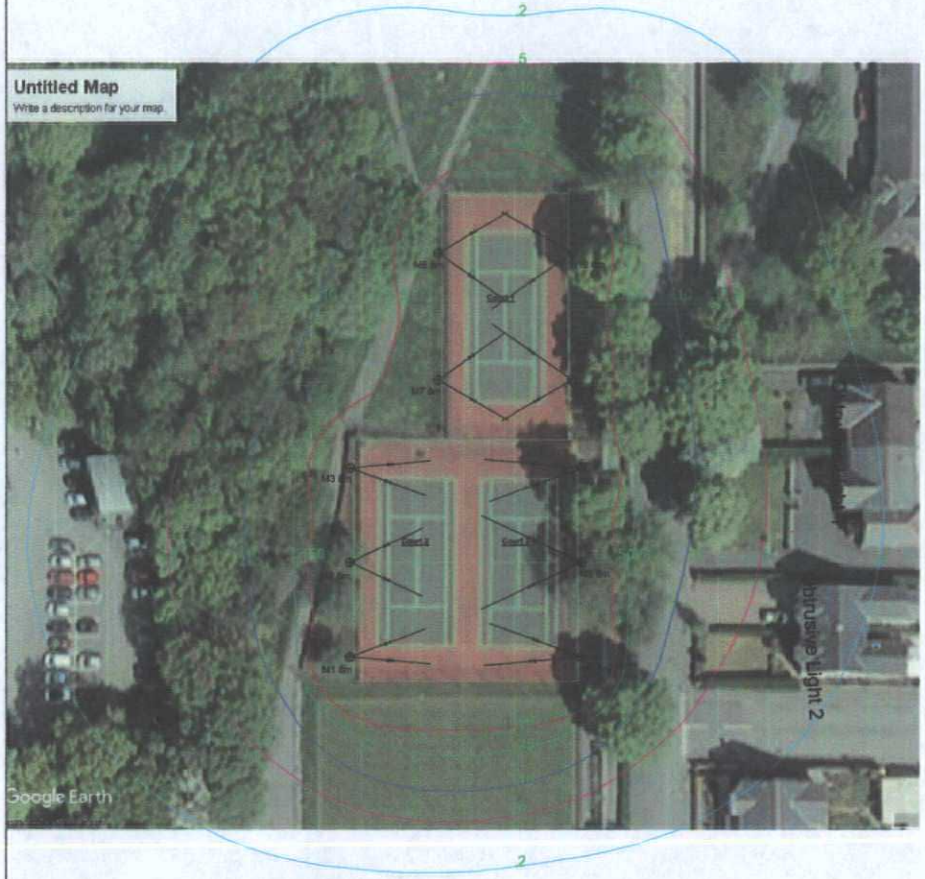
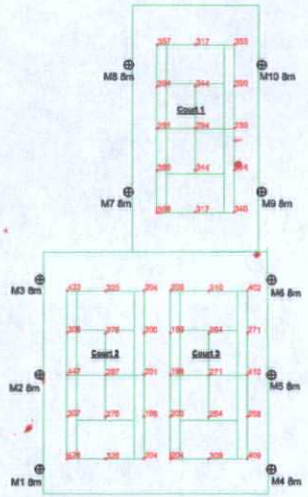
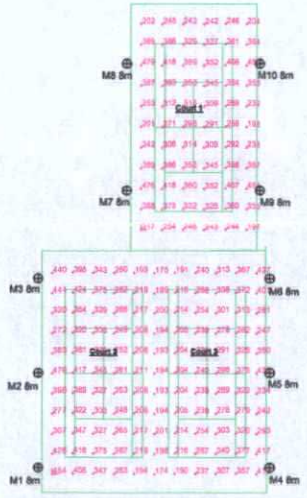


Floodlights aiming locations and horizontal illuminance overspill contours at courts level.



Horizontal illuminance levels for Principal Playing Areas



Horizontal illuminance levels for Total Playing Areas

Abacus

Leaders in Lighting

LIGHTING EQUIPMENT

10 x 8m Masts each carrying the following Vela Floodlight
M1 - M10..... 2 x AL7002 / 400W

HORIZONTAL ILLUMINANCE LEVELS

Court 1 does not contribute to Courts 2 & 3

Tennis Court TPA (Specified Levels)
Average Maintained Illuminance (Eh,m): 200 Lx

Tennis Court 1 PPA (Calculated Levels)
Average Initial Illuminance (Eh,i): 335 Lx
Average Maintained Illuminance (Eh,m): 302 Lx
Uniformity Ratio (E,min / E,av): 0.71

Tennis Court 1 TPA (Calculated Levels)
Average Initial Illuminance (Eh,i): 322 Lx
Average Maintained Illuminance (Eh,m): 290 Lx
Uniformity Ratio (E,min / E,av): 0.6

Glare Rating: GR_{max} = 33

Tennis Court 2 PPA (Calculated Levels)
Average Initial Illuminance (Eh,i): 294 Lx
Average Maintained Illuminance (Eh,m): 265 Lx
Uniformity Ratio (E,min / E,av): 0.68

Tennis Court 3 PPA (Calculated Levels)
Average Initial Illuminance (Eh,i): 279 Lx
Average Maintained Illuminance (Eh,m): 251 Lx
Uniformity Ratio (E,min / E,av): 0.71

Tennis Court 2 & 3 TPA (Calculated Levels)
Average Initial Illuminance (Eh,i): 291 Lx
Average Maintained Illuminance (Eh,m): 262 Lx
Uniformity Ratio (E,min / E,av): 0.8

Glare Rating: GR_{max} = 33

Grid Intervals (PPA) - 15 Point
Grid Intervals (TPA) - 3m
Contours Values 50, 25, 10, 5 & 2 Lux

Maintenance Factor: 0.90

Initial Levels Shown
Typical LED lifetime: 50,000h

Notes:

Dimensions and Pitch Sizes have been taken from a combination of Satellite Image and Customer supplied PDF's. All dimensions should be checked and confirmed on site prior to placing an order with Abacus.

Calculations are based on a flat and open area where shadowing from Trees and buildings has not been taken into consideration.

Obtrusive Light - Compliance Report
CIE 150:2003, Pre-Curfew, E3 - Suburban
Filename: UKS16614_1 - Thomastown Park
14/06/2018 10:42:18

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (2):

Calculation Label	Test Results	Max. Illum.
ObtrusiveLight_1_E_Sep1	PASS	8
ObtrusiveLight_2_E_Sep1	PASS	8

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 10000 Cd

Calculations Tested (2):

Calculation Label	Test Results
ObtrusiveLight_1_Cd_Sep1	PASS
ObtrusiveLight_2_Cd_Sep1	PASS

© Copyright
Abacus Lighting
All rights reserved

This Lighting Design / Scheme and results given are based on the specific performance of Abacus Lighting products. This design and supporting documents are the sole property of Abacus Lighting Limited. This design and supporting documents must not be reproduced in any way without the written permission of Abacus Lighting. Any use of this design with non-Abacus luminaires after planning has been submitted may breach planning consent.

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: Thomastown Park

Title: Horizontal Illuminance Levels

Design Ref: UKS16614/2	Revision(s) From Previous Design:
Design By: Paweł Jarzębowski	
Date: 14/06/2018 Scale: 1:500 @ A2	

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.