






WE-EF LIGHTING - AS/NZS 1158.3.1:2020 Pathway Lighting Design Options – Bollards

Maximum Spacing (m) – PP2 Pathway ²							
Luminaire ¹	Luminaire Details	Luminaire Lumens	Path Width ⁶				Product Image
			1m	2m	3m	4m	
PSY414 <i>[0% UWLR] [800mm]</i>	R45 3 LED 6W	552.1	7.1m	7.2m	6.1m	-	
	R45 3 LED 9W	997.8	8.8m	9.0m	6.0m	6.1m	
	R45 3 LED 12W	1276.5	9.3m	9.5m	6.0m	6.5m	
PSY424 <i>[0% UWLR]</i>	A60 6 LED 12W	1224.2	8.4m	9.1m	6.9m	6.7m	
	A60 6 LED 18W	2027.8	9.3m	10.0m	6.8m	6.5m	
	A60 6 LED 26W	2593.4	9.7m	10.0m	6.8m	6.5m	
	R65 6 LED 12W	1057.2	9.5m	9.8m	9.0m	8.0m	
	R65 6 LED 18W	1998.3	10.0m	10.0m	10.0m	9.6m	
	R65 6 LED 26W	2555.7	10.0m	10.0m	10.0m	10.0m	
	S70 6 LED 12W	1176.0	9.7m	10.0m	8.7m	-	
	S70 6 LED 18W	2237.0	10.0m	10.0m	10.0m	7.2m	
	S70 6 LED 26W	2860.8	10.0m	10.0m	10.0m	8.3m	
KTY234 ⁹ <i>[C60 13.1% UWLR] [R65 9.6% UWLR]</i>	C60 18W	863.4	12.6m	12.3m	10.3m	8.2m	
	C60 26W	1104.2	13.6m	13.3m	12.3m	10.4m	
	R65 9W	543.9	10.7m	10.8m	10.2m	8.7m	
	R65 13W	695.7	11.4m	12.1m	11.0m	10.2m	
CFY259 ⁹ <i>[1.3% UWLR]</i>	Forward-throw 12W	397.7	6.4m	6.7m	-	-	
	Forward-throw 18W	571.5	6.7m	7.3m	-	-	
ZFY230 ⁹ <i>[14.0% UWLR]</i>	C60 12W	799.4	9.8m	9.4m	7.2m	6.0m	
	C60 17W	1184.3	10.0m	10.0m	8.8m	6.8m	

¹ Luminaire offset distance is 0.3m behind the path edge in a single sided arrangement.

² PP2 Pathway - Average Horizontal 7 lx
Minimum Horizontal 1 lx
Minimum Vertical N/A⁸
Uniformity (Max/Avg) 5

³ Calculations are based on a 0.8 luminaire LLF.

⁴ Light source position is ≈ 1.0m AFFL unless noted otherwise.

⁵ Lamp colour temperature is 4000K, 2200K, 2700K, 3000K & amber bollard spacings may vary, for further details check with WE-EF Lighting.

⁶ Bollard spacing for each path width may vary as the calculation grid point arrangements change to suit.

⁷ Calculations exclude the 50% of Eph 5m either side of the path in view of footnote d of table 3.4.




⁸ Calculations exclude the E_{pv} component, this is not normally allowed, confirm acceptance.

⁹ Upward waste light exceeds the 1% allowed for pathways, confirm acceptance.

¹⁰ Possibly consider a staggered or opposite luminaire arrangement for a larger spacing.

¹¹ Luminaire spacings are based on using the Perfect Lite software while adopting the 2020 light technical parameters.

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			1m	2m	3m	4m	
QSI254 ⁹ <i>[23.8% UWLR]</i>	Forward-throw 10W	563.7	6.1m	6.6m	4.8m	5.7m	
NTY184 ⁹ <i>[2.5% UWLR] [800mm]</i>	A60 12W	719.6	8.6m	8.9m	6.0m	5.8m	
	A60 18W	1316.3	9.7m	10.0m	6.0m	5.8m	
MRY224 <i>[0% UWLR] [850mm]</i>	C70 11W	948.1	6.9m	6.6m	5.9m	-	
	C70 15W	1262.9	8.2m	6.9m	6.0m	-	
	S60 11W	946.9	10.0m	10.0m	8.5m	6.2m	
	S60 15W	1261.3	10.0m	10.0m	9.0m	6.6m	
MRY224 <i>[0% UWLR]</i>	C70 11W	948.1	8.8m	8.4m	6.0m	4.7m	
	C70 15W	1262.9	9.1m	8.8m	6.5m	5.6m	
	S60 11W	946.9	10.0m	10.0m	10.0m	8.2m	
	S60 15W	1261.3	10.4m	10.3m	10.0m	9.4m	