

DATE: 11 May 2023
DESIGNER: D Walker
PROJECT No: AC-MSL-6160
PROJECT NAME: Chatworth Mill

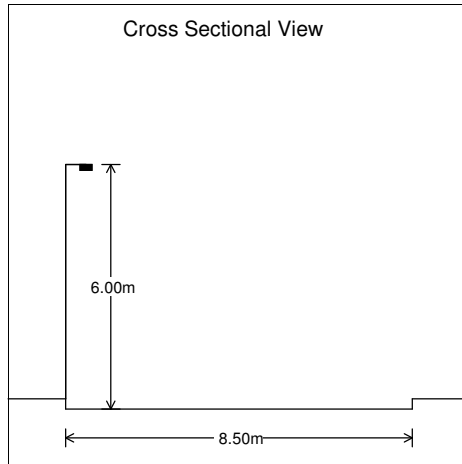
ameyconsulting

Roadway Lighting Report

PREPARED BY: Amey Consulting
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M98AB
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Roadway Report Summary

Layout



Road Data

Calculation Grid	CIE140 Illuminance
Width (m)	8.50
No. of Lanes	2
Road Surface	C2
Q0	0.07

Main Lighting

Column Data

Configuration	Single Sided Left
Spacing (m)	20.50
Height (m)	6.00
Tilt (deg)	0.00
Setback (m)	0.00
Outreach (m)	0.50
Overhang (m)	0.50

Luminaire Data

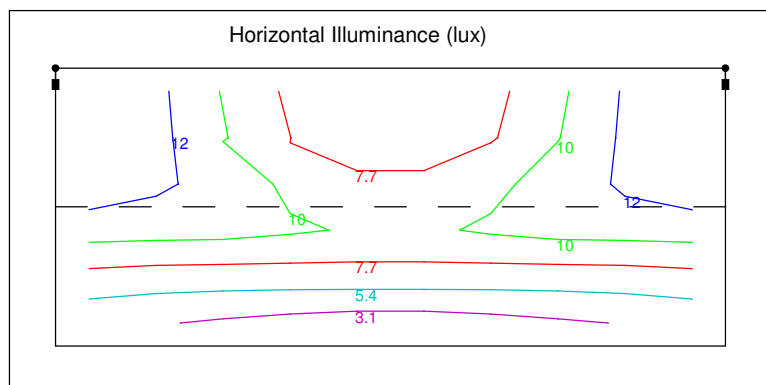
Supplier	Manchester
Type	BGP615 DM12
Lamp(s)	LED-HB 4S/740
Lamp Flux (klm)	3.00
File Name	Luma Micro DM12 2.25klm @ 75% (2250 l m).les
Maintenance Factor	0.76
Lum. Int. Class	G3
Lamp S/P Ratio	1.61

Results

Main

Complies with P3*
With S/P ratio = 1.61

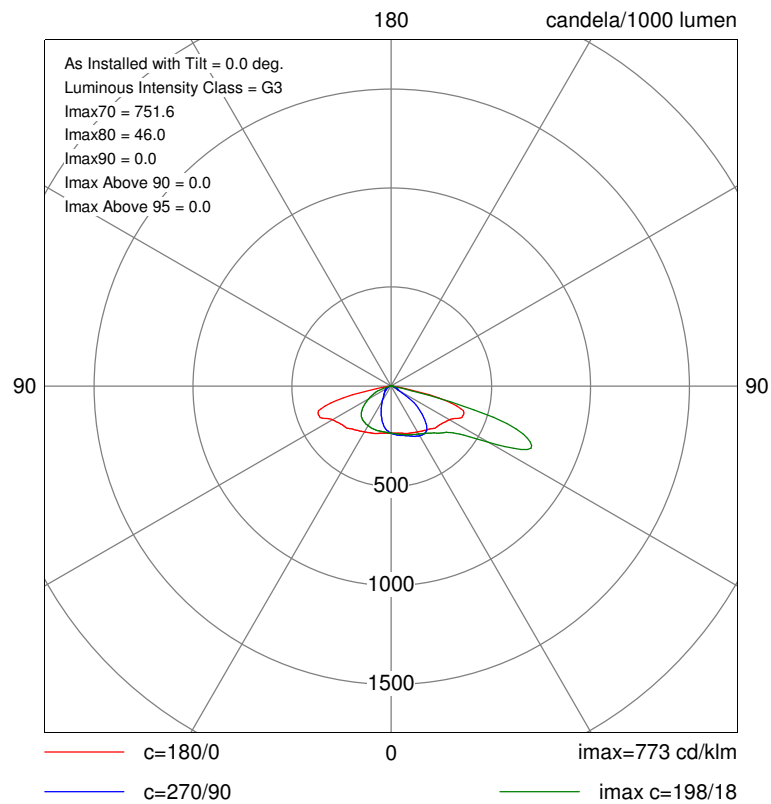
Eav	8.66
Emin	1.89
E _{max}	15.84
E _{min} /E _{max}	0.12
E _{min} /E _{av}	0.22



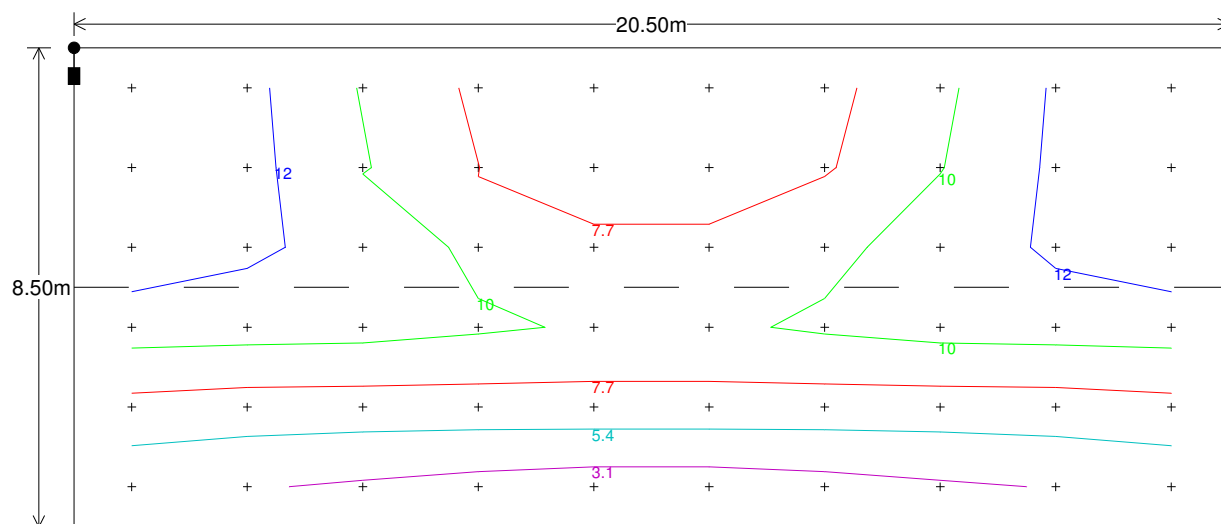
*The lighting class has been modified using the lamp S/P ratio in accordance with PLG03 With Eav from 5.89 to 8.83 and Emin 1.18

Polar Diagram

Main Luminaire BGP615 DM12



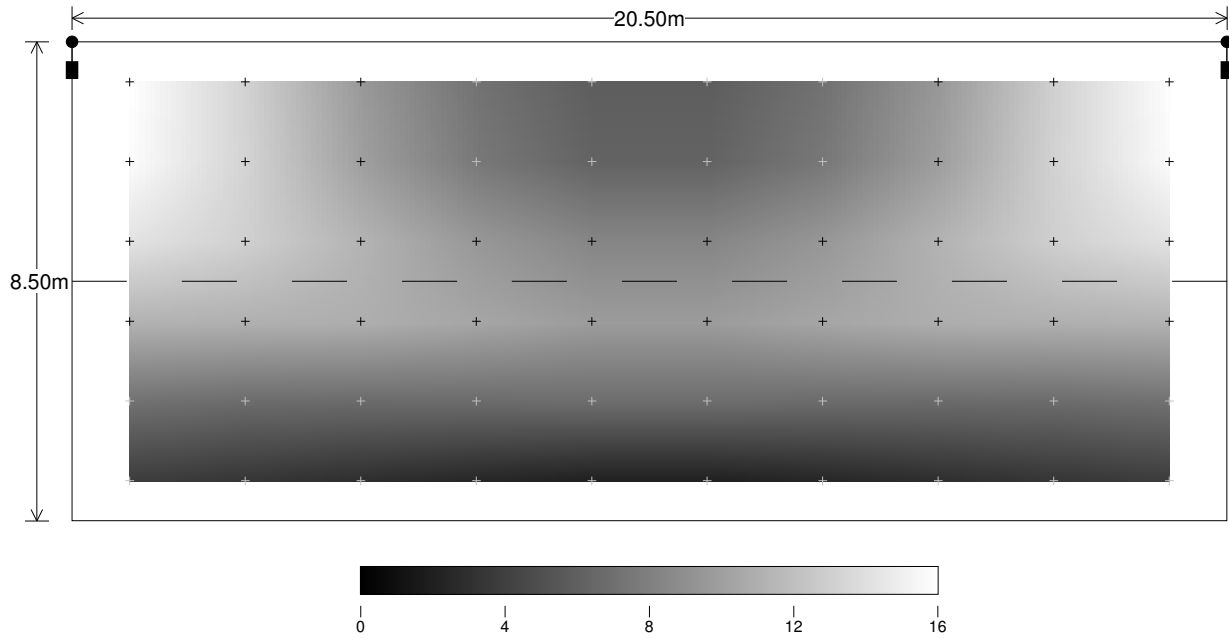
Horizontal Illuminance (lux)



Main Results

Eav	8.66
Emin	1.89
E _{max}	15.84
E _{min} /E _{max}	0.12
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Horizontal Illuminance (lux)



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