

External Lighting

Installation : Corsham PFS

Project number : PJL 25-0006

Customer : Cliffe Property Investments

Processed by : P.Badminton

Date : 06.01.2026

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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1 Luminaire data

1.1 Thorlux, REALTA AREA 4000K (ERL18A40)

1.1.1 Data sheet

Manufacturer: Thorlux

ERL18A40 REALTA AREA 4000K

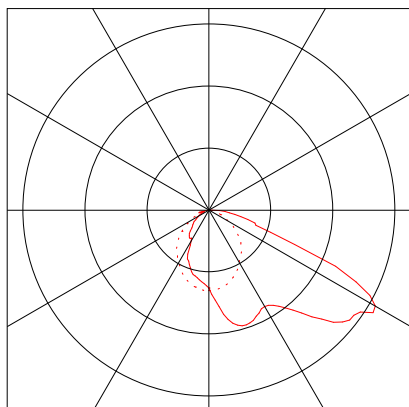
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 34.75 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 38 72 95 100 100
UGR 4H 8H : 28.8 / 22.2
Power : 20 W
Luminous flux : 695 lm

Equipped with

Quantity : 1
Designation : 18W LED
Colour : 4000
Luminous flux : 695 lm
Colour reproduction : 80

Dimensions : 290 mm x 210 mm x 200 mm



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1 Luminaire data

1.2 Thorlux, STARBEAM AREA STANDARD 4000K (SB022A40)

1.2.1 Data sheet

Manufacturer: Thorlux

SB022A40 STARBEAM AREA STANDARD 4000K

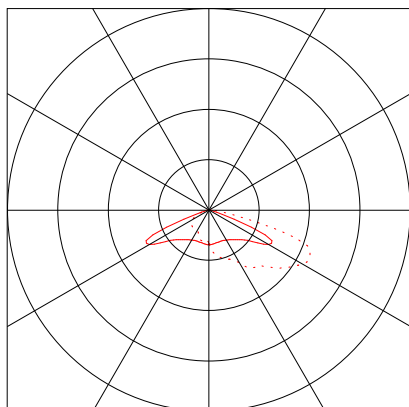
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 157.29 lm/W
Classification : A20 ↓ 100.0% ↑ 0.0%
CIE Flux Codes : 25 57 94 100 100
Glare : G*1 / D4
Power : 24 W
Luminous flux : 3773.2 lm

Equipped with

Quantity : 1
Designation : 22W LED
Colour : 4000
Luminous flux : 3775 lm
Colour reproduction : 70

Dimensions : 559 mm x 272 mm x 156 mm



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1 Luminaire data

1.3 Thorlux, PSL 65 RECESSED BROAD DISTRIBUTION (PSL20312)

1.3.1 Data sheet

Manufacturer: Thorlux

PSL20312 PSL 65 RECESSED BROAD DISTRIBUTION

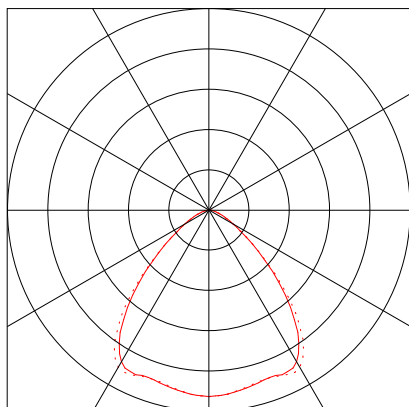
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 138.14 lm/W
Classification : A50 ↓99.8% ↑0.2%
CIE Flux Codes : 66 93 99 100 100
UGR 4H 8H : 24.3 / 24.4
Power : 51 W
Luminous flux : 7041.5 lm

Equipped with

Quantity : 1
Designation : 46W LED
Colour : 4000
Luminous flux : 7045 lm
Colour reproduction : 80

Dimensions : 650 mm x 650 mm x 120 mm



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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

1	9 x		Thorlux	
			Order No.	: ERL18A40
			Luminaire name	: REALTA AREA 4000K
			Equipment	: 1 x 18W LED 20 W / 695 lm
2	6 x		Order No.	: SB022A40
			Luminaire name	: STARBEAM AREA STANDARD 4000K
			Equipment	: 1 x 22W LED 24 W / 3775 lm
3	6 x		Order No.	: PSL20312
			Luminaire name	: PSL 65 RECESSED BROAD DISTRIBUTION
			Equipment	: 1 x 46W LED 51 W / 7045 lm

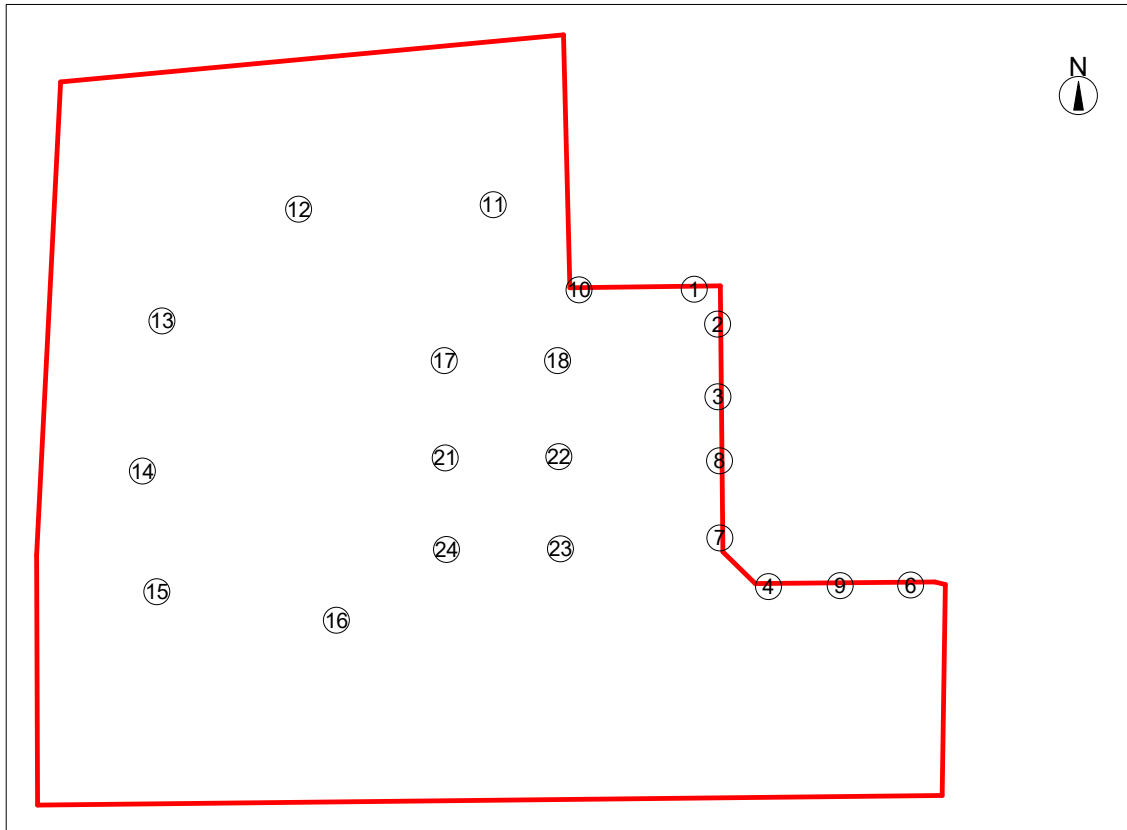
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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
Thorlux REALTA AREA 4000K ERL18A40									
1	58.18	160.22	2.70	180.76	0.00	0.00	53.50	160.16	0.00
2	59.63	158.07	2.70	89.39	0.02	0.02	59.65	160.37	1.37
3	59.65	153.58	2.70	270.43	0.00	0.00	59.68	148.90	0.00
4	62.77	141.85	2.70	179.55	0.00	0.00	58.09	141.89	0.00
6	71.56	141.94	2.70	180.11	0.00	0.00	66.88	141.93	0.00
7	59.76	144.84	2.70	270.00	0.00	0.00	59.76	140.17	0.00
8	59.74	149.63	2.70	269.92	0.00	0.00	59.73	144.95	0.00
9	67.21	141.91	2.70	179.55	0.00	0.00	62.54	141.95	0.00
10	51.05	160.18	2.70	179.55	0.00	0.00	46.37	160.22	0.00
Thorlux STARBEAM AREA STANDARD 4000K SB022A40									
11	45.75	165.46	4.92	183.13	0.00	0.00	46.26	156.02	0.00
12	33.71	165.18	4.92	182.95	0.00	0.00	34.20	155.74	0.00
13	25.25	158.27	4.92	262.95	0.00	0.00	34.63	157.11	0.00
14	24.05	149.00	4.92	261.84	0.00	0.00	33.41	147.65	0.00
15	24.94	141.53	4.92	296.08	0.00	0.00	33.43	145.68	0.00
16	36.05	139.76	4.92	1.01	0.00	0.00	35.88	149.21	0.00
Thorlux PSL 65 RECESSED BROAD DISTRIBUTION PSL20312									
17	42.71	155.82	4.94	0.00	0.00	0.00	42.71	155.82	0.00
18	49.73	155.82	4.94	0.00	0.00	0.00	49.73	155.82	0.00
21	42.78	149.81	4.94	0.00	0.00	0.00	42.78	149.81	0.00
22	49.80	149.88	4.94	0.00	0.00	0.00	49.80	149.88	0.00
23	49.91	144.18	4.94	0.00	0.00	0.00	49.91	144.18	0.00
24	42.85	144.15	4.94	0.00	0.00	0.00	42.85	144.15	0.00

Structural elements

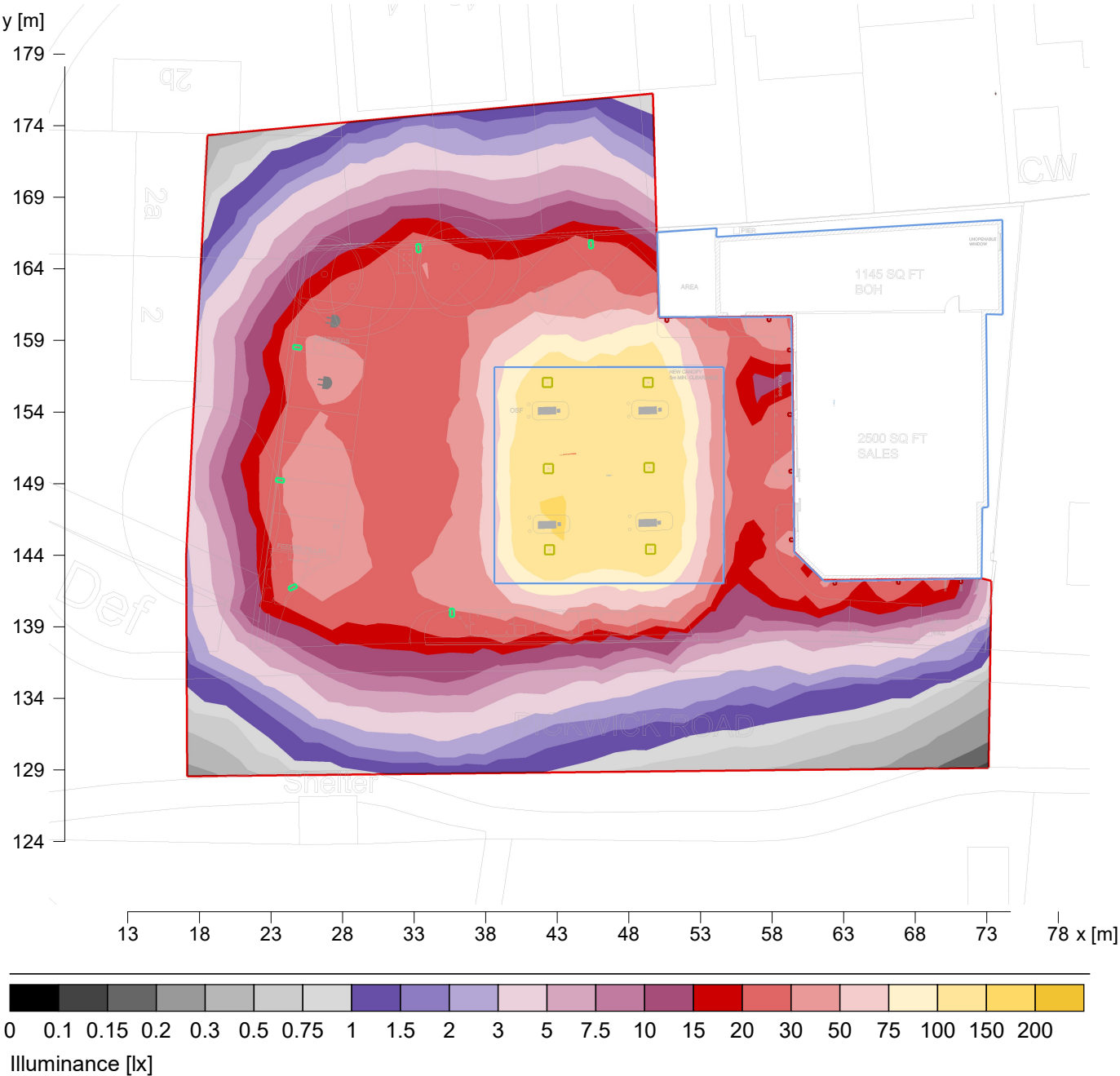
Measuring surface

							Rotation angle	
No.	xm[m]	ym[m]	zm[m]	Length	Width	Height	z axis	L axis
Ref. plane 1.1								
	59.78	160.44	0.00	61.48	54.13	0.00	185.35	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	Height	Rotation angle		
							z axis	L axis	Q axis
A 1	39.01	141.80	5.00	16.01	15.08	0.70	0.00	0.00	0.00
A 1	50.36	166.28	0.00	24.72	25.54	4.00	271.41	0.00	0.00

2.1 Description, Exterior 1
2.1.2 Floor plan



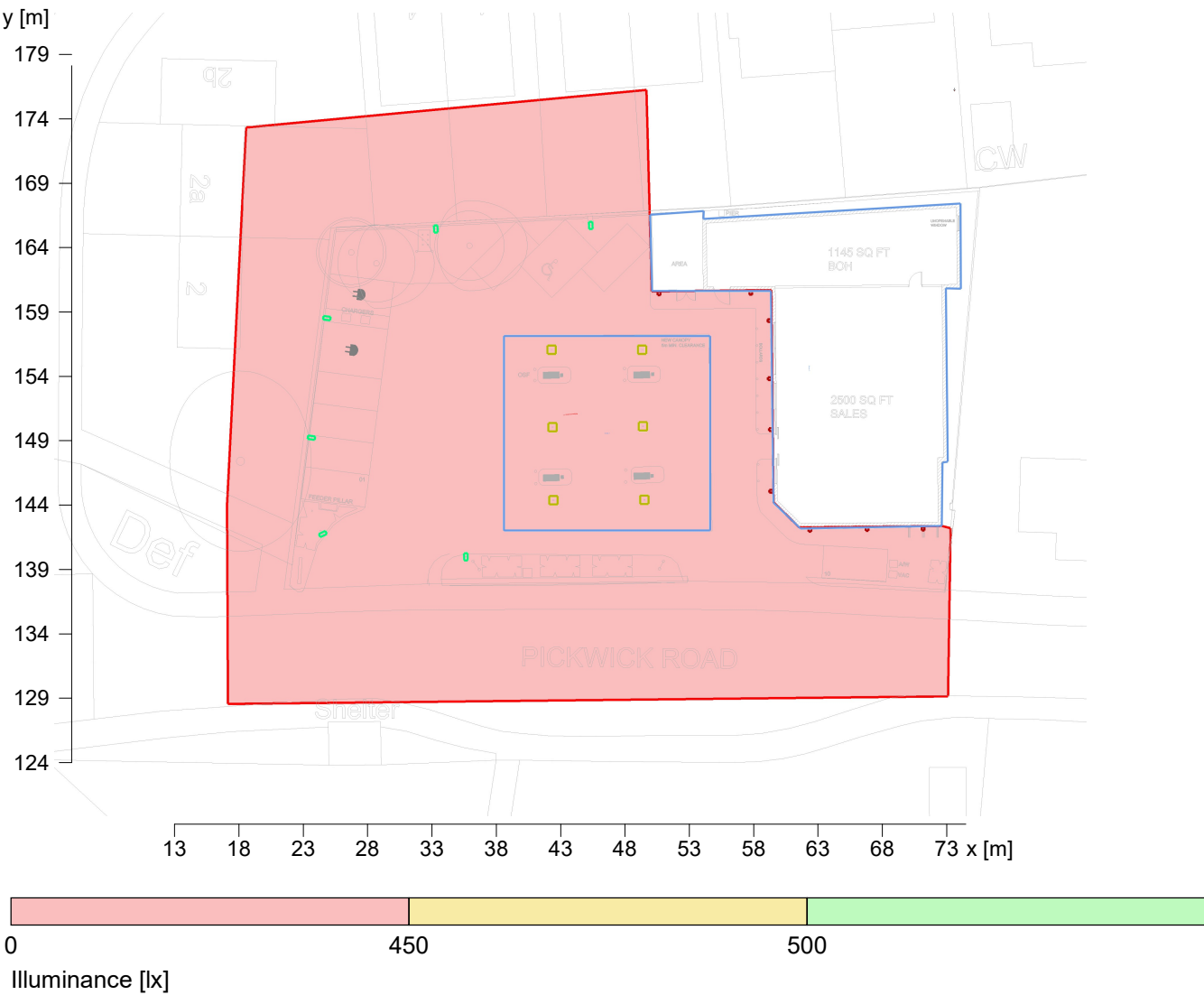
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2 Exterior 1

2.2 Calculation results, Exterior 1

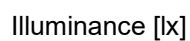
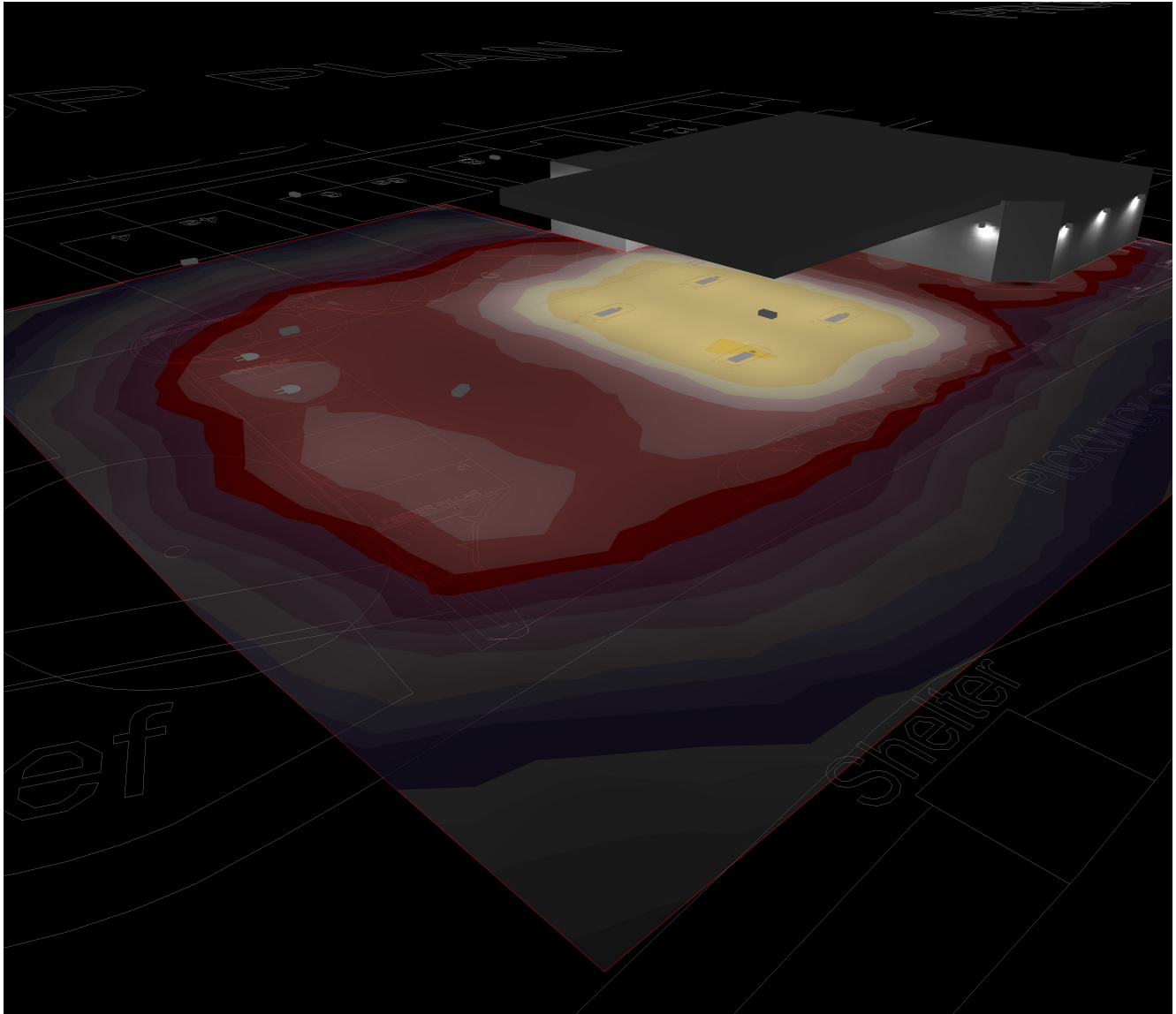
2.2.1 Boundary line, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 28 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 143 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 135.18 (0.01)

The logo for P.J. L. Technical Services features three overlapping squares: a green one on the left, a blue one on the top right, and a grey one on the bottom left. To the right of these squares, the letters "PJL" are written in a large, bold, black sans-serif font. Below "PJL", the words "Technical Services" are written in a smaller, black sans-serif font.

2.2.2 3D luminance, View 1



Minimum: : 0 cd/m²
Maximum: : 421 cd/m²

2.2 Calculation results, Exterior 1
2.2.3 3D pseudo colours, View 1 (L)

