Laystall Street

Installation : External Courtyard Lighting

Project number :
Customer : West Lancs Group
Processed by : Mike Whalley
Date : 16.05.2025

Project description:

Column height taken as 3m.

Lighting levels measured at floor level.

Type JE mounted at 0.5m centrally positioned.

Planters shown with a height of approximately 0.5m.

Note - lighting levels shown for the proposed new LED replacement will be 15% higher initially, due to a maintenance factor of 0.85 being applied to calculations.

This design drawing is for a lighting scheme which has been prepared for the client in collaboration with the client and other stakeholders, and is based upon the pre-construction information provided. The lighting scheme should only be installed and maintained by competent persons
and in accordance with the design drawings, applicable installation instructions and all applicable laws. No changes should be made to the design of the lighting scheme without formal written approval in advance from Pinnacle Electrical, to ensure that any risks to health, safety and welfare from any proposed changes can be identified and properly assessed.

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.

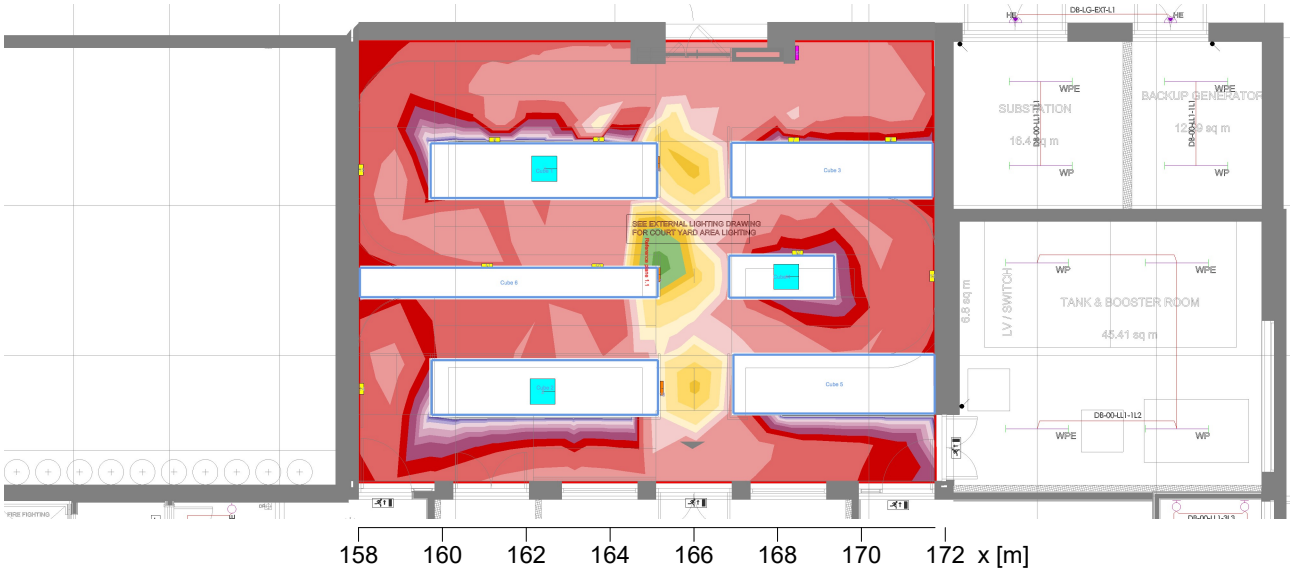
This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

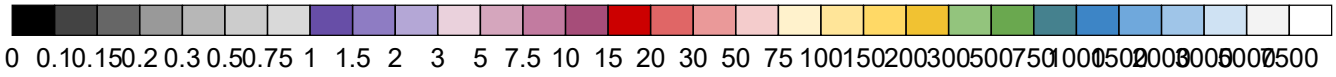
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1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Evaluation area 1





General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.85
Total lamp luminous flux	15499 lm
Luminaire luminous flux	15494 lm
Total power	127.7 W
Total power per area (144.01 m²)	0.89 W/m² (2.02 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
$\bar{E}_m$	44 lx
E_{min}	10 lx
$E_{min}/\bar{E}_m$ (U_o)	0.23
E_{min}/E_{max} (U_d)	0.03
Position	0.00 m

Type No.\Make

		ANSELL	
1	10 x	Order No.	: AMATBLED - CW
		Luminaire name	: FEATURE LIGHTING - Mattone Uni-Bricklight
		Equipment	: 1 x LED single 840 2 W / 101 lm

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Luceco PLC

2 1 x 
Order No. : SEMUFL08D
Luminaire name : Kingfisher - Semita Urban
Equipment : 1 x LED 6 W / 812 lm

3 3 x 
Order No. : SEMUFL08DEM
Luminaire name : Kingfisher - Semita Urban
Equipment : 1 x LED 6 W / 812 lm
Emergency : 400 lm (49.3 %)

THORN Lighting

6 3 x 
Order No. : 92920911 (STD - standard)
Luminaire name : PLD F 18L50-740 R/S BS 3550 T76 CL1 GY
Equipment : 1 x PLD18L50-740RS 27C9W 27.9 W / 3747 lm