

THIS DESIGN HAS NOT BEEN ACHIEVED TO MEET THE REQUIREMENTS OF ANY AUSTRALIAN SPORT LIGHTING STANDARD.

THIS DESIGN HAS BEEN PRODUCED AS PER THE REQUESTS OF THE CLIENT. THE CLIENT REQUESTED A MINIMUM HORIZONTAL POINT ILLUMINANCE AT GROUND LEVEL OF Eph=50lx (surf lagoon only).

Luminair	Luminaire Schedule											
Project: F	Project: Floods											
Symbol	Qty	Label	Arrangement	LLF	Description	Total Watts	Lum. Lumens	Arm	CIE Type	IES Class		
-	15	Ra3	SINGLE	0.800	SR4H840A2 4000K CRI80 Flat Glass	19200	113956	0	Direct	Type III		
	15	Ra3b	SINGLE	0.800	SR4H840A2 with Baffle	19186.5	107018	0	Direct	Type III		

07.03.2017 Revised design based on clients reques

Design Notes

For further calculations or details please consult your GPS representative.

A maintenance factor of 0.8 has been applied to all IP6x luminaires. A maintenance policy should be adopted to support the maintenance factor of 0.80.

Mounting height MH - refers to the height above the pool surface from the luminaire.

Obstructions such as fences HAVE NOT BEEN INCLUDED in this lighting calculation.

AS4282 1997 - "Control of the obtrusive effects of outdoor lighting" LIGHT TECHNICAL PARAMETERS - Pre-curfew hours

- -> Ev Residential Areas 10 lux maximum
- -> Luminous Intensity Emitted Level 2 control
- -> Threshold Increment 20% maximum

DESIGN ASSESSMENT - Street lights & floods SWITCHED ON Vertical spill illuminance has been calculated on the boundaries as shown from 0m to 25m above ground level (1 x 1m increment grid). The maximum calculated vertical illuminance with floods switched on is 1.1lux maintained (1.375lux initial).

The maximum luminous intensity emitted per luminaire has been assessed using a large controlling dimension of >75 metres. The maximum elevation used in the design results in a maximum luminous intensity within Level 2 control limits.

Threshold increment has been calculated on the roadways. The maximum TI calculated is 11.6% based on an assumed roadway adaptation luminance of 1.0 cd/m2.

This represents a CONCEPT DESIGN ONLY; site and pole locations must be confirmed prior to installation.

ASSUMPTIONS:

We haven't received any clear indication regarding pole and luminaire types on Hill Rd; these have been assumed to be Sylvania Roadster 150W HPS Aeroscreen (located as per supplied CAD file).

Vegetation on Hill Rd (North boundary) has been included in the lighting design using a 50% transmittance factor.



Project:	URBNSURF Sydney		Rev:	Scale:			
			3	1:1500 / A3			
Title:	50lux min	Designer:	Date:	Page No:			
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Client:	WAVEPARK Group	Document No:					
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