.4 lx
Minimum illuminance	Emin	: 8.1 lx
Maximum illuminance	Emax	: 27.5 lx
Uniformity g1	Emin/Eav	: 1 : 2.15 (0.47)
Uniformity g2	Emin/Emax	: 1 : 3.39 (0.29)

5 Area D

5.1 Description, Area D

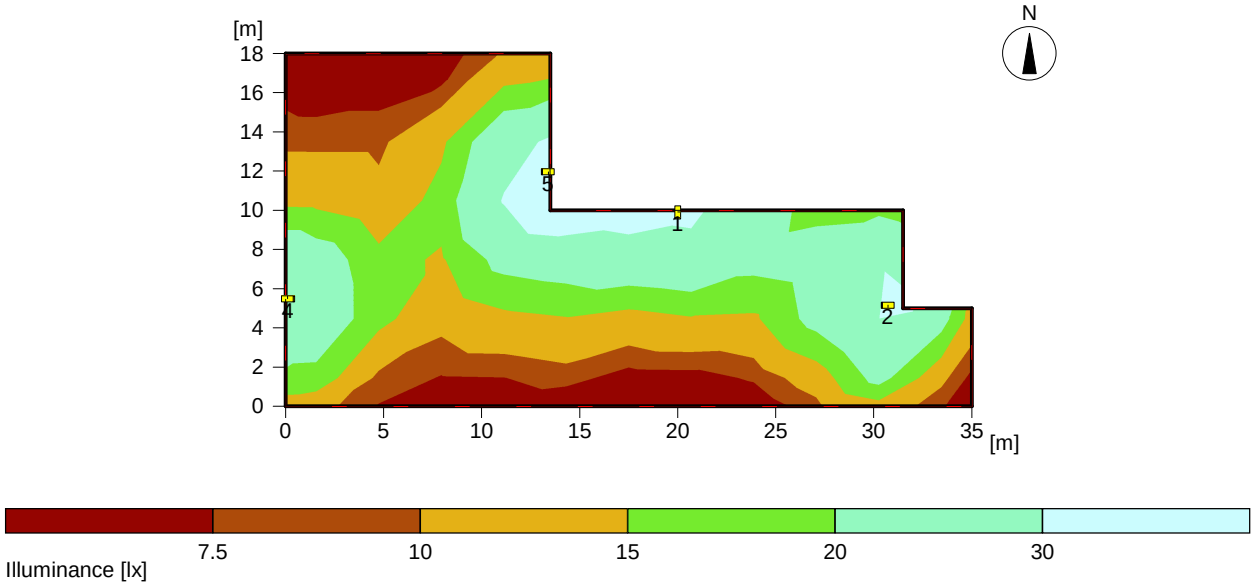
5.1.1 Floor plan



5 Area D

5.2 Summary, Area D

5.2.1 Result overview, Reference plane 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
photometric centre height. [m]:	6.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	22400 lm
Total power	305.2 W
Total power per area (440.50 m²)	0.69 W/m² (4.33 W/m²/100lx)

Illuminance

Average illuminance	Eav	16 lx
Minimum illuminance	Emin	5.1 lx
Maximum illuminance	Emax	30.6 lx
Uniformity g1	Emin/Em	1:3.15 (0.32)
Uniformity g2	Emin/Emax	1:6.02 (0.17)

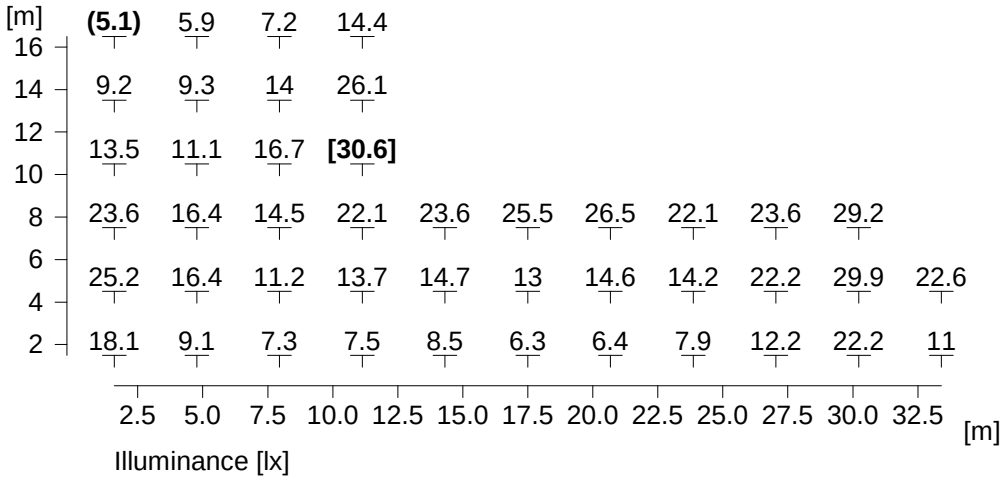
Type No.\Make

		Tamlite	
1	4	Order No.	: !TMGR70MBI
		Luminaire name	: TAMGROVE
		Equipment	: 1 x MBI 70 W / 5600 lm

5 Area D

5.3 Calculation results, Area D

5.3.1 Table, Reference plane 1 (E)



Height of the reference plane		: 0.00 m
Average illuminance	Eav	: 16 lx
Minimum illuminance	Emin	: 5.1 lx
Maximum illuminance	Emax	: 30.6 lx
Uniformity g1	Emin/Eav	: 1 : 3.15 (0.32)
Uniformity g2	Emin/Emax	: 1 : 6.02 (0.17)