P Category Lighting - AS/NZS 1158.3.1:2005
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ELC - Essential Lighting Consultancy Ltd

I-table Filename: C:\Users\Steve Muir\Documents\Lighting Design\Longford Bridge GDC\ELC Design info\NXT-12S-350mA-2ES-3000K.cie

Job Name: Longford Bridge PP4 Shared Pathway

Luminaire Description: NXT-12S-350mA-2ES-30 1675 lms
Lamp Wattage & Type: 14W
Initial Lamp Flux: 1675 lms
Maintenance Factor: 0.8
Stores Code:
Upcast Angle: 0 degrees
Arrangement: Single Side
Offset Distance: -.3 m [ie. away from Path edge]
Upward Waste Light Ratio: .0 %
Light Source: LED - Light Emitting Diode
Luminaire Classification: Not specified

Lighting Category: User Defined

Illuminance Criteria: (Maintained values)
Average Illuminance (Eav) >= 1.50 lx
Minimum Illuminance (Eph) >= 0.25 lx
Illuminance Uniformity (Up) <= 5
Vertical Illuminance (Epv) >= 0.05 lx
(Epv calculated on plane 1.5m above ground and contribution from luminaire in adjacent span used in calculations)

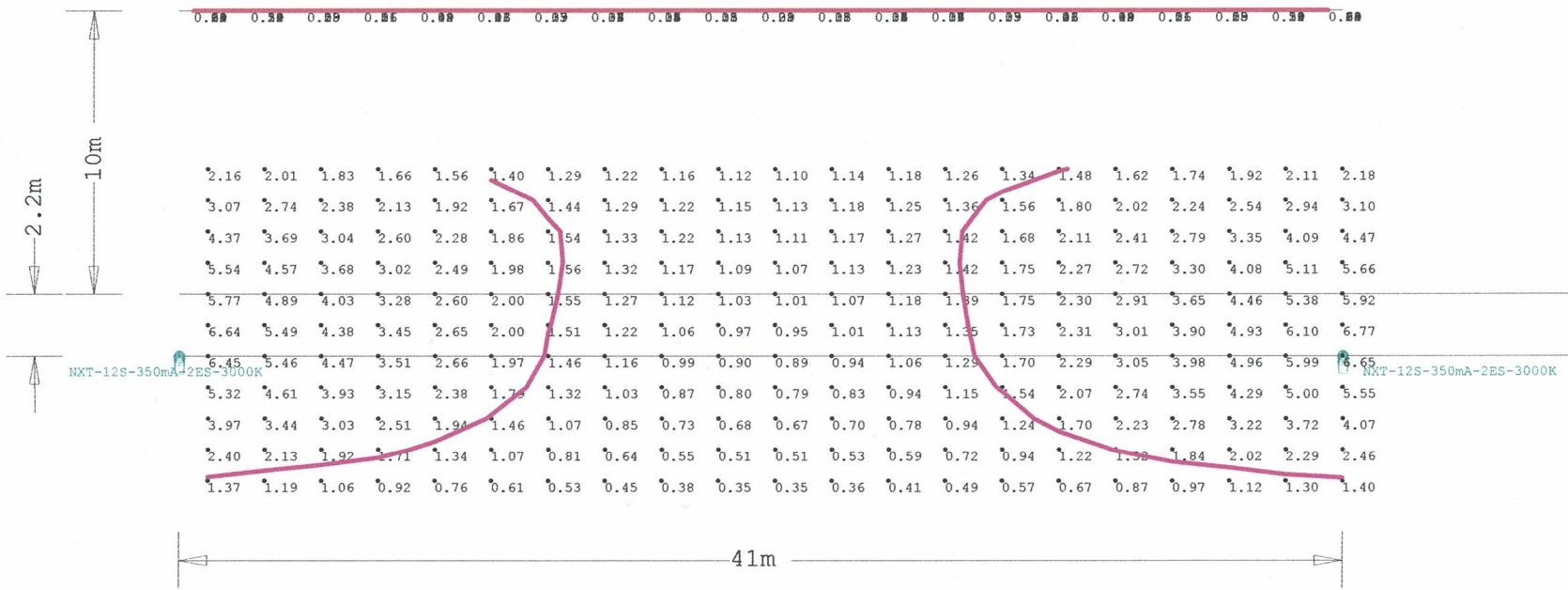
Calculation Grid: Dependant on Path width (refer Figure 3.8 of AS/NZS 1158.2)

Mounting Height	Maximum Spacing for different Path Widths	
	2.2	3.0
7.5	41.3	41.3

Value/s in above table are all in metres.
The table contains maximum spacings which, for the specified luminaire and lamp combination, provide compliance with the User Defined light technical parameters (LTPs) nominated above.

Refer next page for list of LTP's at compliant maximum spacings.

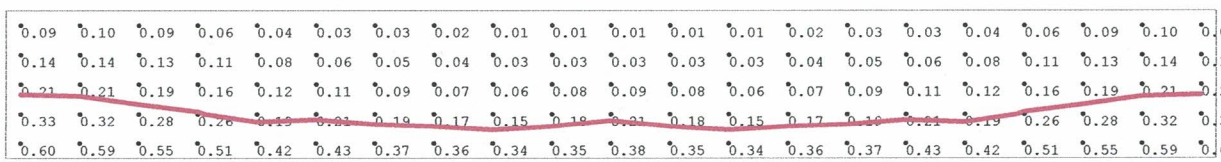
Luminaire Schedule						
Symbol	Qty	Label	LLF	Lum. Watts	UWLR	BUG Rating
	2	NXT-12S-350mA-2ES-3000K	0.800	14	0.00	B1-U0-G1



Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Avg
Horizontal on pathway	Illuminance	Lux	3.08	6.9	0.9	N.A.
Horizontal surround	Illuminance	Lux	2.16	6.77	0.35	N.A.
Vertical	Illuminance	Lux	0.19	0.60	0.01	N.A.

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	NXT-12S-350mA-2ES-3000K	0	-0.3	7.5	90	0
2	NXT-12S-350mA-2ES-3000K	41	-0.3	7.5	90	0

TYPICAL PATHWAY LIGHTING CALCULATION TO PP4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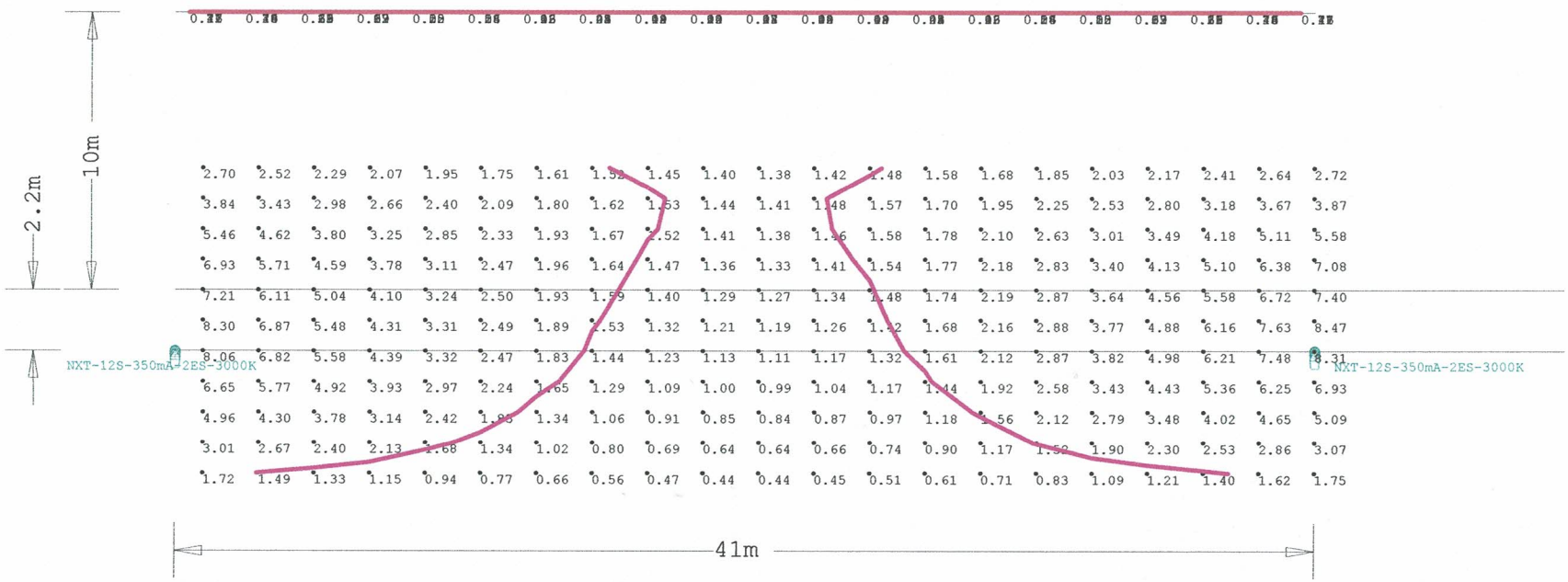
0.14 0.14 0.13 0.11 0.08 0.06 0.05 0.04 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.06 0.08 0.11 0.13 0.14 0.14
0.21 0.21 0.19 0.16 0.12 0.11 0.09 0.07 0.06 0.08 0.09 0.08 0.06 0.07 0.09 0.11 0.12 0.16 0.19 0.21 0.21
0.33 0.32 0.28 0.26 0.19 0.21 0.19 0.17 0.15 0.18 0.21 0.18 0.15 0.17 0.19 0.21 0.19 0.26 0.28 0.32 0.33
0.60 0.59 0.55 0.51 0.42 0.43 0.37 0.36 0.34 0.35 0.38 0.35 0.34 0.36 0.37 0.43 0.42 0.51 0.55 0.59 0.60

Luminaire Schedule						
Symbol	Qty	Label	LLF	Lum. Watts	UWLR	BUG Rating
	2	NXT-12S-350mA-2ES-3000K	1.000	14	0.00	B1-U0-G1



Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Avg
Horizontal on pathway	Illuminance	Lux	3.86	8.6	1.2	N.A.
Horizontal surround	Illuminance	Lux	2.70	8.47	0.44	N.A.
Vertical	Illuminance	Lux	0.23	0.76	0.02	N.A.

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	NXT-12S-350mA-2ES-3000K	0	-0.3	7.5	90	0
2	NXT-12S-350mA-2ES-3000K	41	-0.3	7.5	90	0

TYPICAL PATHWAY LIGHTING CALCULATION TO PP4