

DATE: 5 November 2024
DESIGNER: YA
PROJECT No: P01013-150
PROJECT NAME: Northern Arc Avenue

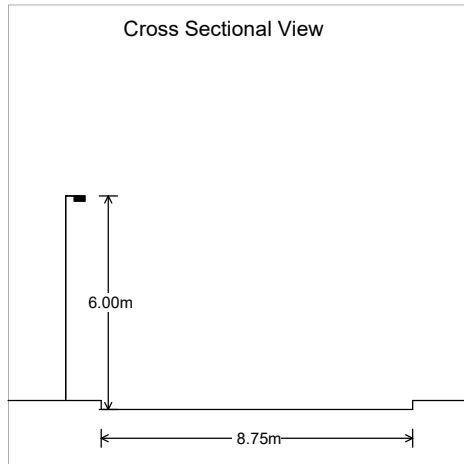


Lit to P3
Single sided left arrangement

Roadway Lighting Report

Roadway Report Summary

Layout



Road Data

Calculation Grid	2015:EN13201 Illuminance
Width (m)	8.75
No. of Lanes	2
Road Surface	C2
Q0	0.07
Left Footpath(m)	0.00
Right Footpath(m)	0.00

Main Lighting

Column Data

Configuration	Single Sided Left
Spacing (m)	38.50
Height (m)	6.00
Tilt (deg)	0.00
Setback (m)	1.00
Outreach (m)	0.40
Overhang (m)	-0.60

Luminaire Data



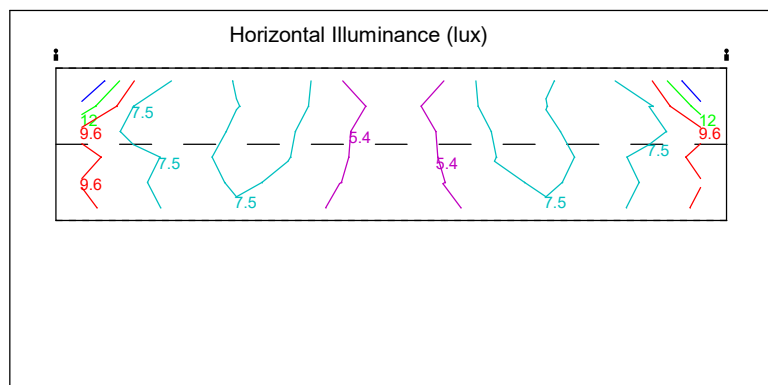
Supplier	Urbis Schreder
Type	AXIA 3.1 5384 Integrated lenses 16 OSLO N SQUARE GIANT@870mA
Lamp(s)	16 OSLO SQUARE GIANT@870mA NW 740 230V 00-53-397
LampFlux(klm)/Colour	5.50 NW 4000K/70
File Name	AXIA 3.1 5384 16 OSLO SQUARE GIANT 870mA NW 740 44W 487502 Integrated le...
Maintenance Factor	0.87
Lum. Int. Class	None

Results

Main

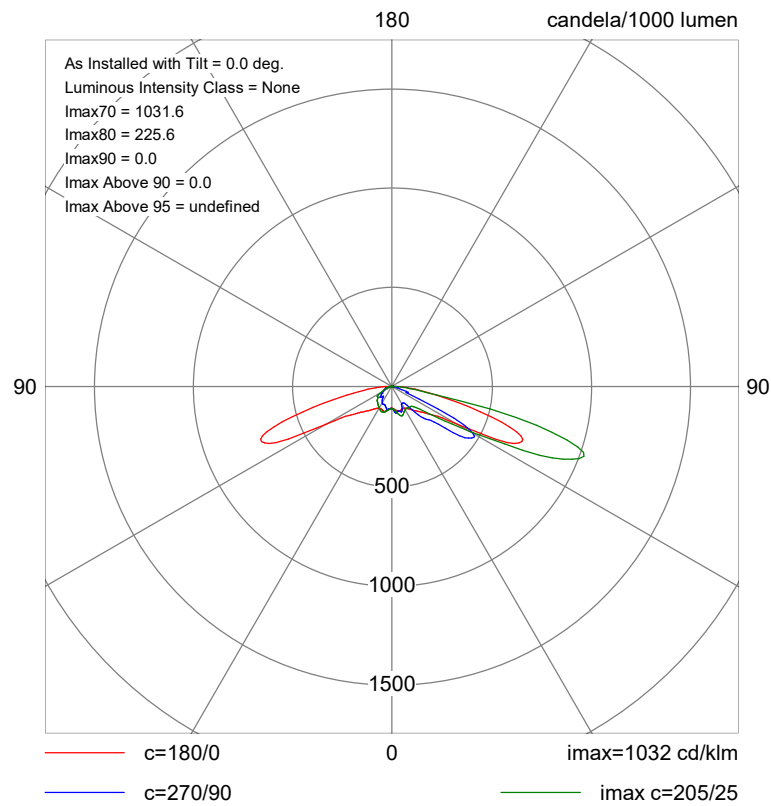
Complies with P3

Eav	7.58
Emin	4.33
Emax	17.01
Emin/Emax	0.25
Emin/Eav	0.57

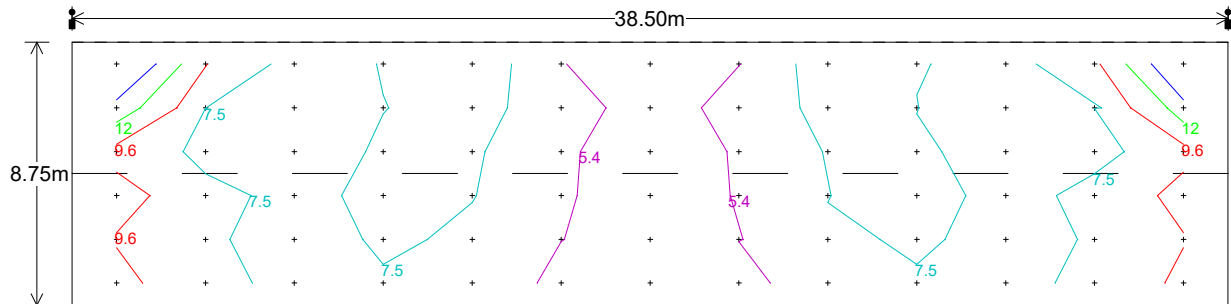


Polar Diagram

Main Luminaire AXIA 3.1 5384 Integrated lenses 16 OSLON SQUARE GIANT@870mA



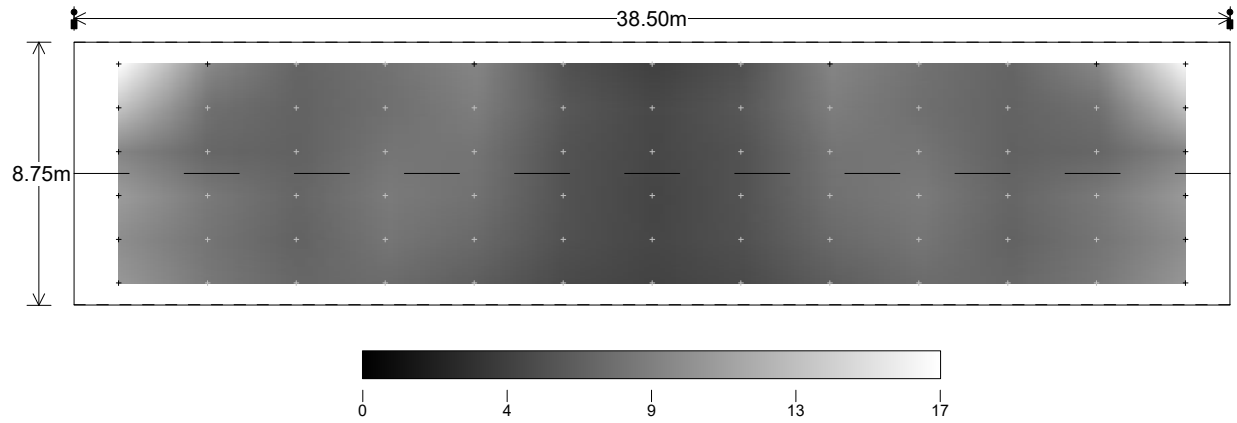
Horizontal Illuminance (lux)



Main Results

Eav	7.58
Emin	4.33
E _{max}	17.01
E _{min} /E _{max}	0.25
E _{min} /E _{av}	0.57

Horizontal Illuminance (lux)



Horizontal Illuminance (lux)

38.50m													
8.75m	+17.0	+9.2	+6.7	+7.6	+8.9	+5.5	+4.3	+5.5	+8.9	+7.6	+6.7	+9.2	+17.0
	+13.1	+7.5	+6.6	+7.4	+8.4	+5.9	+4.8	+5.9	+8.4	+7.4	+6.6	+7.5	+13.1
	+8.9	+6.9	+6.5	+7.8	+7.8	+5.6	+4.8	+5.6	+7.8	+7.8	+6.5	+6.9	+8.9
	+10.4	+8.1	+6.8	+8.2	+7.6	+5.6	+4.6	+5.6	+7.6	+8.2	+6.8	+8.1	+10.4
	+9.5	+7.8	+6.6	+7.9	+7.1	+5.4	+4.7	+5.4	+7.1	+7.9	+6.6	+7.8	+9.5
	+10.2	+8.0	+6.9	+7.2	+6.3	+5.0	+4.5	+5.0	+6.3	+7.2	+6.9	+8.0	+10.2