

External Lux Plot

Installation : Dovedale

Project number : DOV/05/17

Customer : Feltham Construction

Processed by : D.J.M

Date : 23.05.2017

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 ANSELL, Amenity - Taurus LED (ATALEDB/1000)

1.1.1 Data sheet

Manufacturer: ANSELL



ATALEDB/1000 **Bollard / pole mounted luminaires** **Amenity - Taurus LED**

ATALEDB/1000

Amenity

Taurus LED

Supplied c/w Integral Driver

- Robust die-cast aluminium bollard with a textured graphite finish
- Die-cast aluminium head with polycarbonate lens
- Comparable performance to 70W HQI
- Integral emergency option
- Supplied c/w root mounting kit
- LED lifespan L70 57,000 hours
- Non-dimmable

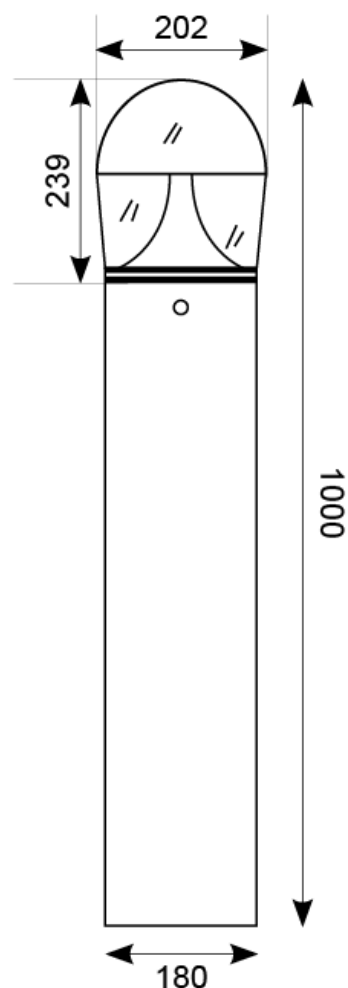
Luminaire arrangement for:

ATALEDB/1000

ATALEDB_H :

Position is the LDC position of the luminaire.

Position			Rotation		
x[m]	y[m]	z[m]	Z[°]	C0[°]	C90[°]
0.000	0.000	0.880	0	0	0



1 Luminaire data

1.1 ANSELL, Amenity - Taurus LED (ATALEDB/1000)

1.1.1 Data sheet

ATALEDB_H

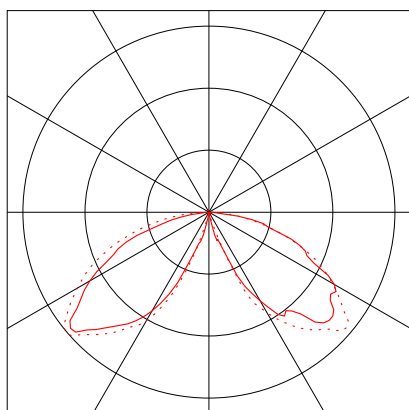
Luminaire data

Absolute Photometry
Luminaire efficacy : 55.18 lm/W
Classification : A20 ↓ 100.0% ↑ 0.0%
CIE Flux Codes : 24 66 93 100 100
UGR 4H 8H : 25.2 / 25.1
Control gear : Electronic ballast
Power : 25 W
Luminous flux : 1379.4 lm

Dimensions : Ø202 mm x 239 mm

Equipped with

Quantity : 1
Designation :
Colour :



1 Luminaire data

1.2 ANSELL, Amenity - Doppio LED (ADOLEDWL)

1.2.1 Data sheet

Manufacturer: ANSELL



ADOLEDWL Ceiling / wall-mounted luminaires Amenity - Doppio LED

ADOLEDWL

Amenity Directional Wall

Doppio LED

Supplied c/w Integral Driver

LED 20W Cool White

High performance architectural bi-directional wall light

Exceeds performance of 50W HQI

Die-cast aluminium construction with graphite paint finish

20° beam angle

40,000 hours average lifetime

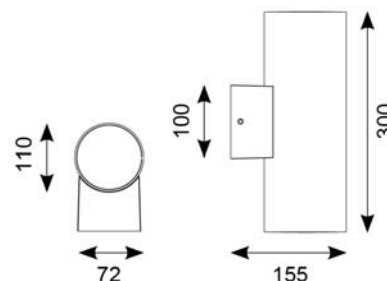
Non-dimmable

Luminaire arrangement for:

ADOLEDWL

	Position			Rotation		
	x[m]	y[m]	z[m]	Z[°]	C0[°]	C90[°]
ADOLEDWL_H :	0.150	0.000	0.000	0	0	0
ADOLEDWL_H :	0.150	0.000	0.150	180	0	180

Position is the LDC position of the luminaire.



ADOLEDWL_H

Luminaire data

Luminaire efficiency	: 73.9%
Luminaire efficacy	: 24.78 lm/W
Classification	: A60 ↓100.0% ↑0.0%
CIE Flux Codes	: 85 99 100 100 74
UGR 4H 8H	: 20.2 / 20.3
Control gear	: Electronic ballast
Power	: 34 W
Luminous flux	: 842.5 lm

Dimensions : Ø110 mm x 150 mm

Equipped with

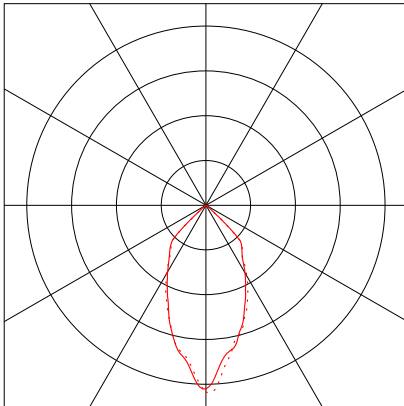
Quantity	: 1
Designation	:
Colour	:
Luminous flux	: 1140 lm

Object : External Lux Plot
Installation : Dovedale
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1 Luminaire data

1.2 ANSELL, Amenity - Doppio LED (ADOLEDWL)

1.2.1 Data sheet



1 Luminaire data

1.3 ANSELL, Amenity - Vision 3 LED (AVILED/GR+Sld_Eyld)

1.3.1 Data sheet

Manufacturer: ANSELL



AVILED/GR+Sld_Eyld Ceiling / wall-mounted luminaires Amenity - Vision 3 LED

AVILED/GR+Sld_Eyld

Amenity Polycarbonate Ceiling / Wall

Vision 3 LED

Supplied c/w Integral Driver

LED 20W Graphite Solid Eyelid

IP65 polycarbonate 3-In-1 LED luminaire for external applications

Each fitting supplied with plain, louvred eyelid and plain eyelid covers

Exceeds performance of CFL equivalents

Four conduit entry points

Integral die-cast aluminium heatsink provides thermally managed high performance

40,000 hours average lifetime

Non-dimmable

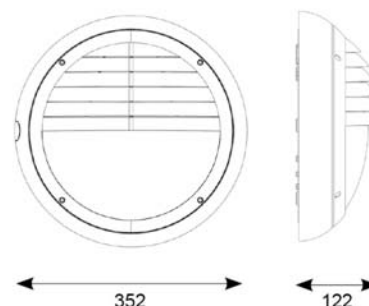
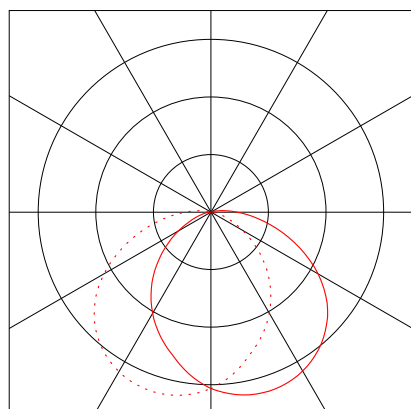
Luminaire data

Luminaire efficiency : 37.6%
 Luminaire efficacy : 34.18 lm/W
 Classification : A40 ↓98.1% ↑1.9%
 CIE Flux Codes : 45 76 93 98 38
 UGR 4H 8H : 21.6 / 21.6
 Control gear : Electronic ballast
 Power : 19.8 W
 Luminous flux : 676.8 lm

Equipped with

Quantity : 1
 Designation :
 Colour :
 Luminous flux : 1800 lm

Dimensions : Ø352 mm x 122 mm



1 Luminaire data

1.4 AEC ILLUMINAZIONE SRL, MASTER 6... (40.5w (2 module) 700mA Master...)

1.4.1 Data sheet

Manufacturer: AEC ILLUMINAZIONE SRL

40.5w (2 module) 700mA Master 6 with S05 Optic

MASTER 6

Luminaire data

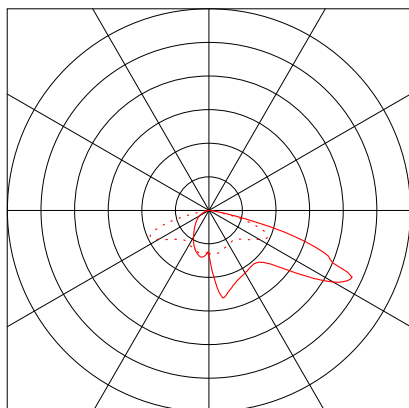
Luminaire efficiency : 100%
Luminaire efficacy : 104 lm/W
Classification : A20 ↓100.0% ↑0.0%
CIE Flux Codes : 27 61 96 100 100
UGR 4H 8H : 40.3 / 37.1
Power : 40 W
Luminous flux : 4160 lm

Equipped with

Quantity : 1
Designation :

Colour :
Luminous flux : 4160 lm

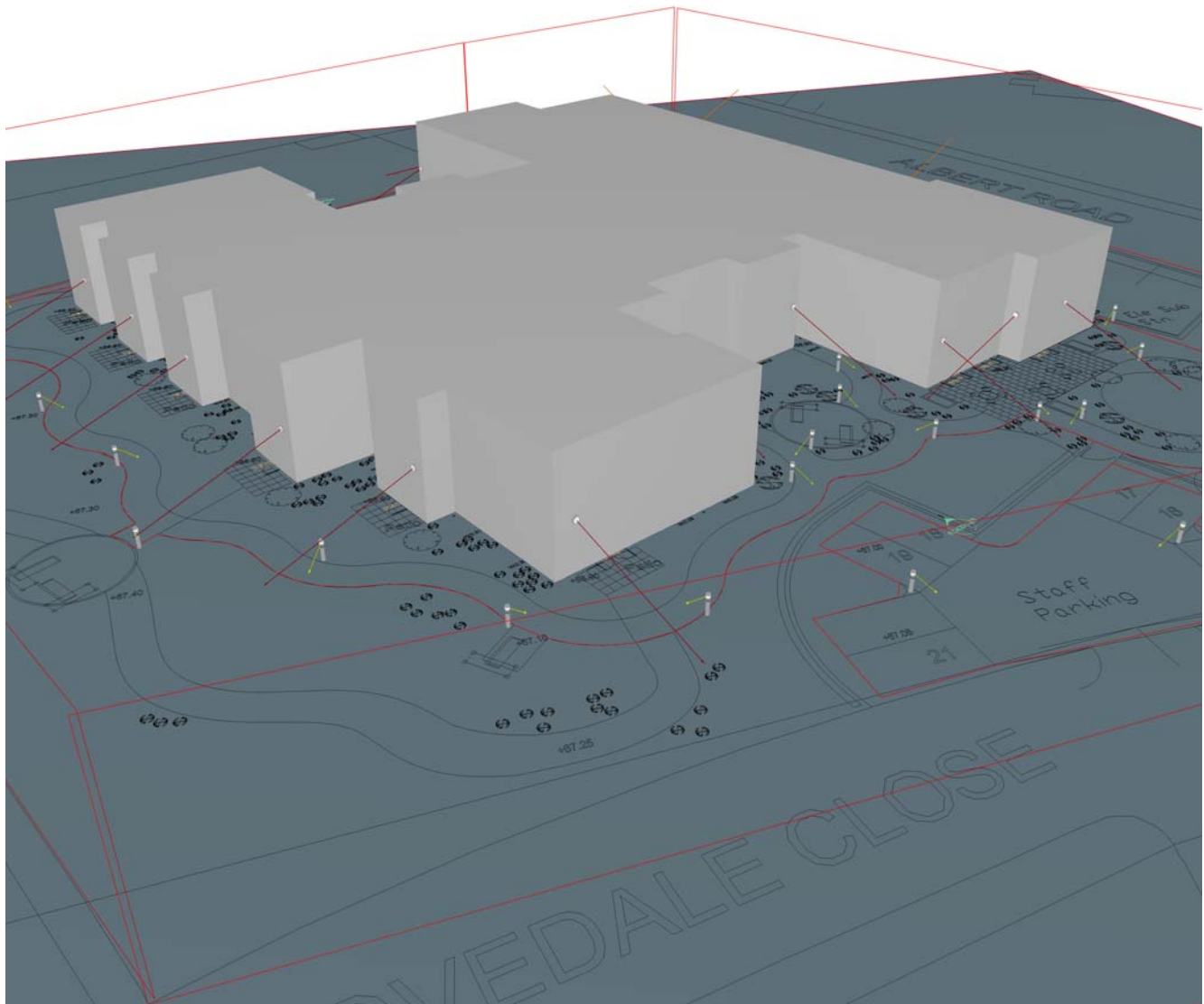
Dimensions : 220 mm x 60 mm x 1 mm



2 Site Plan

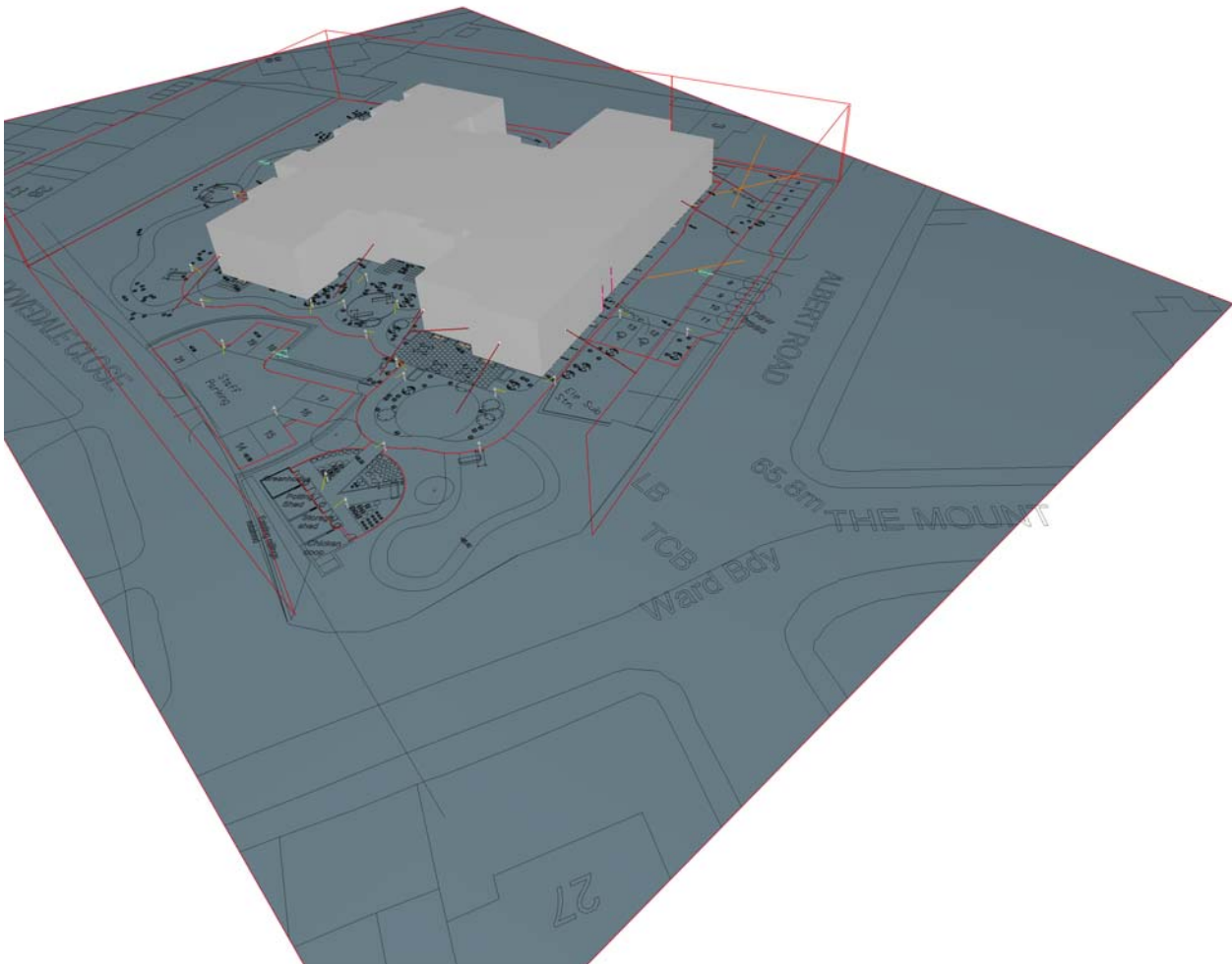
2.1 Description, Site Plan

2.1.1 3D view, View 1



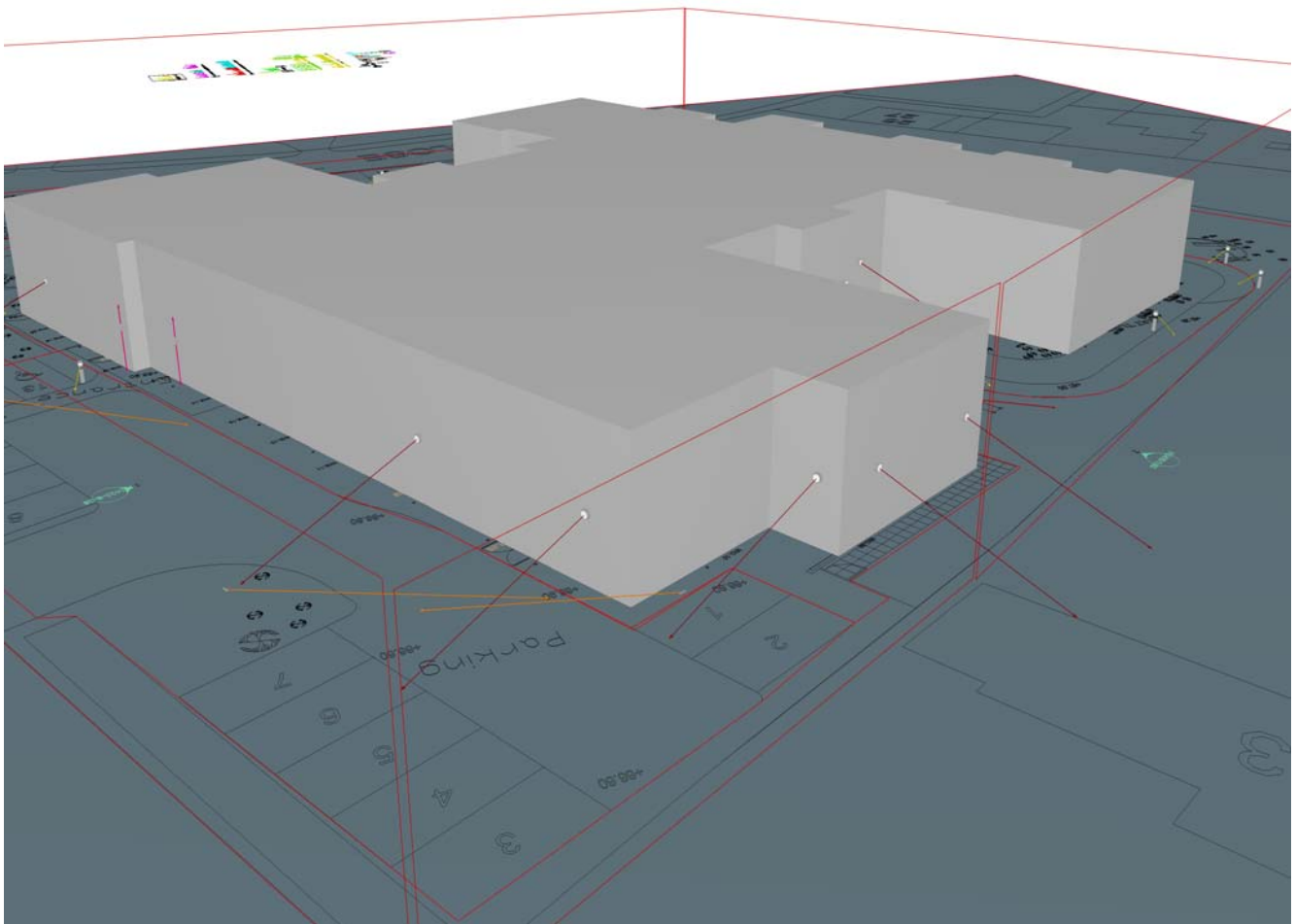
2.1 Description, Site Plan

2.1.2 3D view, View 2



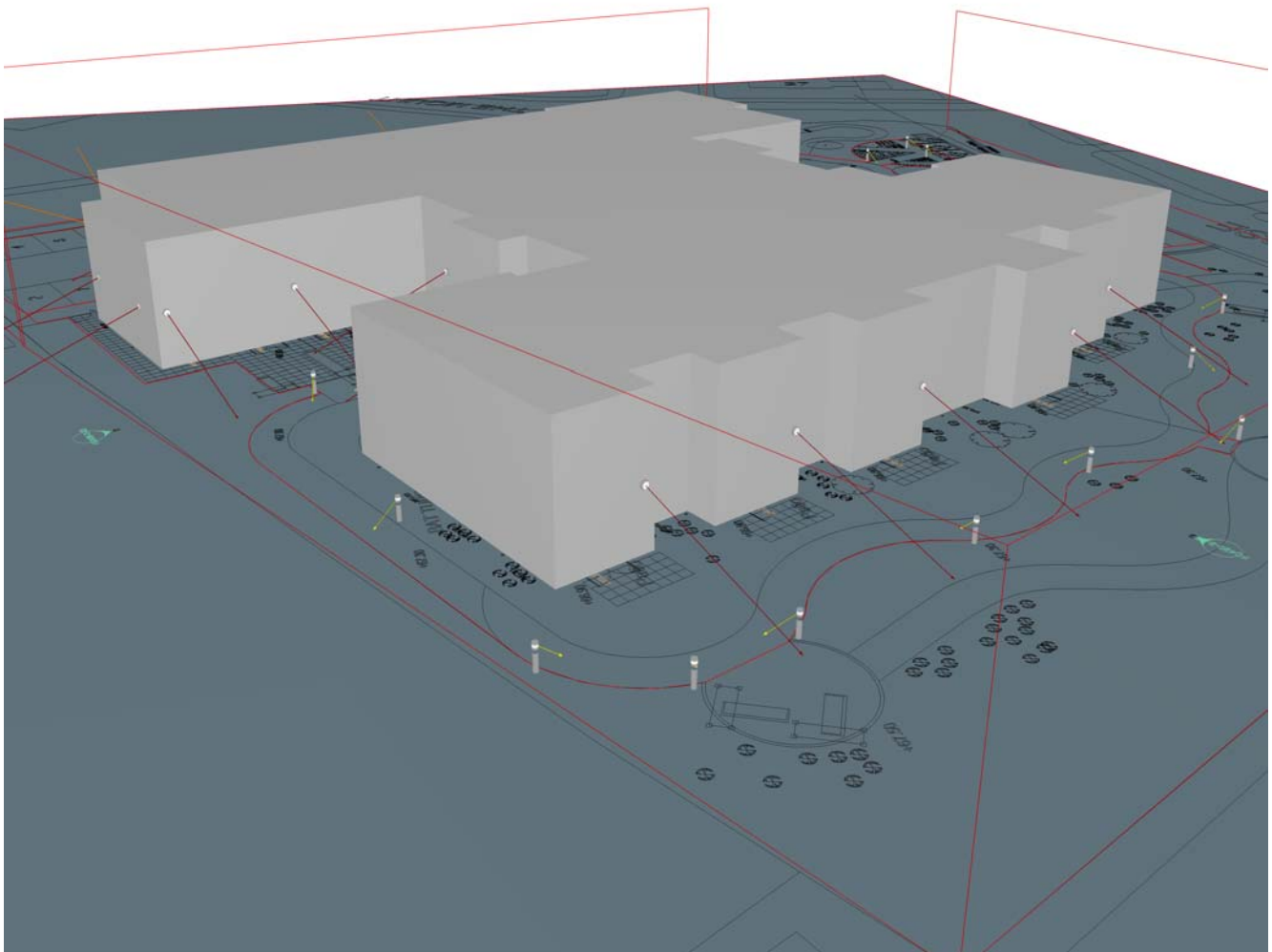
2.1 Description, Site Plan

2.1.3 3D view, View 3



2.1 Description, Site Plan

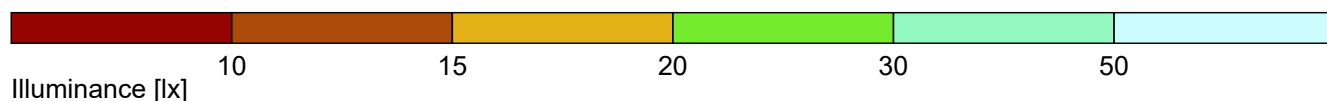
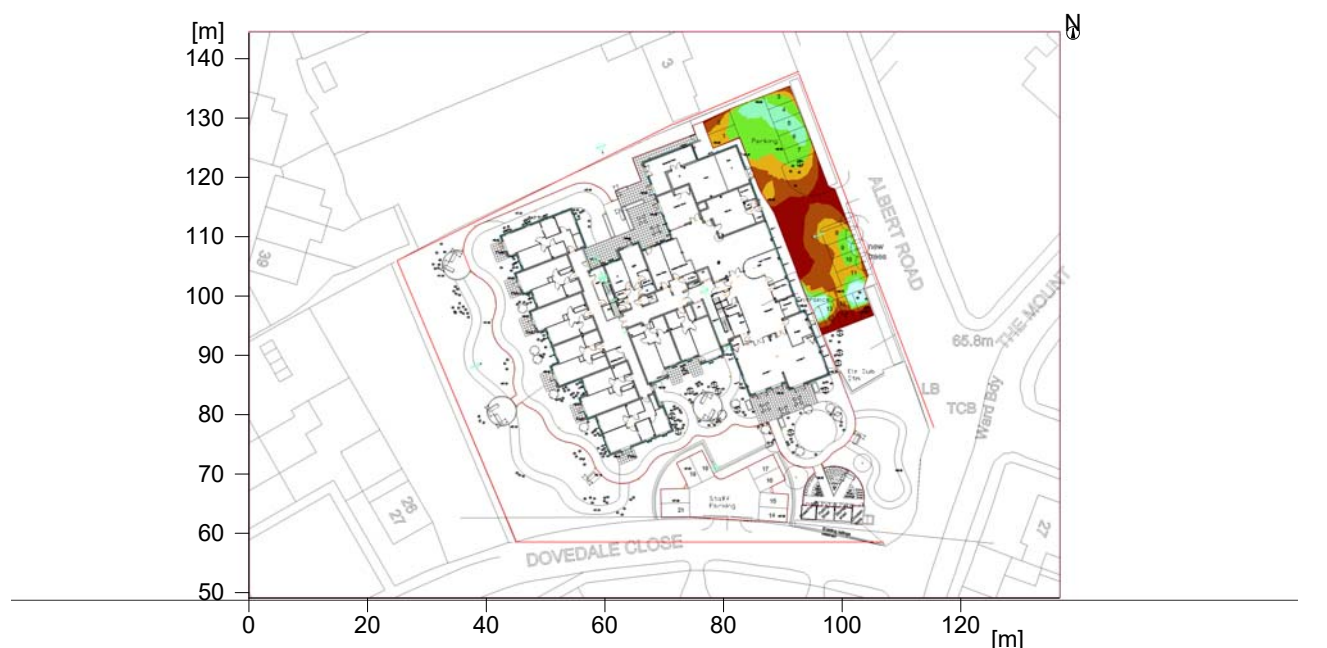
2.1.4 3D view, View 4



2 Site Plan

2.2 Summary, Site Plan

2.2.1 Result overview, Car Park



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	-0.00 m
Maintenance factor	0.85

Total luminous flux of all lamps	97980 lm
Total power	1441.6 W
Total power per area (13010.31 m ²)	0.11 W/m ²
Upward light ratio (ULR)	0.10

Illuminance

Average illuminance	Eav	22 lx
Minimum illuminance	Emin	5 lx
Maximum illuminance	Emax	237 lx
Uniformity Uo	Emin/Em	1:4.45 (0.22)
Diversity Ud	Emin/Emax	1:48.6 (0.02)

Type No. \ Make

- | | |
|---|---|
| ANSELL | |
| 1 | 30 |
|  | Order No. : ATALEDDB/1000
Luminaire name : Amenity - Taurus LED
with : 1 x ATALEDDB_H
Equipment : 1 x 25 W / 1378 lm |
| 3 | 2 |
|  | Order No. : ADOLEDWL
Luminaire name : Amenity - Doppio LED
with : 2 x ADOLEDWL_H
Equipment : 1 x 34 W / 1140 lm |

The ULR value has been calculated without obstruction by other objects.

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2 Site Plan

2.2 Summary, Site Plan

2.2.1 Result overview, Car Park

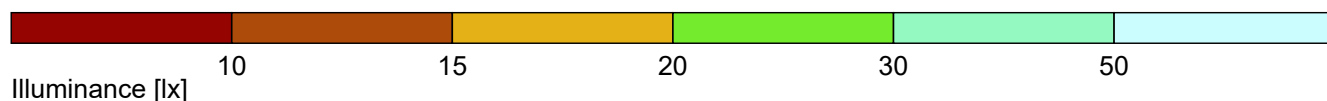
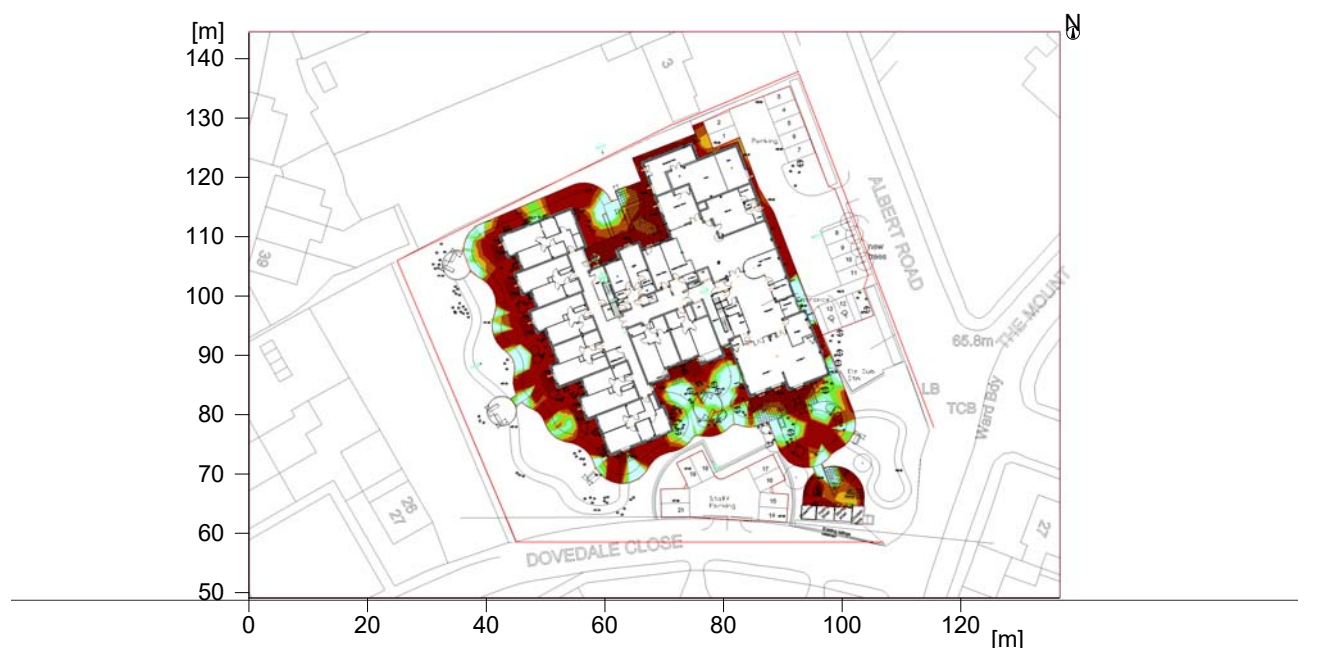
4 22  Order No. : AVILED/GR+Sld_Eyld
Luminaire name : Amenity - Vision 3 LED
Equipment : 1 x 19.8 W / 1800 lm

AEC ILLUMINAZIONE SRL

5 3  Order No. : 40.5w (2 module) 700mA Master 6 with S05 Optic
Luminaire name : MASTER 6
Equipment : 1 x L-MA6-0F2H1-4000-700-2M 40 W / 4160 lm

2.2 Summary, Site Plan

2.2.2 Result overview, Walkways



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux of all lamps	97980 lm
Total power	1441.6 W
Total power per area (13010.31 m ²)	0.11 W/m ²
Upward light ratio (ULR)	0.10

Illuminance

Average illuminance	Eav	22 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	158 lx
Uniformity Uo	Emin/Em	1:641 (0)
Diversity Ud	Emin/Emax	1:4640 (0)

Type No. \ Make

ANSELL		
1	30	Order No. : ATALEDDB/1000
		Luminaire name : Amenity - Taurus LED
		with : 1 x ATALEDDB_H
		Equipment : 1 x 25 W / 1378 lm
3	2	Order No. : ADOLEDWL
		Luminaire name : Amenity - Doppio LED
		with : 2 x ADOLEDWL_H
		Equipment : 1 x 34 W / 1140 lm

The ULR value has been calculated without obstruction by other objects.

Object : External Lux Plot
Installation : Dovedale
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2.2 Summary, Site Plan

2.2.2 Result overview, Walkways

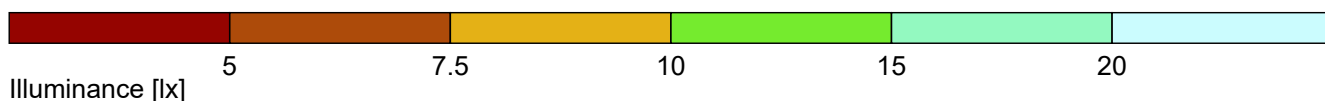
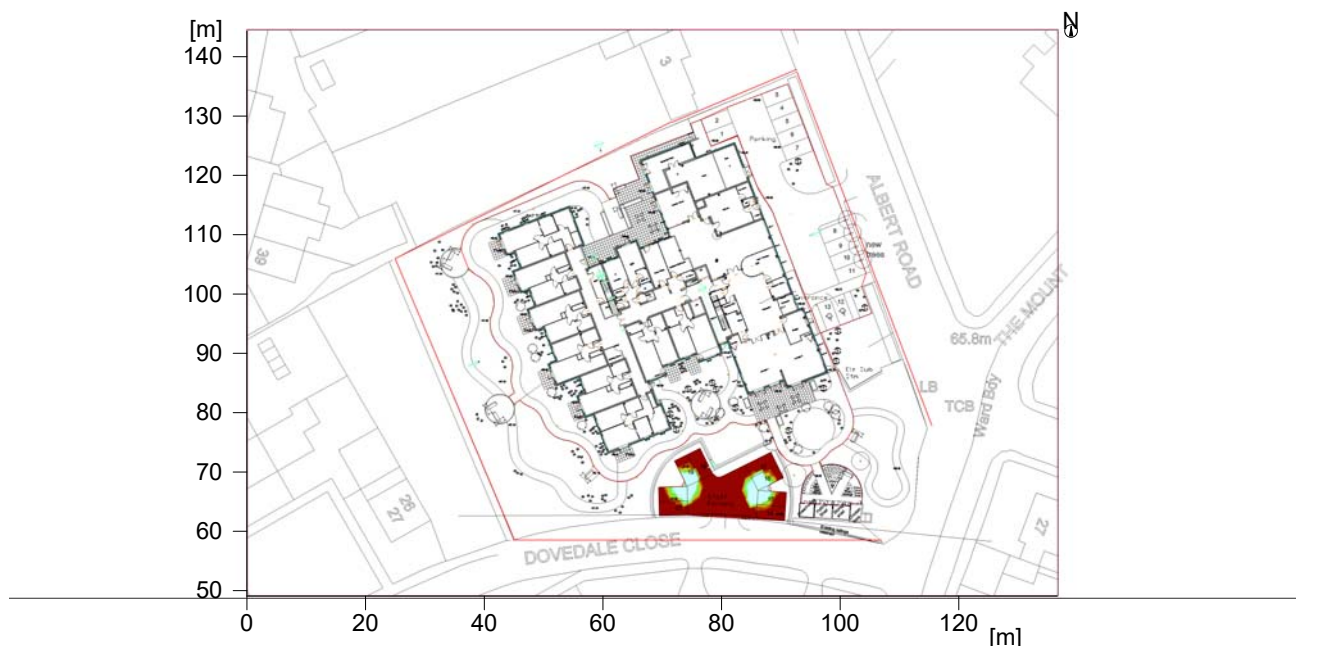
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Luminaire name : Amenity - Vision 3 LED
Equipment : 1 x 19.8 W / 1800 lm

AEC ILLUMINAZIONE SRL

5 3  Order No. : 40.5w (2 module) 700mA Master 6 with S05 Optic
Luminaire name : MASTER 6
Equipment : 1 x L-MA6-0F2H1-4000-700-2M 40 W / 4160 lm

2.2 Summary, Site Plan

2.2.3 Result overview, Staff Car Park



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux of all lamps	97980 lm
Total power	1441.6 W
Total power per area (13010.31 m ²)	0.11 W/m ²
Upward light ratio (ULR)	0.10

Illuminance

Average illuminance	Eav	12 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	186 lx
Uniformity Uo	Emin/Em	1:43.6 (0.02)
Diversity Ud	Emin/Emax	1:660 (0)

Type No. \ Make

ANSELL		
1	30	Order No. : ATALEDB/1000
		Luminaire name : Amenity - Taurus LED
		with : 1 x ATALEDB_H
		Equipment : 1 x 25 W / 1378 lm
3	2	Order No. : ADOLEDWL
		Luminaire name : Amenity - Doppio LED
		with : 2 x ADOLEDWL_H
		Equipment : 1 x 34 W / 1140 lm

The ULR value has been calculated without obstruction by other objects.

Object : External Lux Plot
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2.2 Summary, Site Plan

2.2.3 Result overview, Staff Car Park

4 22  Order No. : AVILED/GR+Sld_Eyld
Luminaire name : Amenity - Vision 3 LED
Equipment : 1 x 19.8 W / 1800 lm

AEC ILLUMINAZIONE SRL

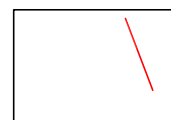
5 3  Order No. : 40.5w (2 module) 700mA Master 6 with S05 Optic
Luminaire name : MASTER 6
Equipment : 1 x L-MA6-0F2H1-4000-700-2M 40 W / 4160 lm

2 Site Plan

2.3 Calculation results, Site Plan

2.3.1 Table, Vertical Albert Road (E)

[m]	1.7	1.8	1.9	2	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2	2	2	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.7
9	1.8	2	2.1	2.2	2.3	2.4	2.4	2.5	2.5	2.5	2.5	2.2	2.2	2.2	2.1	2.1	2	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8
8	2	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.8	2.8	2.8	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2	2	1.9	1.9	1.9	1.9	1.9	1.9
7	2.1	2.3	2.5	2.6	2.8	2.9	3	3.1	3.1	3.1	3.1	2.8	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2	2	2	2	2.1
6	2.3	2.5	2.7	2.9	3	3.2	3.3	3.4	3.4	3.4	3.4	3	3	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.2	2.2
5	2.4	2.6	2.9	3.1	3.3	3.5	3.8	4.5	5.9	7.5	6.6	4.5	3.6	3.2	3	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.1	2.3	2.5
4	2.9	3.5	4.2	5.2	5.9	6.9	9.7	16	23.1	23.5	23	17.9	10.3	6.2	4.4	3.6	3.2	2.9	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.3	4.7
3	5	6.6	7.7	9.6	11	12.6	14.5	18.3	21.4	22	20.1	16	11.3	7.6	5.5	4.3	3.6	3.2	3	2.8	2.7	2.7	2.8	3	3.3	4	5.6
2	6.5	9.2	11.2	13.1	14.4	16	17.2	18.2	19.4	19.4	17.8	14.8	11.5	8.6	6.3	4.9	4	3.5	3.2	3	2.9	2.9	2.9	3.1	3.5	4.2	5.7
1	6.1	9.2	11.8	13.5	14.8	16.1	17.2	17.2	17.4	17	16.1	13.2	10.7	8.8	7.1	5.5	4.5	3.8	3.5	3.2	2.9	2.7	2.8	3	3.3	4	4.8
0																											
	0				5					10					15						20					25	
	Illuminance [lx]																										



Part1

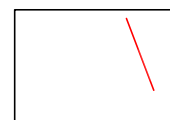
Average illuminance	Eav	: 4 lx
Minimum illuminance	Emin	: 0.7 lx
Maximum illuminance	Emax	: 46.2 lx
Uniformity Uo	Emin/Eav	: 1 : 5.85 (0.17)
Diversity Ud	Emin/Emax	: 1 : 67.20 (0.01)

2 Site Plan

2.3 Calculation results, Site Plan

2.3.1 Table, Vertical Albert Road (E)

1.7	1.8	1.8	1.9	2	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2	1.9	1.8	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4
1.9	1.9	2	2.1	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.4	1.5	1.4
2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.8	2.9	2.8	2.8	2.7	2.7	2.6	2.4	2.3	2.2	2.1	1.9	1.8	1.8	1.7	1.6	1.6	1.5	1.5	1.4
2.2	2.3	2.4	2.5	2.6	2.7	2.8	3	3.1	3.1	3.2	3.1	3.1	3	2.9	2.8	2.6	2.5	2.3	2.2	2	1.9	1.9	1.8	1.7	1.6	1.5	1.5	1.5
2.3	2.4	2.5	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.5	3.5	3.4	3.3	3.1	3	2.8	2.6	2.4	2.3	2.1	2	1.9	1.8	1.7	1.6	1.5	1.5	1.5
3.3	7.7	28.7	36.6	15.9	5.3	3.7	3.5	3.6	3.8	3.8	3.8	3.7	3.5	3.3	3.1	2.9	2.7	2.5	2.3	2.1	2	1.9	1.8	1.7	1.6	1.5	1.5	1.4
8.8	21.2	40.6	46.2	32.4	14.3	7.2	5	4.5	4.3	4.3	4.2	4	3.7	3.5	3.2	3	2.7	2.5	2.3	2.1	1.9	1.9	1.7	1.6	1.5	1.4	1.4	1.3
9.5	15.9	22.9	24.9	20.3	13.4	8.1	5.8	5.2	5.1	4.9	4.7	4.4	3.9	3.6	3.2	2.9	2.7	2.5	2.3	2.1	1.9	1.8	1.6	1.5	1.4	1.3	1.3	1.3
8	10.8	13.3	13.9	12.4	9.7	7.5	6	5.3	5.1	5	4.8	4.4	3.9	3.5	3.2	2.8	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1
6.1	7.2	8.1	8.2	7.6	6.5	6.1	6.5	10	11.8	8.1	7.3	6.7	5.3	3.9	3.2	2.7	2.5	2.3	2	1.8	1.6	1.6	1.5	1.4	1.3	1.2	1.2	1.2
30				35				40				45				50				55								



Part2

2 Site Plan

2.3 Calculation results, Site Plan

2.3.1 Table, Vertical Albert Road (E)

1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1
1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.1
1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1
1.4	1.4	1.3	1.3	1.2	1.2	1.1	1
1.4	1.3	1.3	1.2	1.2	1.1	1.1	1
1.4	1.3	1.2	1.2	1.1	1.1	1	1
1.3	1.2	1.2	1.1	1.1	1	1	0.9
1.2	1.1	1.1	1	1	0.9	0.9	0.8
1.1	1	1	0.9	0.9	0.8	0.8	(0.7)
1.1	1	0.9	0.9	0.8	0.8	(0.7)	(0.7)

60

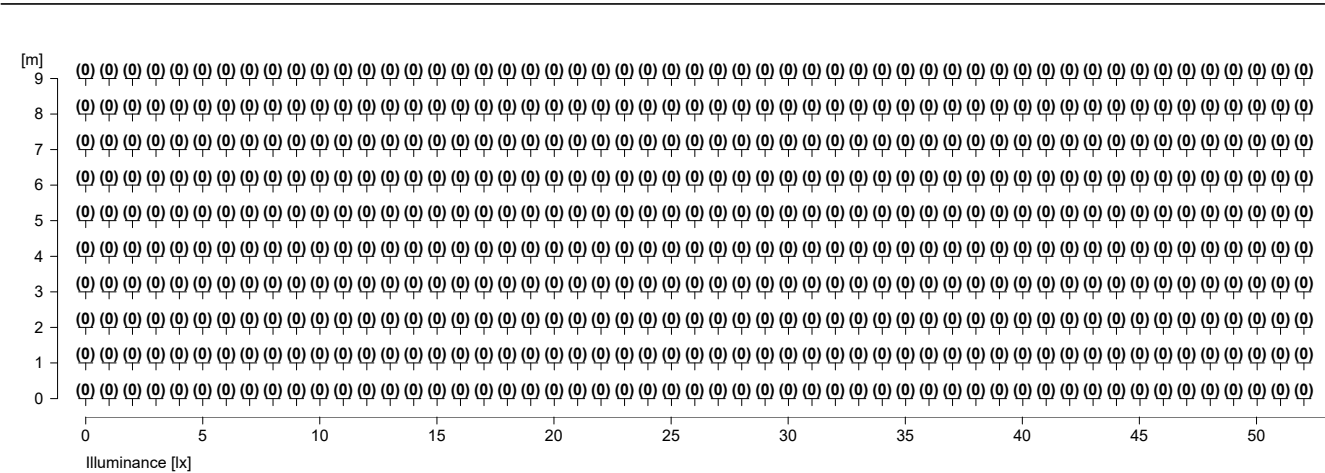
[m]



Part3

2.3 Calculation results, Site Plan

2.3.2 Table, Vertical Dovedale Close (E)

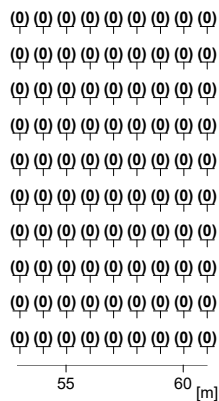


Part1

Average illuminance	Eav	: 0 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 0 lx
Uniformity Uo	Emin/Eav	: ---
Diversity Ud	Emin/Emax	: ---

2.3 Calculation results, Site Plan

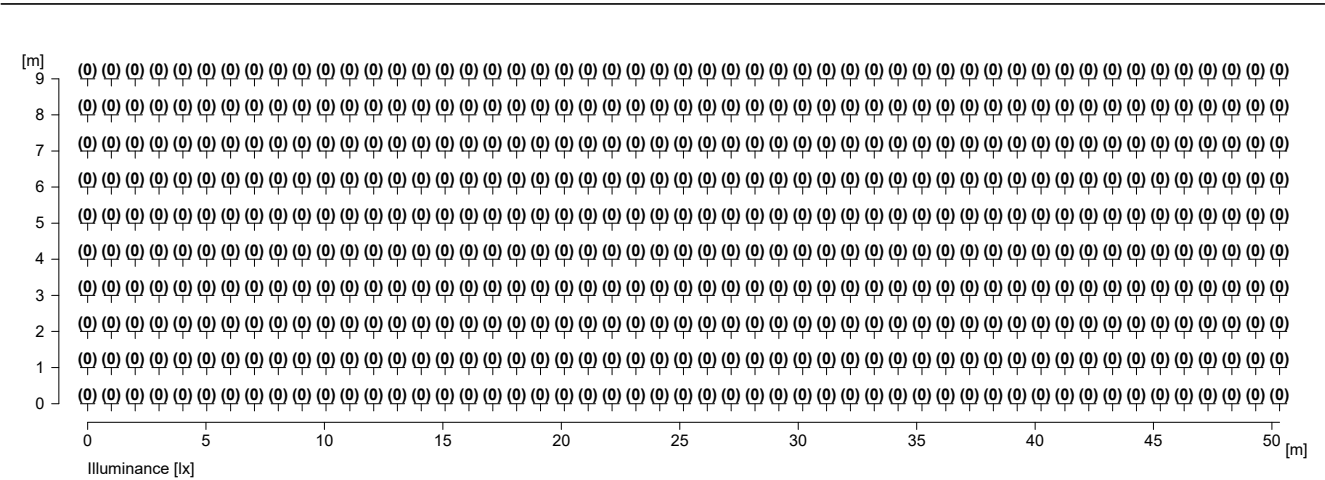
2.3.2 Table, Vertical Dovedale Close (E)



Part2

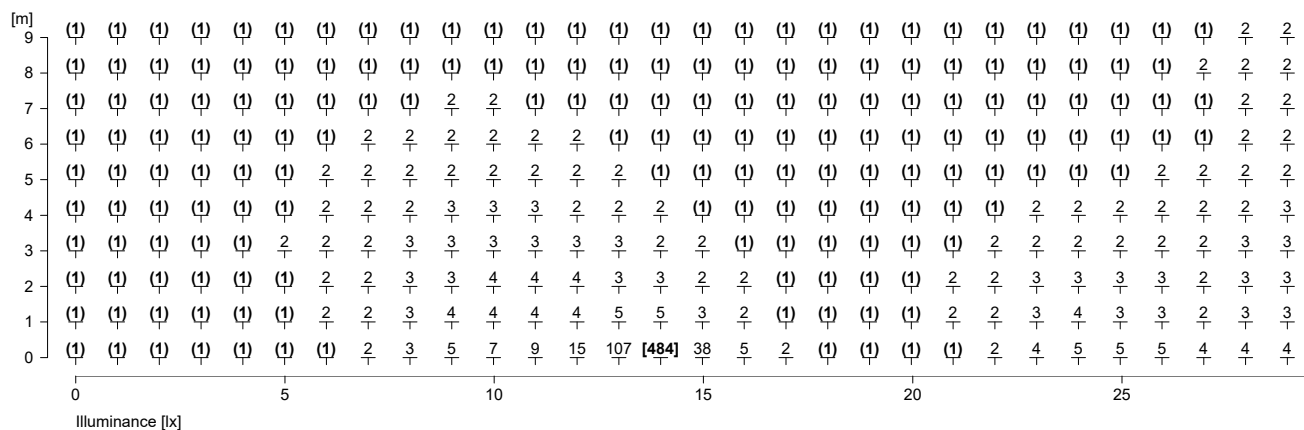
2.3 Calculation results, Site Plan

2.3.3 Table, Vertical West (E)



Average illuminance	Eav	: 0 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 0 lx
Uniformity Uo	Emin/Eav	: ---
Diversity Ud	Emin/Emax	: ---

2.3.4 Table, Vertical North (1) (E)



Average illuminance	Eav	: 5 lx
Minimum illuminance	Emin	: 1 lx
Maximum illuminance	Emax	: 484 lx
Uniformity Uo	Emin/Eav	: 1 : 7.28 (0.14)
Diversity Ud	Emin/Emax	: 1 : 776.95 (0.00)

2.3 Calculation results, Site Plan

2.3.4 Table, Vertical North (1) (E)

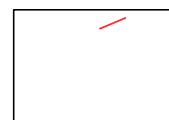
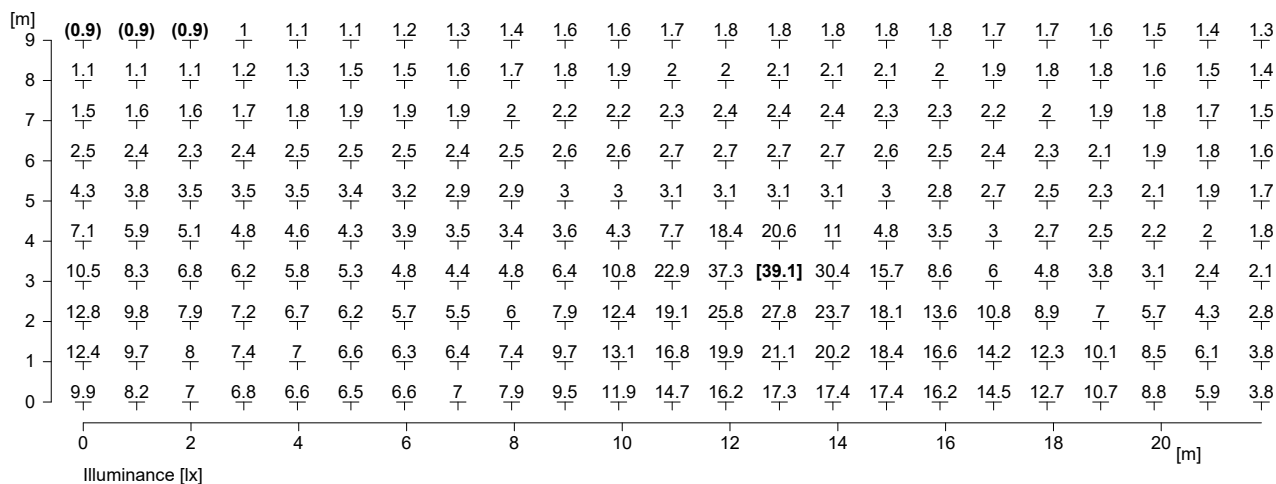
2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	(1)	(1)	(1)	(1)	(1)
2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	(1)	(1)	(1)	(1)	(1)
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	
3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	
3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	5	5	5	5	
3	4	4	4	4	5	5	5	5	5	6	6	6	8	9	10	9	8	7	7	8	8	
3	4	4	4	4	5	5	5	6	6	7	8	9	10	14	16	14	11	10	10	12	12	
4	4	4	4	4	5	5	5	6	6	7	8	10	13	17	20	18	13	11	12	14	15	
3	4	4	4	4	5	5	5	6	6	7	8	10	12	16	18	17	13	11	12	13	14	
4	4	4	4	4	5	6	7	7	7	7	8	9	10	12	13	12	10	9	10	11	11	
30					35					40					45					50	[m]	



Part2

2.3 Calculation results, Site Plan

2.3.5 Table, Vertical North (2) (E)



Average illuminance	Eav	: 6 lx
Minimum illuminance	Emin	: 0.9 lx
Maximum illuminance	Emax	: 39.1 lx
Uniformity Uo	Emin/Eav	: 1 : 6.99 (0.14)
Diversity Ud	Emin/Emax	: 1 : 45.48 (0.02)