

DATE: 30 June 2015
DESIGNER: Phillip Bennett
PROJECT No: CO00120174-0003
PROJECT NAME: Whitegate Road Wrexham Section 38 & 278



Calculation Reference R1

Maximum Spacing

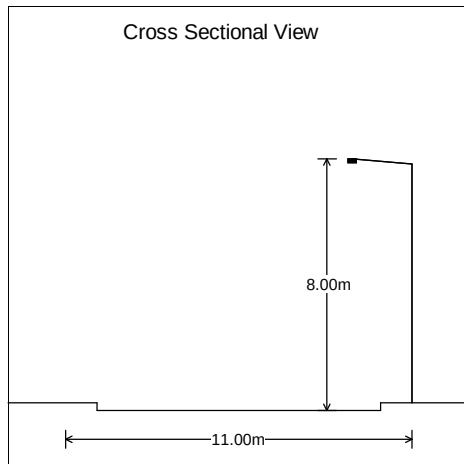
Roadway Lighting Report

PREPARED BY: Amey
Consulting & Strategic Infrastructure
2 Ripley Drive
Normanton Industrial Estate
Normanton
West Yorkshire
WF6 1QT

www.amey.co.uk

Roadway Report Summary

Layout



Road Data

Calculation Grid	BS5489 2013 Illuminance
Width (m)	11.00
No. of Lanes	2
Road Surface	C2
Q0	0.07
Left Footpath(m)	1.00
Right Footpath(m)	1.00

Main Lighting

Column Data

Configuration	Single Sided Right
Spacing (m)	33.00
Height (m)	8.00
Tilt (deg)	5.00
Setback (m)	1.00
Outreach (m)	1.90
Overhang (m)	0.90

Luminaire Data

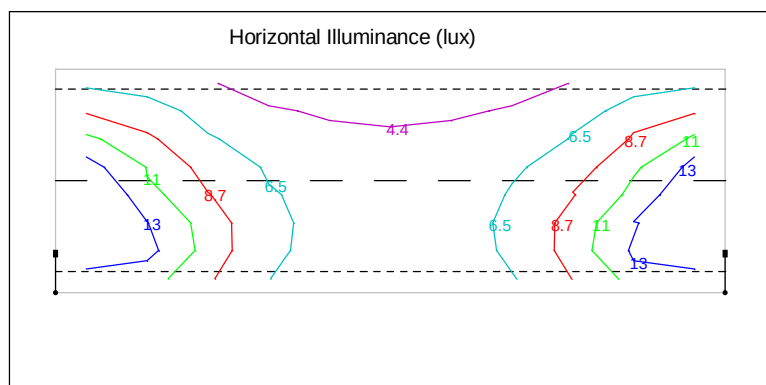
Supplier	
Type	Luma 1 R4
Lamp(s)	20-80 DS-CW 1 LED
LampFlux(klm)/Colour	6.00 CW/70
File Name	Luma 1B R4 DS-CW 1 6000 CW LED.lgt
Maintenance Factor	0.74
Lum. Int. Class	G1
Lamp S/P Ratio	1.96

Results

Main

Complies with P2*
With S/P ratio = 1.96

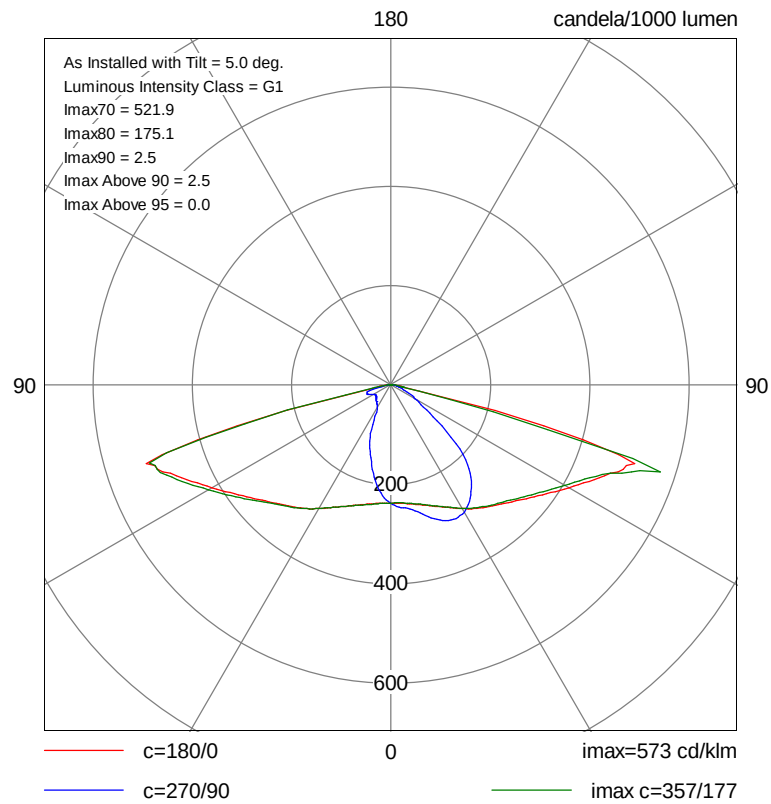
Eav	7.90
Emin	3.39
Emax	16.04
Emin/Emax	0.21
Emin/Eav	0.43



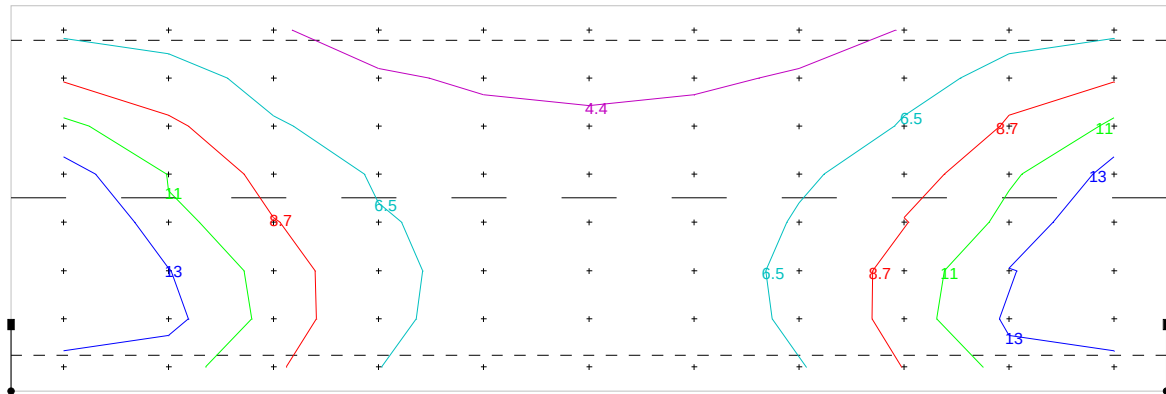
*The lighting class has been modified using the lamp S/P ratio in accordance with PLG03 With Eav from 7.74 to 11.61 and Emin 1.55

Polar Diagram

Main Luminaire Luma 1 R4



Horizontal Illuminance (lux)



Main Results

Eav	7.90
Emin	3.39
Emax	16.04
Emin/Emax	0.21
Emin/Eav	0.43