

# Design Advice Notice (DAN)

<b>Company Name:</b>	Co-op Studio	<b>DAN Number:</b>	DAN-001A
<b>Attention:</b>	Kingsley Cheung	<b>Date:</b>	2/04/2026
<b>Project Name:</b>	CGS Sports Hall	<b>Project Number:</b>	MEL25155
<b>With attachment:</b>	Yes	<b>Issued by:</b>	SHL

## Review of light spill

erbas has undertaken a review of the attached obtrusive/spill lighting calculation undertaken by Buckford Illumination Group and associated turf product supplied by the client.

### Comment:

Calculations are considered acceptable, it's designed on the basis:

- the field will not be used during curfew hours (after 11pm- 6am) which we understood to be consistent with the standard operational use of the facility.

During installation, aiming of the light fittings shall be undertaken in consultation with the specified lighting supplier.

<END DOCUMENT>

**ADVERTISED  
PLAN**

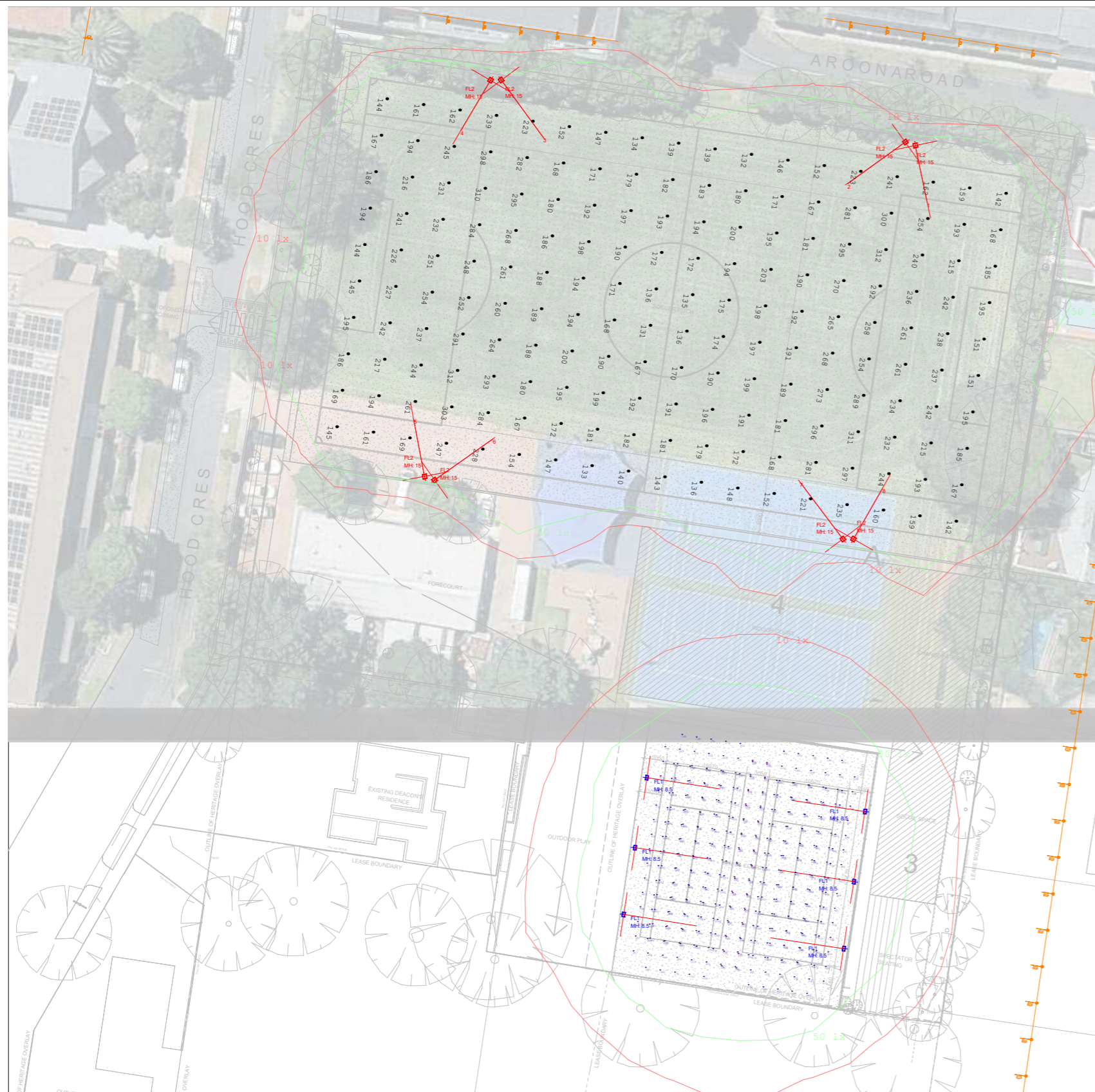
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**ADVERTISED  
PLAN**

## **Caulfield Grammar School - Shelford Sports Ground**

*Lighting Design Report (Club Competition)*



Luminaire Schedule				
Symbol	Tag	Description	Qty	LLF
	FL2	Buckford Optivision BVP528 OUT T35 LED2590/757 A35-NB+LO 824110118512	8	0.880
	FL1	Buckford ClearFlood BVP657_T25_LED930-4S- 740_A55-MB_252L_FP_L95@100kh	6	0.880

Calculation Summary					
Project: Calcs					
Label	Avg	Max	Min	Min/Avg	Min/Max
Soccer Pitch Main	205.13	312	131	0.64	0.42
A Tennis Court 01 - PPA	396.89	551	238	0.60	0.43
B Tennis Court 01 - TPA	339.98	547	159	0.47	0.29
A Tennis Court 02 - PPA	395.45	553	236	0.60	0.43
B Tennis Court 02 - TPA	340.33	547	156	0.46	0.29

Calculation Summary		
Project: Glare		
Label	Obs Label	Max
Glare Soccer	Obs 2	12.1
Glare Soccer	Obs 3	29.1
Glare Soccer	Obs 4	14.4
Glare Soccer	Obs 5	10.0
Glare Soccer	Obs 6	41.7
Glare Soccer	Obs 7	10.0
Glare Soccer	Obs 8	25.5
Glare Soccer	Obs 9	29.6
Glare Soccer	Obs 10	23.1
Glare Soccer	Obs 11	10.0
Glare Soccer	Obs 12	41.6
Glare Soccer	Obs 13	10.0
Glare Soccer	Obs 14	10.9
Glare Soccer	Obs 15	29.0
Glare Soccer	Obs 16	14.1
Glare Tennis	Obs 2	33.7
Glare Tennis	Obs 3	38.8
Glare Tennis	Obs 4	40.5
Glare Tennis	Obs 5	33.4
Glare Tennis	Obs 6	41.2
Glare Tennis	Obs 7	42.5
Glare Tennis	Obs 8	33.8
Glare Tennis	Obs 9	39.8
Glare Tennis	Obs 10	41.1
Glare Tennis	Obs 11	40.8
Glare Tennis	Obs 12	39.1
Glare Tennis	Obs 13	34.1
Glare Tennis	Obs 14	42.3
Glare Tennis	Obs 15	41.3
Glare Tennis	Obs 16	33.6
Glare Tennis	Obs 17	40.4
Glare Tennis	Obs 18	39.0
Glare Tennis	Obs 19	33.8

Calculation Summary	
Project: Obtrusive	
Label	Max
ObtrusiveLight_Aroona 1_Cd_Seg1	833
ObtrusiveLight_Aroona 1_III_Seg1	1
ObtrusiveLight_Aroona 2_Cd_Seg1	777
ObtrusiveLight_Aroona 2_III_Seg1	0
ObtrusiveLight_Hood 11_Cd_Seg1	1582
ObtrusiveLight_Hood 11_III_Seg1	0
ObtrusiveLight_Lumeah 11-25_Cd_Seg1	5258
ObtrusiveLight_Lumeah 11-25_III_Seg1	4

**Obtrusive Light - Compliance Report**  
 AS/NZS 4282:2023, A3 - Medium District Brightness, Non-Curfew L1  
 Filename: M15380 - Caulfield Grammar Sheldford CGS-Copy-36763  
 16/10/2025 10:43:46

**Illuminance**  
 Maximum Allowable Value: 10 Lux

Calculations Tested (4):

Calculation Label	Test Results	Max. Illum.
ObtrusiveLight_Aroona 1_III_Seg1	PASS	1
ObtrusiveLight_Aroona 2_III_Seg1	PASS	0
ObtrusiveLight_Hood 11_III_Seg1	PASS	0
ObtrusiveLight_Lumeah 11-25_III_Seg1	PASS	4

**Luminous Intensity (Cd) At Vertical Planes**  
 Maximum Allowable Value: 12500 Cd

Calculations Tested (4):

Calculation Label	Test Results
ObtrusiveLight_Aroona 1_Cd_Seg1	PASS
ObtrusiveLight_Aroona 2_Cd_Seg1	PASS
ObtrusiveLight_Hood 11_Cd_Seg1	PASS
ObtrusiveLight_Lumeah 11-25_Cd_Seg1	PASS

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

Calculated UWLR: 0.1 %  
 Test Results: PASS

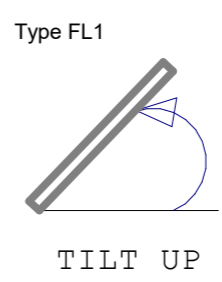
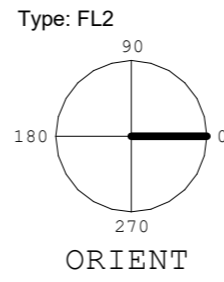
Luminaire Tilts	
Project: Project_1	
LumNo	Tilt
1	28
2	33
3	33
4	28
5	28
6	33
7	33
8	28
9	15
10	15
11	15
12	15
13	15
14	15

**Design Notes:**

- The lighting design complies to AS 2560.2 Tables 2.6.1 Light Technical Parameters for Football (Soccer) to suit Club competition:  
 Emh = 200lx GR max = 50  
 U1 = 0.6 U2 = 0.4
- Lighting Report complies with AS 4282 for the calculation of obtrusive lighting
- Lighting Report excludes any coordination with structural elements or civil infrastructure
- Calculations are based on mounting on existing 15m poles. Suitability of mounting to existing poles to be confirmed by others.

**Design Notes:**

- The lighting design complies to AS 2560.2 Tables 2.11.1 Light Technical Parameters for Tennis to suit Club competition:  
 Emh = 350lx GR max = 50  
 U1 = 0.6 / 0.4 U2 = 0.3 / 0.2
- Lighting Report complies with AS 4282 for the calculation of obtrusive lighting
- Lighting Report excludes any coordination with structural elements or civil infrastructure
- Calculations are based on mounting on existing 8m poles. Suitability of mounting to existing poles to be confirmed by others.



**ADVERTISED PLAN**

Buckford Illumination Group Pty Ltd  
 934 Wirmway Drive,  
 Port Melbourne,  
 Victoria 3207 Australia  
 www.buckford.com.au

PROJECT NAME:  
 M15380 - Caulfield Grammar School  
 Sheldford Sports Ground

LAYOUT VIEW:  
 Layout & Results - Horizontal Illuminance

SALES ENGINEER:  
 LM

LIGHTING DESIGNER:  
 YG

PRINT SIZE: A3 PRINTED DATE: 16/10/2025

The perfect pitch  
throughout the year.



# Striker 50



// Our most advanced 3G turf system yet combining our two most durable high performance sports yarns

// FIFA, World Rugby, Rugby League, AFL, Cricket Australia and FIH multisport certified

// ecocept® environmental sports layer and organic infill options available

// 10 year conditional warranty



# ADVERTISED PLAN

## Striker 50

TigerTurf's Striker 50 is a new generation 3G tuft that combines our two best sports fibres in one turf system. TenCate's extreme wear (XWR) monofilament yarn found in our Atomic Pro and Rugby 360 products, combined with our industry leading durable XP fibrillated tape of our Endurance range. Both yarns are combined in one needle giving a monofilament that stands up allowing the ball to sit on top of the turf aiding play. This combined with our ultra-durable XP fibrillated tape which locks in infill, reduces infill splash and migration, allows extended playing hours and a larger range of footwear choices.



### For the owners

- // XP fibrillated tape is the hardest wearing yarn available, its wide face and large surface area and its inherent ability to spiral creates a hard wearing, long lasting tape that locks in infill, **reduces infill splash and migration.**
- // World leading wear characteristics of both yarns give an extremely hard wearing and therefore **long lasting turf system.**
- // TigerTurf **environmental ecocept® sports layer** that is made from diverted landfill and organic performance infill options available in this product range.



### For the players

- // XWR monofilament stands up allowing the ball to sit on top of the turf **aiding play** by allowing the player to get their foot under the ball and **improved ball roll** for the ultimate playing experience.
- // XP fibrillated tape is the hardest wearing yarn available, its wide face and large surface area and its inherent ability to spiral creates a hard wearing, long lasting tape that locks in infill, reduces **infill splash and migration.**
- // Our TigerCool® technology **reduces the temperature** of the XP yarn making the playing experience more comfortable.

### Product attributes

Yarn 1	100% Polyethylene Monofilament (XWR)
Yarn 2	100% Polyethylene Biaxially Orientated Fibrillated Tape (XP)

- // XWR (Extreme Wear) monofilament yarn for the ultimate playing characteristics
- // XP fibrillated tape arguably the worlds most durable and long lasting sports yarn that offers unequalled durability
- // Both yarns combined in one needle offering the best of both worlds; play and durability
- // XP fibrillated yarn contains our TigerCool® technology offering reduced temperatures

Warranty	10 years
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Multi-Sport / versatility	Good	Very good	Excellent		
Maintenance	Low	Medium	High		
Ball Bounce	Low	Medium	High		
Foot traction	Low	Medium	High		
All-weather	No	Yes			
Durability	Good	Very good	Excellent		
Natural looking	Good	Very good	Excellent		
Range of colours	1	2	3	4	5
Glare	Low	Medium	High		
TigerCool® Technology	No	Yes			

