

Greenbrow

Installation : Car Park

Project number :

Customer : C. Owens Electrical

Processed by : Mike Whalley

Date : 29.09.2025

Project description:

Column height taken as 6m.

Lighting levels measured at floor level.

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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Electrical Supplies

1 Luminaire data

1.2 Luceco PLC, Kingfisher - Viva City... (VCYP-FW70-4.8-40D)

1.2.1 Data sheet

Manufacturer: Luceco PLC



VCYP-FW70-4.8-40D Road lanterns Kingfisher - Viva City Pro
Kingfisher - Viva City Pro - 5880 lumens - 40W

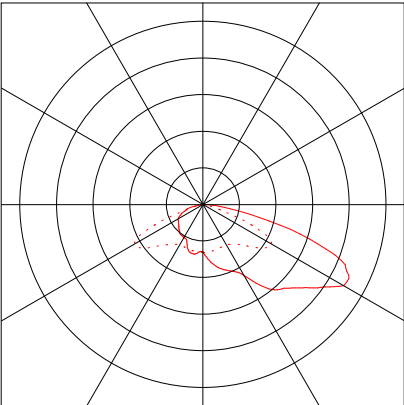
Luminaire data

Absolute Photometry
Luminaire efficacy : 147 lm/W
Classification : A20 ↓100.0% ↑0.0%
CIE Flux Codes : 25 59 94 100 100
UGR 4H 8H : 38.8 / 32.5
Control gear : LED Driver
Power : 40 W
Luminous flux : 5880 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 4000K
Socket : -
Colour reproduction : 70

Dimensions : 315 mm x 780 mm x 105 mm



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Pinnacle

Electrical Supplies

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan

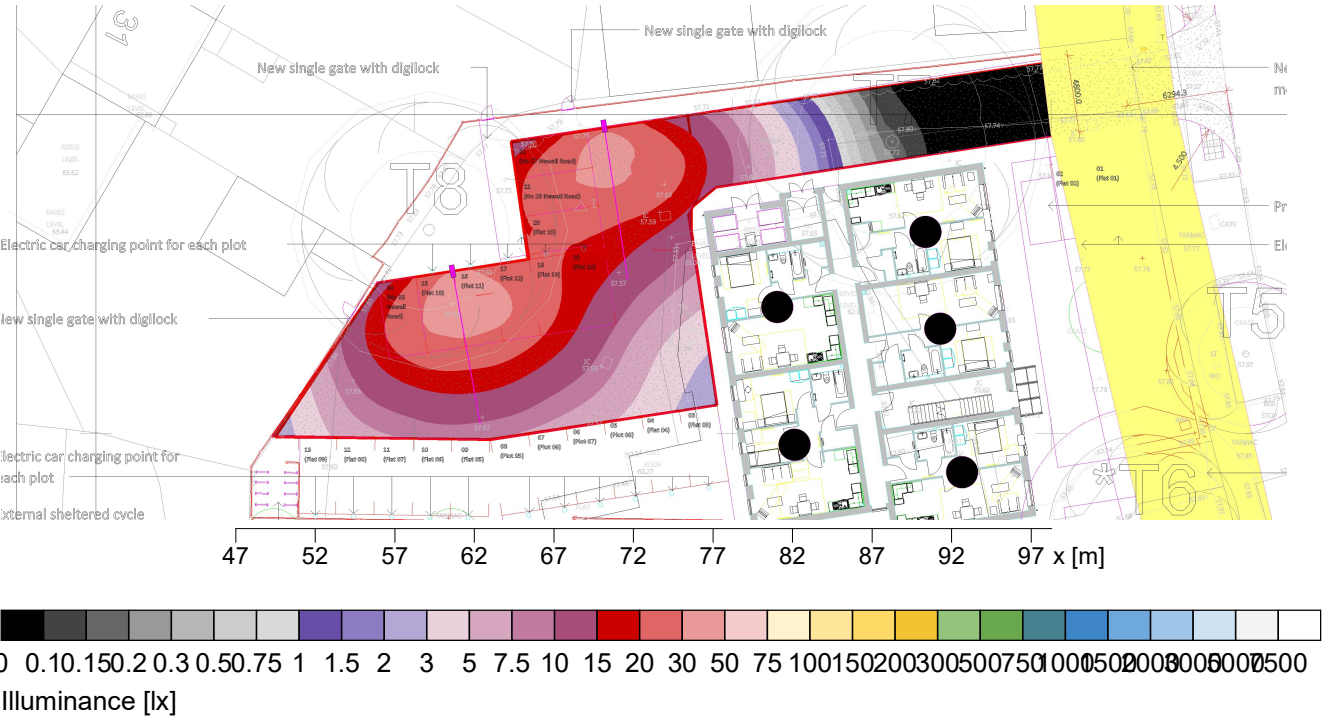


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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot centre)	4.95 m
Maintenance factor	0.85
Luminaire luminous flux	11760.00 lm
Total power	80.0 W
Total power per area (439.41 m²)	0.18 W/m² (1.39 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal
E_{min}	13.1 lx
$E_{min}/\bar{E}_m (U_o)$	0 lx
$E_{min}/E_{max} (U_d)$	0.00
Position	0.00 m

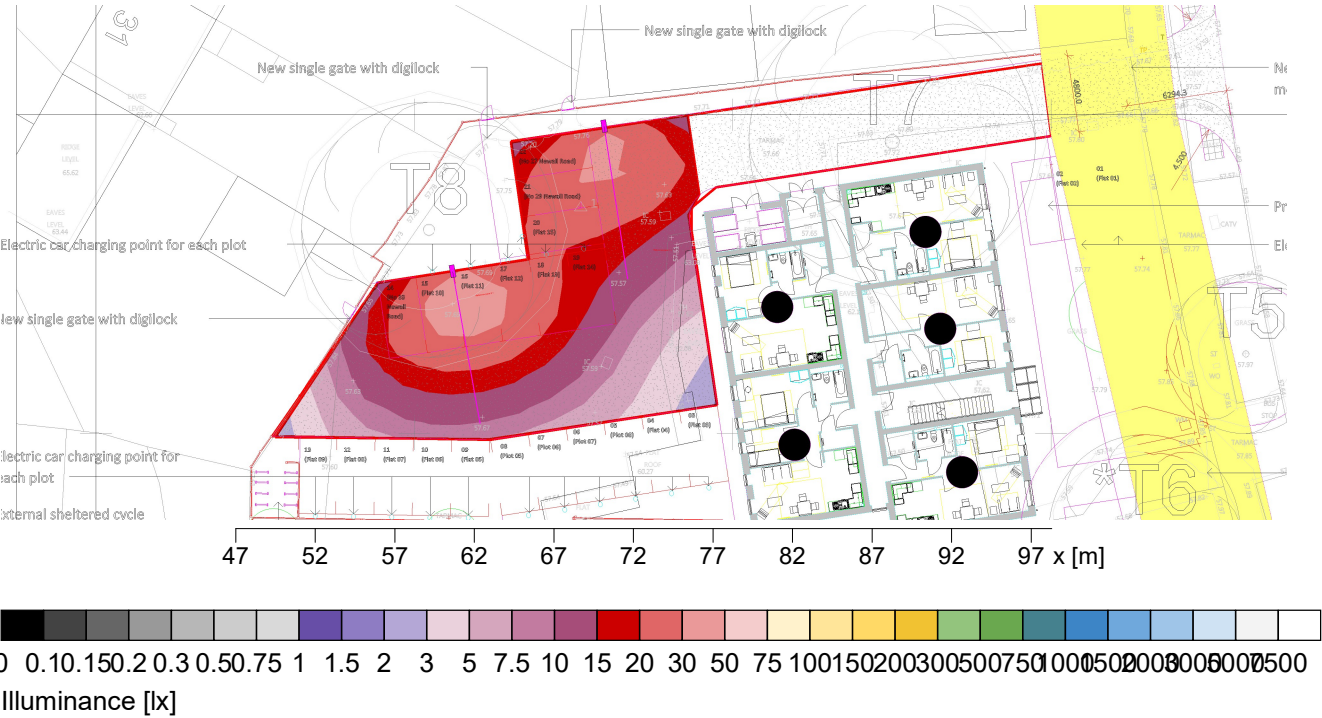
Type No. Make

2	2 x	Luceco PLC
		Order No. : VCYP-FW70-4.8-40D
		Luminaire name : Kingfisher - Viva City Pro
		Equipment : 1 x LED 40 W / 5880 lm

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2.2 Summary, Exterior 1

2.2.2 Result overview, Car Park Area



General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	4.95 m
Maintenance factor	0.85

Luminaire luminous flux	11760.00 lm
Total power	80.0 W

Car Park Area

Reference plane 2.1

$\bar{E}_m$	Horizontal	16 lx
E_{min}		2.2 lx
$E_{min}/\bar{E}_m (U_o)$		0.14
$E_{min}/E_{max} (U_d)$		0.06
Position		0.00 m

Type No. \ Make

2	2 x	Luceco PLC	
		Order No.	: VCYP-FW70-4.8-40D
		Luminaire name	: Kingfisher - Viva City Pro
		Equipment	: 1 x LED 40 W / 5880 lm