

EXTERNAL LIGHTING REVISED

Installation : BULBYS WOOD

Project number : 274784

Customer :

Processed by : DGE

Date : 29.08.2014

Project description:

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 Designplan, TERMINUS WALL (TMW/1100WNW/CC49)

1.1.1 Data sheet

Manufacturer: Designplan

TMW/1100WNW/CC49 wall-mounted luminaire TERMINUS WALL

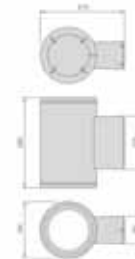
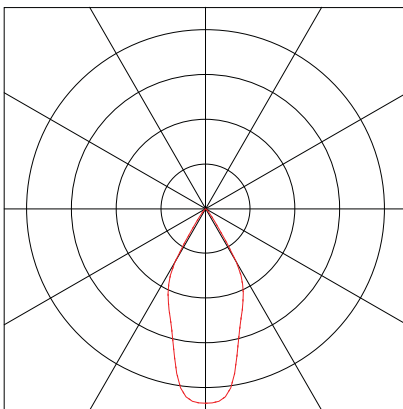
- Robust, elegant fitting with an option for upward and downward light projection.
- LED version achieves >80 lumens per watt.
- Suitable for wall mounting.
- Die cast aluminium body finished in titanium polyester powder coat.
- Clear polycarbonate diffuser.
- Integral electronic control gear with fused terminal block.
- Provision for conduit entry via mounting bracket, gaskets provided.

Luminaire data

Luminaire efficiency	: 99.8%
Luminaire efficacy	: 63.47 lm/W
Classification	: A80 ↓100.0% ↑0.0%
CIE Flux Codes	: 98 100 100 100 100
UGR 4H 8H (20%, 50%, 70%)	
C0 / C90	: 10.2 / 10.2
Control gear	: electronic transformer
System power	: 15 W
Diameter	: 184 mm
Height	: 290 mm

Equipped with

Quantity	: 1
Designation	: LED 1100 830
Power	: 16W
Colour	:
Luminous flux	: 954 lm




2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

1	4	Designplan	Order No. : TMW/1100WNW/CC49
			Luminaire name : TERMINUS WALL
			Equipment : 1 x LED 1100 830 16W / 954 lm

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Designplan TERMINUS WALL TMW/1100WNW/CC49									
1	-4.83	-92.65	2.25	0.00	0.00	0.00	-4.83	-92.65	0.00
2	-1.75	-92.63	2.25	0.00	0.00	0.00	-1.75	-92.63	0.00
3	0.68	-92.64	2.25	0.00	0.00	0.00	0.68	-92.64	0.00
4	2.87	-92.64	2.25	0.00	0.00	0.00	2.87	-92.64	0.00

Structural elements

Virtual measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
FRONT AREA								
m 1	-7.57	-95.94	0.00	13.11	3.33	359.47	0.00	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
A 1	-6.58	-92.75	0.00	10.34	4.22	0.00	0.00	0.00

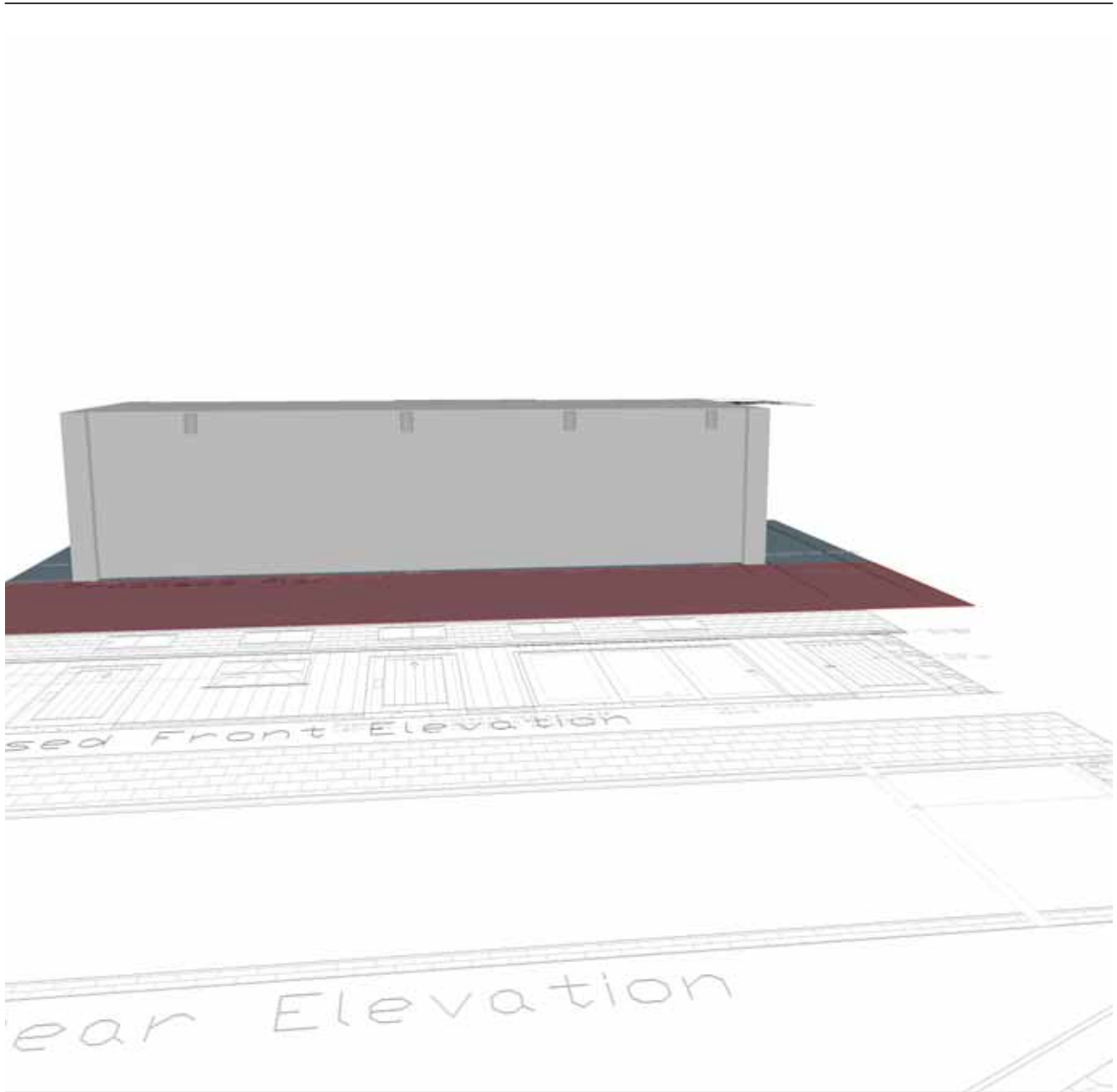
2.1 Description, Exterior 1

2.1.2 Floor plan



2.1 Description, Exterior 1

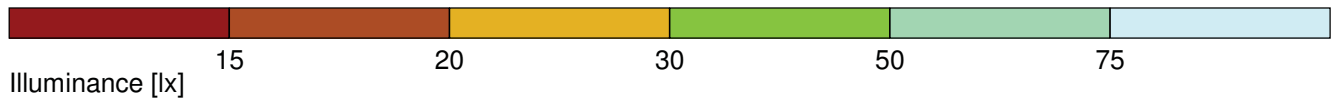
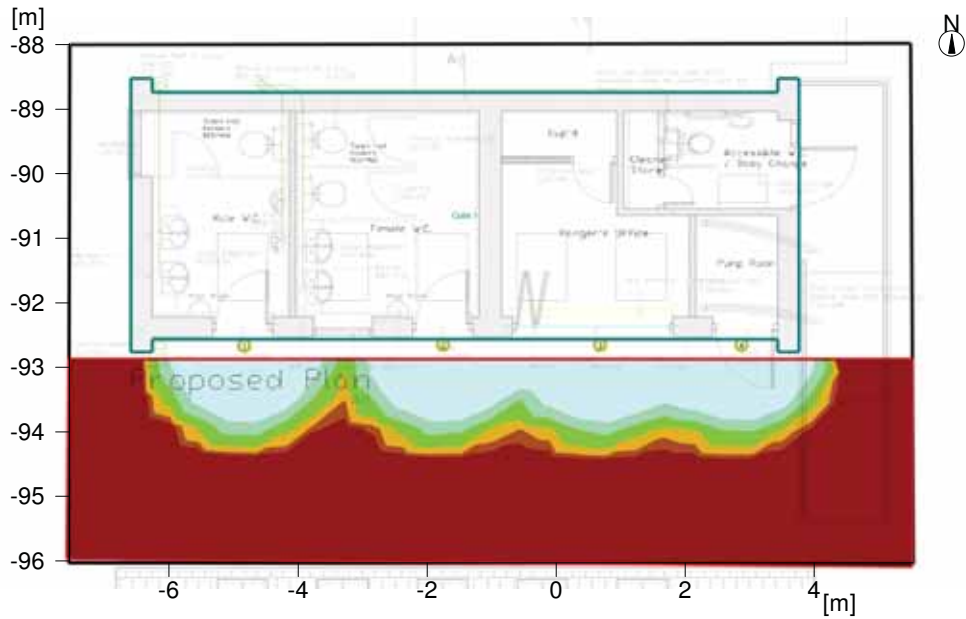
2.1.3 3D view, View 1



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, FRONT AREA



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface photometric centre height. [m]:	0.00 m
Maintenance factor	2.25 m
	0.80
Total luminous flux of all lamps	3816 lm
Total power	60 W
Total power per area (104.72 m ²)	0.57 W/m ²

Illuminance

Average illuminance	Eav	34 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	219 lx
Uniformity U _o	Emin/Em	1:326 (0)
Diversity U _d	Emin/Emax	1:2120 (0)

Type No.\Make

1	4	Designplan	
		Order No.	: TMW/1100WNW/CC49
		Luminaire name	: TERMINUS WALL
		Equipment	: 1 x LED 1100 830 16W / 954 lm

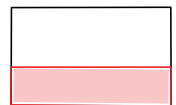


2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, FRONT AREA (E)

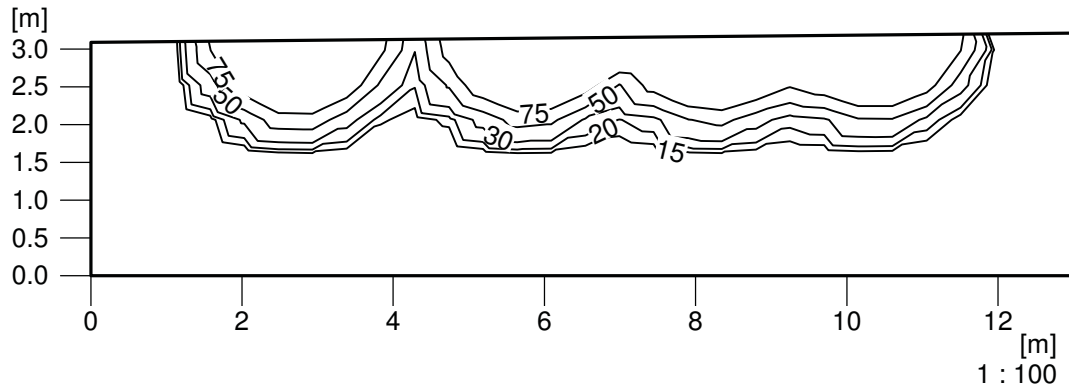
[m]	1	3	13	74	133	217	219	136	81	30	87	143	218	197	130	121	127	187	217	155	152	142	196	203	132	75	14	3	(0)	
2.50	1	3	8	39	93	124	126	97	46	21	53	99	124	119	90	48	87	115	123	103	78	94	116	116	89	36	9	3	1	
2.00	1	2	5	12	33	63	64	36	16	12	17	36	60	55	28	20	25	49	57	36	23	27	47	48	25	11	5	2	1	
1.50	1	2	3	5	9	12	13	11	8	7	9	11	13	13	11	10	11	13	13	11	10	10	12	11	8	5	3	2	1	
1.00	1	2	2	3	4	5	6	5	5	5	6	6	7	7	6	6	6	7	7	6	6	6	6	5	4	3	2	2	1	
0.50	1	1	2	2	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	4	4	4	4	3	3	2	2	2	1	
0.00	1	1	1	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	1	1
	0				2					4				6						8				10					12	[m]
	Illuminance [lx]																													



Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 34 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 219 lx
Uniformity Uo	Emin/Eav	: 1 : 326.13 (0.00)
Diversity Ud	Emin/Emax	: 1 : 2120.48 (0.00)

2.3 Calculation results, Exterior 1

2.3.2 Isolines representation, FRONT AREA (E)

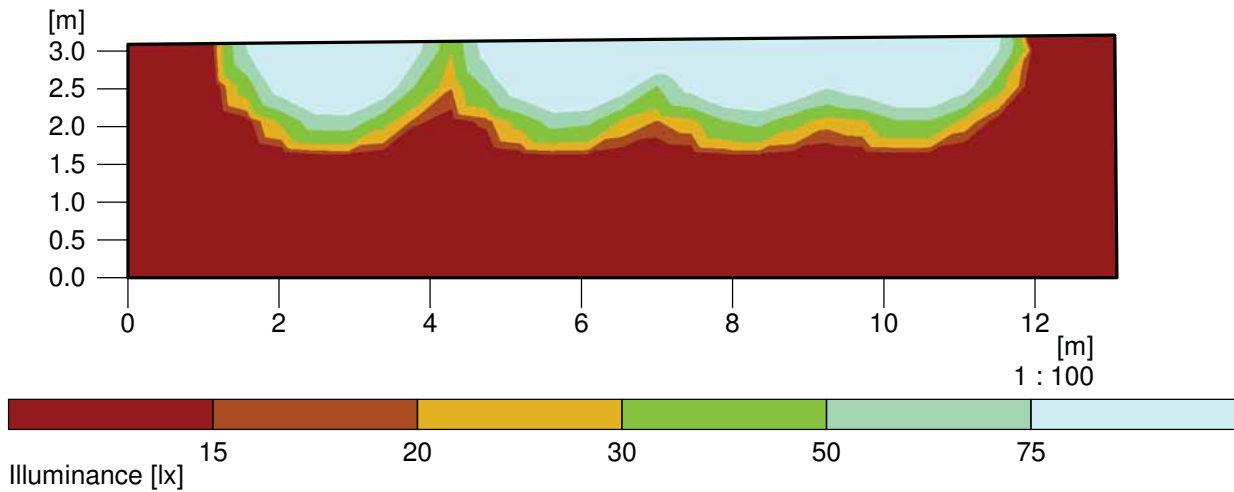


Illuminance [lx]

Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 34 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 219 lx
Uniformity U _o	Emin/Eav	: 1 : 326.13 (0.00)
Diversity U _d	Emin/Emax	: 1 : 2120.48 (0.00)

2.3 Calculation results, Exterior 1

2.3.3 Pseudo colours, FRONT AREA (E)



Height of the reference plane	:	0.00 m
Average illuminance	Eav	: 34 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 219 lx
Uniformity U _o	Emin/Eav	: 1 : 326.13 (0.00)
Diversity U _d	Emin/Emax	: 1 : 2120.48 (0.00)

2.3 Calculation results, Exterior 1

2.3.4 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 1040 cd/m²