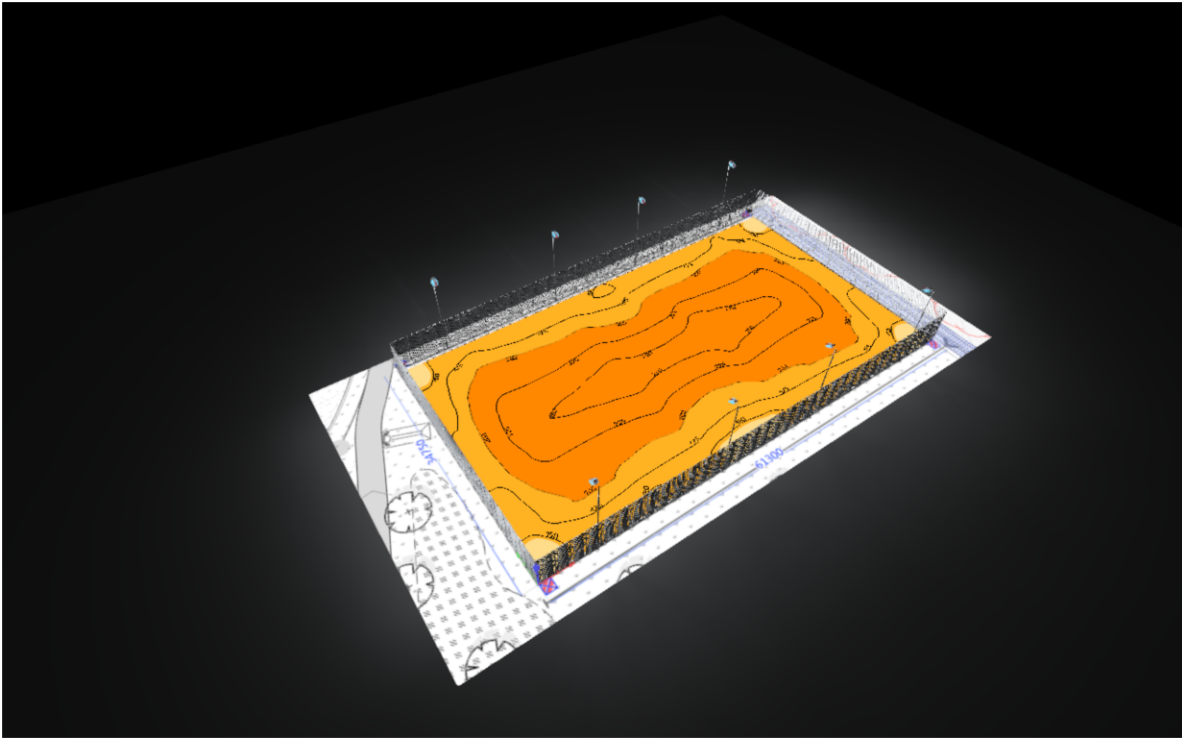




Kellwood - Lighting Design - RUND

PL0009548 - Berewood Multi-Use Sports Area

Kellwood aims to meet relevant CIBSE guidelines or industry/client-specific recommendations when generating lighting designs. Where applicable, Kellwood will attempt to ensure that emergency lighting solutions achieve suggested guidelines. However, ultimate responsibility for ensuring product suitability lies with the purchasing authority.

Lighting designs cannot fully represent a project area and therefore should be considered indicative only. Predicted lux levels are based on sample unit photometric data and will vary in accordance with product lifetime and the additional dynamic site variables. Claims cannot be made against Kellwood based on the values from this or any lighting design.

Data forecasts within this design - light levels, uniformity, and fitting quantities, are applicable to this design only. LED product capabilities are not interchangeable. Alternative products may be similar in performance but the resulting output may not yield the same results.

This document and the information therein may not be disclosed to any non-related third party without the express written permission of Kellwood Lighting Ltd.



Table of Contents

Cover 1

Table of Contents 2

Images 3

Site 1

Luminaire layout plan5

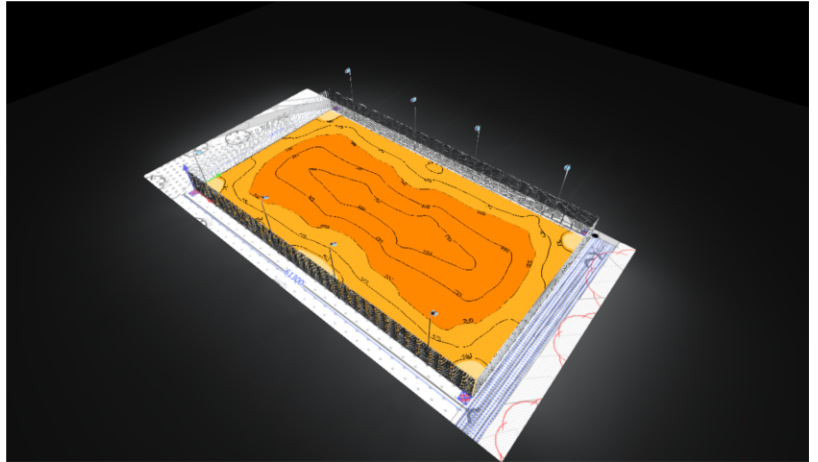
Luminaire list 8

Calculation objects / Light scene 1 9

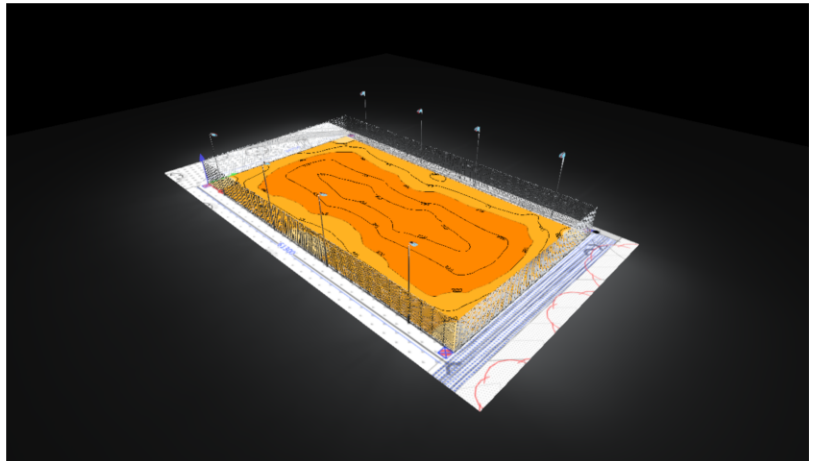
Calculation Surface / Light scene 1 / Perpendicular illuminance13

Images

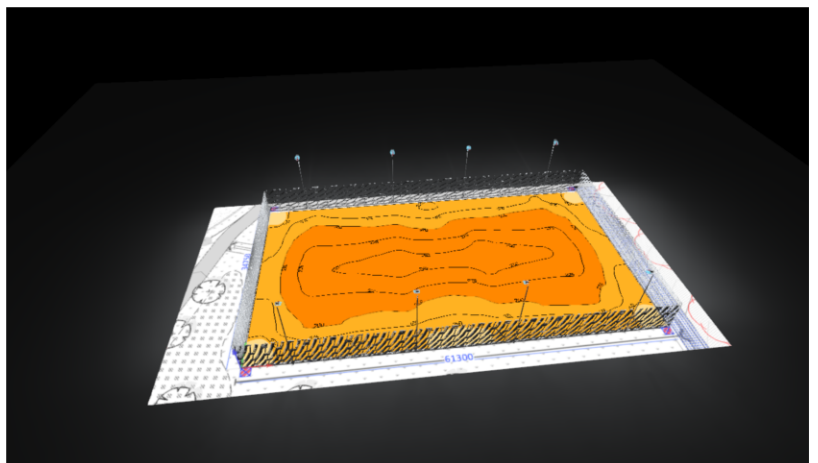
Site 1 (12)



Site 1 (13)

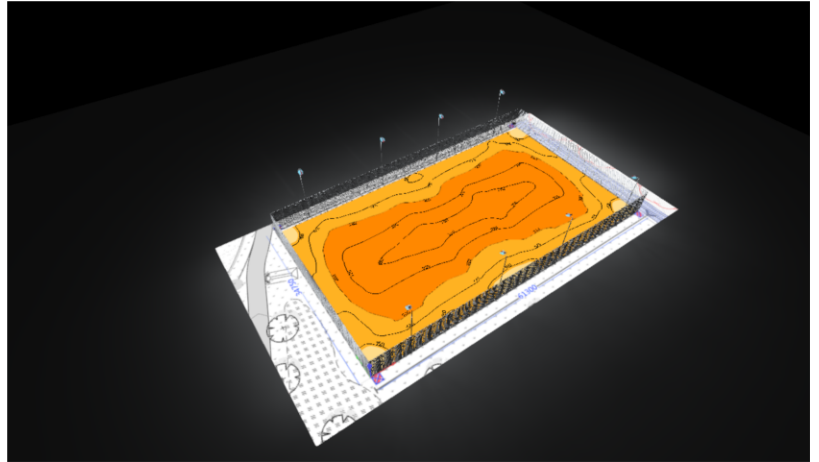


Site 1 (14)



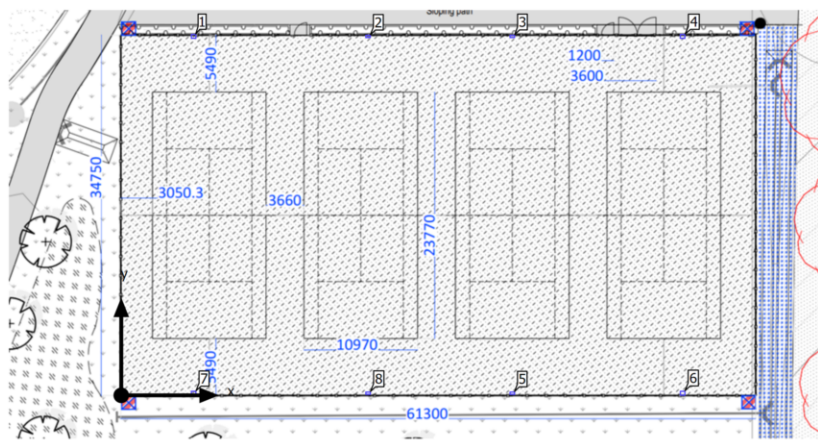
Images

Site 1 (11)



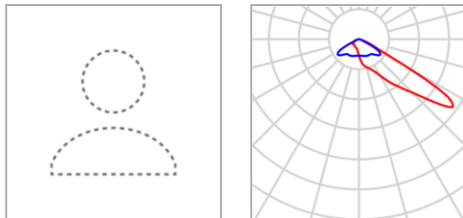
Site 1

Luminaire layout plan



Site 1

Luminaire layout plan



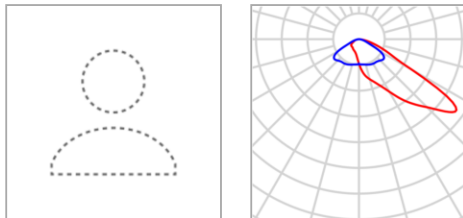
Manufacturer	Kellwood Lighting	P	600.0 W
Article No.	NIC2-600-727-F4	$\Phi_{\text{Luminaire}}$	74379 lm
Article name	Nicholson 2 Series - High Output Sports Light - 600W - CRI>70 2700K - 22° x 129° Optic		
Fitting	1x Samsung 3737 - CRI>70 2700K		

Individual luminaires

X	Y	Mounting height	Luminaire
23.875 m	34.700 m	12.000 m	2
37.825 m	34.700 m	12.000 m	3
37.825 m	0.200 m	12.000 m	5
23.875 m	0.200 m	12.000 m	8

Site 1

Luminaire layout plan



Manufacturer	Kellwood Lighting	P	963.2 W
Article No.	NIC2-960-727-F4	$\Phi_{\text{Luminaire}}$	115020 lm
Article name	Nicholson 2 Series - High Output Sports Light - 960W - CRI>70 2700K - 22° x 129° Optic		
Fitting	1x Samsung 3737 - CRI>70 2700K		

Individual luminaires

X	Y	Mounting height	Luminaire
7.000 m	34.700 m	12.000 m	1
54.300 m	34.700 m	12.000 m	4
54.300 m	0.200 m	12.000 m	6
7.000 m	0.200 m	12.000 m	7

Site 1

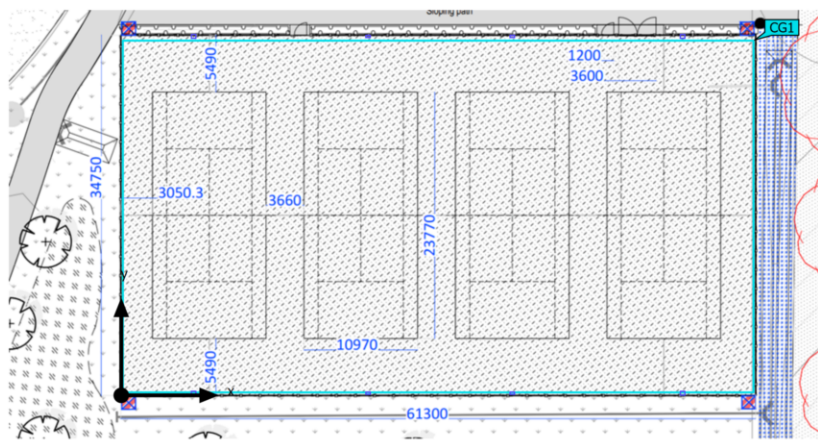
Luminaire list

Φ_{total}	P_{total}	Luminous efficacy
757596 lm	6252.8 W	121.2 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Kellwood Lighting	NIC2-600-727-F4	Nicholson 2 Series - High Output Sports Light - 600W - CRI>70 2700K - 22° x 129° Optic	600.0 W	74379 lm	124.0 lm/W
4	Kellwood Lighting	NIC2-960-727-F4	Nicholson 2 Series - High Output Sports Light - 960W - CRI>70 2700K - 22° x 129° Optic	963.2 W	115020 lm	119.4 lm/W

Site 1 (Light scene 1)

Calculation objects



Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation Surface Perpendicular illuminance Height: 0.000 m	201 lx	130 lx	266 lx	0.65	0.49	CG1

Site 1 (Light scene 1)

Calculation objects

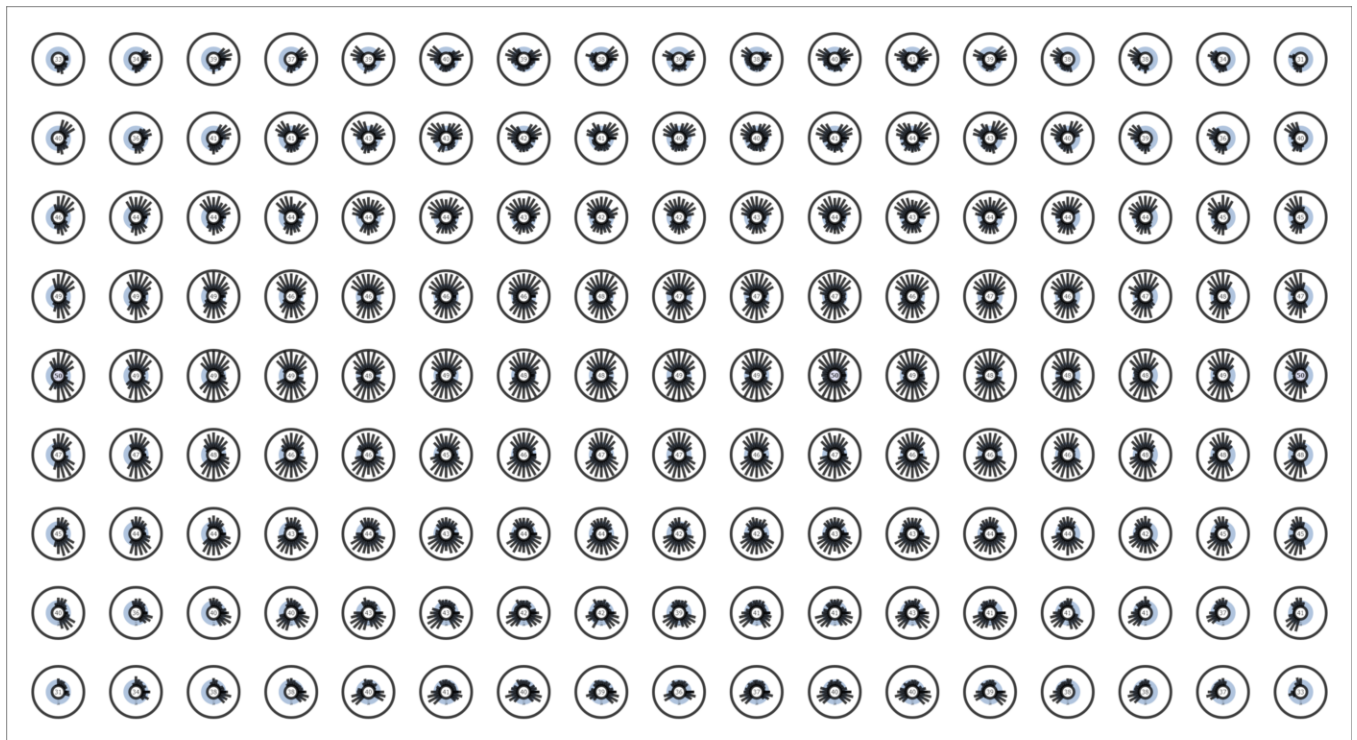
Calculation Surface (R_G)

Strongest glare at	285°
max	50
Viewing sector	0° - 360°
Step width	15°
Angle of inclination	-2°
Height	1.500 m
Index	CG1
Method	Exact calculation according to CIE 112

Site 1 (Light scene 1)

Calculation objects

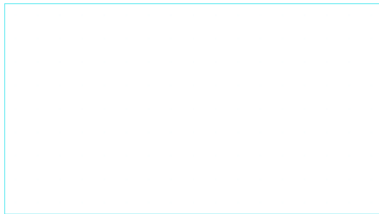
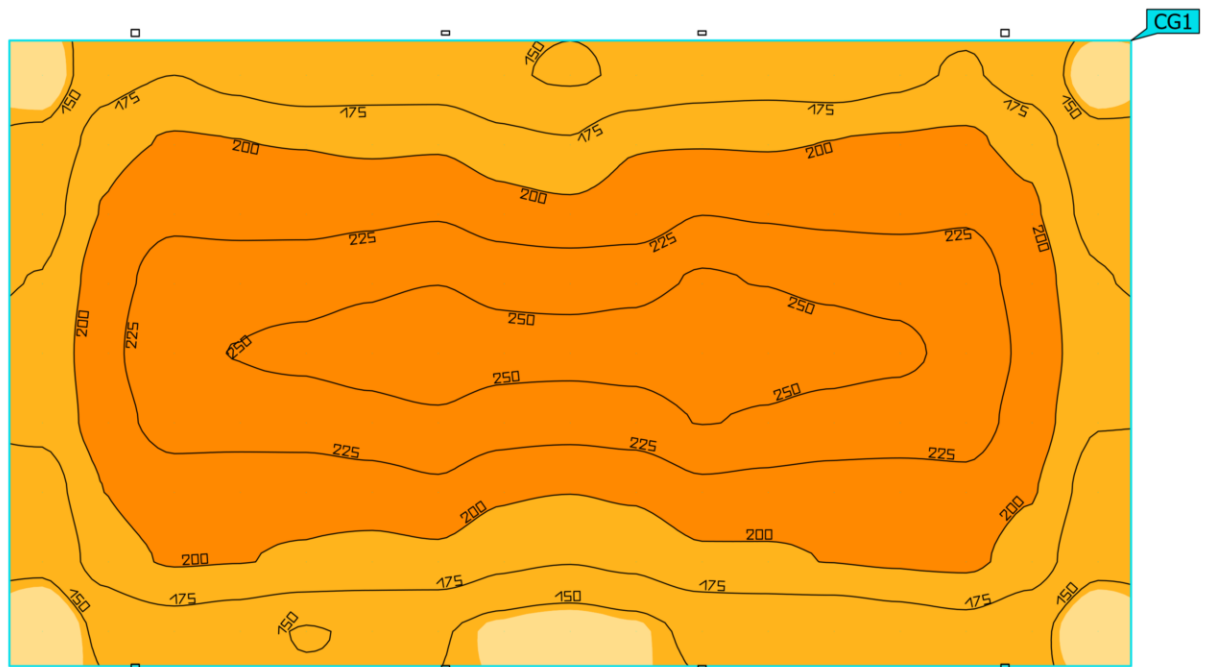
Calculation Surface (R_G)



Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Site 1 (Light scene 1)

Calculation Surface



Properties	$\bar{E}$	$E_{\min}$	$E_{\max}$	$U_o (g_1)$	g_2	Index
Calculation Surface Perpendicular illuminance Height: 0.000 m	201 lx	130 lx	266 lx	0.65	0.49	CG1

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))