

**DATE:** 13 July 2018  
**DESIGNER:** Owen Pearson  
**PROJECT No:** 000000  
**PROJECT NAME:** Keynsham Skate Park



P4 AREA (BLUE):

STREET LIGHTING TO BS 5489-1:2013 & BS EN 13201-2:2015  
CLASS P4 (Eav 5.00 TO 7.50 LUX, Emin 1.00 LUX)

DESIGN COMPLIES WITH P4 AS VARIED BY S/P RATIO 2.10  
(Eav 3.35 TO 5.02 LUX, Emin 0.67 LUX)

5m STANDARD TUBULAR STEEL GALVANISED COLUMN IN  
ACCORDANCE WITH BS EN 40 AND PD 6547:2004. 22 DEGREE  
TILT

## Outdoor Lighting Report

**PREPARED BY:** Proelectric Services Ltd  
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## Layout Report

### General Data

Dimensions in Metres Angles in Degrees  
Grid Origin 0.0m x 0.0m  
Area 76.6m x 60.6m  
Sample Spacing 1.47m x 1.48m

### Luminaires

#### Luminaire A Data

Supplier	PROLECTRIC
Type	PROLECTRIC LED 10W
Lamp(s)	AE II 10W
Lamp Flux (klm)	1.08
File Name	10W-R.IES
Maintenance Factor	0.95
Imax70,80,90(cd/klm)	87.3, 20.1, 6.7
No. in Project	2

#### Luminaire B Data

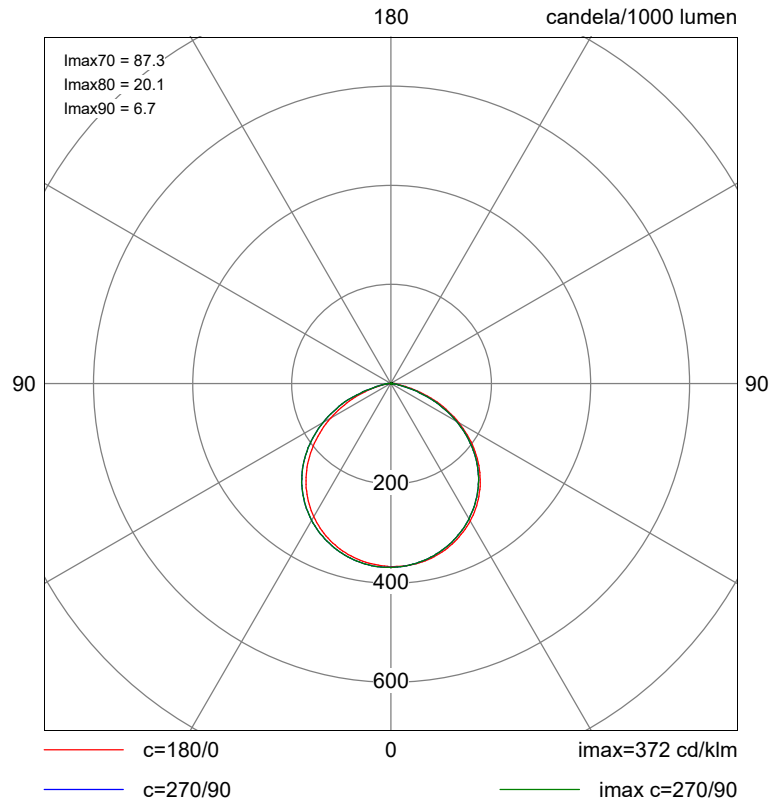
Supplier	PROLECTRIC
Type	PROLECTRIC LED 10W-M
Lamp(s)	LED10W-M
Lamp Flux (klm)	1.26
File Name	10W-M.IES
Maintenance Factor	0.95
Imax70,80,90(cd/klm)	458.1, 33.5, 12.8
No. in Project	1

### Layout

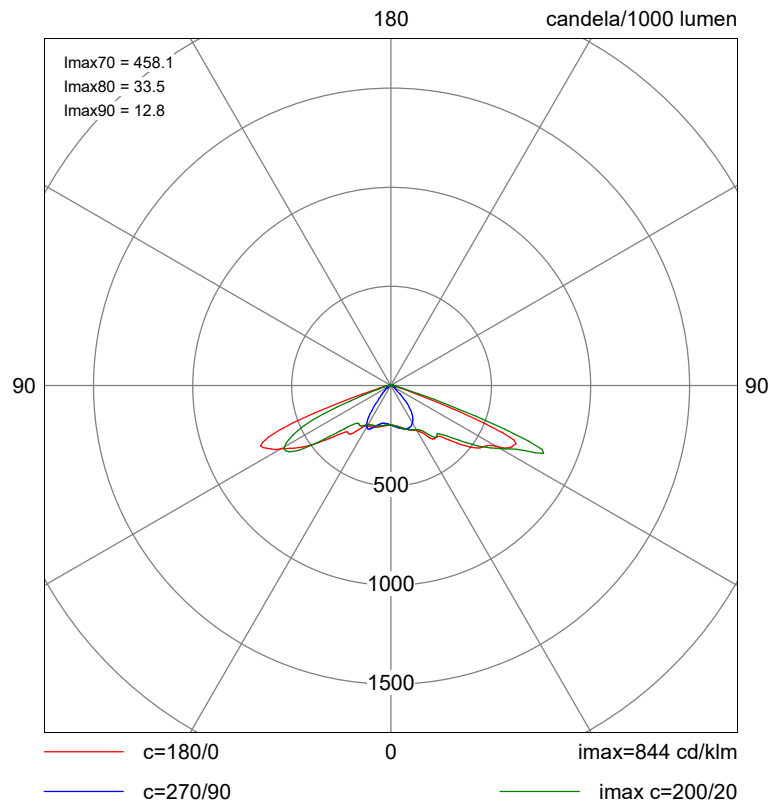
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	28.26	34.18	4.00	2.00	22.00	0.00	0.50			
2	A	50.57	25.65	4.00	173.00	22.00	0.00	0.50			
3	A	42.99	43.39	4.00	269.00	22.00	0.00	0.50			

## Polar Diagrams

### Luminaire A PROELECTRIC LED 10W

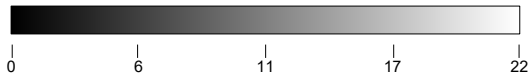
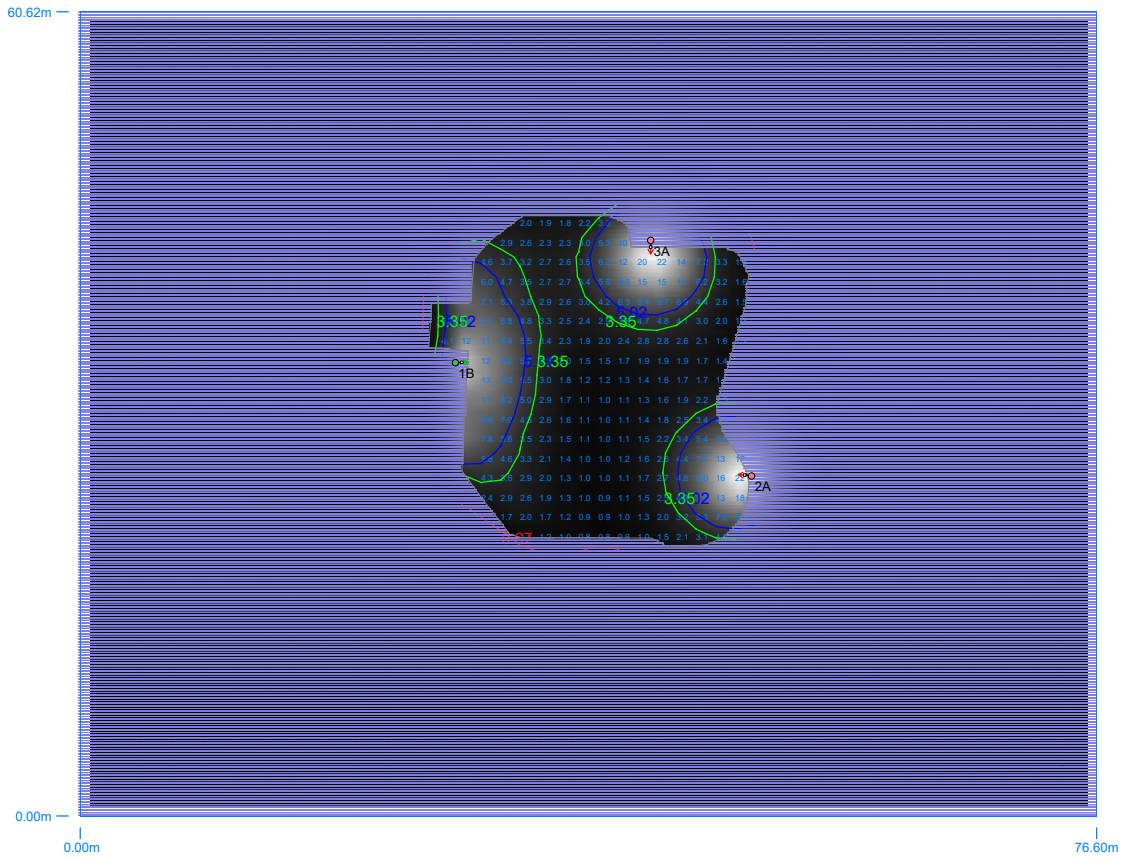


### Luminaire B PROELECTRIC LED 10W-M



# Horizontal Illuminance (lux)

Grid 1

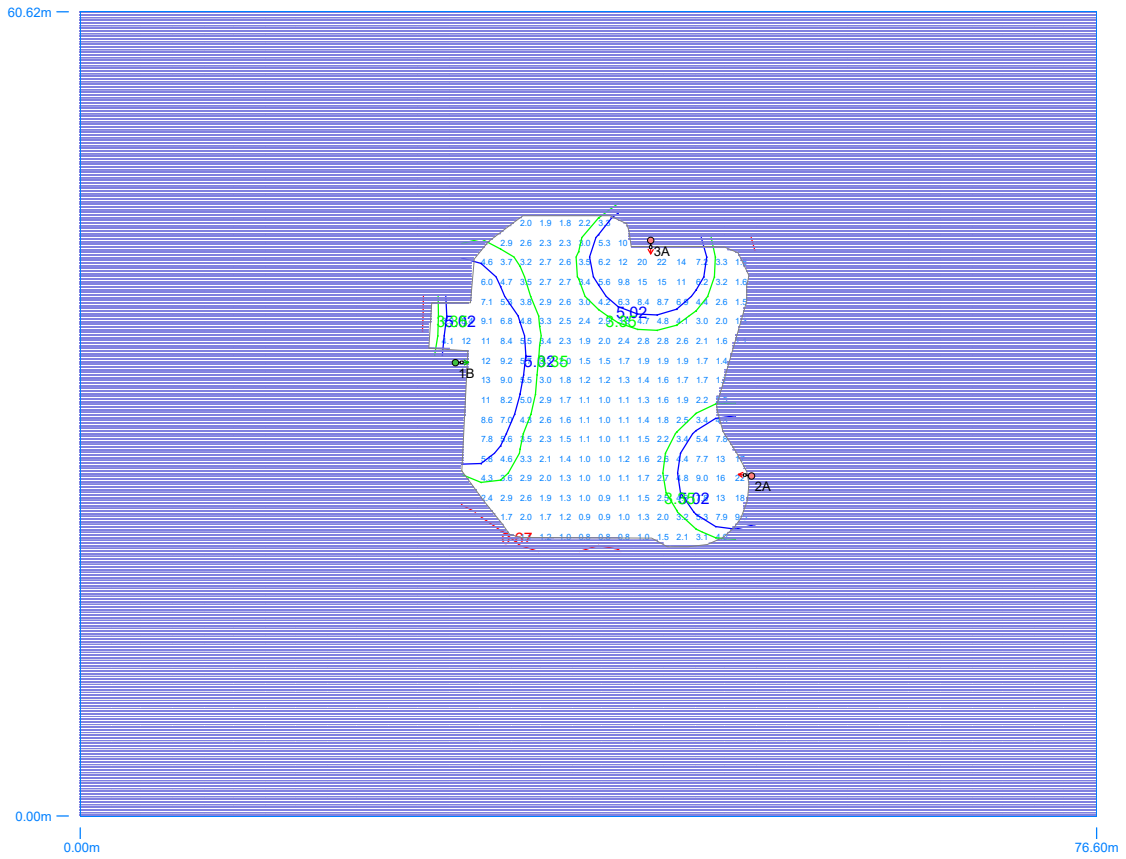


### Results

Eav	4.20
Emin	0.76
Emax	22.39
Emin/Emax	0.03
Emin/Eav	0.18

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