

External Lighting

Installation : Ground Floor

Project number : P2152

Customer : Fusion Tower - Manchester

Processed by : Michael Houlding

Date : 30.06.2025

Project description:
Fusion Tower - Manchester

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1.1 Ansell Lighting, Wolf 19W WW (AWOLF/BLK)

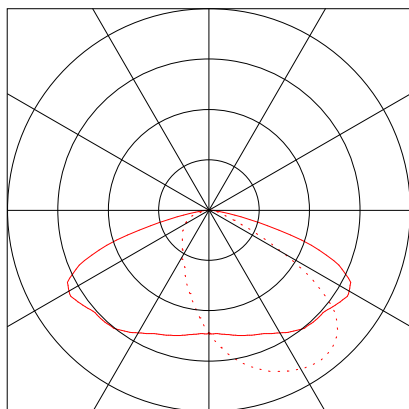
Manufacturer: Ansell Lighting

AWOLF/BLK Wolf 19W WW

Luminaire efficiency	: 100%
Luminaire efficacy	: 116.35 lm/W
Classification	: A30 ↓100.0% ↑0.0%
CIE Flux Codes	: 40 76 97 100 100
Glare	: G*5 / D6
Power	: 19.2 W
Luminous flux	: 2234 lm

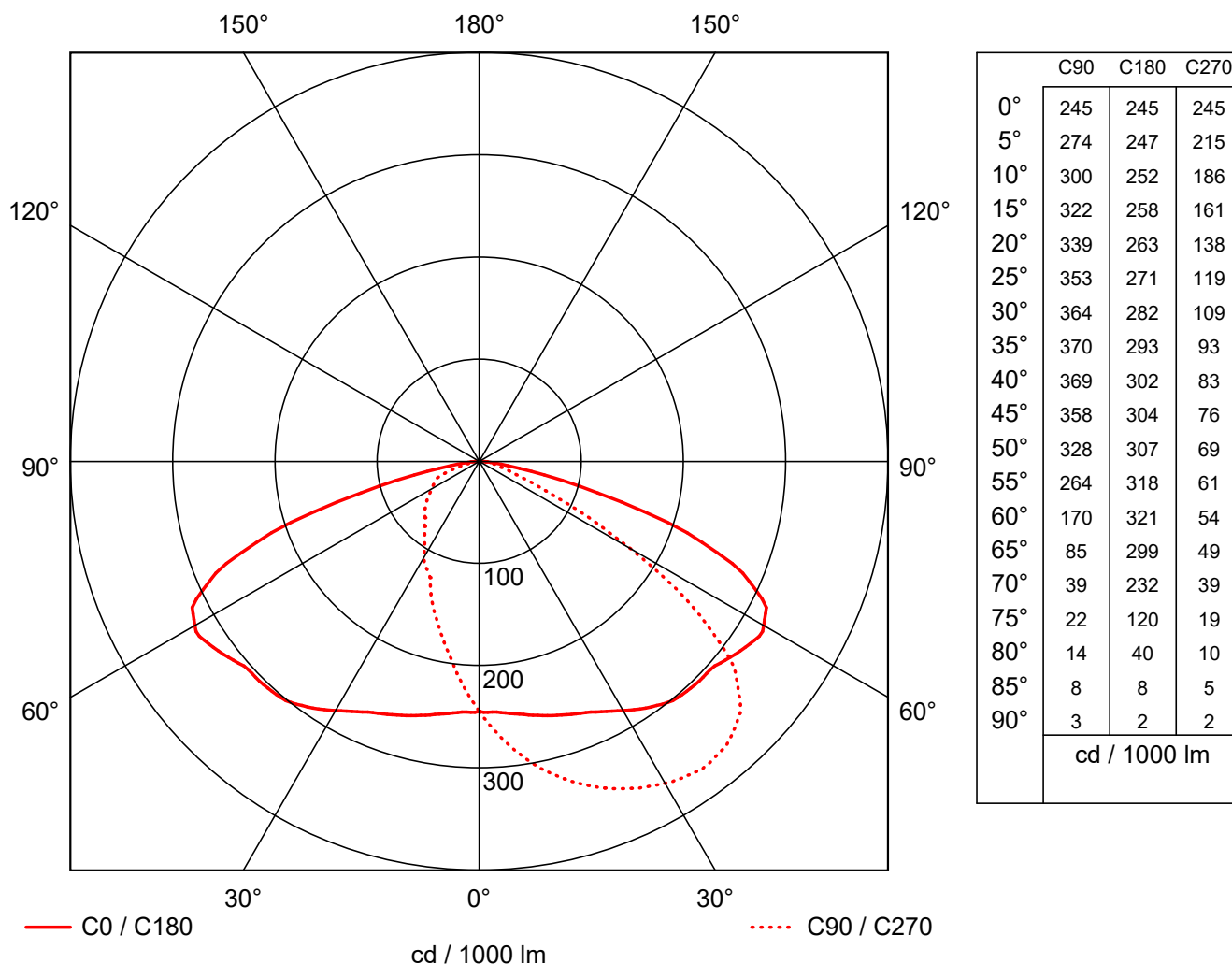
Quantity	:	1
Designation	:	
Colour	:	3000
Luminous flux	:	2234 lm
Colour reproduction	:	82.9

Dimensions : 240 mm x 340 mm x 200 mm



1.1 Ansell Lighting, Wolf 19W WW (AWOLF/BLK)

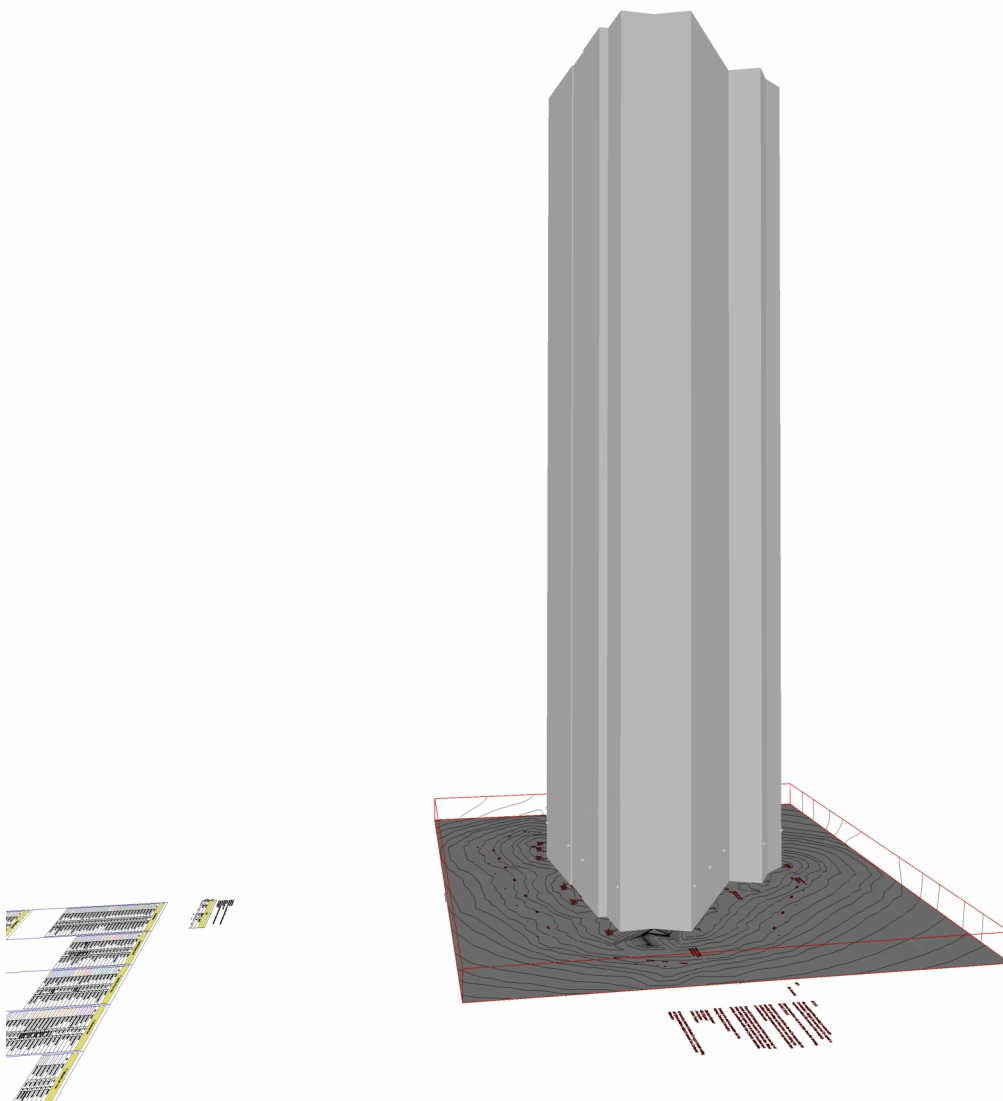
1.1.2 LDC



Manufacturer	: Ansell Lighting	Efficiency factor	: 100%
Order number	: AWOLF/BLK	Luminaire efficacy	: 116.35 lm/W (A30)
Luminaire name	: Wolf 19W WW	Light distribution	: sym. to C90-C270
Equipment	: 1 x 19.2 W / 2234 lm	Beam Angle	: 144.1° C0-C180
Dimensions	: L 240 mm x W 340 mm x H 200 mm		58.9° C90
File name	: Wolf 19W WW.ltd		8.6° C270

2.1 Description, External Lighting

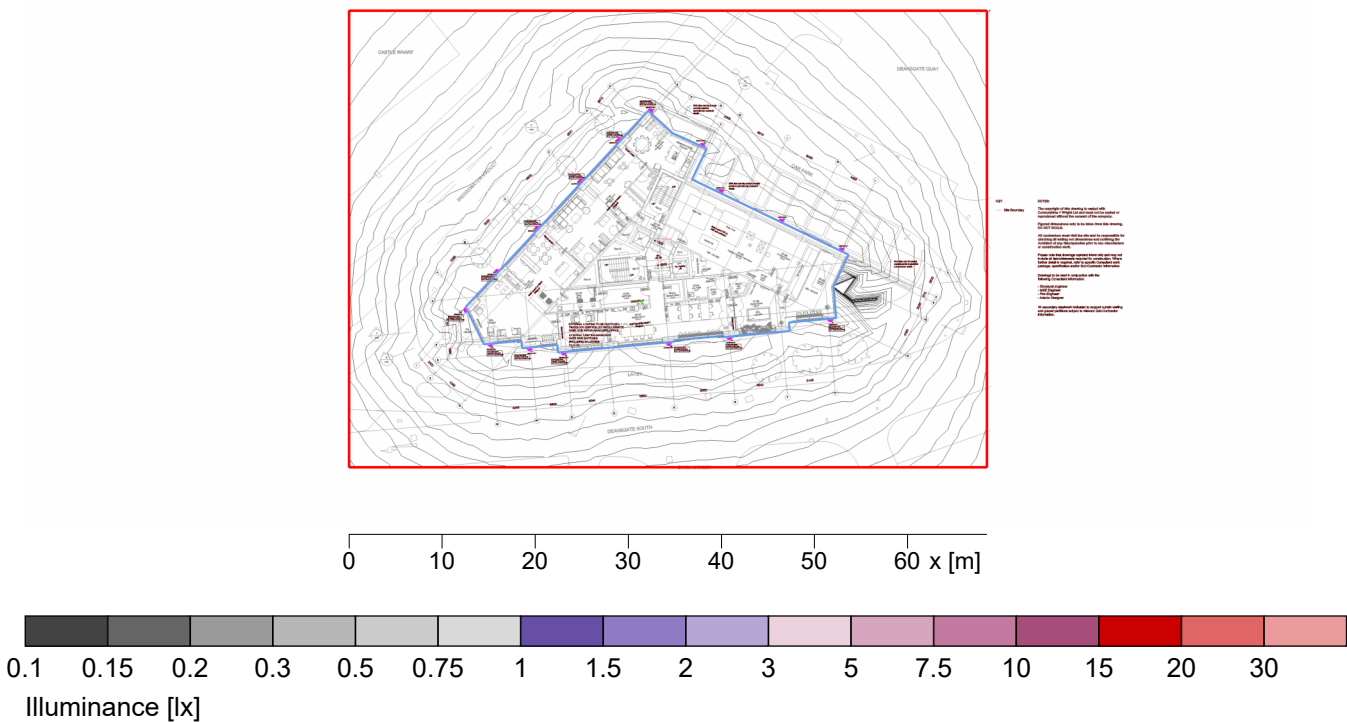
2.1.2 3D view, View 5



2 External Lighting

2.2 Summary, External Lighting

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	4.20 m
Maintenance factor	see luminaires / maintenance plan
Luminaire luminous flux	0 lm

Evaluation area 1

Reference plane 1.1

	Horizontal
$\bar{E}_m$	5.37 lx
E_{min}	0.12 lx
$E_{min}/\bar{E}_m (U_o)$	0.02
$E_{min}/E_{max} (U_d)$	0.00
Position	0.00 m

Major surfaces

	$\bar{E}_m$		U_o	
M 1.5 (Ceiling)	0.74 lx	✓	0.01	✓
M 1.1 (Wall)	2.34 lx	✓	0.13	✓
M 1.2 (Wall)	0.79 lx	✓	0.50	✓
M 1.3 (Wall)	1.9 lx	✓	0.26	✓
M 1.4 (Wall)	1.56 lx	✓	0.36	✓

Type No. Make

Object : External Lighting
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2 External Lighting

2.2 Summary, External Lighting

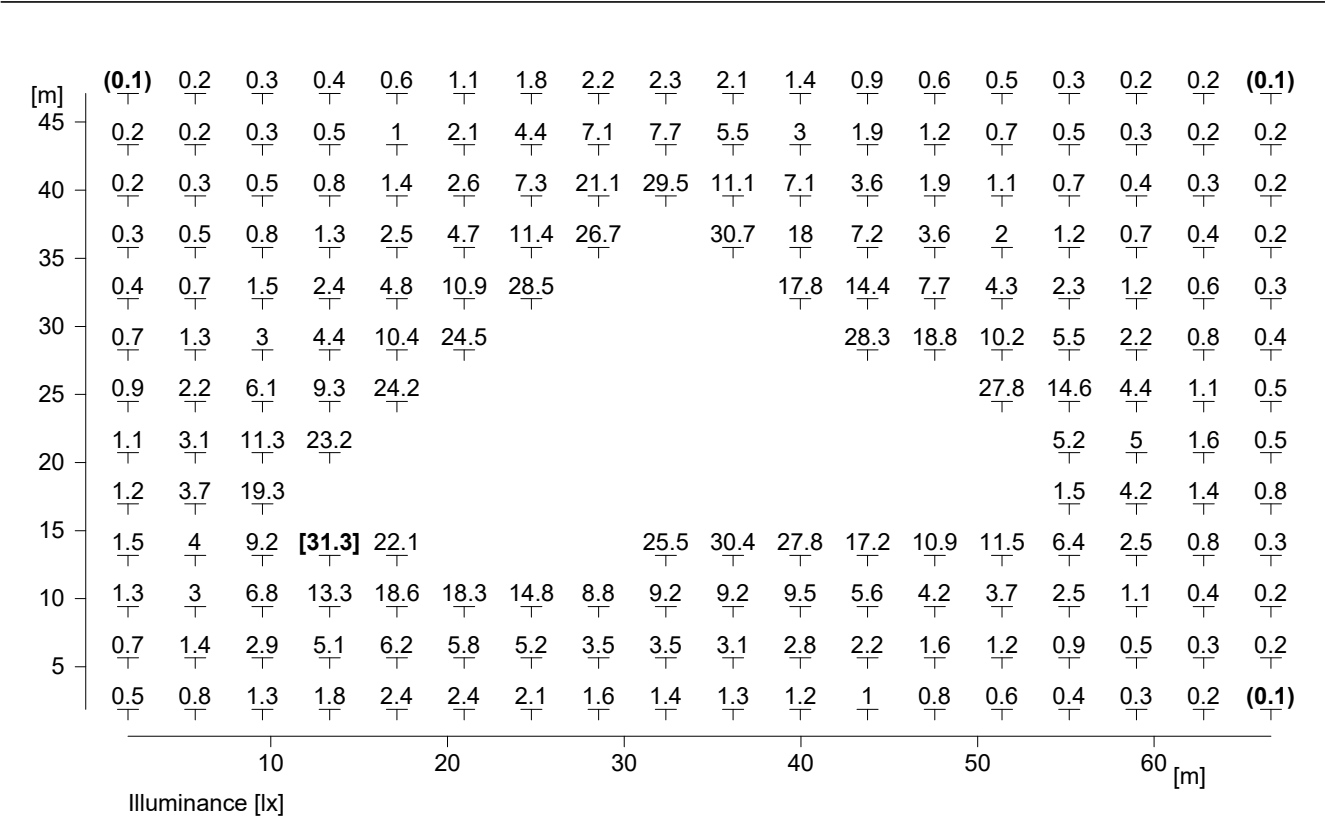
2.2.1 Result overview, Evaluation area 1

		Ansell Lighting
2	16 x	Order No. : AWOLF/BLK
		Luminaire name : Wolf 19W WW
		Equipment : 1 x 19.2 W / 2234 lm
		Maintenance factor: 0.82

2 External Lighting

2.3 Calculation results, External Lighting

2.3.2 Table, Reference plane 1.1 (E)



Height reference plane : 0.00 m
Average illuminance $\bar{E}_m$: 5.4 lx
Minimum illuminance E_{min} : 0.1 lx
Maximum illuminance E_{max} : 31.3 lx
Uniformity U_o $E_{min}/\bar{E}_m$: 1 : 46.45 (0.02)