

DATE: 17 May 2021
DESIGNER: SS
PROJECT No: 22475
PROJECT NAME: Rossett Road, Wrexham



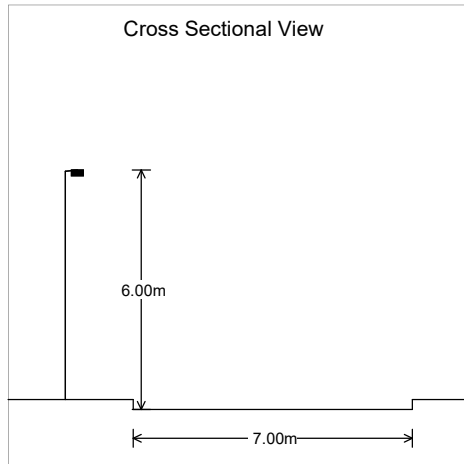
22475-R-01
SSL
1.7m Setback
3.5m Lane Width

Roadway Lighting Report

PREPARED BY: Harttron Ltd
Units 3-3a
Second Avenue
Poynton Industrial estate
Poynton
Cheshire
Sk12 1ND
T:01625850855
F:01625850856

Roadway Report Summary

Layout



Road Data

Calculation Grid	EN13201 Luminance
Width (m)	7.00
No. of Lanes	2
Road Surface	C2
Q0	0.07
Lane Width (m)	3.50
Rei Width (m)	3.50

Main Lighting

Column Data

Configuration	Single Sided Left
Spacing (m)	24.50
Height (m)	6.00
Tilt (deg)	5.00
Setback (m)	1.70
Outreach (m)	0.30
Overhang (m)	-1.40

Luminaire Data

Supplier	Urbis Schreder
Type	AMPERA MIDI 5119 Flat glass 48 OSLOM SQUARE GIANT@550mA NW
Lamp(s)	48 OSLOM SQUARE GIANT@550mA NW 740 230V
LampFlux(klm)/Colour	10.87 NW 4000K/70
File Name	AMPERA MIDI 5119 48 OSLOM SQUARE GIANT 550mA NW 740 79W 403192 Flat g...
Maintenance Factor	0.82
Lum. Int. Class	G3



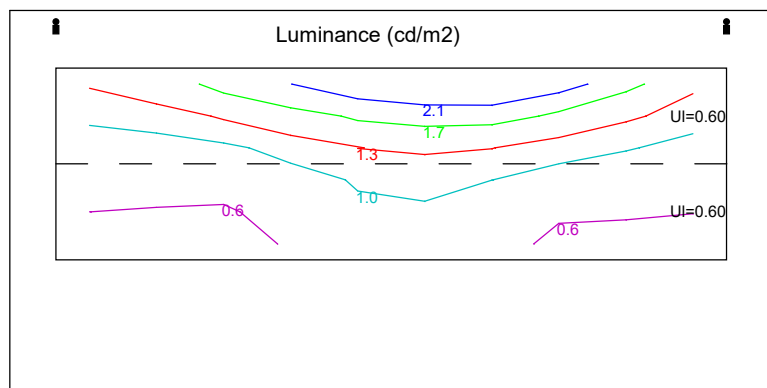
Results

Main

Complies with M4

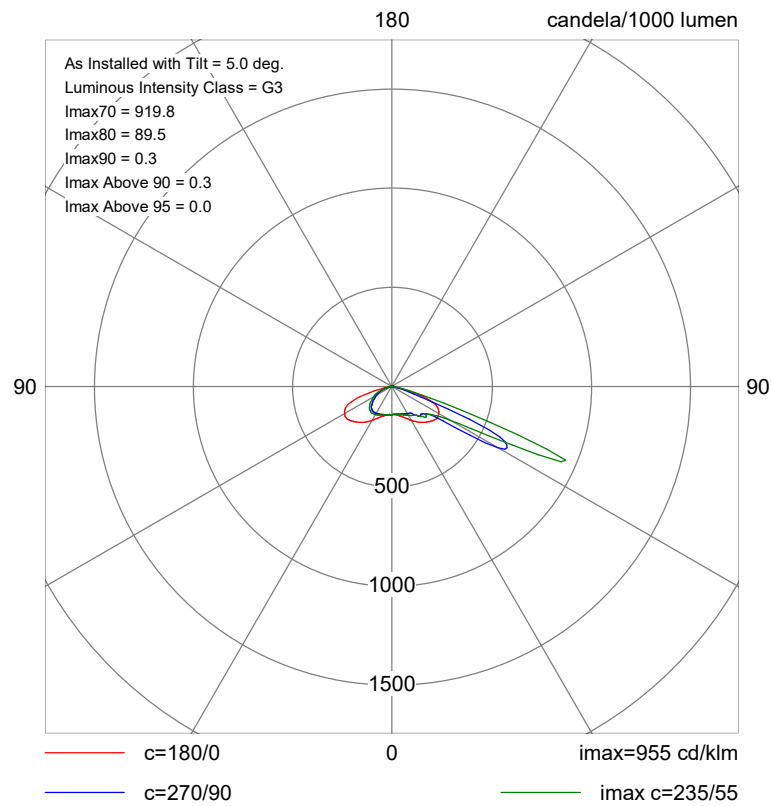
Lavmin	1.02 (2)
Lmin	0.45 (2)
Lmax	2.58 (1)
U0min	0.41 (1)
Ulmin	0.60 (1)
TI(%)	14.82 (2)
Rei	0.73

Number in brackets is the Observer Lane for Result shown.



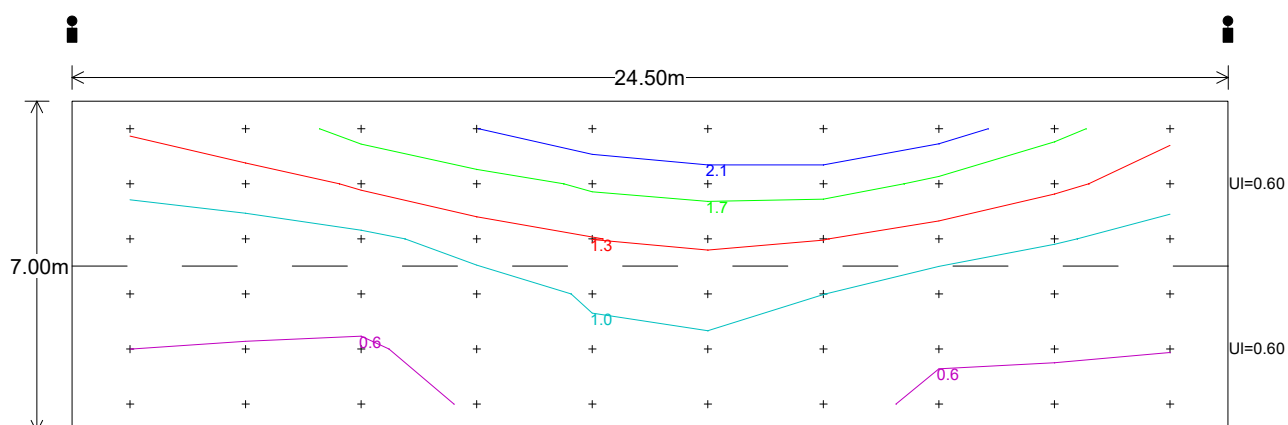
Polar Diagram

Main Luminaire AMPERA MIDI 5119 Flat glass 48 OSOLON SQUARE GIANT@550mA NW



Luminance (cd/m²)

Observer in Lane 1



Main Results

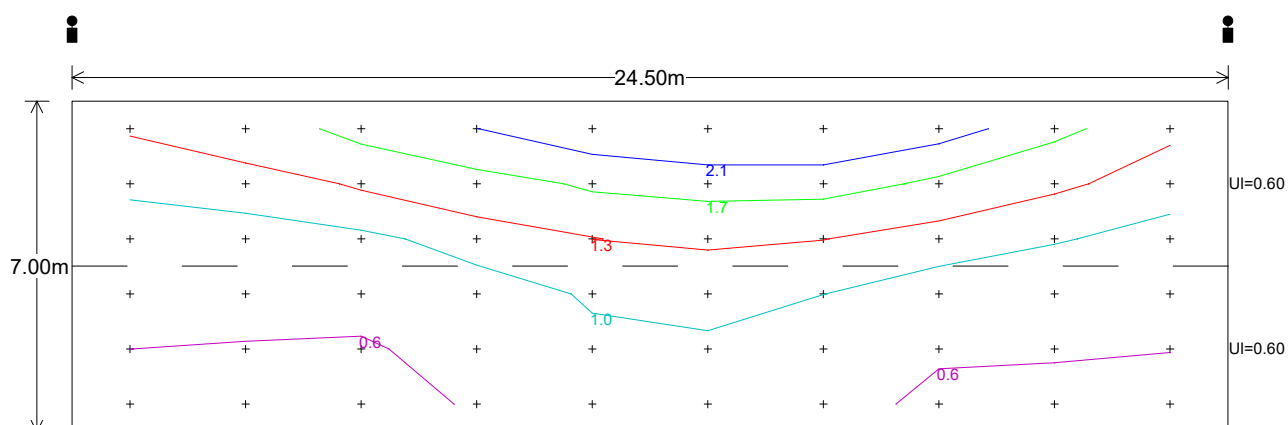
Observers in all Lanes

Lavmin	1.02 (2)
Lmin	0.45 (2)
Lmax	2.58 (1)
U0min	0.41 (1)
Ulmin	0.60 (1)
Tlmax(%)	14.82 (2)
Rei	0.73

Number in brackets is the
Observer Lane for Result shown.

Luminance (cd/m²)

Observer in Lane 1



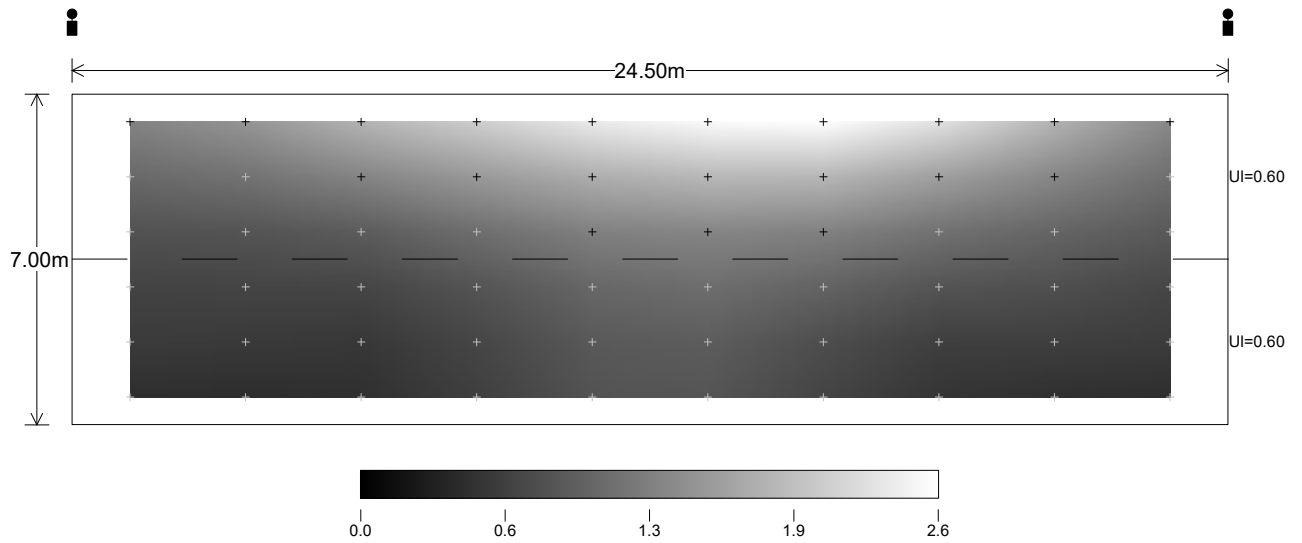
Main Results

Observer in Lane 1

Lav	1.11
Lmin	0.46
Lmax	2.58
U0	0.41
UI	0.60
TI(%)	6.83

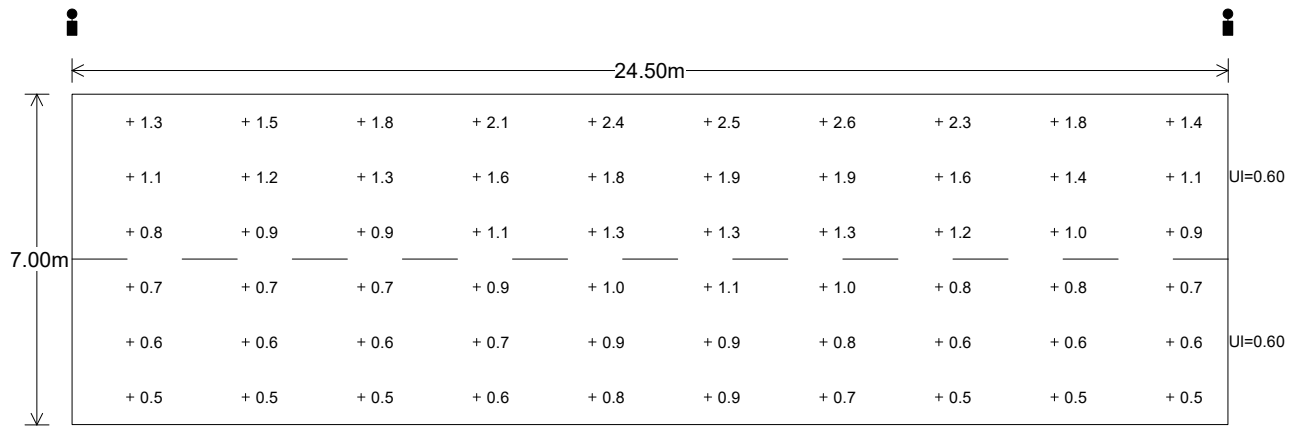
Luminance (cd/m²)

Observer in Lane 1



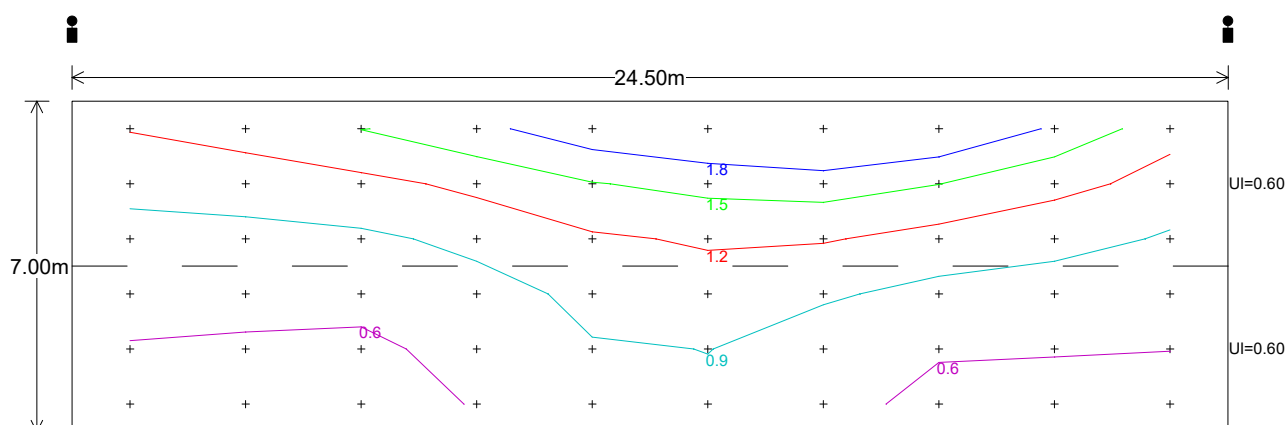
Luminance (cd/m²)

Observer in Lane 1



Luminance (cd/m²)

Observer in Lane 2



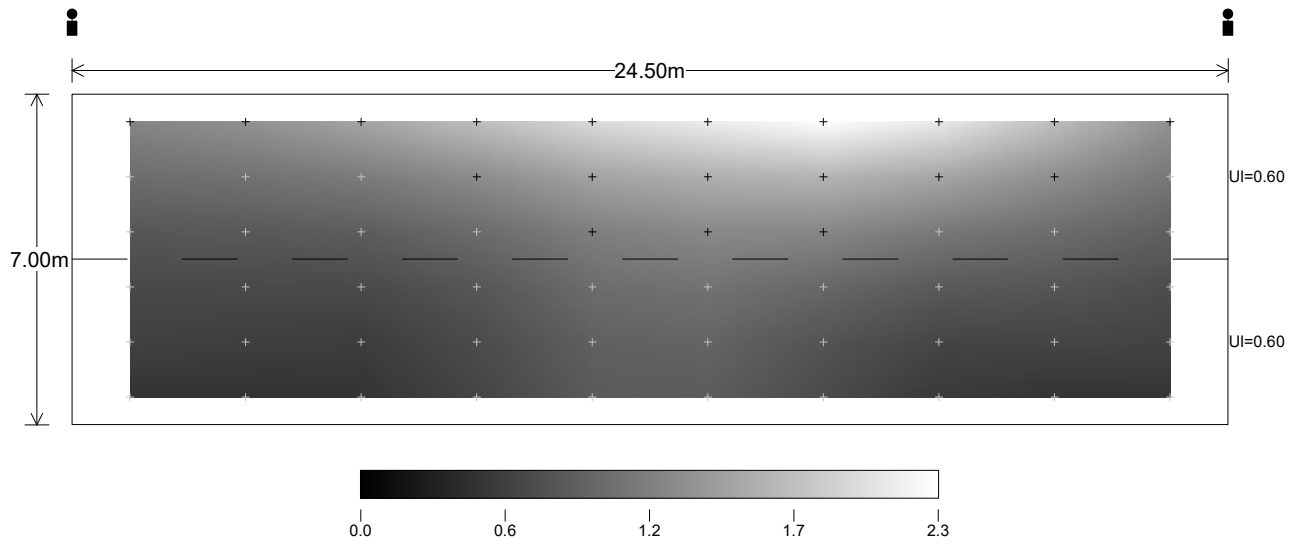
Main Results

Observer in Lane 2

Lav	1.02
Lmin	0.45
Lmax	2.31
U0	0.44
UI	0.60
TI(%)	14.82

Luminance (cd/m²)

Observer in Lane 2



Luminance (cd/m²)

Observer in Lane 2

