

Castle Lodge Care Home, Warminster

Installation : External

Project number : OP23000194

Customer : Robert Anstee

Processed by : Emma Marx

Date : 09.12.2024

Project description:

Aurora Lighting UK Limited (Aurora) Complementary Design Service

Aurora is pleased to offer your free lighting design as enclosed. All lighting designs are subject to this disclaimer, which should be read and understood, with any questions being raised with us at the earliest opportunity.

Disclaimer

- Due to the high probability that actual site conditions may differ from those known at the design stage, it is the responsibility of the client or contractor to verify that the design meets all general and specific requirements before final acceptance and implementation.
- All designs are reviewed for evaluation purposes based solely on the drawings and information provided by the contractor/client at the time of submission. It is the sole responsibility of the contractor/client to ensure that the design and installation comply with all relevant building regulations, including but not limited to, the local fire department, building planning control, British Standards, and health and safety regulations. In the event it is determined that the design does not comply with any such regulations, Aurora may consult with the contractor/client to make any necessary adjustments, at the contractor/client's sole cost and expense.
- It is expected that the contractor/client has carried out all necessary on-site risk assessments to ensure high-risk or abnormal conditions are addressed in the supplied brief.
- Unless otherwise specified in writing, any lighting design by Aurora will assume the following:
Lighting Standards: The area will be lit according to the relevant BS _CIBSE guidelines, using a luminaire arrangement that considers both the purpose and any commercial considerations.
Room Reflectance's: 70/50/20 as standard. Unless otherwise advised.
Illuminance Levels: Applied in accordance with BS _CIBSE guidelines.
Maintenance Factor: 0.8 for Internal. Unless otherwise advised.

The use of the lighting design provided by Aurora is entirely at the contractor's /client's sole risk. Aurora does not warrant and shall not be liable for the accuracy of any designs or information contained within the lighting design. Aurora makes no express warranties and disclaims all other warranties, whether implied or statutory. Aurora excludes all liability for any claim arising from the supply, installation according to the lighting design and compliance with applicable regulations.

The lighting design service offered by Aurora is free of charge. By requesting Aurora to provide a lighting design, the contractor/client accepts this disclaimer and its contents, to the exclusion of all other terms, warranties or conditions that any third party seeks to impose or incorporate, or which are implied by law, trade custom, practice or course of dealing. On acceptance of a lighting design, and quotation, any lighting design service will also be subject to Aurora's standard terms.

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.

Emma Marx - Lighting Design Manager (emma.marx@auroralighting.com)
Aurora Lighting - Apex Park, 6 Little Burrow, Burrowfield, Welwyn Garden City, AL7 4SW

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1 Luminaire data

1.1 Aurora, IP66 IK08 975mm(H) Boll... (Fusain Bollard ...)

1.1.1 Data sheet

Manufacturer: Aurora

Fusain Bollard 975mm **bollard / pole mounted luminaires** **IP66 IK08 975mm(H) Bollard CCT**

Watts: 25
CCT: 3000/4000/5000K
Lumens: 2300/2500/2420
CRI: 80
Class: 1
IP66
IK08

100343 (4000K)

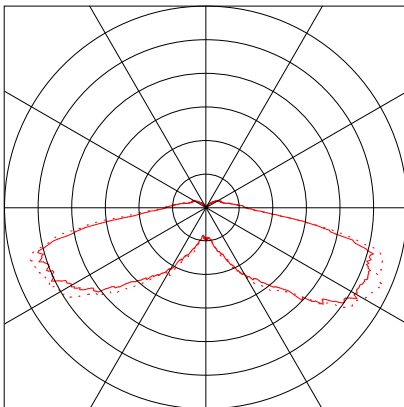
Luminaire data

Absolute Photometry
Luminaire efficacy : 100 lm/W
Classification : B11 ↓ 89.6% ↑ 10.4%
CIE Flux Codes : 15 44 80 90 100
UGR 4H 8H : 35.9 / 36.2
Control gear : LED driver incorporated
Power : 25 W
Luminous flux : 2500 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 4000K
Colour reproduction : 80

Dimensions : Ø133 mm x 975 mm



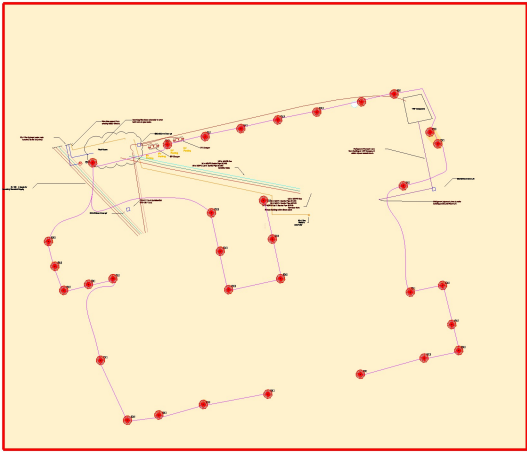


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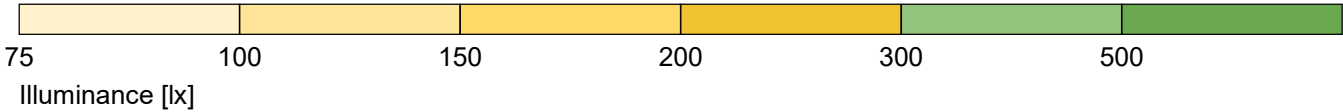
2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



120 130 140 150 160 170 180 190 200 210 220 x [m]



General

Calculation algorithm used	High indirect fraction
Height (phot centre)	0.98 m
Maintenance factor	0.75
Total luminous flux	82500.00 lm
Total power	825.0 W
Total power per area (8500.00 m²)	0.10 W/m² (1.51 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
$\bar{E}_m$	6.43 lx
E_{min}	0.01 lx
$E_{min}/\bar{E}_m (U_o)$	0.00
$E_{min}/E_{max} (U_d)$	0.00
Position	0.00 m

Type No. \ Make

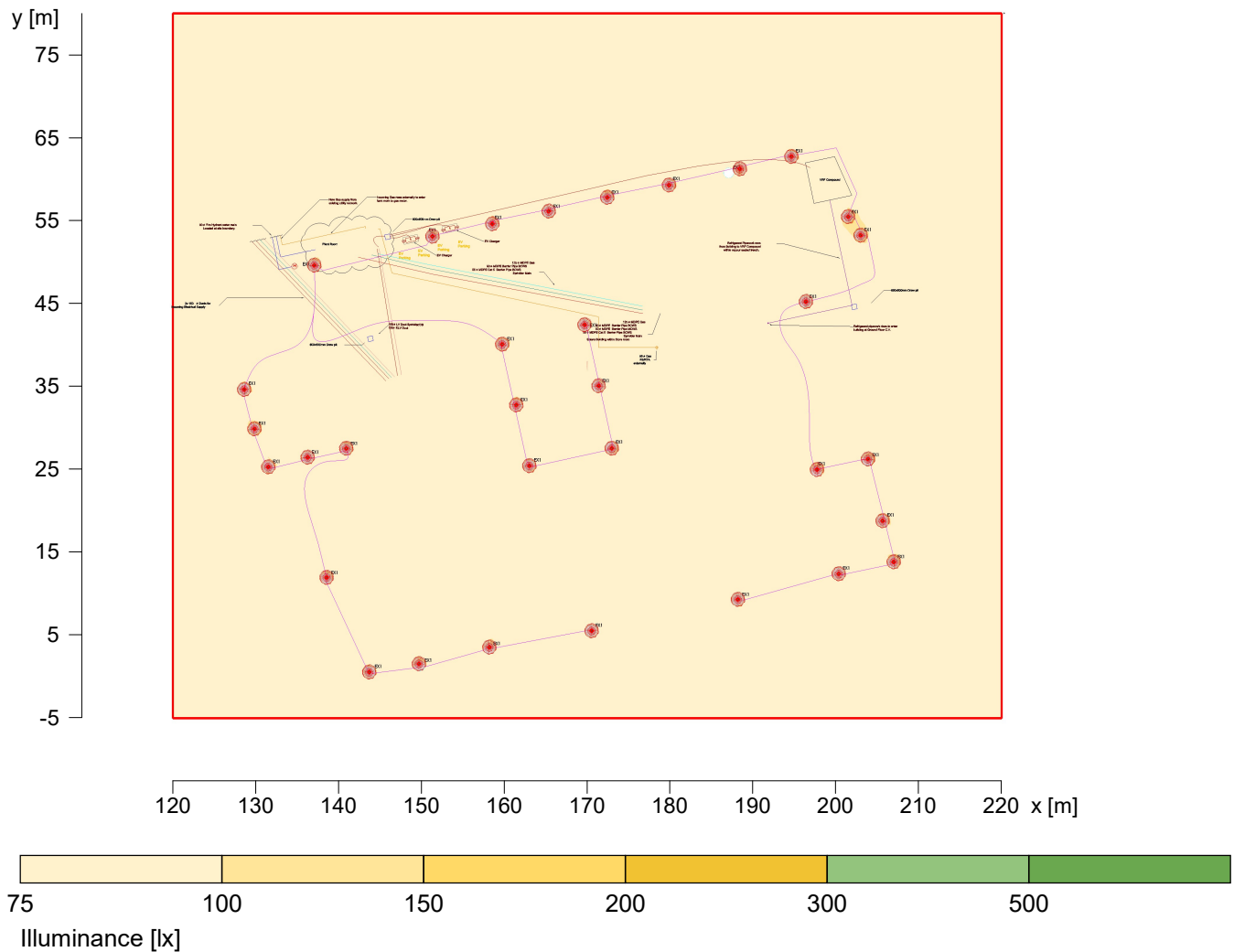
1	33 x	Aurora	
		Order No.	: Fusain Bollard 975mm/100343 (4000K)
		Luminaire name	: IP66 IK08 975mm(H) Bollard CCT
		Equipment	: 1 x LED 25 W / 2500 lm

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2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Pseudo colours, Reference plane 1.1 (E)

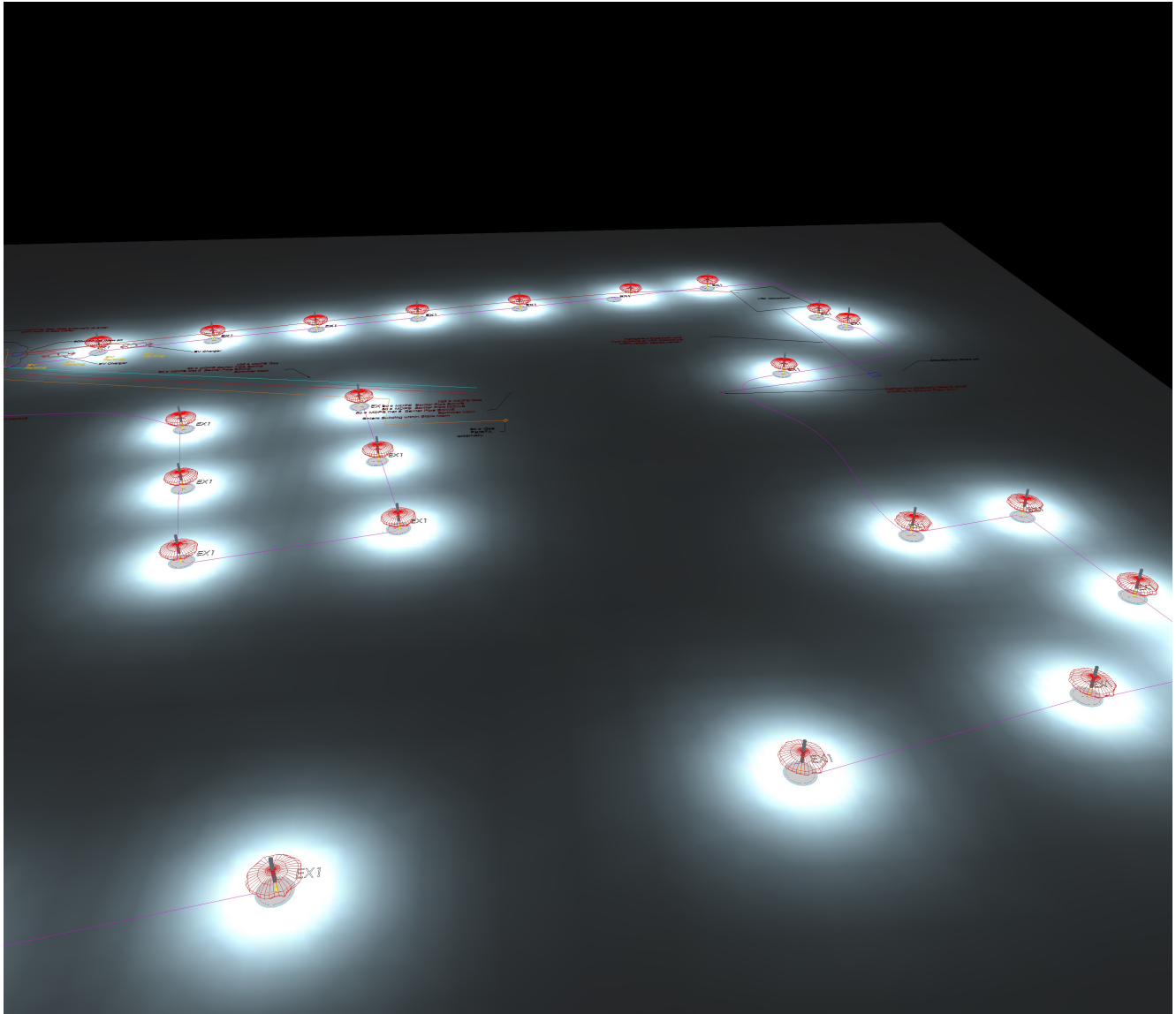


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 6 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 143 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 464.29 (0.00)

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2.3 Calculation results, Exterior 1

2.3.2 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 7.13 cd/m²