



Forecourt

Installation : Anwick car sales

Project number : CAS901FORECOURTAB55623221541
Customer : Heckington MOT
Processed by : Alex Brown
Date : 06.08.2020

Project description:

This Design is Based on information received, All plans should be checked for dimensions before proceeding

Lighting levels have been based on SLL 2012 or light levels requested

all design information is based on the data given by the manufacture and processed using Relux.

If the customer requires a set maintenance factor, 7 Core Electrical Wholesale t/a Luxicore take no responsibility for the maintenance regime and can only guarantee the light levels to the degree specified by the manufacturer.

7 Core will see placement of the order as confirmation that the design has been fully checked and accepted, 7 Core will accept no liability but will offer full support on any orders placed.

All fittings offered are appropriate for the environment based on the information given

Emergency lighting is designed towards BS5266-1

Any emergency legends offered on the drawings are a suggestion and compliancy is the responsibility of the premises owner.

Area and intrusive lighting calculations are based around E3 (table 2) and ME3 (table 3) regulations layed out by the ILP

Assumptions made
use of area
reflectancy

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.

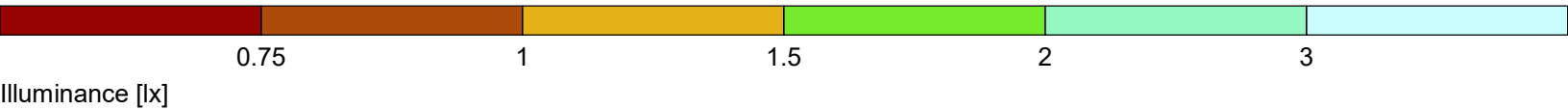
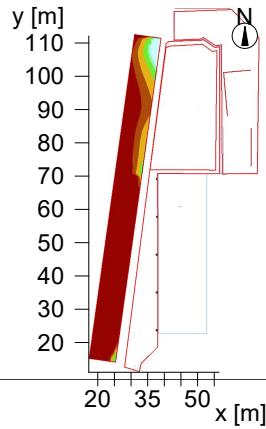
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1 Exterior 1(Copy of)

1.1 Summary, Exterior 1(Copy of)

1.1.1 Result overview, Road 1.1



General	
Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90
Total luminous flux of all lamps	66406 lm
Total power	478 W
Total power per area (1073.63 m ²)	0.45 W/m ² (29.22 W/m ² /100lx)

Illuminance		
Average illuminance	Em	1.5 lx
Minimum illuminance	Emin	0.1 lx
Maximum illuminance	Emax	66.8 lx
Uniformity U ₀	Emin/Em	1:15.9 (0.06)
Diversity U _d	Emin/Emax	1:696 (0)

Type No.\Make

Luxicore lighting

Order No. : LUXFLED100/ASY
 Luminaire name : FLOODLIGHTING - Asymmetrical LED Floodlight
 Equipment : 1 x LED single 840 94 W / 14835 lm



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LUXICORE
LIGHTING

1 Exterior 1(Copy of)

1.1 Summary, Exterior 1(Copy of)

1.1.1 Result overview, Road 1.1

3 3 Order No. : LUXFLED50/ASY
 Luminaire name : FLOODLIGHTING - LED Asymmetric Floodlight 50W
Equipment : 1 x LED single 840 50 W / 6727 lm

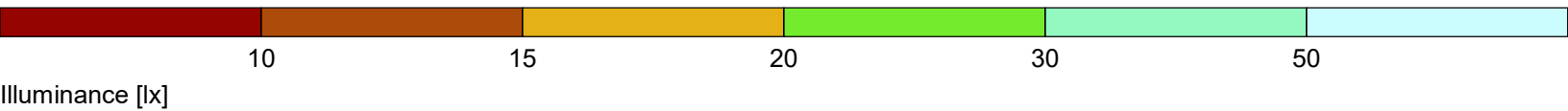
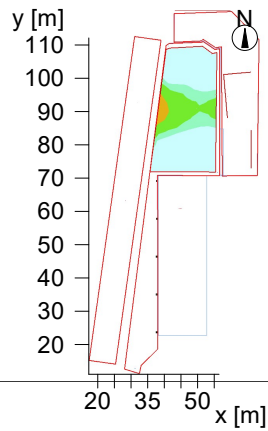
Luxicore Lighting

2 5 Order No. : LUXLED30FLC
 Luminaire name : LUXLED30FLC FLOODLIGHTING LED Polycarbonate Floodlight
Equipment : 1 x 28 W / 3311 lm

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1.1 Summary, Exterior 1(Copy of)


1.1.2 Result overview, Forecourt



General	
Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90
Total luminous flux of all lamps	66406 lm
Total power	478 W
Total power per area (1073.63 m ²)	0.45 W/m ²

Illuminance	
Average illuminance	Em 25 lx
Minimum illuminance	Emin 2 lx
Maximum illuminance	Emax 131 lx
Uniformity U ₀	Emin/Em 1:10.9 (0.09)
Diversity U _d	Emin/Emax 1:58 (0.02)

Type No.\Make

1	2	Luxicore lighting
		Order No. : LUXFLED100/ASY
		Luminaire name : FLOODLIGHTING - Asymmetrical LED Floodlight
		Equipment : 1 x LED single 840 94 W / 14835 lm


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LUXICORE
LIGHTING

1.1 Summary, Exterior 1(Copy of)

1.1.2 Result overview, Forecourt

3 3 Order No. : LUXFLED50/ASY
 Luminaire name : FLOODLIGHTING - LED Asymmetric Floodlight 50W
Equipment : 1 x LED single 840 50 W / 6727 lm

Luxicore Lighting

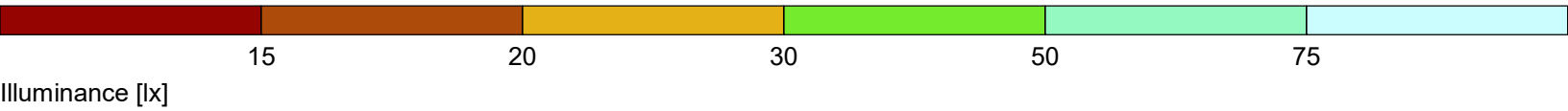
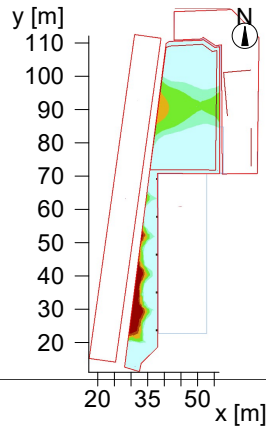
2 5 Order No. : LUXLED30FLC
 Luminaire name : LUXLED30FLC FLOODLIGHTING LED Polycarbonate Floodlight
Equipment : 1 x 28 W / 3311 lm

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1.1 Summary, Exterior 1(Copy of)

1.1.3 Result overview, Evaluation area 1



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.90
Total luminous flux of all lamps	66406.00 lm
Total power	478.0 W
Total power per area (1073.62 m ²)	0.45 W/m ² (1.57 W/m ² /100lx)

Evaluation area 1	Reference plane 1.1
	Horizontal
Em	28.3 lx
Emin	0.6 lx
Emin/Em (Uo)	0.02
Emin/Emax (Ud)	0.00
Position	0.00 m

Type No.\Make




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LIGHTING

1.1 Summary, Exterior 1(Copy of)

1.1.3 Result overview, Evaluation area 1

		Luxicore lighting	
1	2	Order No.	: LUXFLED100/ASY
		Luminaire name	: FLOODLIGHTING - Asymmetrical LED Floodlight
		Equipment	: 1 x LED single 840 94 W / 14835 lm
3	3	Order No.	: LUXFLED50/ASY
		Luminaire name	: FLOODLIGHTING - LED Asymmetric Floodlight 50W
		Equipment	: 1 x LED single 840 50 W / 6727 lm
		Luxicore Lighting	
2	5	Order No.	: LUXLED30FLC
		Luminaire name	: LUXLED30FLC FLOODLIGHTING LED Polycarbonate Floodlight
		Equipment	: 1 x 28 W / 3311 lm

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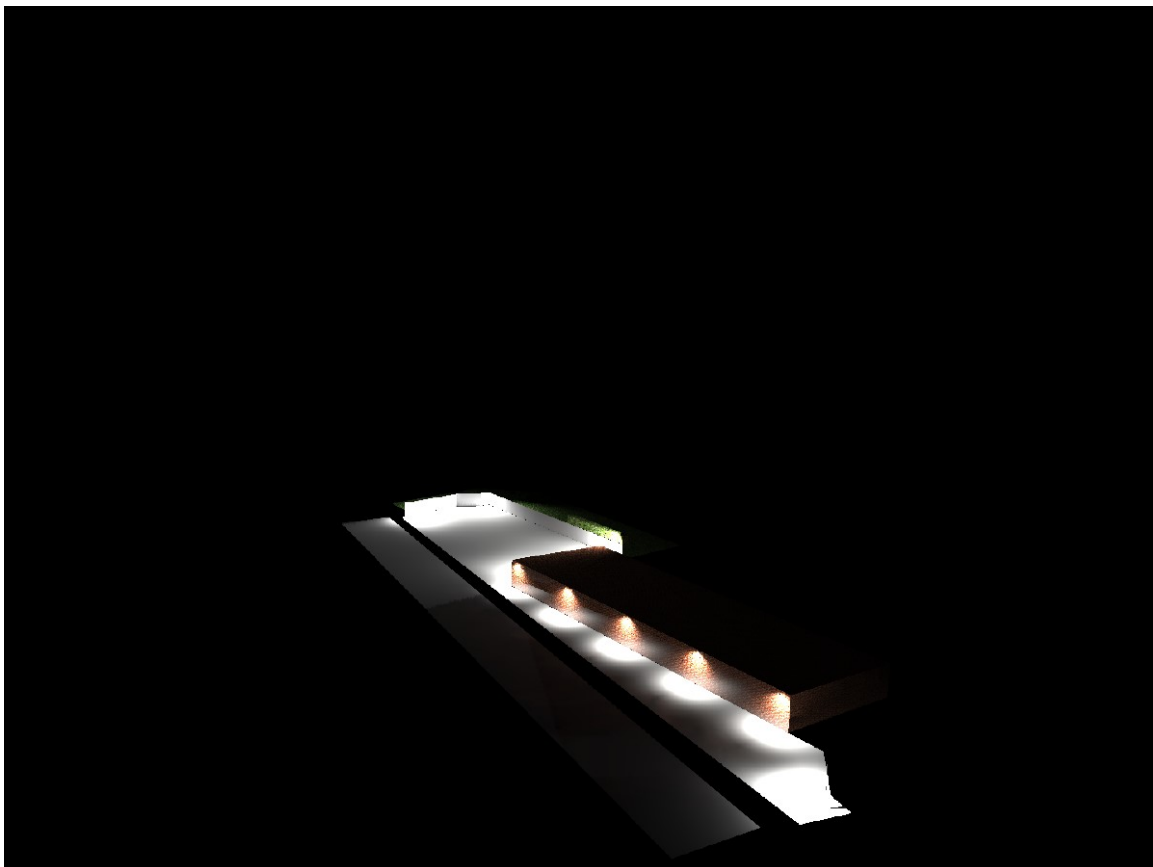


LUXICORE
LIGHTING

1 Exterior 1(Copy of)

1.2 Calculation results, Exterior 1(Copy of)

1.2.1 3D luminance (raytracing), Variable view



Luminance in the illustration:

Minimum: : 0 cd/m²

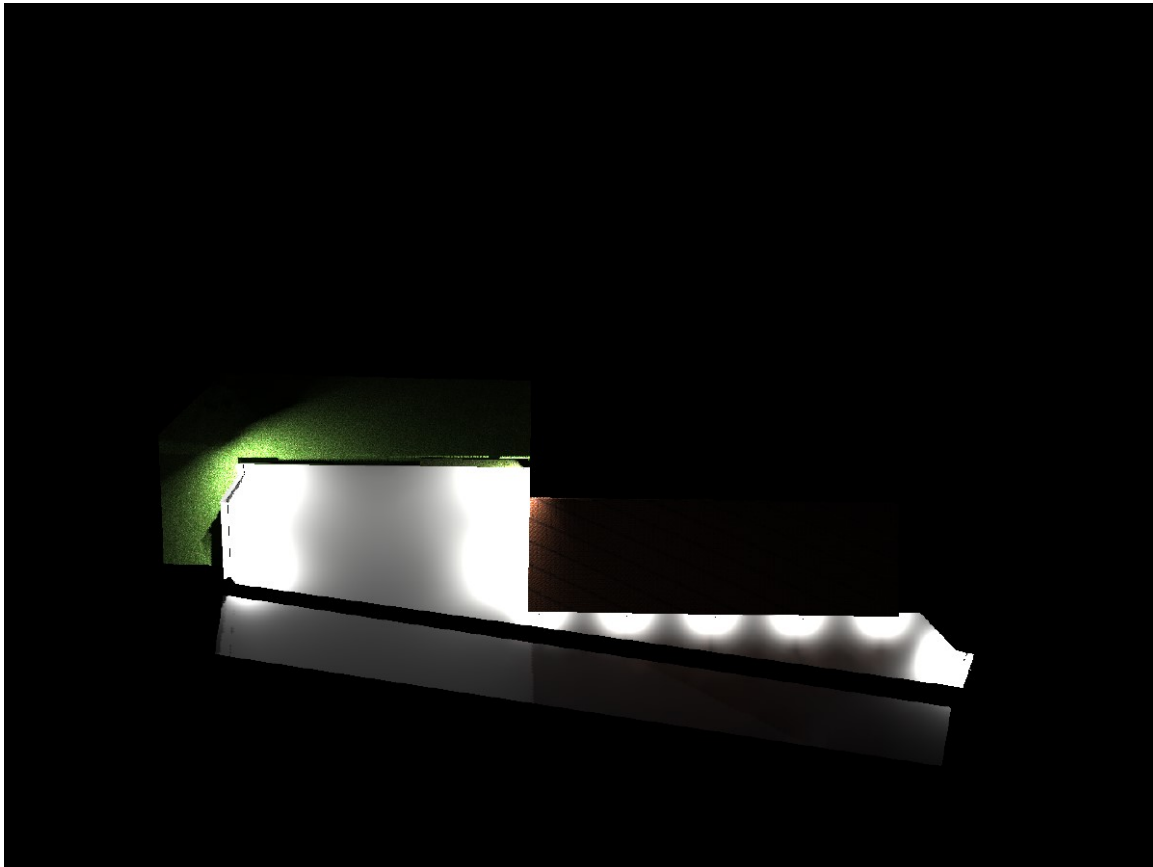
Maximum: : 865 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections

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1.2 Calculation results, Exterior 1(Copy of)

1.2.2 3D luminance (raytracing), View from above



Luminance in the illustration:

Minimum: : 0 cd/m²
Maximum: : 987 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections