

Lighting Schedule Project Total (for mast arrangements see table/s below)					
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts
⊕	A	4	AL61101_74_2_AW_150_4K Vago	8	150
⊖	B	4	AL61101_30_3_AM_158_4K Vago	8	158

Mast Arrangement					
M1 - M4					
Symbol	Tag	Qty	Description	Mounting Height	Luminaire Watts
⊕	A	1	AL61101_74_2_AW_150_4K Vago	8	150
⊖	B	1	AL61101_30_3_AM_158_4K Vago	8	158

Horizontal Illuminance Levels					
Customer Specification					
Label	CalcType	Units	Avg	Min/Avg	
MUGA	Illuminance	Lux	200	0.60	

Calculation Summary						
Initial Calculations						
Label	CalcType	Units	Avg	Max	Min	Min/Avg
MUGA	Illuminance	Lux	252	391	168	0.67

Calculation Summary						
Maintained Calculations						
Label	CalcType	Units	Avg	Max	Min	Min/Max
MUGA	Illuminance	Lux	226	351	151	0.67

Area Summary	
Label	Total Watts
MUGA	1,232

Calculation Grid Intervals	
Label	Grid
MUGA	1.5m x 1.5m

Area Dimensions		
Area	L (m)	W (m)
MUGA	27.53	14.71

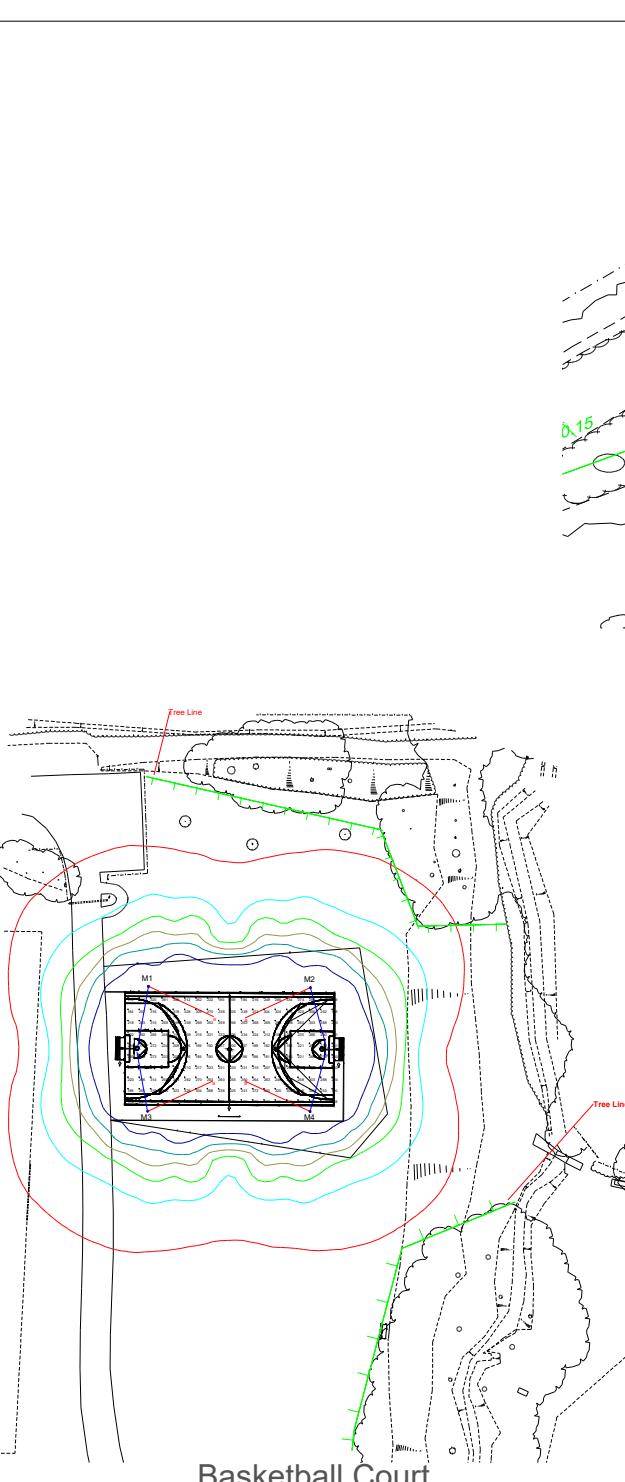
Glare Summary	
Label	GRmax
Glare Rating	31

Isoline Legend	
Colour	Value
Red	0.5
Cyan	2
Green	5
Yellow	10
Blue	20
Dark Blue	50

Maintenance Factor 0.9	
Dirt depreciation factor:	BS5489-1:2020 Table C.1
12 month cleaning intervals	

Notes:
This scheme has been designed based upon a flat and open area.
Shadowing from obstructions have not been taken into account.

Drawing converted from DWG file, please check dimensions before ordering and installing.
Initial levels shown on drawing.



ABACUS LIGHTING LTD.
Sutton-in-Ashfield, Nottinghamshire
NG17 5FT England
Tel: (+44) 01623 511111
Fax: (+44) 01623 552133
Email: light@abacuslighting.com
Home page: www.abacuslighting.com



Lighting Project: Thornbury Outdoor Basketball Court

Title: Horizontal Illuminance Levels

Design Ref: LS4069031-1E

Design By: Ryan Haughney

Date: 27/08/2025

Revision(s) From Previous Design:

(MW) 1 - Moved basketball court.
(MW) 1B - Added in vertical calculation for tree Line.
(MW) 1C - labelled tree lines.
(RH) 1D - Added 3D views of tree lines.
(RH) 1E - Added decimals to tree line calculations.

All illuminance values are the result of computer calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.