

DATE: 29 July 2025
DESIGNER: Julian Joseph
PROJECT No: 100769-JLD-S38-DC-0002A
PROJECT NAME: S38 Desford Lane, Ratby, Leics

joseph lighting

"This lighting calculation has been produced for the main access road through the Desford Lane development.

Lighting class - P4

LCC luminaire: HWD2-#27K16 700-M1-CLO Gen 7

Trimming: 90% of full power for P4 lighting class

Road width: 9.50m

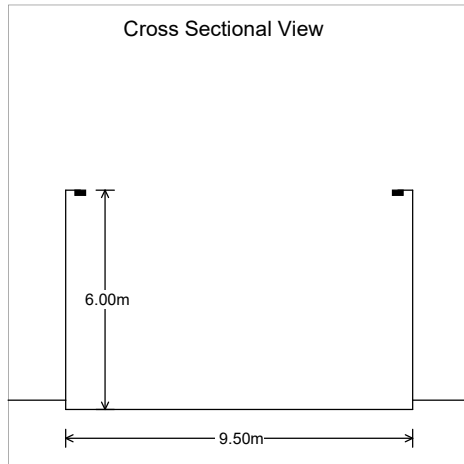
Maximum column spacing: 42m

Roadway Lighting Report

PREPARED BY: Joseph Lighting Design Ltd
Milton Keynes
(t) 01908 385 288
(m) 07812 159 929
(e) solutions@josephlighting.co.uk
www.josephlighting.co.uk

Roadway Report Summary

Layout



Road Data

Calculation Grid	2015:EN13201 Illuminance
Width (m)	9.50
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	Staggered
Spacing (m)	42.00
Height (m)	6.00
Tilt (deg)	0.00
Left Setback (m)	0.00
Left Outreach (m)	0.40
Left Overhang (m)	0.40
Right Setback (m)	0.00
Right Outreach (m)	0.40
Right Overhang (m)	0.40

Luminaire Data

Supplier	ASD Lighting
Type	HWD2-#27K16 700-M1-CLO Gen 7
Lamp(s)	LED
LampFlux(klm)/Colour	3.50 2700/72
File Name	HWD2-#27K16 700-M1-CLO (33W).ldt
Maintenance Factor	0.84
Lum. Int. Class	G2

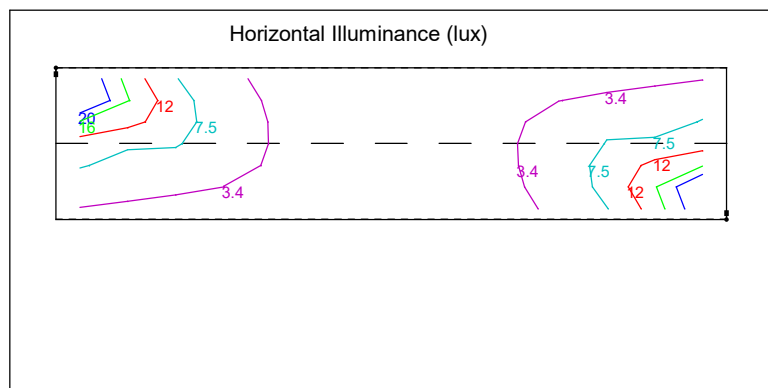


Results

Main

Complies with P4

Eav	5.60
Emin	1.35
Emax	26.01
Emin/Emax	0.05
Emin/Eav	0.24



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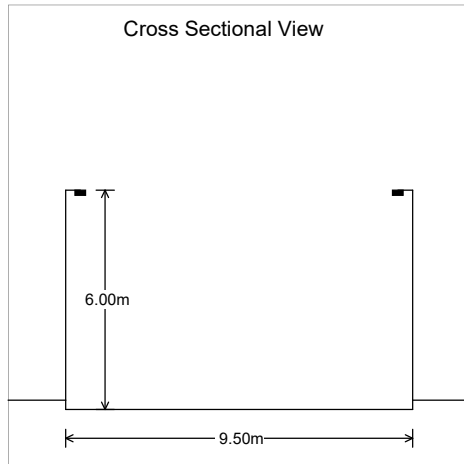
Minimum column spacing: 28.50m

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Right Footpath(m)	0.00

Main Lighting

Column Data

Configuration	Staggered
Spacing (m)	28.50
Height (m)	6.00
Tilt (deg)	0.00
Left Setback (m)	0.00
Left Outreach (m)	0.40
Left Overhang (m)	0.40
Right Setback (m)	0.00
Right Outreach (m)	0.40
Right Overhang (m)	0.40

Luminaire Data



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Type	HWD2-#27K16 700-M1-CLO Gen 7
Lamp(s)	LED
LampFlux(klm)/Colour	3.50 2700/72
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Maintenance Factor	0.84
Lum. Int. Class	G2

Results

Main

Eav	8.26
Emin	2.95
E _{max}	26.71
E _{min} /E _{max}	0.11
E _{min} /E _{av}	0.36

