

Fairfield Hospital

Installation : Car Park v3

Project number :

Customer : G.A. Nicholas

Processed by : Paul Grikinis

Date : 11.07.2024

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.

1 Luminaire data

1.1 ZLISS, MU N 1X 500 4000K LSM1 (MUN1X500-4K-LSM1)

1.1.1 Data sheet

Manufacturer: ZLISS

MUN1X500-4K-LSM1

MU N 1X 500 4000K LSM1

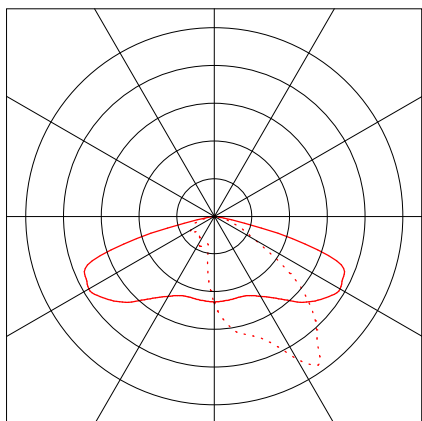
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 143.48 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 36 75 98 100 100
UGR 4H 8H : 34.7 / 24.6
Power : 335.5 W
Luminous flux : 48138 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 4000
Luminous flux : 48138 lm
Colour reproduction : 70

Dimensions : 640 mm x 165 mm x 320 mm



1 Luminaire data

1.2 ZLISS, ETA NA 55 4000K LSM1 (ETANA55-4K-LSM1)

1.2.1 Data sheet

Manufacturer: ZLISS

ETANA55-4K-LSM1 ETA NA 55 4000K LSM1

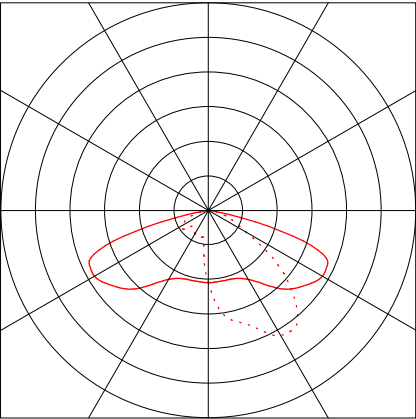
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 158.94 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 36 73 97 100 100
Glare : G*4 / D6
Power : 35.8 W
Luminous flux : 5690 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 4000
Luminous flux : 5690 lm
Colour reproduction : 70

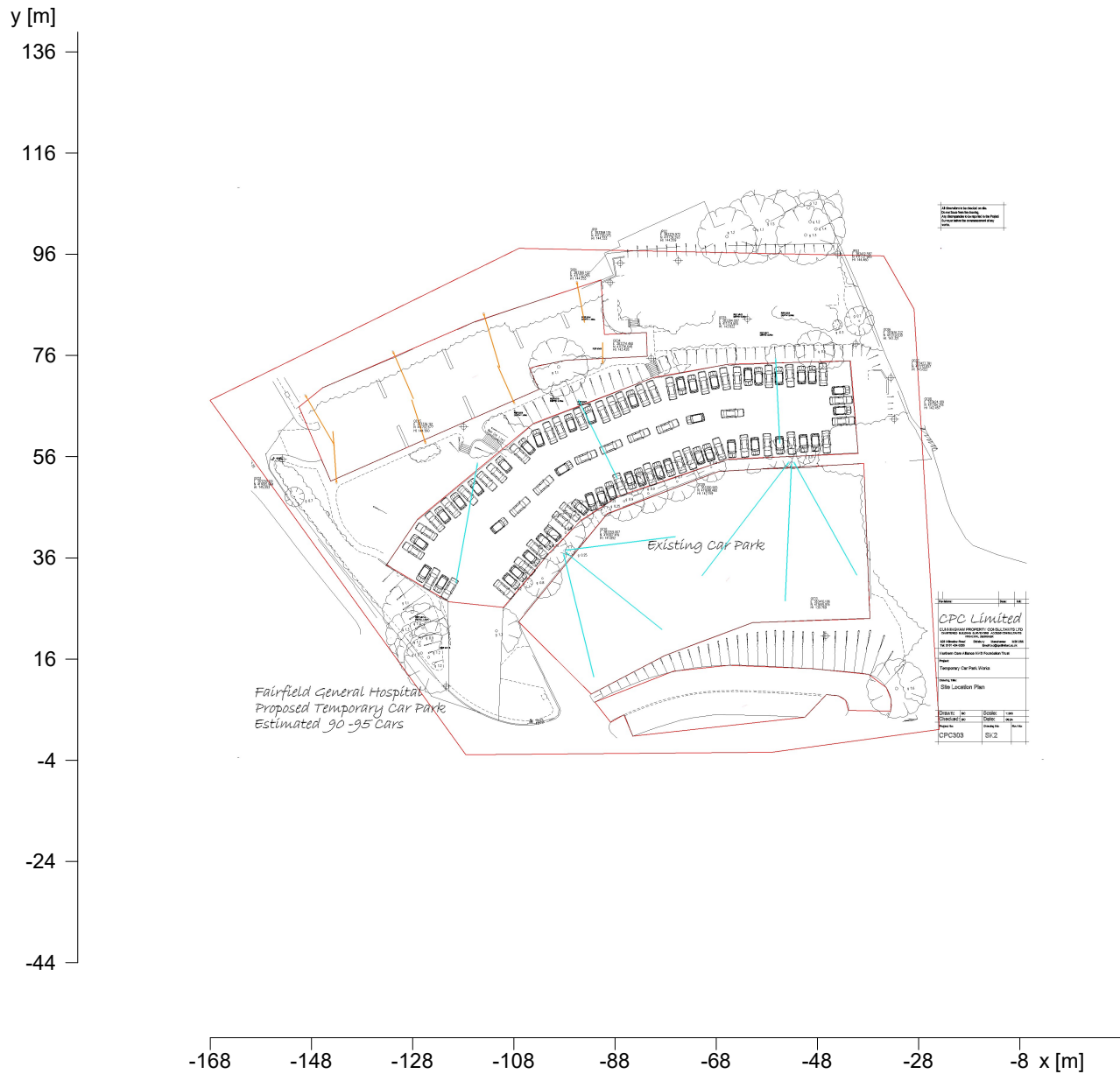
Dimensions : 525 mm x 250 mm x 102 mm



2 Exterior 1

2.1 Description, Exterior 1

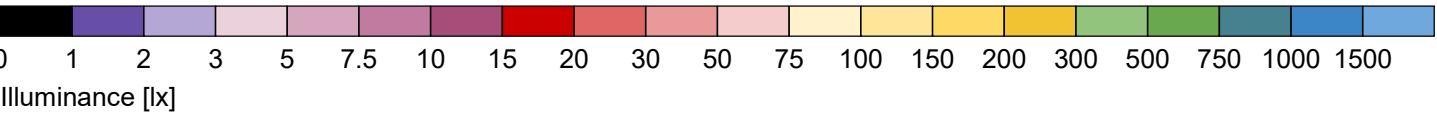
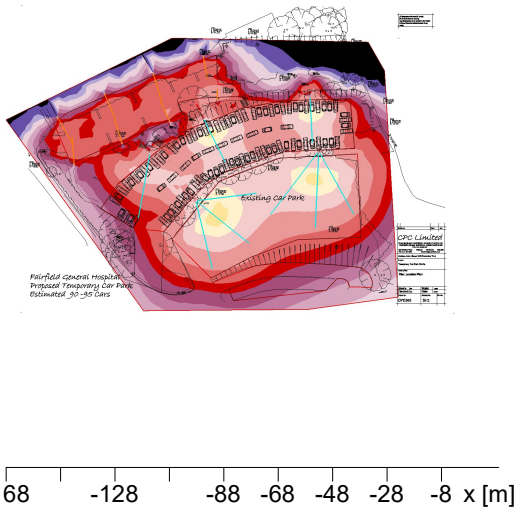
2.1.1 Floor plan



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	478762.00 lm
Total power	3305.9 W
Total power per area (11249.62 m²)	0.29 W/m² (1.07 W/m²/100lx)

Evaluation area 1Reference plane 1.1

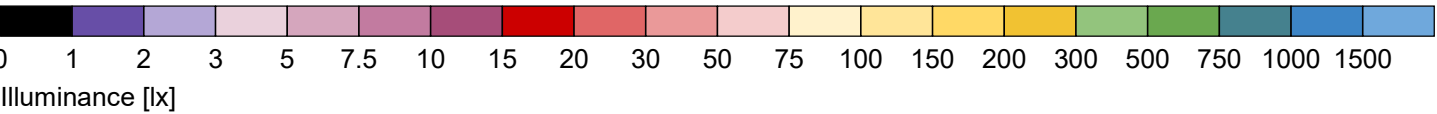
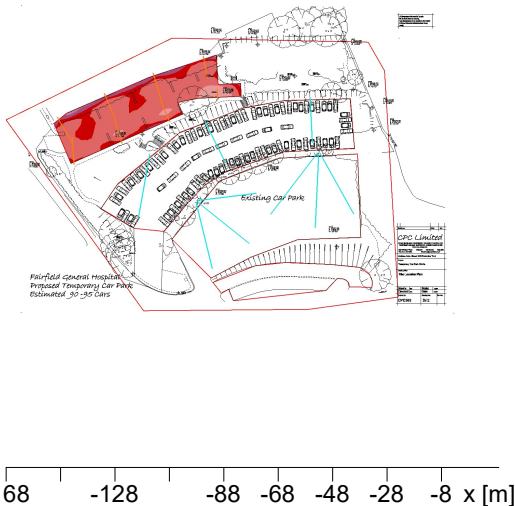
$\bar{E}_m$	Horizontal
E_{min}	27.4 lx
$E_{min}/\bar{E}_m (U_o)$	0.2 lx
$E_{min}/E_{max} (U_d)$	0.01
Position	0.00
	0.00 m

Type No.\Make

19 x		ZLISS	
		Order No.	: MUN1X500-4K-LSM1
		Luminaire name	: MU N 1X 500 4000K LSM1
		Equipment	: 1 x LED 335.5 W / 48138 lm
28 x			
		Order No.	: ETANA55-4K-LSM1
		Luminaire name	: ETA NA 55 4000K LSM1
		Equipment	: 1 x LED 35.8 W / 5690 lm

2.2 Summary, Exterior 1

2.2.2 Result overview, Existing Car Park Top



General

Calculation algorithm used

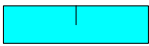
Maintenance factor

Average indirect fraction

0.80

Existing Car Park Top	Reference plane 2.1
$\bar{E}_m$	Horizontal
E_{min}	22.4 lx
$E_{min}/\bar{E}_m (U_o)$	8.4 lx
$E_{min}/E_{max} (U_d)$	0.38
Position	0.17
	0.00 m

Type No.\Make

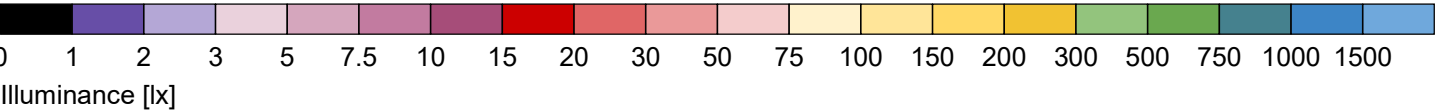
ZLISS	
1 9 x	Order No. : MUN1X500-4K-LSM1
	Luminaire name : MU N 1X 500 4000K LSM1
	Equipment : 1 x LED 335.5 W / 48138 lm
2 8 x	Order No. : ETANA55-4K-LSM1
	Luminaire name : ETA NA 55 4000K LSM1
	Equipment : 1 x LED 35.8 W / 5690 lm

2.2 Summary, Exterior 1

2.2.4 Result overview, Existing Car Park Main



-168 -128 -88 -68 -48 -28 -8 x [m]



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	48138.00 lm
Total power	335.5 W
Total power per area (1949.07 m²)	0.17 W/m² (0.30 W/m²/100lx)

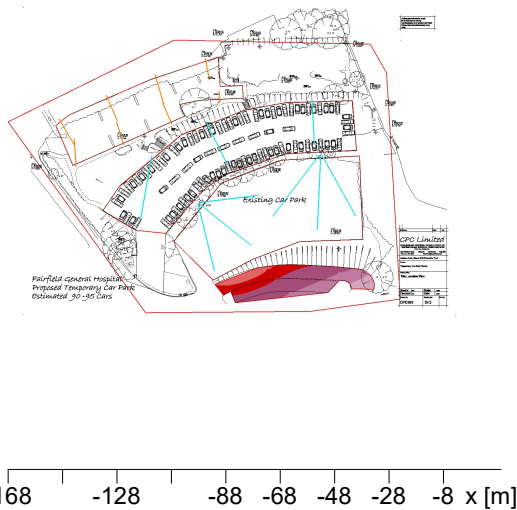
Existing Car Park Main	Reference plane 4.1
	Horizontal
$\bar{E}_m$	58.1 lx
E_{min}	19.6 lx
$E_{min}/\bar{E}_m (U_o)$	0.34
$E_{min}/E_{max} (U_d)$	0.18
Position	0.00 m

Type No.\Make

1		ZLISS	
1 x		Order No.	: MUN1X500-4K-LSM1
		Luminaire name	: MU N 1X 500 4000K LSM1
		Equipment	: 1 x LED 335.5 W / 48138 lm

2.2 Summary, Exterior 1

2.2.5 Result overview, Existing Car Park Main Low



General

Calculation algorithm used

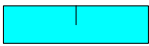
Maintenance factor

Average indirect fraction

0.80

Existing Car Park Main Low	Reference plane 5.1
	Horizontal
$\bar{E}_m$	13.3 lx
E_{min}	5.5 lx
$E_{min}/\bar{E}_m (U_o)$	0.41
$E_{min}/E_{max} (U_d)$	0.22
Position	0.00 m

Type No.\Make

ZLISS	
1 9 x	Order No. : MUN1X500-4K-LSM1
	Luminaire name : MU N 1X 500 4000K LSM1
	Equipment : 1 x LED 335.5 W / 48138 lm
2 8 x	Order No. : ETANA55-4K-LSM1
	Luminaire name : ETA NA 55 4000K LSM1
	Equipment : 1 x LED 35.8 W / 5690 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 3D pseudo colours, View 1 (E)

