



	Luminaire B
Supplier	TRT Lighting
Type	VIA SYM 330mA PowerSet/OptiS et 3000K LED
Lamp(s)	42 0010 0000 100
Lamp Flux (klm)	0.59
Maintenance Factor	0.76
No. in Project	12

TRTLIGHTING

ROAD & TUNNEL SYSTEMS

PROJECT NAME:
Devonshire Place, Port Talbot

PROJECT No:
Design Check (R0)

SCALE:
1:500

DATE:
31 January 2024

CALCULATION:
Horizontal Illuminance (lux)

DESIGNER:
Pete Harris

Lighting Residential Roads - Designed in Accordance with BS5489-1 2020

The main purpose of lighting for subsidiary roads, namely access roads, residential roads and associated pedestrian areas, footpaths and cycle tracks and areas associated with those roads is to enable pedestrians and cyclists to orientate themselves and detect vehicular and other hazards, and to discourage crime against people and property. The lighting on such roads can provide some guidance for motorists, but is unlikely to be sufficient for revealing objects on the road without the use of headlights.

P4 - Eav = 5.00-7.50 Lux, Emin 1.00 Lux

=6.00m in environmental zones E3 or E4 from BS5489 LMF = 0.84

Maintenance factor = LLMF x LMF = 0.90 x 0.84 = 0.76

No account is taken for the blocking effect caused by buildings, trees etc. The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation.

This lighting design proposal is a suggested lighting layout to present how TRT products could be used to meet the design criteria. No design risk assessment has been conducted for the lighting layout and TRT may not have undertaken a site survey. The lighting design has been based entirely on information supplied by others and therefore TRT cannot be held responsible for any risk associated with implementation of the design. This lighting design proposal should be considered only as guidance and not as a final design for the purposes of Construction Design and Management Regs 2015.

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Results Grid 1

Eav	6.13
Emin	1.82
Emax	14.85
Emin/Emax	0.12
Emin/Eav	0.30

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