

Coedffranc Primary
School

Car Park

External Lighting Design
Particular Specification
4-E-SP02

TENDER ISSUE

STAGE 4

Coedffranc Primary
School

Car Park

External Lighting Design
Particular Specification
4-E-SP02

October 2025

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THIS REPORT TAKES INTO ACCOUNT
THE PARTICULAR INSTRUCTIONS
AND REQUIREMENTS OF OUR
CLIENT.

IT IS NOT INTENDED FOR AND
SHOULD NOT BE RELIED UPON BY
ANY THIRD PARTY AND NO
RESPONSIBILITY IS UNDERTAKEN
TO ANY THIRD PARTY

JOB NUMBER 123456-00



JOB TITLE	COEDFFRANCE PRIMARY SCHOOL – CAR PARK LIGHTING	JOB NUMBER
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DOCUMENT TITLE	EXTERNAL LIGHTING DESIGN PARTICULAR SPECIFICATION 4-E-SP03	FILE REFERENCE
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DOCUMENT REF

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ISSUE DOCUMENT VERIFICATION WITH DOCUMENT



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Appendices

Luminaire Schedule

1 Introduction

This particular specification details the design for the external lighting systems that covers the area for Car Park. Covered by this specification are: the type of fittings, manufacturer, method of installation and details of the lighting control.

Works shall comprise of the installation and commissioning of the lighting and associated power and containment requirements.

The control systems for the Car Park lighting has been designed to ensure maximum efficiency and energy savings and in accordance with Part L of the building regulations.

Within Appendix 1 there are illustrations of the fittings specified for the external lighting systems and further detailed descriptions.

All manufacturers who are mentioned in the data sheets and specifications have been used for “DESIGN INTENT ONLY”

All equipment / plant detailed shall be offered to alternative manufacturers / suppliers as equal and approved.

2 External Lighting

2.1 Car Park Luminaires

Luminaires supplying car park lighting shall consist of high efficacy LED luminaires with integral control gear for metal halide 150 Watt lamps, controlled from local lighting distribution boards in feeder pillars 1 and 2. Luminaires shall be column mounted, installed in a field arrangement on 6m steel columns. The Aerie pole mounted flood luminaire by Thorn has been specified and all calculations are based on this fitting and lamp type. Details of the column fixing for the luminaires can be found on the car-park lighting and details drawing 4-ESW-CP-001 and 4-ED-CP-001.

2.2 Lighting Control

The external lighting shall be controlled via automatic lighting controls.

Time-switch, photocell and manual controls are used to provide auto on, auto off and override control. The Car Park lighting shall be controlled by distribution board located in External IP65 Feeder Pillar where contactor control circuits shall be utilised to provide group switching. Dedicated external lighting distribution board DBEXT located in Feeder Pillar adjacent Car Park as shown on 4-ESW-CP-001.

For further details on the control system and wiring details see drawing 4- ED-CP-001.

Contractor is to confirm with an NPTCC representative that external lighting control proposals and locations are satisfactory prior to installation.

2.3 Lighting Power

Power supplies for the external lighting shall be supplied from Electrical Switchroom for School Site. A spare way in existing MDB shall be used to control new underground submains 3 Φ circuit, using multicore LSF/SWA/PVC cable, to serve 3 Φ distribution board in DBEXT located in IP65 Feeder Pillar so that the load is equally balanced across three phases. Final circuits for Post mounted luminaires shall be wired in LSF/SWA/PVC 3 core armoured cables, buried direct and terminated propriety double pole, fused cut out for armoured cable with metal brass gland system.

For further details see drawings 4-ESW-CP-001, 4- ED-CP-001 and DB Schedules.

Stage 4 Tender

Luminaire Schedule

Contents

Luminaire Type A

Lighting Manufacturers

Luminaire Type A

General Description

96632927

Aerie IP66 post top lantern.

LED driver for 18 LED's.

Class 1, IK10, corrosion resistant die cast powder aluminium for C5 environments.

Polycarbonate with clear finish. Anthracite Grey, RAL7043.

4000K, 60W, 6972 lm, 116 lm/W.

Internal Pre wired.

Graphic



Areas of Use

Post Top Mounted, Car Park.

<u>Ref.</u>	<u>Lamp Type</u>	<u>Gear</u>	<u>Lamp Colour</u>
A	1 x 60W LED	LED	4000K

<u>Preferred Manufacturer</u>	<u>Reference</u>	<u>Accessories</u>
A Thorn Lighting	Aerie Post Top Lantern 96632927	(integral Photocell)

Lighting Manufacturers

THORN LIGHTING

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