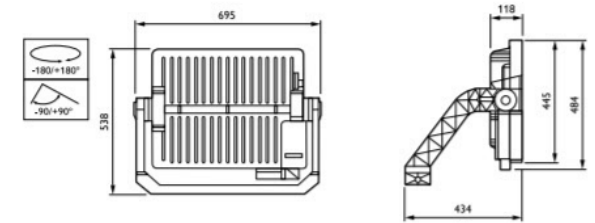


Luminaire Layout & PPA - Calculation Grid AFL Cricket Oval



OPTIVISION FLOODLIGHT MOUNTED ON 15M POLES

Luminaire Schedule						
Symbol	Qty	Tag	Arr. Watts	Arr. Lumens	LLF	Description
	8	NL	945	110724	0.880	1 x Optivision BVP518 A35-NB +LT 757 T30

Note: Luminaire at 100% lumen output for accurate obtrusive lighting calculations

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Field PPA	Illuminance	Lux	110.16	149	70	0.64	0.47

Calculation Summary							
Label	CalcType	Obs Label	Obs Z	Units	Avg	Max	Min
GR_1	Glare Rating	Obs 1	1.5	N.A.	25.66	41.1	10.0
GR_1	Glare Rating	Obs 10	1.5	N.A.	11.37	36.6	10.0
GR_1	Glare Rating	Obs 11	1.5	N.A.	22.06	43.5	10.0
GR_1	Glare Rating	Obs 2	1.5	N.A.	22.64	40.7	10.0
GR_1	Glare Rating	Obs 3	1.5	N.A.	14.54	25.4	10.0
GR_1	Glare Rating	Obs 4	1.5	N.A.	20.77	47.8	10.0
GR_1	Glare Rating	Obs 5	1.5	N.A.	12.05	39.5	10.0
GR_1	Glare Rating	Obs 6	1.5	N.A.	21.81	41.4	10.0
GR_1	Glare Rating	Obs 7	1.5	N.A.	20.01	37.0	10.0
GR_1	Glare Rating	Obs 8	1.5	N.A.	13.11	22.6	10.0
GR_1	Glare Rating	Obs 9	1.5	N.A.	20.22	44.6	10.0

This lighting design complies to AS2560.2.3
Table 1 Lighting Criteria For Outdoor Football
Level of Play: Amateur & Semi-Professional
Club Competition & Match Practice
Maintenance Horizontal Illuminance
PPA: 100 lux

Minimum Uniformity
U1: 0.5
U2: 0.3

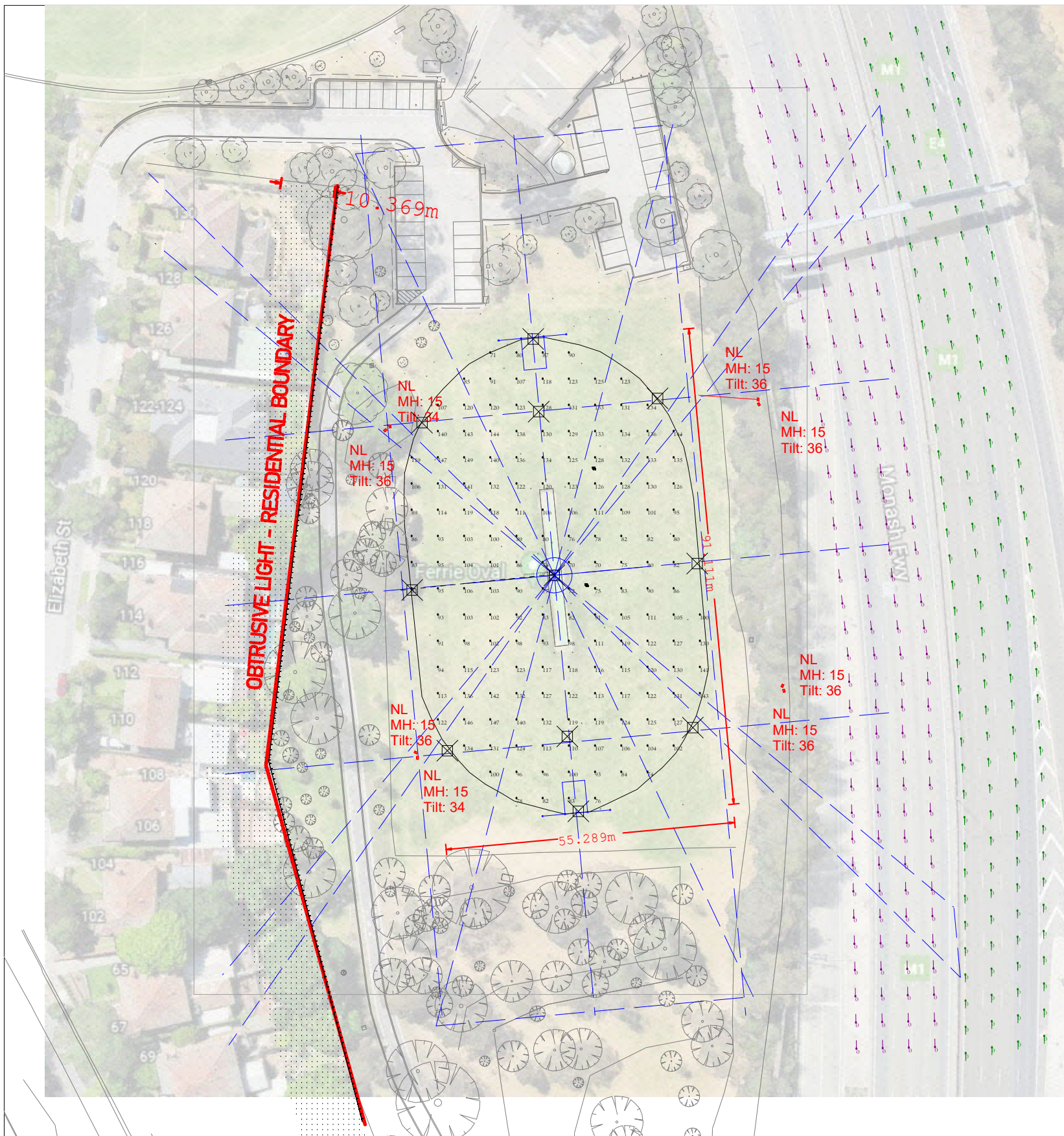
GRmax: 50

N.B. Design compliance subject to accuracy of provided information and documentation. No obtrusive lighting calculations have been undertaken.

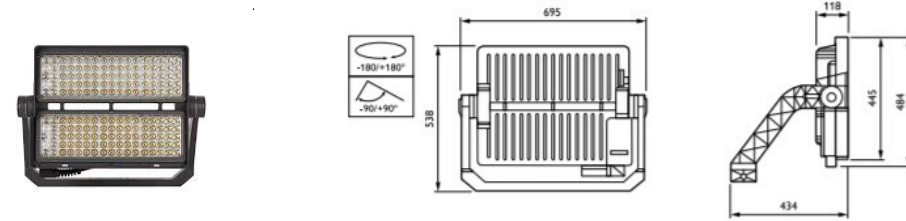
Buckford Illumination Group Pty Ltd
3473 Williamstown Road
Port Melbourne
Victoria 3207 Australia
www.buckford.com.au



PROJECT NAME: D741 - Ferri Road Oval Sport Fields Lighting
LAYOUT VIEW: Luminaire Layout & Calculations
CUSTOMER NAME:
LIGHTING DESIGNER: RL
PRINT SIZE: A3 PRINTED DATE: 26/04/2021



OBTRUSIVE LIGHT BOUNDARY LINES



Luminaire Schedule						
Symbol	Qty	Tag	Arr. Watts	Arr. Lumens	LLF	Description
☐	8	NL	945	110724	0.880	1 x Optivision BVP518 A35-NB +LT 757 T30

Note: Luminaire at 100% lumen output for accurate obtrusive lighting calculations

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Levels Over Fence	Illuminance	Lux	0.37	1.8	0.1	0.27	0.06
ObtrusiveLight_1_Cd_Seg1	Obtrusive - Cd	N.A.	N.A.	7667	3185	N.A.	N.A.
ObtrusiveLight_1_Cd_Seg2	Obtrusive - Cd	N.A.	N.A.	4941	2758	N.A.	N.A.
ObtrusiveLight_1_Ill_Seg1	Obtrusive - Ill	Lux	N.A.	3.3	0.8	N.A.	N.A.
ObtrusiveLight_1_Ill_Seg2	Obtrusive - Ill	Lux	N.A.	1.5	0.3	N.A.	N.A.
ObtrusiveLight_TI_1	Obtrusive - TI	%	0.00	0	0	N.A.	N.A.
ObtrusiveLight_TI_2	Obtrusive - TI	%	0.00	0	0	N.A.	N.A.

Obtrusive Light - Compliance Report

AS/NZS 4282:2019, A3 - Medium District Brightness, Non-Curfew L1
 Filename: Ferrie Oval REV5_4 Poles @15m
 26/04/2021 10:19:13 AM

Illuminance

Maximum Allowable Value: 10 Lux

Calculations Tested (2):

Calculation Label	Test Results	Max. Illum.
ObtrusiveLight_1_Ill_Seg1	PASS	3.3
ObtrusiveLight_1_Ill_Seg2	PASS	1.5

Luminous Intensity (Cd) At Vertical Planes

Maximum Allowable Value: 12500 Cd

Calculations Tested (2):

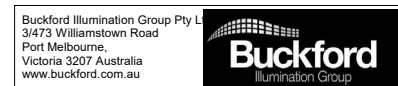
Calculation Label	Test Results
ObtrusiveLight_1_Cd_Seg1	PASS
ObtrusiveLight_1_Cd_Seg2	PASS

Threshold Increment (TI)

Maximum Allowable Value: 20 %

Calculations Tested (2):

Calculation Label	Adaptation Luminance	Test Results
ObtrusiveLight_TI_1	5	PASS
ObtrusiveLight_TI_2	5	PASS



PROJECT NAME:	D741 - Ferrie Road Oval Sport Fields Lighting
LAYOUT VIEW:	Luminaire Layout & Calculations
CUSTOMER NAME:	
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PRINTED DATE:	26/04/2021