City of Greater Geelong, Statutory Planning - Date Received 16/01/26

Future Padel Pty Ltd
Ref: 4041

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LIGHTING IMPACT ASSESSMENT
EXTERNAL COURT LIGHTING AT CITY OF GEELONG BOWLS CLUB
7–9 BALLARAT ROAD, NORTH GEELONG, VIC

DATE	REV	COMMENT	PREPARED BY	CHECKED BY
29/10/25	REV A	For Information	HB	JP

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1. INTRODUCTION

Electrolight has been engaged by Future Padel Pty Ltd to undertake a Lighting Impact Assessment on the proposed external court lighting to be installed at 7–9 Ballarat Road, North Geelong, VIC (**proposed lighting installation**). The objective of the assessment is to report on compliance with AS4282:2023 Control of the Obtrusive Effects of Outdoor Lighting.

2. DEFINITIONS

2.1 Illuminance

The physical measure of illumination is illuminance. It is the luminous flux arriving at a surface divided by the area of the illuminated surface. Unit: lux (lx); 1 lx = 1 lm/m2.

(a) Horizontal illuminance (Eh) The value of illuminance on a designated horizontal plane
(b) Vertical illuminance (Ev) The value of illuminance on a designated vertical plane

Where the vertical illuminance is considered in the situation of potentially obtrusive light at a property boundary it can be referred to as environmental vertical illuminance (Eve).

2.2 Luminance

The physical quantity corresponding to the brightness of a surface (e.g. a lamp, luminaire or reflecting material such as the road surface) when viewed from a specified direction. SI Unit: candela per square metre (cd/m2) – also referred to as "nits".

2.3 Luminous Intensity

The concentration of luminous flux (perceived light power) emitted in a specified direction. Unit: candela (cd).

2.4 Obtrusive Light

Spill light which, because of quantitative or directional attributes, gives rise to annoyance, discomfort, distraction, or a reduction in ability to see essential information such as transport signals.
Note: Obtrusive light includes the impact on humans and environmental receivers.

2.5 Threshold Increment

The measure of disability glare expressed as the percentage increase in luminance contrast threshold required between an object and its background for it to be seen equally well with a source of glare present.
Note: The required value is a maximum for compliance of the lighting scheme.

2.6 Environmentally Sensitive Area (ESA)

Area of ecological value including, bushland, waterways and marine and coastal areas.
Note: Definition source is AS4282.

2.7 AGI32 Light Simulation Software

AGI32 (by U.S. company Lighting Analysts/Revalize) is an industry standard lighting simulation software package that can accurately model and predict the amount of light reaching a designated surface or workplane. AGi32 has been independently tested against the International Commission On Illumination (CIE) benchmark, CIE 171:2006, Test Cases to Assess the Accuracy of Lighting Computer Programs.

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2.8 Upward Light Ratio Luminaire (ULR_L)

The ratio of the luminous flux of a luminaire that is emitted, at and above the horizontal, divided by the total luminaire flux when the luminaire is mounted in its designed position, and excluding reflected light from surfaces or obstructions.
Note: Definition source is AS4282.

2.9 Environmental Receiver

Any identified living species (plants, animals and other organisms) and their locations indicated, that may be impacted by the proposed lighting system.
Note: Definition source is AS4282.

3. SITE DESCRIPTION AND SCOPE

The proposed lighting installation is located at City of Geelong Bowls Club, 7–9 Ballarat Road, North Geelong VIC - refer to Appendix A for design drawings. The proposed facility consists of 6 covered padel courts beneath a steel roof structure measuring 70 m × 30 m × 9 m height.

The lighting installation consists of the following:

- Pole mounted court lighting with 200W LED floodlights mounted at 7m height aimed at 11° tilt* - refer Appendix B for Luminaire Specifications.

Note that this report provides an assessment of the impact of artificial illumination only, it does not assess reflective materials and their associated glare. The court perimeter fences have been assumed to have a maximum 90% light transmission value.

Environmental impact assessments, including the management of artificial light for the protection of specific entities protected by environmental legislation, is beyond the scope of this assessment. The impact of all other external lighting (including illuminated building signage) is also outside the scope of this assessment.

4. DESIGN GUIDELINES AND STANDARDS

The Lighting Impact Assessment will review the proposed lighting installation against the following Criteria, Design Guidelines and Standards.

- AS/NZS 4282:2023 Control of the Obtrusive Effects of Outdoor Lighting (**AS4282**)

*The lighting impact assessment has been undertaken with the floodlights tilted at 11° in order to comply with the obtrusive lighting limits. The contractor shall ensure that the installed floodlights are aimed at 11° to ensure the lighting installation is fully compliant.

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5. AS4282 ASSESSMENT

The proposed lighting installation has been assessed against the lighting criteria and requirements outlined in AS4282.

AS4282 provides limits for different obtrusive factors associated with dark hours (night time) operation of outdoor lighting systems. Two sets of limiting values for spill light are given based on whether the lighting is operating before a curfew (known as "pre-curfew" operation) or operating after a curfew (known as post-curfew or curfewed operation). Pre-curfew spill lighting limits are higher than post-curfew values, on the understanding that spill light is more obtrusive late at night when residents are trying to sleep. Under AS4282, the post-curfew period is taken to be between 11pm and 6am daily. As the proposed lighting installation shall operate between 6am to 10pm daily, it will be assessed against the pre-curfew limits only.

Spill light to any adjacent Environmentally Sensitive Areas shall be assessed under the post curfew limits, as outlined in Clause 3.2.1 of AS4282.

Illuminance Assessment

The AS4282 assessment includes a review of nearby residential dwellings and Environmentally Sensitive Areas and calculation of the amount of vertical illuminance (measured in Lux) that they are likely to receive from the lighting installation during night time operation.

The acceptable level of vertical illuminance will in part be determined by the night time lighting environment around the dwellings. AS4282 categorises the night time environment into different zones with maximum lighting limits as shown in Table 1 below:

TABLE 1 - AS4282 MAXIMUM VALUES OF VERTICAL ILLUMINANCE

	Max Vertical Illuminance (lx)		Description
	Pre-curfew	Post-curfew	
A4	25	5	High district brightness e.g. Town and city centres and other commercial areas, residential areas abutting commercial areas, industrial and Port areas and Transport Interchanges
A3	10	2	Medium district brightness e.g. Suburban areas in towns and cities, generally roadways with streetlighting through suburban, rural or semi-rural areas
A2	5	1	Low district brightness e.g. Sparsely inhabited rural and semi-rural areas, generally roadways without streetlighting through suburban, rural or semi-rural areas other than intersections
A1	2	0.1	Dark e.g. Relatively uninhabited rural areas (including terrestrial, marine, aquatic and coastal areas), generally roadways without streetlighting through rural areas
A0	0	0	Intrinsically Dark e.g. UNESCO Starlight Reserve, IDA: Dark Sky Parks, Reserves or Sanctuaries, major optical observatories, other accreditations for dark sky places for example astrotourism, heritage value, astronomical importance, wildlife/ecosystem protection, lighting for safe access may be required

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Residential Dwellings

Based on an assessment of the surrounding area, the nearest dwellings with potential views to the proposed lighting installation are at the following locations:

Address	Zone	Address	Zone
1 Birdie Ct	A3	U1/6 The Fairway	A3
2 Birdie Ct	A3	U2/6 The Fairway	A3
3 Birdie Ct	A3	7 The Fairway	A3
U1/4 Birdie Ct	A3	U1/8 The Fairway	A3
U2/4 Birdie Ct	A3	U2/8 The Fairway	A3
5 Birdie Ct	A3	9 The Fairway	A3
6 Birdie Ct	A3	U1/10 The Fairway	A3
U1/7 Birdie Ct	A3	U2/10 The Fairway	A3
U2/7 Birdie Ct	A3	11 The Fairway	A3
U1/1 The Fairway	A3	1 Par Ct	A3
U2/1 The Fairway	A3	2 Par Ct	A3
U1/2 The Fairway	A3	3 Par Ct	A3
U2/2 The Fairway	A3	4 Par Ct	A3
3 The Fairway	A3	5 Par Ct	A3
U1/4 The Fairway	A3	6 Par Ct	A3
U2/4 The Fairway	A3	7 Par Ct	A3
5 The Fairway	A3		

As such, the dwellings above will form the focus of the illuminance assessment.

The proposed lighting installation (and surrounding environment) was modelled in lighting calculation program AGI32 to determine the effect (if any) of the light spill from the installation. Appendix C shows the lighting model and the results of the calculations.

Under AS4282, the maximum allowable illuminance to dwellings during pre-curfew hours is 10 Lux for Zone A3 (as outlined in Table 1). It can be seen from the lighting model that the maximum illuminance for Zone A3 properties is 7.99 Lux at U1 & U2 7 Birdie Ct.

The proposed lighting installation therefore complies with the relevant illuminance limits for nearby residential dwellings.

Environmentally Sensitive Areas

No Environmentally Sensitive Areas were identified in the vicinity of the proposed lighting installation. The limits in AS4282 therefore do no apply.

Threshold Increment Assessment

The Threshold Increment was also calculated for the traffic approaches on The Fairway & Birdie Ct (southbound approaches), The Fairway & Par Ct (northbound approaches), The Fairway (eastbound approaches) and Weddell Rd (northbound and southbound approaches). The calculation grids were located at 1.5m above ground level for general traffic approaches, using a windscreen cutoff angle of 20 degrees (as outlined in AS1158). The calculation results show that the Threshold Increment does not exceed 15.83% for any traffic approach (the allowable maximum under the standard is 20%).

Upward Waste Light Assessment

In order to reduce light pollution and associated environmental impacts, AS4282 includes requirements that limit upward waste light into the night sky from the lighting installation. AS4282 states an external lighting installation shall have an Upward Waste Light Ratio (ULR_L) of not more than 0.03. The ULR_L of the proposed lighting installation is not more than 0.01. The proposed lighting installation therefore complies with this requirement.*

*The lighting impact assessment has been undertaken with the floodlights tilted at 11° in order to comply with the UWL limits. The contractor shall ensure that the installed floodlights are aimed at 11° to ensure the lighting installation is fully compliant.

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Luminous Intensity

AS4282 nominates Luminous Intensity limits where a light source (such as a floodlight) can be directly viewed from a residential dwelling or Environmentally Sensitive Area, shown in Table 2 below:

TABLE 2 - MAXIMUM LUMINOUS INTENSITIES PER LUMINAIRE FOR EXTERNALLY ILLUMINATED INSTALLATION

Environmental Zone	Non-Curfew L1 luminous intensity (cd)	Non-Curfew L2 luminous intensity (cd)	Curfew luminous intensity (cd)
A0	As close to 0 as possible, without impacting safety	As close to 0 as possible, without impacting safety	0
A1	2500	5000	500
A2	7500	12500	1000
A3	12500	25000	2500
A4	25000	50000	2500

The lighting installation is new, therefore "Level 1" Luminous Intensity limits apply, as outlined in Clause 3.2.2b) of AS4282. For the purposes of assessing Luminous Intensity, the neighbouring residential properties are classified as being in Zone A3.

It can be seen from the lighting model that the maximum luminance intensity to dwellings in Zone A3 is 3608 cd. The proposed lighting installation therefore complies with the maximum Zone A3 AS4282 luminous intensity limit of 12500 cd for Non-curfew L1 operation.

AS4282 Assessment Summary

It can therefore be seen that the proposed lighting installation complies with all relevant requirements of AS4282.

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6. DESIGN CERTIFICATION

The proposed lighting installation to be installed at 7–9 Ballarat Road, North Geelong, VIC, complies with the following criteria, guidelines and standards:

- AS/NZS 4282:2023 Control of the Obtrusive Effects of Outdoor Lighting



Horatio Burton
Senior Lighting Designer
Electrolight Melbourne
29/10/25

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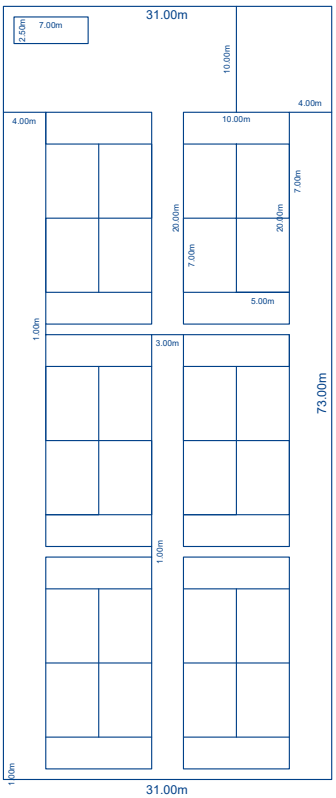
APPENDIX A
PROPOSED LIGHTING INSTALLATION PLAN AND ELEVATIONS

SKETCH/AREA TABLE ADDENDUM

SUBJECT INFO

File No.:	Parcel No.:		
Property Address:			
City:	County:	State:	ZipCode:
Owner:			
Client:	Client Address:		
Appraiser Name:	Inspection Date:		

SKETCH



Sketch by ApexSketch

AREA CALCULATIONS SUMMARY

Code	Description	Factor	Net Size	Perimeter	Net Totals

AREA CALCULATIONS BREAKDOWN

Name	Base	x	Height	x	Width	=	Area

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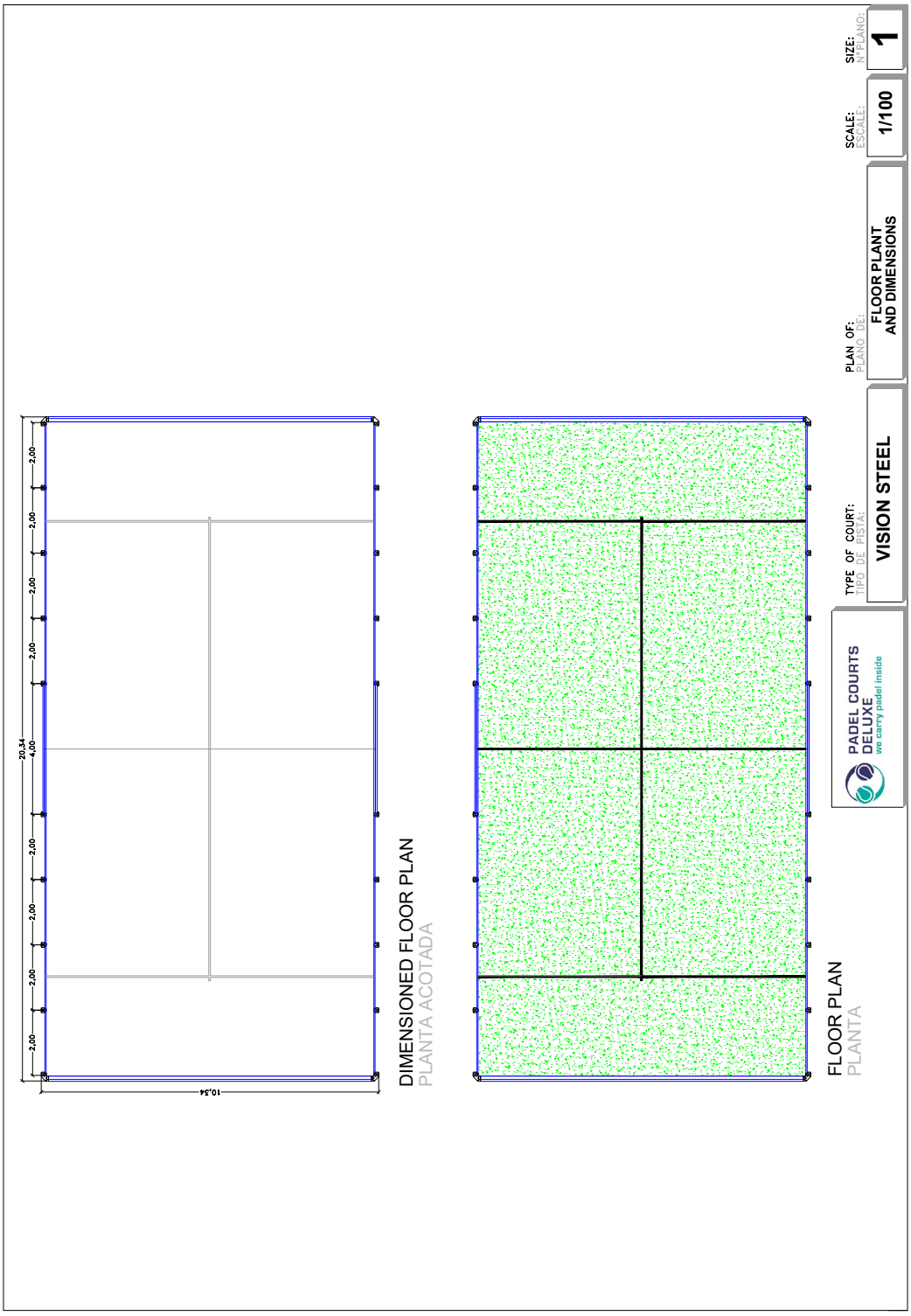
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APPENDIX A
PROPOSED LIGHTING INSTALLATION PLAN AND ELEVATIONS

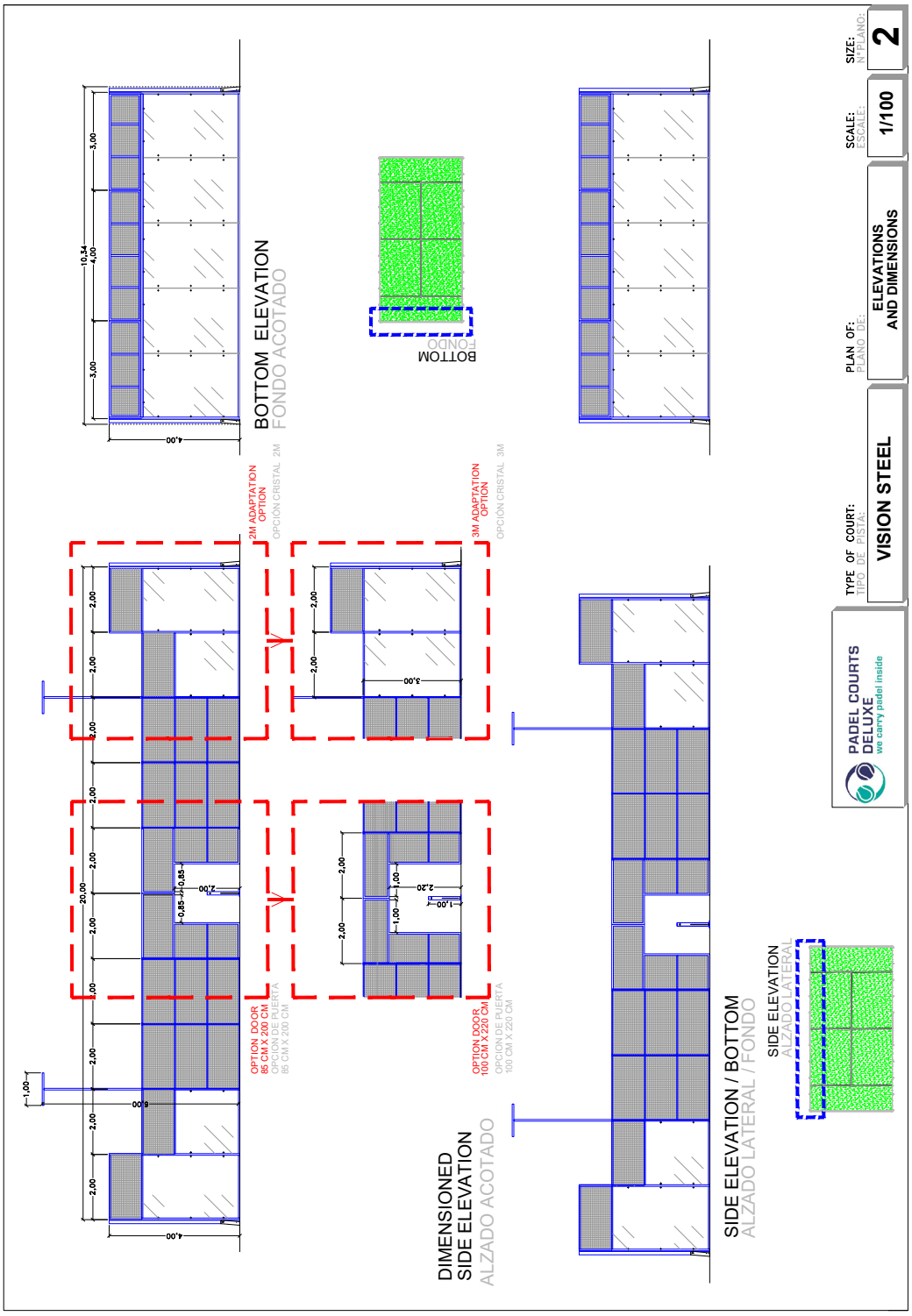


APPENDIX A

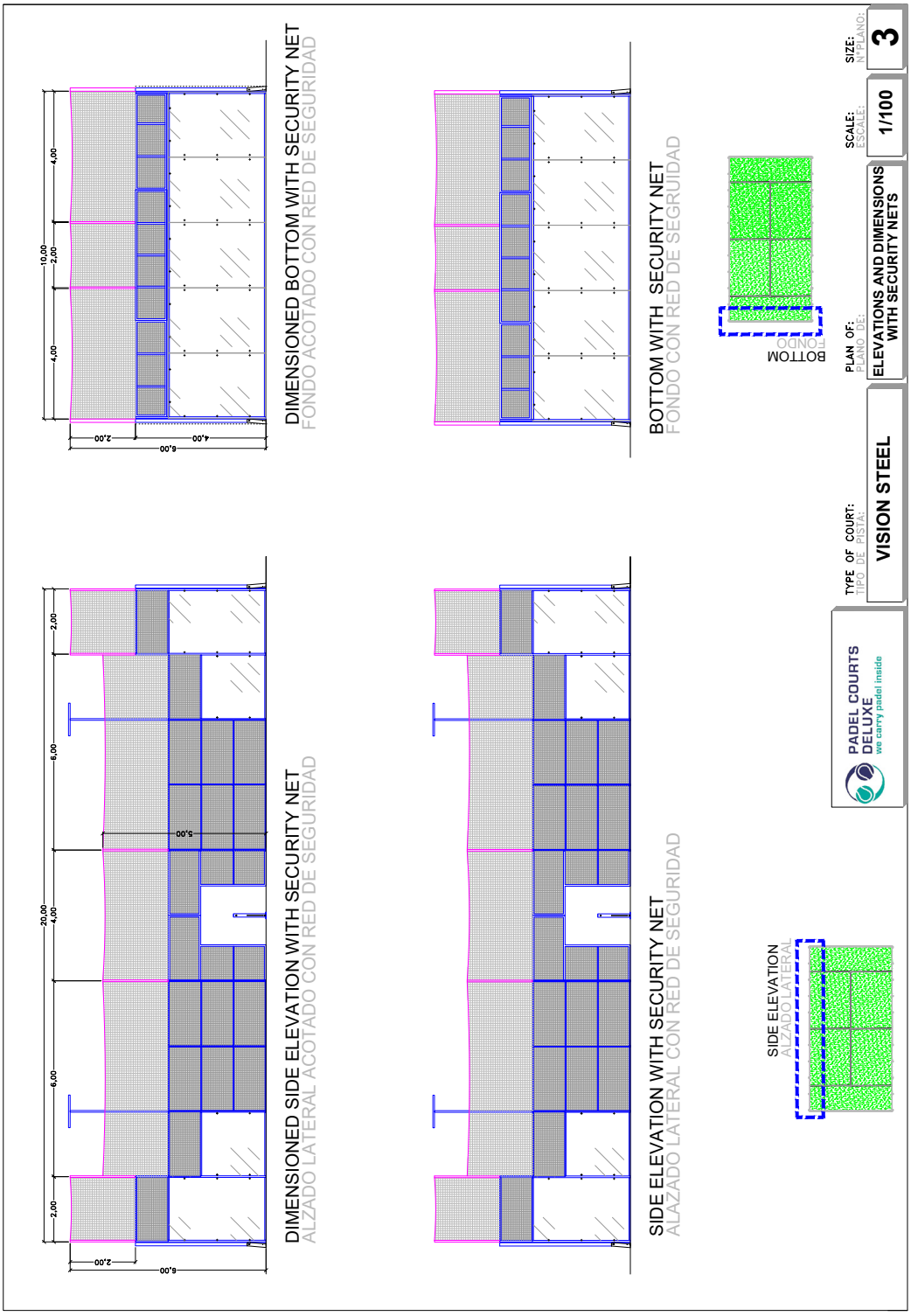
PROPOSED LIGHTING INSTALLATION PLAN AND ELEVATIONS



APPENDIX A
PROPOSED LIGHTING INSTALLATION PLAN AND ELEVATIONS



APPENDIX A
PROPOSED LIGHTING INSTALLATION PLAN AND ELEVATIONS



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APPENDIX B
PROPOSED LIGHTING LUMINAIRE

FT-4720

FICHA TÉCNICA
DATA SHEET
FICHA TÉCNICA



LED PRO LINEAR HIGH BAY

Información general
Las luminarias Lineales LED Filux son el remplazo ideal de las tradicionales luminarias de vapor de sodio o mercurio de alta presión. Aporta un ahorro energético y permite reducir los costes de mantenimiento. No tienen elementos altamente contaminantes como el mercurio siendo totalmente ecológica.

General information
The Filux LED Linear high bays are ideal replacement for traditional high pressure mercury or sodium vapor lamps. It provides energy savings and reduces maintenance costs. It does not have highly polluting elements like mercury being, totally ecological.

Informações gerais
As campânulas lineares de LED Filux permitem a substutuição ideal das luminárias tradicionais de vapor de sódio ou demercúrio de alta pressão. Permitem uma forte poupança de energia permitindo forte redução nos custos de manutenção. Não têm componentes altamente poluentes, tais como o mercúrio sendo totalmente ecológico.

Familia / Family Model/ Família	FT-4740		Bar code
	Luz calida / warm white/ Luz quente		
F4708 V2	luz neutra / neutral white / Luz neutra	5000K	
	luz fria / cool white / luz fria		

Datos de entrada / Input Data / Dados de entra		Testing at 220V, Ta 25C°/220V,25C°	
Voltaje de entrada Input Voltage / Currency Tensão de entrada	V/Hz	110-277V, 50/60Hz	
Corriente de entrada Máx. Input Current Max Corrente de entrada Max	A		
Potencia nominal Rated Power Potência nominal	W	200	
Factor de potencia Power Factor Fator de potência	-	>0,9	
Datos resultantes / Output Data / Dados resultantes			
Voltaje de salida Drive Output Voltage Tensão de saída do inversor	V	33 - 50	
Corriente de salida Drive Output Current Corrente de saída do driver	mA	3,3 - 5,6	

aciones ópts. / Opt. Specifications / Especificaçõ			Testing at 220V, Ta 25C°, 20 minutes aging/220V, 25C°, 20	
Luminous Flux	5000K	Lm	28000	
Luminous Efficiency	5000K	Lm/W	140	
CCT	3000K	K		
	5000K	K	5000K	
	6000K	K		
CRI		-	>70	
Light Distribution		°	80°X120°	
SDCM		-		

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APPENDIX B
PROPOSED LIGHTING LUMINAIRE

Especificación general / General specification / Especificação geral			
Garantía Warranty Garantia	years	5	
Vida útil clasificada Rated Life Span Vida útil nominal	Hrs	50000	
Marca / modelo Driver Brand / Model Marca / modelo do driver	-	MEANWELL ELG	
Driver Drive Type Tipo de drive	-	OUTDOOR	
Aislamiento Isolation Level Nível de isolamento	-	DOUBLE	
Protección contra sobretensiones Surge Protection Proteção contra sobretensões	V	6KV	
THD	%	10	
Marca / modelo de LED LED Brand / Model Marca / modelo de LED	-	PHILIPS LUMILEDS 3030	
IP IP Rate Índice de Proteção	-	66	
IP del controlador/driver Driver IP Rate Velocidade do IP do controlador	-	IP65	
Resistencia al impacto Impact resistance Resistência ao impacto	-	IK09	
Ajustes de inclinación Tilt settings Ajustes de inclinação	-	SI	
Temperatura ambiente de funcionamien Operating Ambient Temperature Temperatura ambiente de funcionament	℃	-20° / +50°	
Humedad de almacenamiento Storage Humidity Húmidade de armazenagem	%	10 - 90	
Regulable Dimmable Regulável	-	-	
Material de la carcasa Housing Material Corpo do equipamento	-	ALUMINIO	
Color RAL Houing color RAL RAL do corpo		NEGRO MATE	

Certificacion de producto / Product Certification / Certificação do produto			
Standards			
CE	YES/NO	YES	
ENAC	YES/NO	YES	

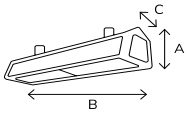
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APPENDIX B
PROPOSED LIGHTING LUMINAIRE

Dimensión del producto, peso / Product Dimension, Weight / Dimensão do produto, peso			
Tamaño del producto Product Size Tamanho do produto	mm		
Product dimension			A: 151,5 mm B: 685mm C: 137 mm
Peso del producto Product Weight Peso do Produto	kg	-	

Información del embalaje / Packing info / Informação da embalagem			
Dimensión ctn maestra Master ctn dimension Dimensão ctn principal	cm	70*15,5*19	
Peso ctn maestra Master ctn G.Weight Peso ctn principal	Kg	4,5KG	
Master ctn pcs Master ctn pcs Master ctn pcs	pcs	1pcs/carton	
Dimensión interior ctn Inner ctn dimension Dimensão interna ctn	cm	/	
Ctn interno G.Peso Inner ctn G.Weight Peso interno G. Peso	Kg	/	
PC ctn interno Inner ctn pcs PC ctn interno	pcs	1	
Accesorios Accessories Acessórios	-		

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APPENDIX C
OBTRUSIVE LIGHTING AND THRESHOLD INCREMENT CALCULATIONS

Environmental Zone
- A0
- A1
- A2
- A3
- A4



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APPENDIX C
OBTRUSIVE LIGHTING AND THRESHOLD INCREMENT CALCULATIONS

Calculation Summary			
Project GBR AS			
Label	CalcType	Units	Max
1 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	342
1 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	320
1 Birdie Ct_GS_Seg3	Obtrusive - Ctl	N.A.	292
1 Birdie Ct_GS_Seg4	Obtrusive - Ctl	N.A.	276
1 Birdie Ct_GS_Seg5	Obtrusive - Ctl	N.A.	0
1 Birdie Ct_GS_Seg6	Obtrusive - Ctl	N.A.	242
1 Birdie Ct_GS_Seg7	Obtrusive - Ctl	N.A.	242
1 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.62
1 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.30
1 Birdie Ct_IS_Seg3	Obtrusive - B	Lux	6.35
1 Birdie Ct_IS_Seg4	Obtrusive - B	Lux	6.26
1 Birdie Ct_IS_Seg5	Obtrusive - B	Lux	6.00
1 Birdie Ct_IS_Seg6	Obtrusive - B	Lux	6.18
1 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	93
1 Par Ct_OE_Seg2	Obtrusive - Ctl	N.A.	100
1 Par Ct_OE_Seg3	Obtrusive - Ctl	N.A.	180
1 Par Ct_OE_Seg4	Obtrusive - Ctl	N.A.	191
1 Par Ct_OE_Seg5	Obtrusive - Ctl	N.A.	313
1 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.07
1 Par Ct_IS_Seg2	Obtrusive - B	Lux	6.05
1 Par Ct_IS_Seg3	Obtrusive - B	Lux	6.12
1 Par Ct_IS_Seg4	Obtrusive - B	Lux	6.03
1 Par Ct_IS_Seg5	Obtrusive - B	Lux	6.17
11 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	113
11 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	87
11 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.00
11 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.06
2 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	339
2 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	310
2 Birdie Ct_GS_Seg3	Obtrusive - Ctl	N.A.	273
2 Birdie Ct_GS_Seg4	Obtrusive - Ctl	N.A.	265
2 Birdie Ct_GS_Seg5	Obtrusive - Ctl	N.A.	242
2 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.37
2 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.18
2 Birdie Ct_IS_Seg3	Obtrusive - B	Lux	6.27
2 Birdie Ct_IS_Seg4	Obtrusive - B	Lux	6.11
2 Birdie Ct_IS_Seg5	Obtrusive - B	Lux	6.25
2 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	171
2 Par Ct_OE_Seg2	Obtrusive - Ctl	N.A.	107
2 Par Ct_OE_Seg3	Obtrusive - Ctl	N.A.	89
2 Par Ct_OE_Seg4	Obtrusive - Ctl	N.A.	73
2 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.09
2 Par Ct_IS_Seg2	Obtrusive - B	Lux	6.02
2 Par Ct_IS_Seg3	Obtrusive - B	Lux	6.05
2 Par Ct_IS_Seg4	Obtrusive - B	Lux	6.01
3 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	376
3 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	331
3 Birdie Ct_GS_Seg3	Obtrusive - Ctl	N.A.	315
3 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.41
3 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.10
3 Birdie Ct_IS_Seg3	Obtrusive - B	Lux	6.33
3 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	164
3 Par Ct_OE_Seg2	Obtrusive - Ctl	N.A.	77
3 Par Ct_OE_Seg3	Obtrusive - Ctl	N.A.	0
3 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.11
3 Par Ct_IS_Seg2	Obtrusive - B	Lux	6.04
3 Par Ct_IS_Seg3	Obtrusive - B	Lux	6.03
3 Par Ct_IS_Seg4	Obtrusive - B	Lux	6.00
3 Par Ct_IS_Seg5	Obtrusive - B	Lux	6.02
4 The Fairway_GE_Seg1	Obtrusive - Ctl	N.A.	439
4 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	420
4 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.01
4 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.00
4 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	68
4 Par Ct_OE_Seg2	Obtrusive - Ctl	N.A.	62
4 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.03
4 Par Ct_IS_Seg2	Obtrusive - B	Lux	6.01
5 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	537
5 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	537
5 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.01
5 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.00
5 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	95
5 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.02
6 The Fairway_GE_Seg1	Obtrusive - Ctl	N.A.	808
6 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	0
6 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	520
6 The Fairway_GS_Seg4	Obtrusive - Ctl	N.A.	513
6 The Fairway_GS_Seg5	Obtrusive - Ctl	N.A.	492
6 The Fairway_GS_Seg6	Obtrusive - Ctl	N.A.	492
6 The Fairway_GS_Seg7	Obtrusive - Ctl	N.A.	497
6 The Fairway_GS_Seg8	Obtrusive - Ctl	N.A.	492
6 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.92
6 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.00
6 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.72
6 The Fairway_IS_Seg4	Obtrusive - B	Lux	7.17
6 The Fairway_IS_Seg5	Obtrusive - B	Lux	6.95
6 The Fairway_IS_Seg6	Obtrusive - B	Lux	6.93
6 The Fairway_IS_Seg7	Obtrusive - B	Lux	6.99
6 The Fairway_IS_Seg8	Obtrusive - B	Lux	6.72
7 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	550
7 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	580
7 Birdie Ct_GS_Seg3	Obtrusive - Ctl	N.A.	649
7 Birdie Ct_GS_Seg4	Obtrusive - Ctl	N.A.	550
7 Birdie Ct_GS_Seg5	Obtrusive - Ctl	N.A.	548
7 Birdie Ct_GS_Seg6	Obtrusive - Ctl	N.A.	550
7 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.40
7 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	7.12
7 Birdie Ct_IS_Seg3	Obtrusive - B	Lux	6.55
7 Birdie Ct_IS_Seg4	Obtrusive - B	Lux	7.25
7 Birdie Ct_IS_Seg5	Obtrusive - B	Lux	6.81
7 Birdie Ct_IS_Seg6	Obtrusive - B	Lux	7.36
7 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	99
7 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.62
7 Par Ct_OE_Seg1	Obtrusive - Ctl	N.A.	91
7 Par Ct_IS_Seg1	Obtrusive - B	Lux	6.62
7 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	380
7 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	390
7 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.41
7 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.45
8 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	319
8 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	185
8 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.58
8 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.13
81 & 82 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	8906
81 & 82 7 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	9429
81 & 82 7 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	7.89
81 & 82 7 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	7.99
10 1 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	437
10 1 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	431
10 1 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.23
10 1 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.48
10 10 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	1165
10 10 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	1662
10 10 The Fairway_GS_Seg3	Obtrusive - Ctl	N.A.	1819
10 10 The Fairway_GS_Seg4	Obtrusive - Ctl	N.A.	1918
10 10 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.01
10 10 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.40
10 10 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.15
10 10 The Fairway_IS_Seg4	Obtrusive - B	Lux	6.38
10 2 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	800
10 2 The Fairway_IS_Seg1	Obtrusive - B	Lux	7.01
10 3 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	463
10 3 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	408
10 3 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	428
10 3 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.39
10 3 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.13
10 3 Birdie Ct_IS_Seg3	Obtrusive - B	Lux	6.40
10 4 The Fairway_1_GS_Seg1	Obtrusive - Ctl	N.A.	901
10 4 The Fairway_1_GS_Seg2	Obtrusive - Ctl	N.A.	822
10 4 The Fairway_1_IS_Seg1	Obtrusive - B	Lux	6.26
10 4 The Fairway_1_IS_Seg2	Obtrusive - B	Lux	7.13
10 5 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	1611
10 5 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	1272
10 5 The Fairway_GS_Seg3	Obtrusive - Ctl	N.A.	1156
10 5 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.80
10 5 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.18
10 5 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.70
10 6 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	892
10 6 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	1038
10 6 The Fairway_GS_Seg3	Obtrusive - Ctl	N.A.	1204
10 6 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.92
10 6 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.80
10 6 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.97
10 7 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	843
10 7 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	933
10 7 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.17
10 7 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.27
10 10 The Fairway_GE_Seg1	Obtrusive - Ctl	N.A.	747
10 10 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	897
10 10 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	979
10 10 The Fairway_GS_Seg4	Obtrusive - Ctl	N.A.	982
10 10 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.40
10 10 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.29
10 10 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.99
10 10 The Fairway_IS_Seg4	Obtrusive - B	Lux	6.47
10 2 The Fairway_GE_Seg1	Obtrusive - Ctl	N.A.	913
10 2 The Fairway_IS_Seg1	Obtrusive - B	Lux	7.07
10 4 Birdie Ct_GS_Seg1	Obtrusive - Ctl	N.A.	481
10 4 Birdie Ct_GS_Seg2	Obtrusive - Ctl	N.A.	620
10 4 Birdie Ct_IS_Seg1	Obtrusive - B	Lux	6.41
10 4 Birdie Ct_IS_Seg2	Obtrusive - B	Lux	6.42
10 4 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	919
10 4 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	897
10 4 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.11
10 4 The Fairway_IS_Seg2	Obtrusive - B	Lux	7.64
10 5 The Fairway_GE_Seg1	Obtrusive - Ctl	N.A.	1330
10 5 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	888
10 5 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	997
10 5 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.29
10 5 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.15
10 8 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.93
10 8 The Fairway_GS_Seg1	Obtrusive - Ctl	N.A.	944
10 8 The Fairway_GS_Seg2	Obtrusive - Ctl	N.A.	948
10 8 The Fairway_GS_Seg3	Obtrusive - Ctl	N.A.	993
10 8 The Fairway_IS_Seg1	Obtrusive - B	Lux	6.22
10 8 The Fairway_IS_Seg2	Obtrusive - B	Lux	6.26
10 8 The Fairway_IS_Seg3	Obtrusive - B	Lux	6.99

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APPENDIX C
OBTRUSIVE LIGHTING AND THRESHOLD INCREMENT CALCULATIONS

Calculation Summary			
Project: TI A3			
Label	CalcType	Units	Max
The Fairway & Birdie Ct SB	Obtrusive - TI	%	10.53
The Fairway & Par Ct NB	Obtrusive - TI	%	1.10
The Fairway EB	Obtrusive - TI	%	15.83
The Fairway EB TL	Obtrusive - TI	%	3.41

Calculation Summary			
Project: TI A4			
Label	CalcType	Units	Max
Weddell Rd NB	Obtrusive - TI	%	0.01
Weddell Rd SB	Obtrusive - TI	%	0.02

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APPENDIX C
OBTRUSIVE AND THRESHOLD INCREMENT CALCULATIONS

Obtrusive Light - Compliance Report

AS/NZS 4282:2023, A3 - Medium District Brightness, Non-Curfew L1
Filename: 4041 Geelong Padel Club LIA
29/10/2025 10:09:07 AM

Illuminance

Maximum Allowable Value: 10 Lux

Calculations Tested (93):

Calculation Label	Test Results	Max. Illum.
5 The Fairway_III_Seg1	PASS	0.52
5 The Fairway_III_Seg2	PASS	0.00
5 The Fairway_III_Seg3	PASS	0.72
5 The Fairway_III_Seg4	PASS	1.17
5 The Fairway_III_Seg5	PASS	0.55
5 The Fairway_III_Seg6	PASS	0.93
5 The Fairway_III_Seg7	PASS	0.58
5 The Fairway_III_Seg8	PASS	0.72
7 The Fairway_III_Seg1	PASS	0.41
7 The Fairway_III_Seg2	PASS	0.44
9 The Fairway_III_Seg1	PASS	0.18
9 The Fairway_III_Seg2	PASS	0.13
11 The Fairway_III_Seg1	PASS	0.08
11 The Fairway_III_Seg2	PASS	0.06
1 Par Ct_III_Seg1	PASS	0.07
1 Par Ct_III_Seg2	PASS	0.05
1 Par Ct_III_Seg3	PASS	0.12
1 Par Ct_III_Seg4	PASS	0.03
1 Par Ct_III_Seg5	PASS	0.17
2 Par Ct_III_Seg1	PASS	0.09
2 Par Ct_III_Seg2	PASS	0.02
2 Par Ct_III_Seg3	PASS	0.05
2 Par Ct_III_Seg4	PASS	0.01
3 Par Ct_III_Seg1	PASS	0.04
3 Par Ct_III_Seg2	PASS	0.03
3 Par Ct_III_Seg3	PASS	0.00
3 Par Ct_III_Seg4	PASS	0.02
4 Par Ct_III_Seg1	PASS	0.03
4 Par Ct_III_Seg2	PASS	0.01
6 Par Ct_III_Seg1	PASS	0.02
7 Par Ct_III_Seg1	PASS	0.02
U1, 10 The Fairway_III_Seg1	PASS	0.01
U1, 10 The Fairway_III_Seg2	PASS	4.40
U1, 10 The Fairway_III_Seg3	PASS	0.15
U1, 10 The Fairway_III_Seg4	PASS	6.58
U2, 10 The Fairway_III_Seg1	PASS	3.40
U2, 10 The Fairway_III_Seg2	PASS	0.39
U2, 10 The Fairway_III_Seg3	PASS	3.06
U2, 10 The Fairway_III_Seg4	PASS	0.47
U1, 8 The Fairway_III_Seg1	PASS	0.62
U1, 8 The Fairway_III_Seg2	PASS	5.88
U1, 8 The Fairway_III_Seg3	PASS	0.57
U2, 8 The Fairway_III_Seg1	PASS	0.22
U2, 8 The Fairway_III_Seg2	PASS	2.26
U2, 8 The Fairway_III_Seg3	PASS	0.09
U1, 6 The Fairway_III_Seg1	PASS	0.88
U1, 6 The Fairway_III_Seg2	PASS	5.18
U1, 6 The Fairway_III_Seg3	PASS	0.15
U2, 6 The Fairway_III_Seg1	PASS	0.39
U2, 6 The Fairway_III_Seg2	PASS	2.15
U2, 6 The Fairway_III_Seg3	PASS	0.03
U1, 4 Birdie Ct_III_Seg1	PASS	0.39
U1, 4 Birdie Ct_III_Seg2	PASS	0.13
U1, 4 Birdie Ct_III_Seg3	PASS	0.40
U2, 4 Birdie Ct_III_Seg1	PASS	0.41
U2, 4 Birdie Ct_III_Seg2	PASS	0.40

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APPENDIX C
OBTRUSIVE AND THRESHOLD INCREMENT CALCULATIONS

3 Birdie Ct_III_Seg1	PASS	0.41
3 Birdie Ct_III_Seg2	PASS	0.10
3 Birdie Ct_III_Seg3	PASS	0.33
2 Birdie Ct_III_Seg1	PASS	0.37
2 Birdie Ct_III_Seg2	PASS	0.18
2 Birdie Ct_III_Seg3	PASS	0.27
2 Birdie Ct_III_Seg4	PASS	0.11
2 Birdie Ct_III_Seg5	PASS	0.25
1 Birdie Ct_III_Seg1	PASS	0.42
1 Birdie Ct_III_Seg2	PASS	0.32
1 Birdie Ct_III_Seg3	PASS	0.35
1 Birdie Ct_III_Seg4	PASS	0.26
1 Birdie Ct_III_Seg5	PASS	0.00
1 Birdie Ct_III_Seg6	PASS	0.18
5 Birdie Ct_III_Seg1	PASS	0.31
5 Birdie Ct_III_Seg2	PASS	0.86
6 Birdie Ct_III_Seg1	PASS	0.40
6 Birdie Ct_III_Seg2	PASS	1.12
6 Birdie Ct_III_Seg3	PASS	0.55
6 Birdie Ct_III_Seg4	PASS	1.25
6 Birdie Ct_III_Seg5	PASS	0.81
6 Birdie Ct_III_Seg6	PASS	1.36
U1 & U2 7 Birdie Ct_III_Seg1	PASS	7.99
U1 & U2 7 Birdie Ct_III_Seg2	PASS	2.99
5 Par Ct_III_Seg1	PASS	0.02
U2, 4 The Fairway_III_Seg1	PASS	0.11
U2, 4 The Fairway_III_Seg2	PASS	1.64
U1, 4 The Fairway_1_III_Seg1	PASS	0.26
U1, 4 The Fairway_1_III_Seg2	PASS	1.51
U2, 2 The Fairway_III_Seg1	PASS	1.07
U1, 2 The Fairway_III_Seg1	PASS	1.01
3 The Fairway_III_Seg1	PASS	0.31
3 The Fairway_III_Seg2	PASS	0.58
U1, 1 The Fairway_III_Seg1	PASS	0.23
U1, 1 The Fairway_III_Seg2	PASS	0.48
U2, 1 The Fairway_III_Seg1	PASS	0.17
U2, 1 The Fairway_III_Seg2	PASS	0.27

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APPENDIX C
OBTRUSIVE AND THRESHOLD INCREMENT CALCULATIONS

Obtrusive Light - Compliance Report

AS/NZS 4282:2023, A3 - Medium District Brightness, Non-Curfew L1
Filename: 4041 Geelong Padel Club LIA
29/10/2025 10:09:34 AM

Luminous Intensity (Cd) At Vertical Planes

Maximum Allowable Value: 12500 Cd

Calculations Tested (93):

Calculation Label	Test Results
5 The Fairway_Cd_Seg1	PASS
5 The Fairway_Cd_Seg2	PASS
5 The Fairway_Cd_Seg3	PASS
5 The Fairway_Cd_Seg4	PASS
5 The Fairway_Cd_Seg5	PASS
5 The Fairway_Cd_Seg6	PASS
5 The Fairway_Cd_Seg7	PASS
5 The Fairway_Cd_Seg8	PASS
7 The Fairway_Cd_Seg1	PASS
7 The Fairway_Cd_Seg2	PASS
9 The Fairway_Cd_Seg1	PASS
9 The Fairway_Cd_Seg2	PASS
11 The Fairway_Cd_Seg1	PASS
11 The Fairway_Cd_Seg2	PASS
1 Par Ct_Cd_Seg1	PASS
1 Par Ct_Cd_Seg2	PASS
1 Par Ct_Cd_Seg3	PASS
1 Par Ct_Cd_Seg4	PASS
1 Par Ct_Cd_Seg5	PASS
2 Par Ct_Cd_Seg1	PASS
2 Par Ct_Cd_Seg2	PASS
2 Par Ct_Cd_Seg3	PASS
2 Par Ct_Cd_Seg4	PASS
3 Par Ct_Cd_Seg1	PASS
3 Par Ct_Cd_Seg2	PASS
3 Par Ct_Cd_Seg3	PASS
3 Par Ct_Cd_Seg4	PASS
4 Par Ct_Cd_Seg1	PASS
4 Par Ct_Cd_Seg2	PASS
6 Par Ct_Cd_Seg1	PASS
7 Par Ct_Cd_Seg1	PASS
U1, 10 The Fairway_Cd_Seg1	PASS
U1, 10 The Fairway_Cd_Seg2	PASS
U1, 10 The Fairway_Cd_Seg3	PASS
U1, 10 The Fairway_Cd_Seg4	PASS
U2, 10 The Fairway_Cd_Seg1	PASS
U2, 10 The Fairway_Cd_Seg2	PASS
U2, 10 The Fairway_Cd_Seg3	PASS
U2, 10 The Fairway_Cd_Seg4	PASS
U1, 8 The Fairway_Cd_Seg1	PASS
U1, 8 The Fairway_Cd_Seg2	PASS
U1, 8 The Fairway_Cd_Seg3	PASS
U2, 8 The Fairway_Cd_Seg1	PASS
U2, 8 The Fairway_Cd_Seg2	PASS
U2, 8 The Fairway_Cd_Seg3	PASS
U1, 6 The Fairway_Cd_Seg1	PASS
U1, 6 The Fairway_Cd_Seg2	PASS
U1, 6 The Fairway_Cd_Seg3	PASS
U2, 6 The Fairway_Cd_Seg1	PASS
U2, 6 The Fairway_Cd_Seg2	PASS
U2, 6 The Fairway_Cd_Seg3	PASS
U1, 4 Birdie Ct_Cd_Seg1	PASS
U1, 4 Birdie Ct_Cd_Seg2	PASS
U1, 4 Birdie Ct_Cd_Seg3	PASS
U2, 4 Birdie Ct_Cd_Seg1	PASS
U2, 4 Birdie Ct_Cd_Seg2	PASS

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APPENDIX C
OBTRUSIVE AND THRESHOLD INCREMENT CALCULATIONS

3 Birdie Ct_Cd_Seg1	PASS
3 Birdie Ct_Cd_Seg2	PASS
3 Birdie Ct_Cd_Seg3	PASS
2 Birdie Ct_Cd_Seg1	PASS
2 Birdie Ct_Cd_Seg2	PASS
2 Birdie Ct_Cd_Seg3	PASS
2 Birdie Ct_Cd_Seg4	PASS
2 Birdie Ct_Cd_Seg5	PASS
1 Birdie Ct_Cd_Seg1	PASS
1 Birdie Ct_Cd_Seg2	PASS
1 Birdie Ct_Cd_Seg3	PASS
1 Birdie Ct_Cd_Seg4	PASS
1 Birdie Ct_Cd_Seg5	PASS
1 Birdie Ct_Cd_Seg6	PASS
5 Birdie Ct_Cd_Seg1	PASS
5 Birdie Ct_Cd_Seg2	PASS
6 Birdie Ct_Cd_Seg1	PASS
6 Birdie Ct_Cd_Seg2	PASS
6 Birdie Ct_Cd_Seg3	PASS
6 Birdie Ct_Cd_Seg4	PASS
6 Birdie Ct_Cd_Seg5	PASS
6 Birdie Ct_Cd_Seg6	PASS
U1 & U2 7 Birdie Ct_Cd_Seg1	PASS
U1 & U2 7 Birdie Ct_Cd_Seg2	PASS
5 Par Ct_Cd_Seg1	PASS
U2, 4 The Fairway_Cd_Seg1	PASS
U2, 4 The Fairway_Cd_Seg2	PASS
U1, 4 The Fairway_1_Cd_Seg1	PASS
U1, 4 The Fairway_1_Cd_Seg2	PASS
U2, 2 The Fairway_Cd_Seg1	PASS
U1, 2 The Fairway_Cd_Seg1	PASS
3 The Fairway_Cd_Seg1	PASS
3 The Fairway_Cd_Seg2	PASS
U1, 1 The Fairway_Cd_Seg1	PASS
U1, 1 The Fairway_Cd_Seg2	PASS
U2, 1 The Fairway_Cd_Seg1	PASS
U2, 1 The Fairway_Cd_Seg2	PASS

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APPENDIX C
OBTRUSIVE AND THRESHOLD INCREMENT CALCULATIONS

Obtrusive Light - Compliance Report

AS/NZS 4282:2023, A4 - High District Brightness, Non-Curfew L1
Filename: 4041 Geelong Padel Club LIA
29/10/2025 10:30:15 AM

Threshold Increment (TI)

Maximum Allowable Value: 20 %

Calculations Tested (2):

Calculation Label	Adaptation Luminance	Test Results
Weddell Rd SB	5	**PASS**
Weddell Rd NB	5	**PASS**

Obtrusive Light - Compliance Report

AS/NZS 4282:2023, A3 - Medium District Brightness, Non-Curfew L1
Filename: 4041 Geelong Padel Club LIA
29/10/2025 10:30:55 AM

Threshold Increment (TI)

Maximum Allowable Value: 20 %

Calculations Tested (4):

Calculation Label	Adaptation Luminance	Test Results
The Fairway EB	1	**PASS**
The Fairway EB TL	1	**PASS**
The Fairway & Birdie Ct SB	1	**PASS**
The Fairway & Par Ct NB	1	**PASS**