

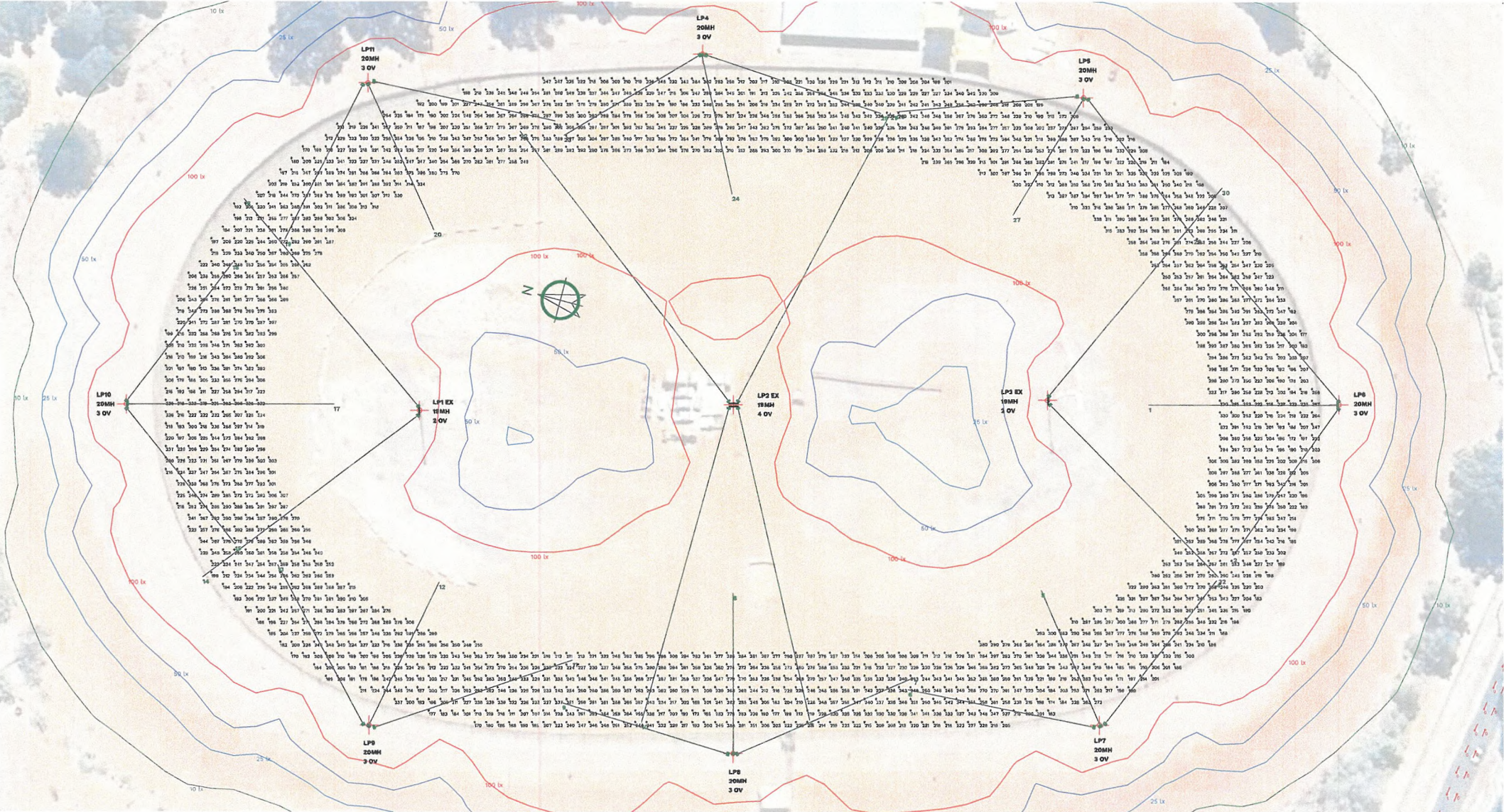
Light Loss Factor (LLF):

A Light Loss Factor (LLF), accounting for LED lumen and dirt depreciation, of 0.85 has been used for all BRITELINE LED luminaires. This is derived from a combination of the following:

- * Luminaire Dirt Depreciation (LDD) - 0.95, based on a 36-month cleaning cycle (per AS2560.1:2018 Table 4.1)
- * Lamp Lumen Depreciation (LLD) - 0.963 (L96.3) @ 17,000 burning hours.

Luminaire Arrangement:

Light poles labelled LPI to LPT1
* Please refer to the site layout for configurations



Luminaire Schedule			
Project: 63 Landshere			
Symbol	Qty	Label	Description
LPI	30	BRITELINE GLEND 5489 3 MOD 1830V CH10 4000K	BRITELINE GLEND 5489 3 MOD 1830V CH10 4000K

Calculation Summary: All Landshere dr									
Project: 63 Playing Area									
Label	CalcType	Units	Avg	Max	Min	U1	U2	U3	PolyType
CalcType_1	Distance	Lux	148.79	338	PTD	0.88	0.95	1.00	PolyType

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The design calculation is based upon specified parameters supplied by the client, and other design notes associated by us, or derived in this document. In practice, the accuracy of the results will differ due to environmental conditions such as actual luminaire positioning, room surface performance, supply voltage, heat, luminaire and lamp temperature, installation conditions etc. These results are also subject to normally accepted photometric tolerances, and manufacturer's uncertainties.

Schröder Australia provides this calculation without any representation or warranty of any kind. The Designer shall be solely responsible to the Customer for failure to obtain such performance figures across the performance of the design supplied is specifically guaranteed in writing, and any such written guarantee shall be subject to acceptance of manufacturing tolerances and tolerances applicable to the Goods.

REV	DATE	COMMENTS	DESIGNER
R1	12/16/2025	Original design	C TAME
R2	20/08/2025	POLE relocation	C TAME
R3	12/11/2025	Further pole changes as requested	C TAME
R4			
R5			

PROJECT	CONTACT
Ellenbrook Speedway 288 Ellenbrook Rd, Bullsbrook WA 6084	Ivan Mathias imathias@sylvania-schreder.com

TITLE	DOCUMENT NO.
Technical details and results	0256037CTR2.AGI

REVISION	PAGE NO.
R2	Page 2 of 3

DESIGN NOTES: OBTRUSIVE LIGHT ASSESSMENT

The Obtrusive Light assessment is based on the light limiting parameters and guidelines from the Australian Standard AS/NZS4282:2023 'Control of the obtrusive effects of outdoor lighting'.

To claim compliance with the Standard, calculations must comply with the following light limiting parameters:

- * Spill light (Illuminance (lux))
- * Luminous Intensity At Vertical Planes (Candelas (cd))
- * Threshold Increment (TI)
- * Upward Light Ratio (ULR)

Refer to image opposite for all assumed spill light, luminous intensity and threshold increment boundaries.

Calculations are initial (LLF = 1), representing the worst-case scenario and assume Pre-curfew conditions in accordance with AS/NZS4282:2023.

This calculation has assumed the site to fall within environmental category, Zone A3, as per Table 3.1 within AS/NZS4282:2023.

The relevant light technical parameters for spill light, threshold increment and upward light ratio are taken from Table 3.2 within AS/NZS4282:2023. Refer to next page for light technical parameters.

The relevant light technical parameters for luminous intensity are taken from Table 3.3 within AS/NZS4282:2023. All luminaires are aimed to comply with LEVEL 1 control limits. Refer to next page for light technical parameters.

Calculations use a scaled aerial image to estimate assumed property boundaries and roadways. A surveyed drawing, highlighting property boundaries and surrounding roadways, should always be used to verify calculation locations.

See following page for relevant definitions and calculation parameters taken from AS/NZS4282:2023.

Obtrusive Light - Compliance Report

AS/NZS 4282:2023 A3 - Medium District Brightness, Non-Curfew L1
Filename: 0256037CTR0
12/08/2025 1 11 11 PM

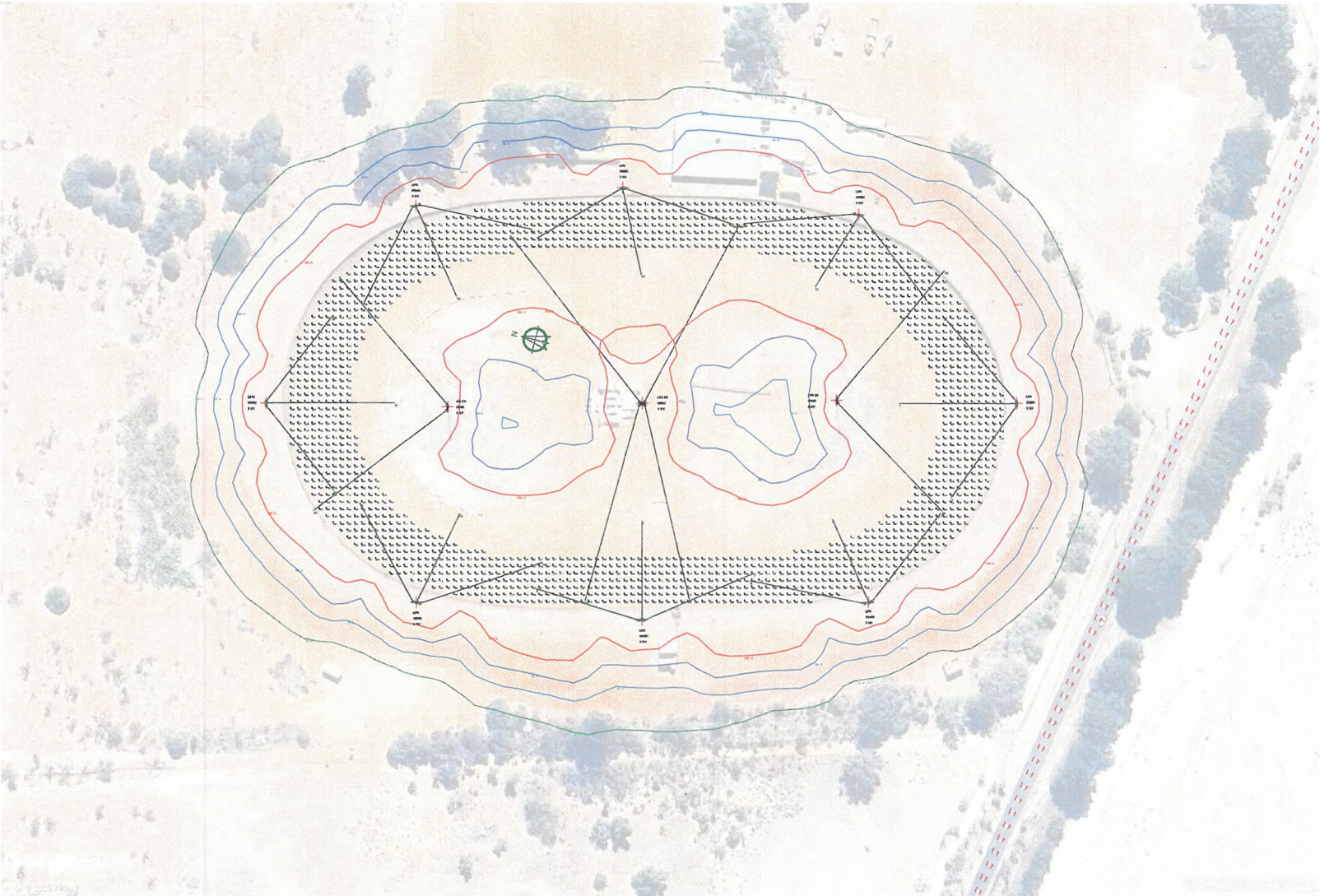
Threshold Increment (TI)
Maximum Allowable Value 20 %

Calculations Tested (2)

Calculation Label	Adaptation Test	Results
TI_1	1	PASS
TI_2	1	PASS

Upward Waste Light Ratio (UWLR)
Maximum Allowable Value 2.0 %

Calculated UWLR 0.0 %
Test Results PASS



UWLR Area Summary	
Project: 06 UWLR	
Label	UWLR
UWLR	0.000

AS/NZS4282:2023 Software Compliance Report

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This design calculation is based upon specified parameters supplied by the client, and other design inputs assumed by us, as indicated in this document. In practice, the accuracy of the values will differ due to environmental variations such as actual luminaire performance, ground surface reflectance, sky conditions, local luminous intensity, atmospheric conditions, etc. These results are also subject to normally accepted procurement tolerances, and calculation/rounding conventions.
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REV	DATE	COMMENTS	DESIGNER
00	12/08/2025	Original design	C TAME
01	30/08/2025	POLC Relocation	C TAME
02	10/09/2025	Further pole changes on requested	C TAME
03			
04			
05			

PROJECT	Ellenbrook Speedway 288 Ellenbrook Rd, Bullsbrook WA 6084
CONTACT	Ivan Mathias imathias@sylvania-schroeder.com

Luminaire Schedule		
Qty	Description	LLF
32	BRITELINE GEN3 5465 3 MOD 1830W CRI70 4000K	0.850

TITLE	AS/NZS4282:2023 Obtrusive Light Report
DOCUMENT NO.	0256037CTR2.AGI

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