

KFC Bedhampton

Installation : Exterior Lighting

Project number :

Customer :

Processed by : Matt keir

Date : 10.08.2016

Project description:

This design is based on the information supplied and should always be read on conjunction with that information. All illuminance/luminance values are the result of calculations based upon the precise positioning of luminaires in a fixed relationship within the proposed environment. Any variation to the lighting design layout and the environment to be lit may affect the calculated light levels. This design and associated specifications is subject to Conditions of Sale of Litetask Limited.

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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1 Luminaire data

1.1 Fagerhult, EVOLUME1.740.2300.CL1.CLO 4E1 (303342-479)

1.1.1 Data sheet

Manufacturer: Fagerhult

303342-479 EVOLUME1.740.2300.CL1.CLO 4E1

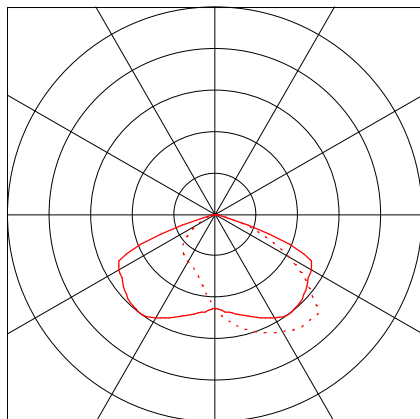
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 104.55 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 40 78 99 100 100
UGR 4H 8H : 25.9 / 14.9
Power : 22 W
Luminous flux : 2300 lm

Equipped with

Quantity : 1
Designation : LED
Colour :
Luminous flux : 2300 lm

Dimensions : 555 mm x 348 mm x 84 mm



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1 Luminaire data

1.2 Fagerhult, EVOLUME1.740.1600.CL1.CLO 4E1 (303340-479)

1.2.1 Data sheet

Manufacturer: Fagerhult

303340-479 EVOLUME1.740.1600.CL1.CLO 4E1

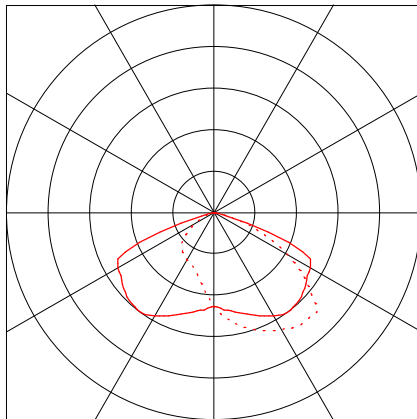
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 100 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 40 78 99 100 100
UGR 4H 8H : 24.6 / 13.6
Power : 16 W
Luminous flux : 1600 lm

Equipped with

Quantity : 1
Designation : LED
Colour :
Luminous flux : 1600 lm

Dimensions : 555 mm x 348 mm x 84 mm

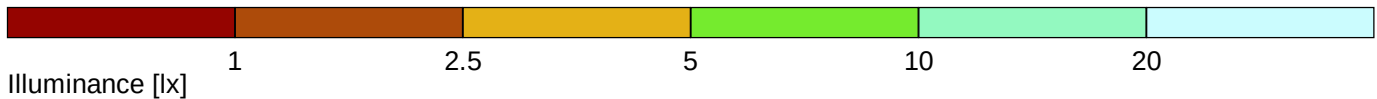


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2 Exterior 1

2.1 Summary, Exterior 1

2.1.1 Result overview, Drive Through



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	26800 lm
Total power	264 W
Total power per area (2526.74 m ²)	0.10 W/m ²

Illuminance

Average illuminance	Eav	12.1 lx
Minimum illuminance	Emin	4.3 lx
Maximum illuminance	Emax	25.5 lx
Uniformity U ₀	Emin/Em	1:2.82 (0.36)
Diversity U _d	Emin/Emax	1:5.96 (0.17)

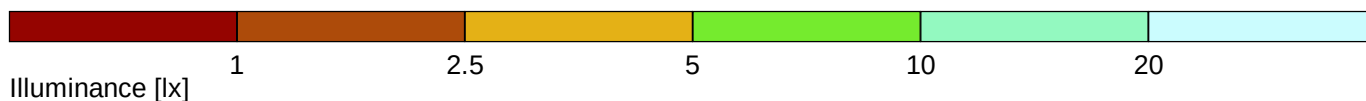
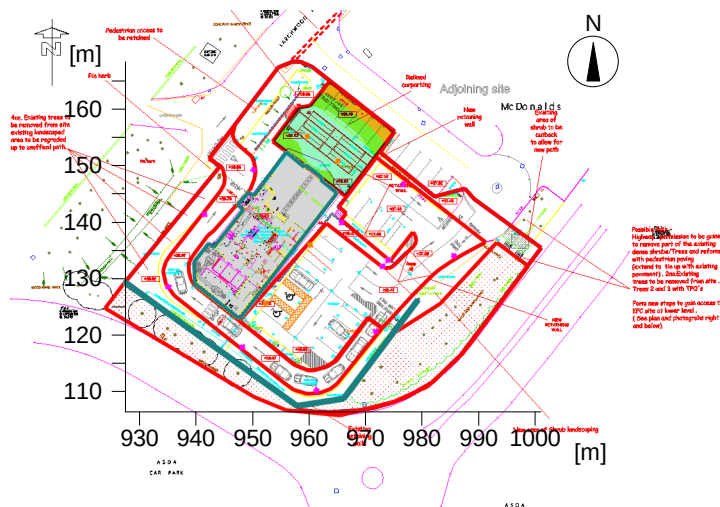
Type No. \Make

Fagerhult	
2	Order No. : 303342-479
4	Luminaire name : EVOLUME1.740.2300.CL1.CLO 4E1
	Equipment : 1 x LED 22 W / 2300 lm
3	Order No. : 303340-479
11	Luminaire name : EVOLUME1.740.1600.CL1.CLO 4E1
	Equipment : 1 x LED 16 W / 1600 lm

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LIGHTING DESIGN

2.1.3 Result overview, Front Car Park Area



Calculation algorithm used
Height of evaluation surface
Maintenance factor

Average indirect fraction

0.00 m

0.80

Total luminous flux of all lamps
Total power
Total power per area (2526.74 m²)

26800 lm

264 W

 0.10 W/m^2

Average illuminance	Eav	11 lx
Minimum illuminance	Emin	2.2 lx
Maximum illuminance	Emax	19.4 lx
Uniformity Uo	Emin/Em	1:4.91 (0.2)
Diversity Ud	Emin/Emax	1:8.66 (0.12)

Type No.\Make

A diagram of a rectangle divided into two parts by a vertical line. The left part is labeled '2' and the right part is labeled '4'.

Order No. : 303342-479
Luminaire name : EVOLUME1.740.2300.CL1.CLO 4E1
Equipment : 1 x LED 22 W / 2300 lm

A diagram of a rectangle divided into two parts by a vertical line. The left part is labeled '3' and the right part is labeled '11'.

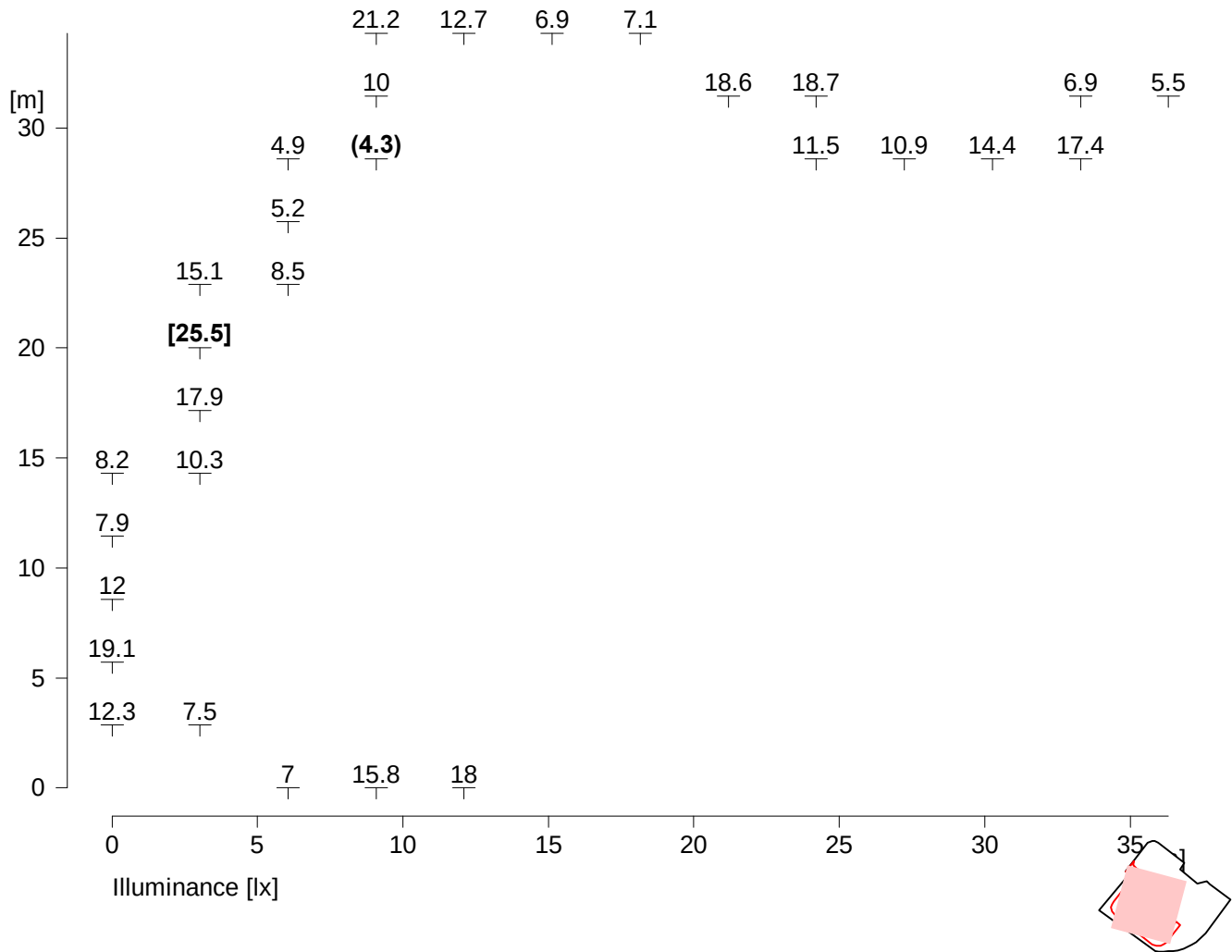
Order No. : 303340-479
Luminaire name : EVOLUME1.740.1600.CL1.CLO 4E1
Equipment : 1 x LED 16 W / 1600 lm

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2 Exterior 1

2.2 Calculation results, Exterior 1

2.2.1 Table, Drive Through (E)

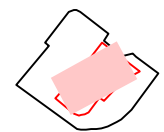
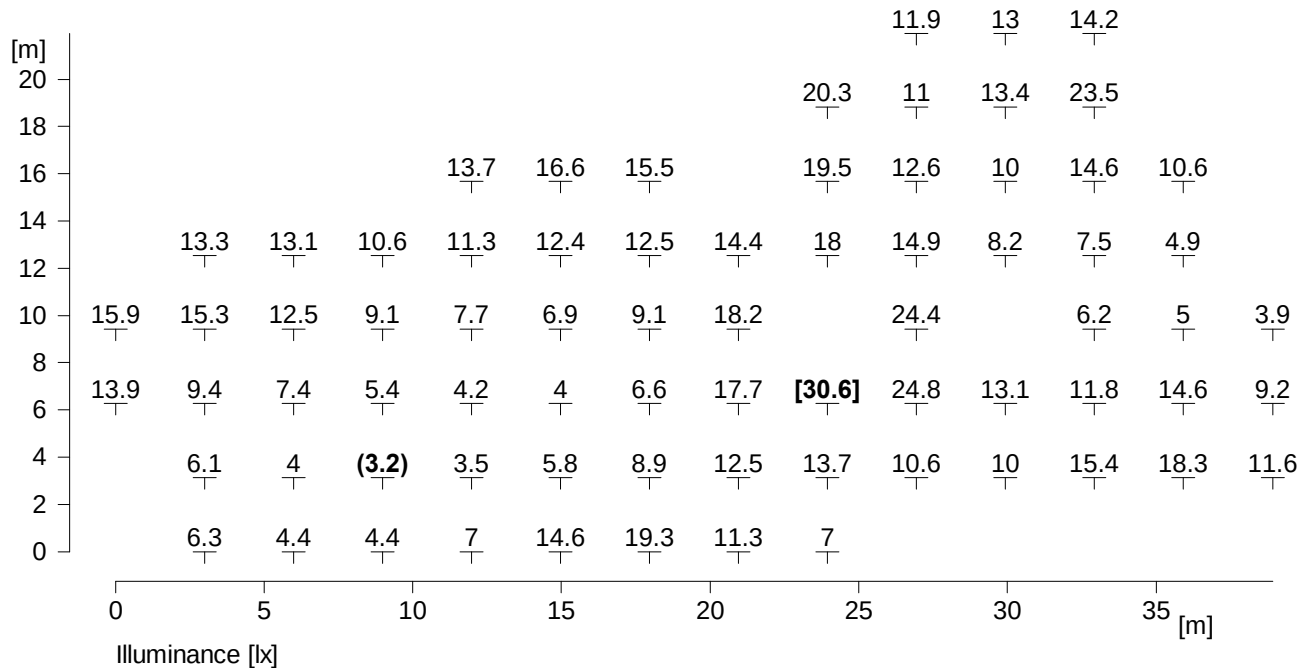


Height of the reference plane

Average illuminance	Eav	: 0.00 m
Minimum illuminance	Emin	: 4.3 lx
Maximum illuminance	Emax	: 25.5 lx
Uniformity Uo	Emin/Eav	: 1 : 2.82 (0.36)
Diversity Ud	Emin/Emax	: 1 : 5.96 (0.17)

2.2 Calculation results, Exterior 1

2.2.2 Table, Car Park (E)

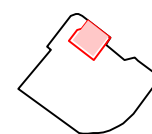
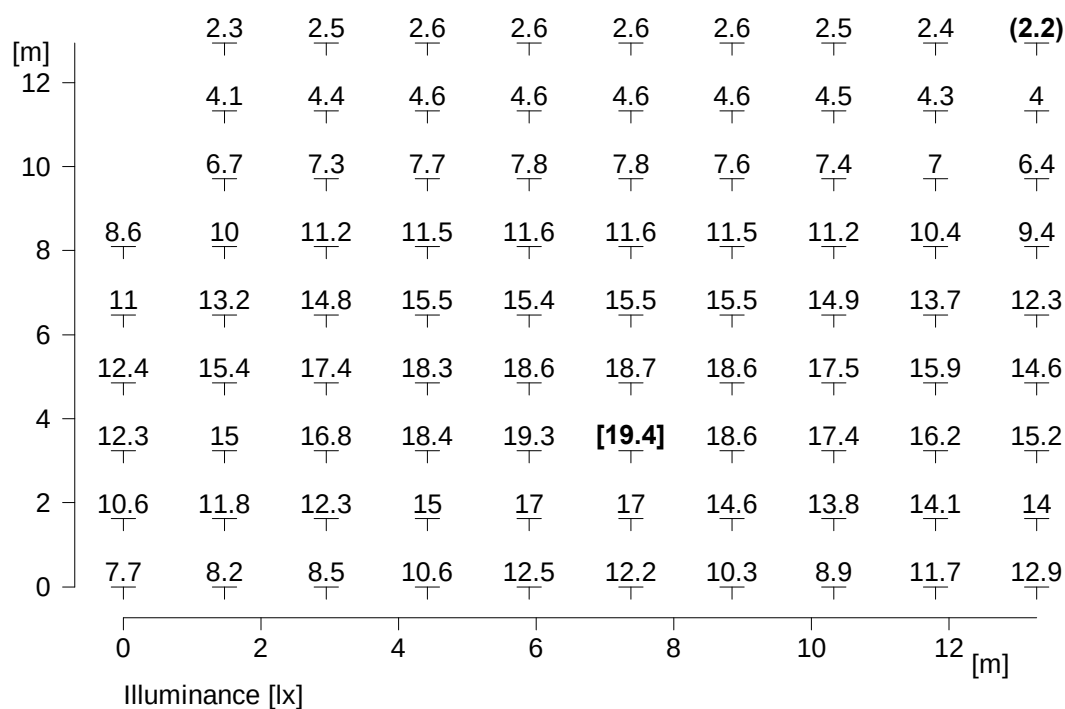


Height of the reference plane

		: 0.00 m
Average illuminance	Eav	: 11.7 lx
Minimum illuminance	Emin	: 3.2 lx
Maximum illuminance	Emax	: 30.6 lx
Uniformity Uo	Emin/Eav	: 1 : 3.71 (0.27)
Diversity Ud	Emin/Emax	: 1 : 9.71 (0.10)

2.2 Calculation results, Exterior 1

2.2.3 Table, Front Car Park Area (E)



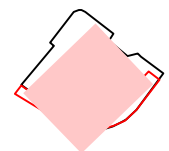
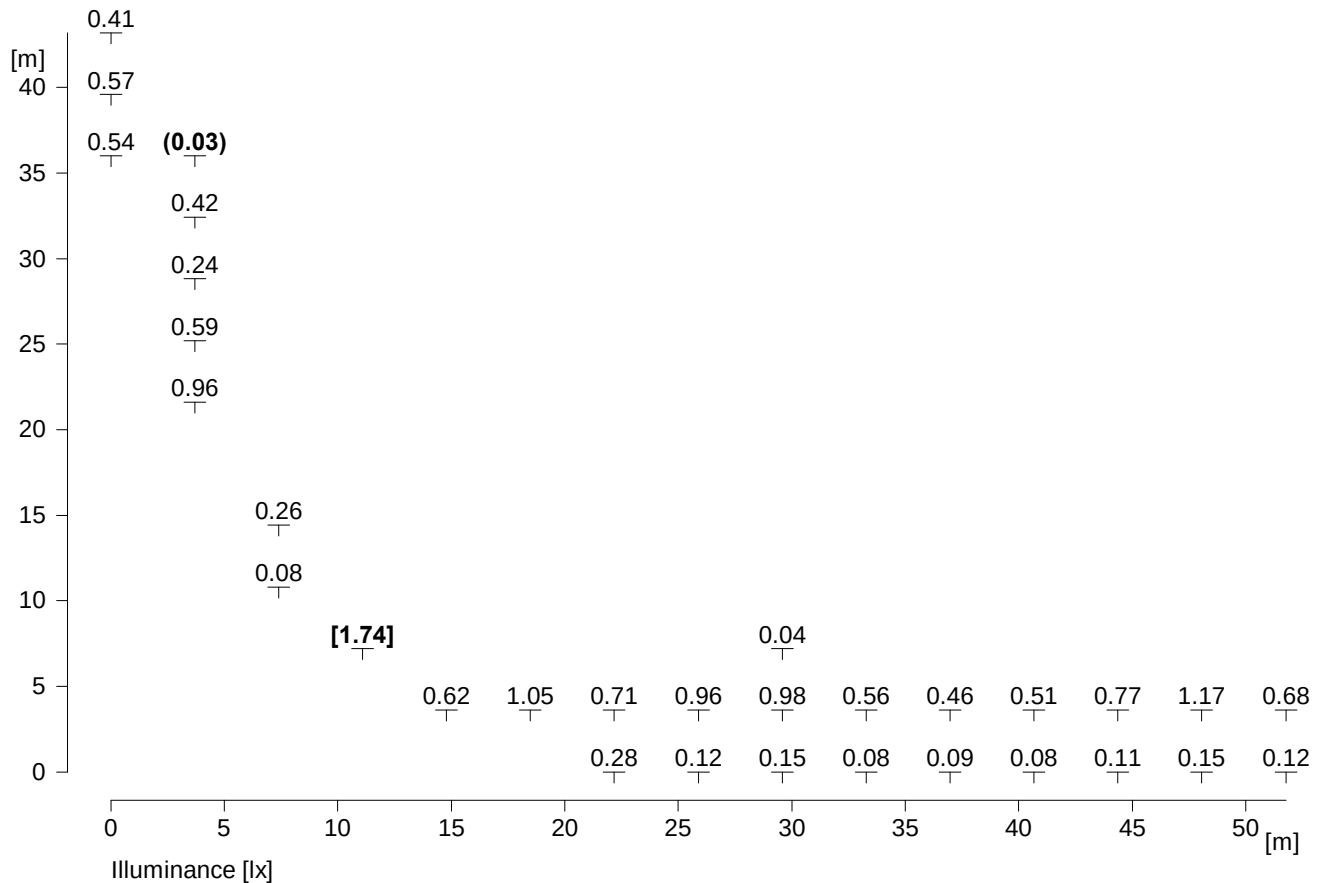
Height of the reference plane

Average illuminance
 Minimum illuminance
 Maximum illuminance
 Uniformity U₀
 Diversity U_d

E_{av} : 11 lx
 E_{min} : 2.2 lx
 E_{max} : 19.4 lx
 E_{min}/E_{av} : 1 : 4.91 (0.20)
 E_{min}/E_{max} : 1 : 8.66 (0.12)

2.2 Calculation results, Exterior 1

2.2.4 Table, Environmental Zone (E)



Height of the reference plane

Average illuminance	Eav	: 0.00 m
Minimum illuminance	Emin	: 0.49 lx
Maximum illuminance	Emax	: 0.03 lx
Uniformity Uo	Emin/Eav	: 1 : 18.92 (0.05)
Diversity Ud	Emin/Emax	: 1 : 67.94 (0.01)