



Dalton Avenue Fallowfield

Installation : Proposed New Lighting

Project number : QUO-323420-13OZNS

Customer :

Processed by : Ben Fok

Date : 09.12.2025

Project description:

All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance values as 70/50/20 and Maintenance Factor .8.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.

Please refer to the PDF's attached on the email for disclaimers and assumptions for this design.

Note(s):

1) This design is a point for point design that is using a lighting layout provided by the customer. This design is for reviewing purposes only and must be checked before ordering.

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 ANSELL, BULKHEADS - Delta 2 BI... (!ADLED2/BV/CCT/...)

1.1.1 Data sheet

Manufacturer: ANSELL



!ADLED2/BV/CCT/MWS (12W 4000K) Ceiling mounted luminaire BULKHEADS - Delta 2 Black 4000K
ADLED2/BV/CCT - CW
AMENITY
Delta LED

- All polycarbonate multi-purpose LED round bulkhead
- LED performance exceeds CFL equivalents
- Push fit feed-in, feed-out terminals for speed and ease of installation
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K
- Supplied c/w optional trim attachment which provides a more commercially aesthetic appearance
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours

Options

/PC Electronic Photocell
/M3 Emergency (14W only)
/MWS Integral Microwave Sensor (14W standard model only)
/MWS/M3 Integral Microwave Sensor and Emergency (14W only)

Accessories

ADLED2/BZ/EYE/B Black Eyelid Bezel Trim (14W Only)
ADLED2/BZ/EYE/W White Eyelid Bezel Trim (14W Only)
ADLED2/BZ/GRILL/B Black Louvred Bezel Trim (14W Only)
ADLED2/BZ/GRILL/W White Louvred Bezel Trim (14W Only)

Operating Temp -10°C to 25°C

- Suitable for both internal and external use
- 5 Year Product Warranty
- IP65

Luminaire data

Absolute Photometry
Luminaire efficacy : 137.68 lm/W
Classification : A41 ↓95.7% ↑4.3%
CIE Flux Codes : 47 77 94 96 101
UGR 4H 8H : 21.3 / 21.5
Control gear : Electronic ballast
Power : 12 W
Luminous flux : 1652.2 lm

Dimensions : Ø290 mm x 70 mm

Equipped with

Quantity : 1
Designation : LED
Colour :
Socket : --

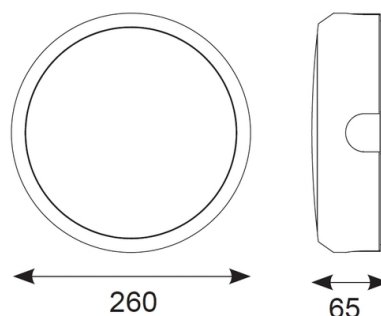
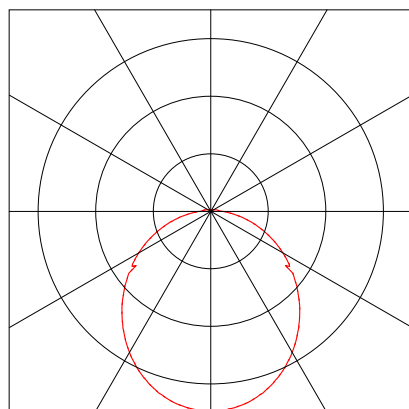
Object : Dalton Avenue Fallowfield
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1 Luminaire data

1.1 ANSELL, BULKHEADS - Delta 2 BI... (!ADLED2/BV/CCT/...)

1.1.1 Data sheet



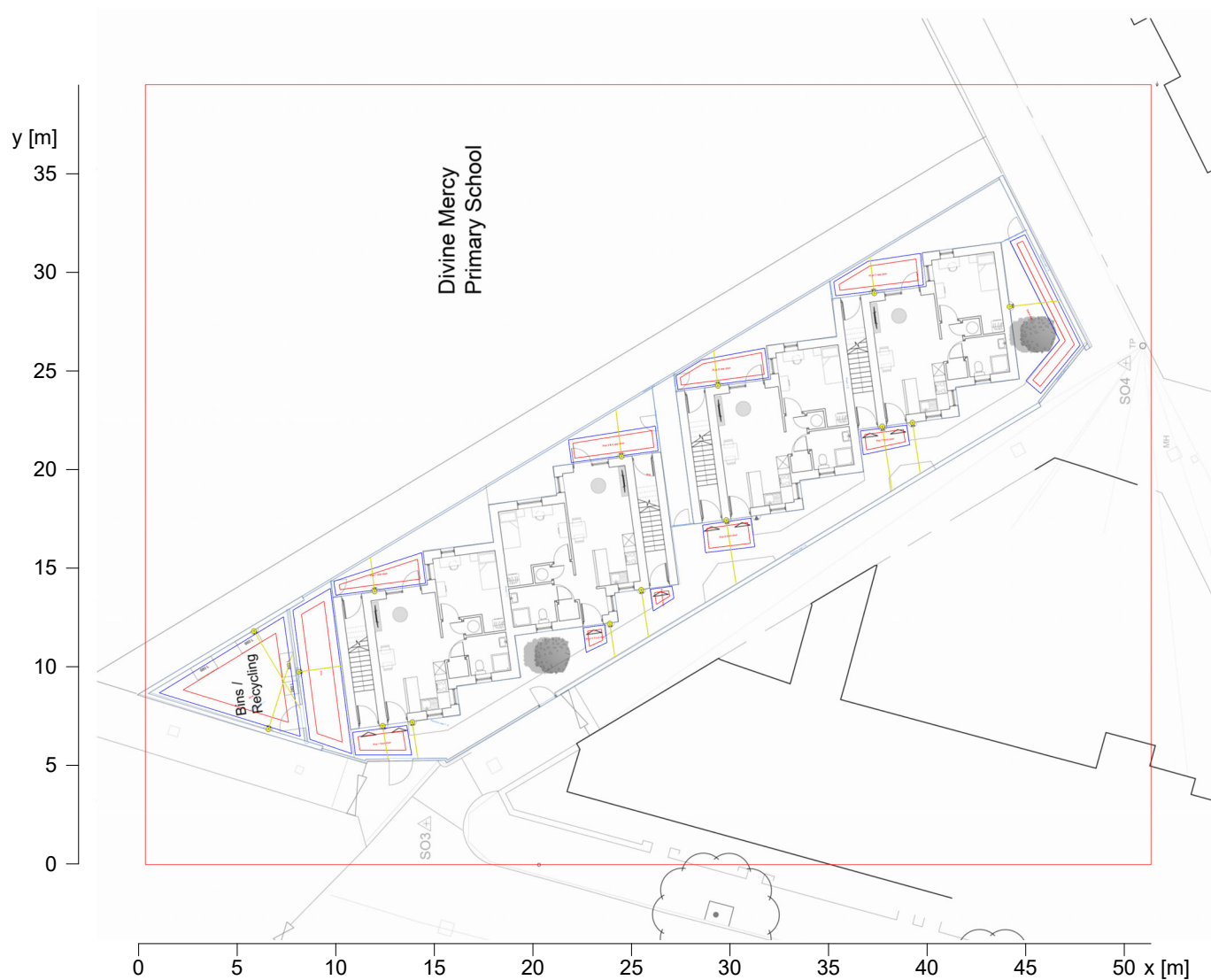
Object : Dalton Avenue Fallowfield
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2 Exterior

2.1 Description, Exterior

2.1.1 Floor plan



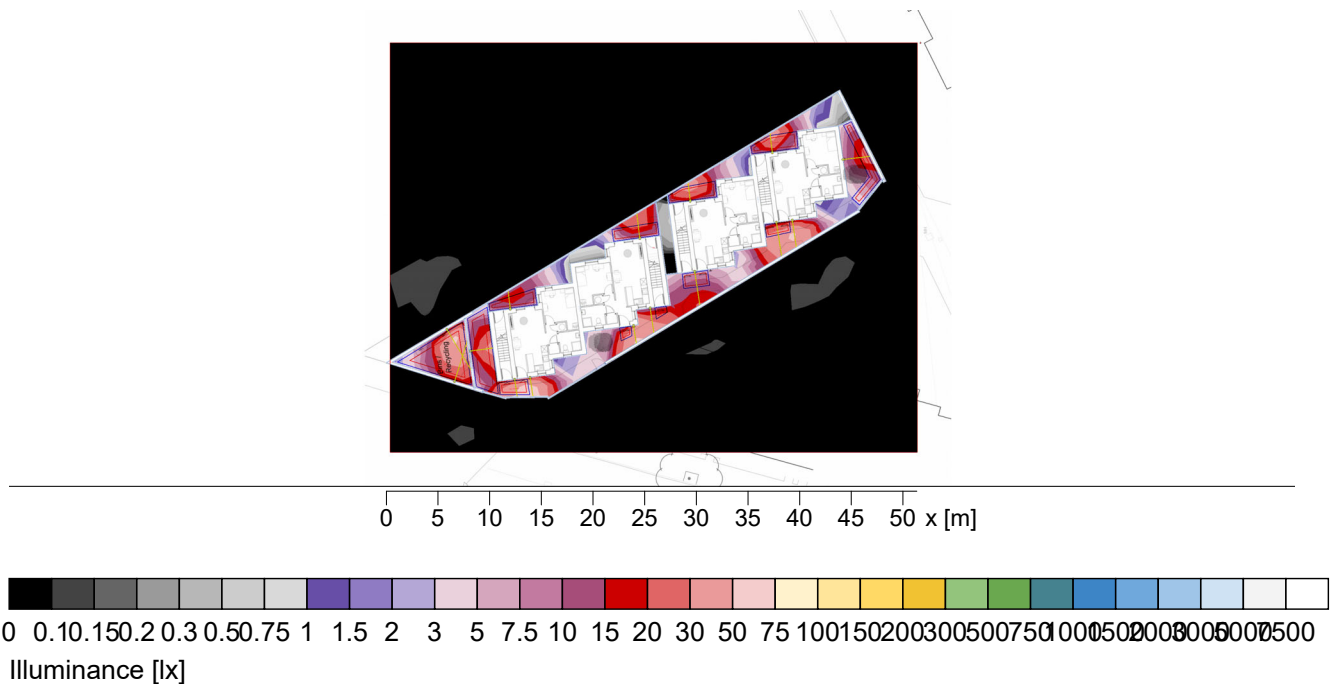
Object : Dalton Avenue Fallowfield
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2 Exterior

2.2 Summary, Exterior

2.2.1 Result overview, Site



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	24783.20 lm
Total power	180.0 W
Total power per area (2014.50 m²)	0.09 W/m² (5.70 W/m²/100lx)

Site

	Site
$\bar{E}_m$	Horizontal
E_{min}	1.57 lx
$E_{min}/\bar{E}_m (U_o)$	0 lx
$E_{min}/E_{max} (U_d)$	---
Position	---
	0.00 m

Type No. Make

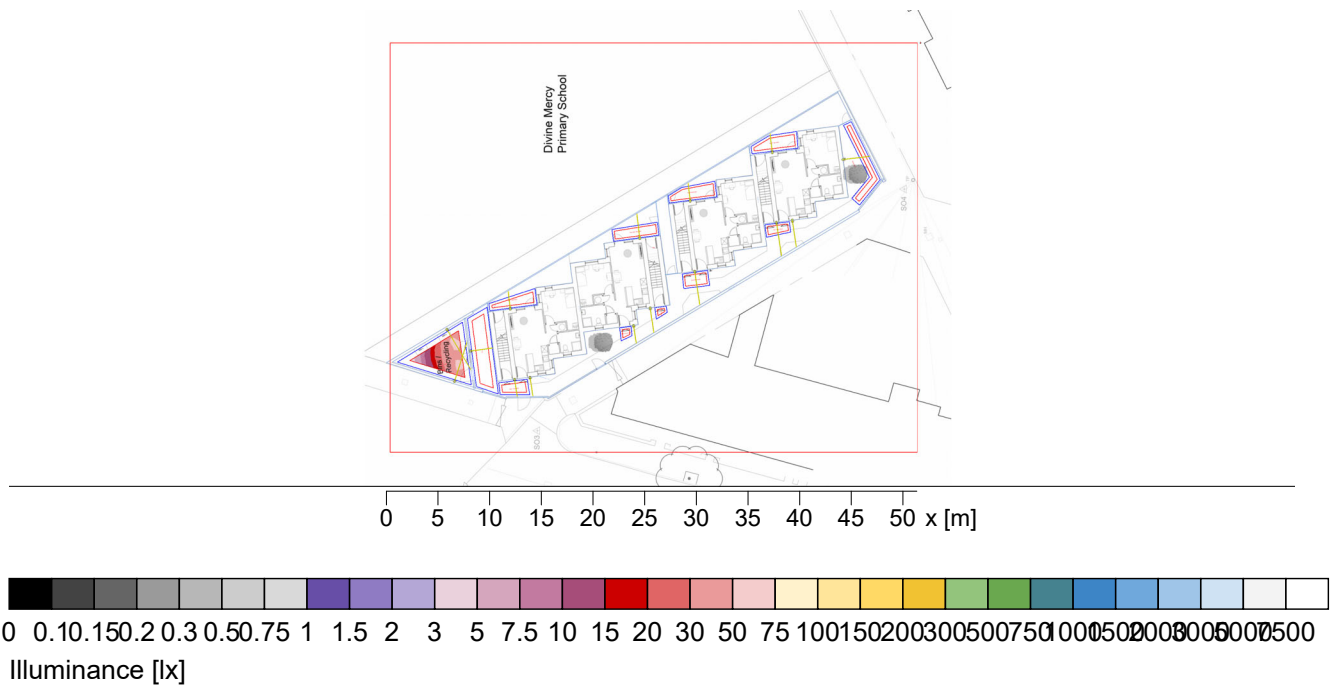
1	15 x	ANSELL
	Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
	Luminaire name	: BULKHEADS - Delta 2 Black 4000K
	Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.2 Result overview, Bins



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	0.00 lm

Bins

$\bar{E}_m$	Horizontal
E_{min}	33.2 lx
$E_{min}/\bar{E}_m (U_o)$	5 lx
$E_{min}/E_{max} (U_d)$	0.15
Position	0.09
	0.00 m

Type No.\Make

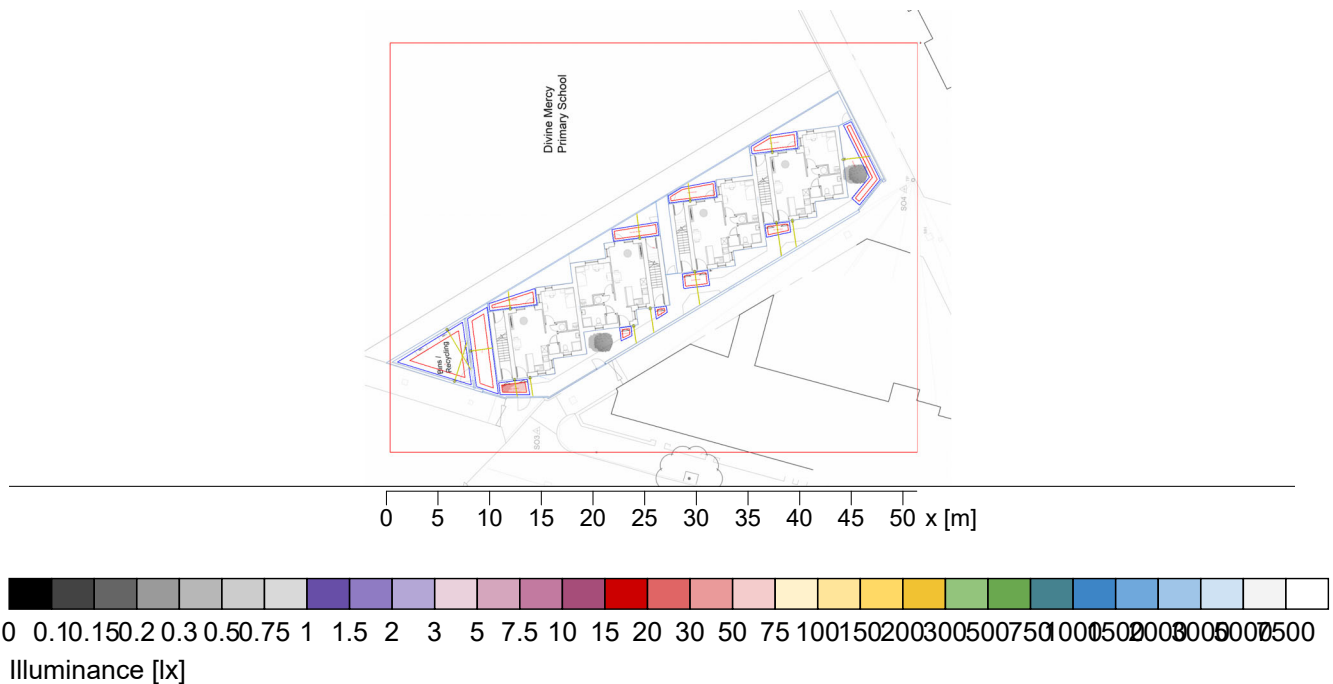
1	15 x	ANSELL
	Order No.	: !ADLED2/BV/CCT/MWS (12W 4000K)
	Luminaire name	: BULKHEADS - Delta 2 Black 4000K
	Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.3 Result overview, Plot 1 front door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	0.00 lm

Plot 1 front door

	Horizontal
$\bar{E}_m$	54.2 lx
E_{min}	24.5 lx
$E_{min}/\bar{E}_m (U_o)$	0.45
$E_{min}/E_{max} (U_d)$	0.32
Position	0.00 m

Type No.\Make

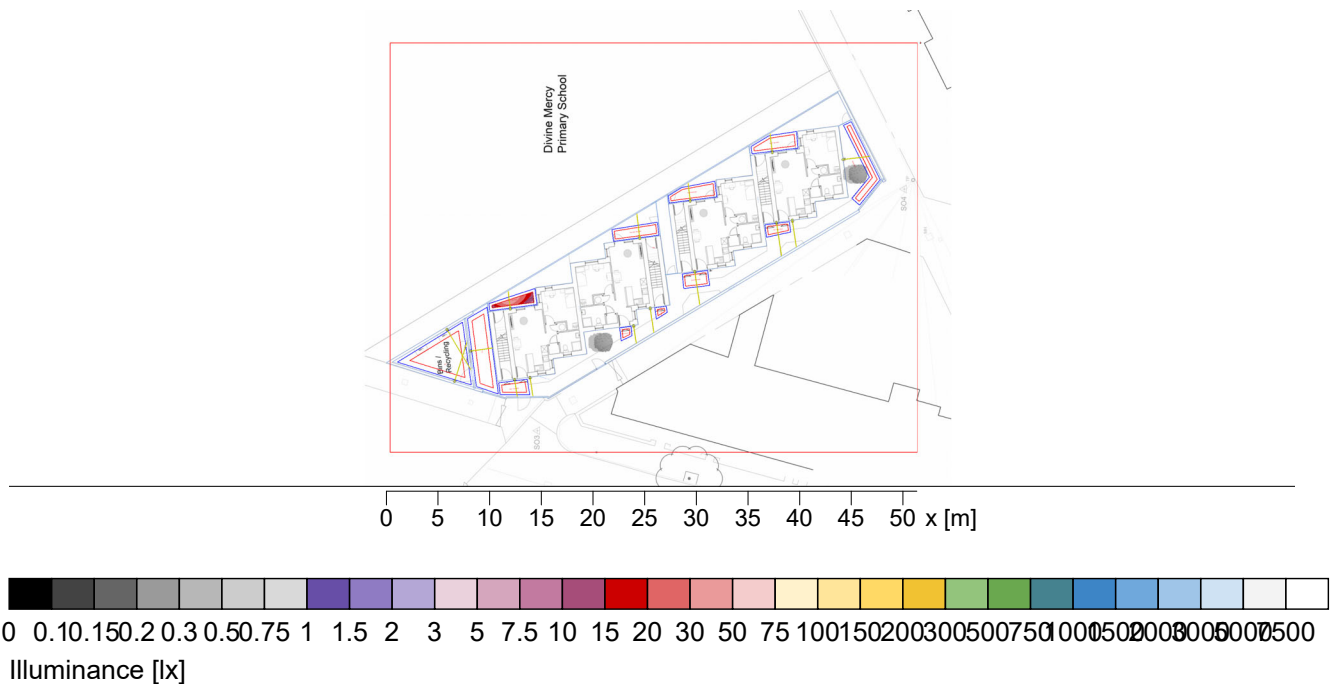
1	15 x	ANSELL	
		Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.4 Result overview, Plot 1 rear door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	1652.21 lm
Total power	12.0 W
Total power per area (5.22 m²)	2.30 W/m² (9.97 W/m²/100lx)

Plot 1 rear door

	Plot 1 rear door
	Horizontal
$\bar{E}_m$	23.1 lx
E_{min}	9.3 lx
$E_{min}/\bar{E}_m (U_o)$	0.40
$E_{min}/E_{max} (U_d)$	0.22
Position	0.00 m

Type No. \Make

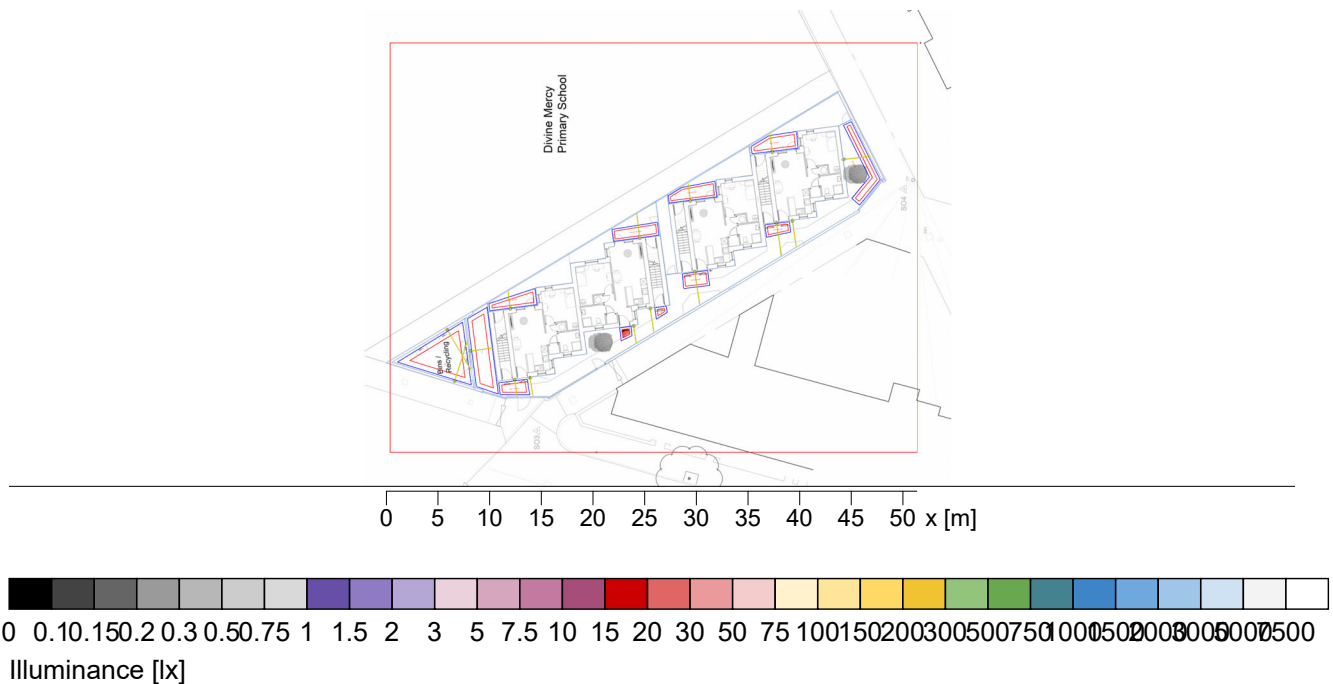
1	1 x	ANSELL	
		Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.5 Result overview, PLOT 3 Front door



General

Calculation algorithm used : Average indirect fraction
 Maintenance factor : 0.80
 Luminaire luminous flux : 0.00 lm

PLOT 3 Front door

$\bar{E}_m$: 25 lx
 E_{min} : 15.5 lx
 $E_{min}/\bar{E}_m (U_o)$: 0.62
 $E_{min}/E_{max} (U_d)$: 0.43
 Position : 0.00 m

PLOT 3 Front door

Horizontal

Type No. \ Make

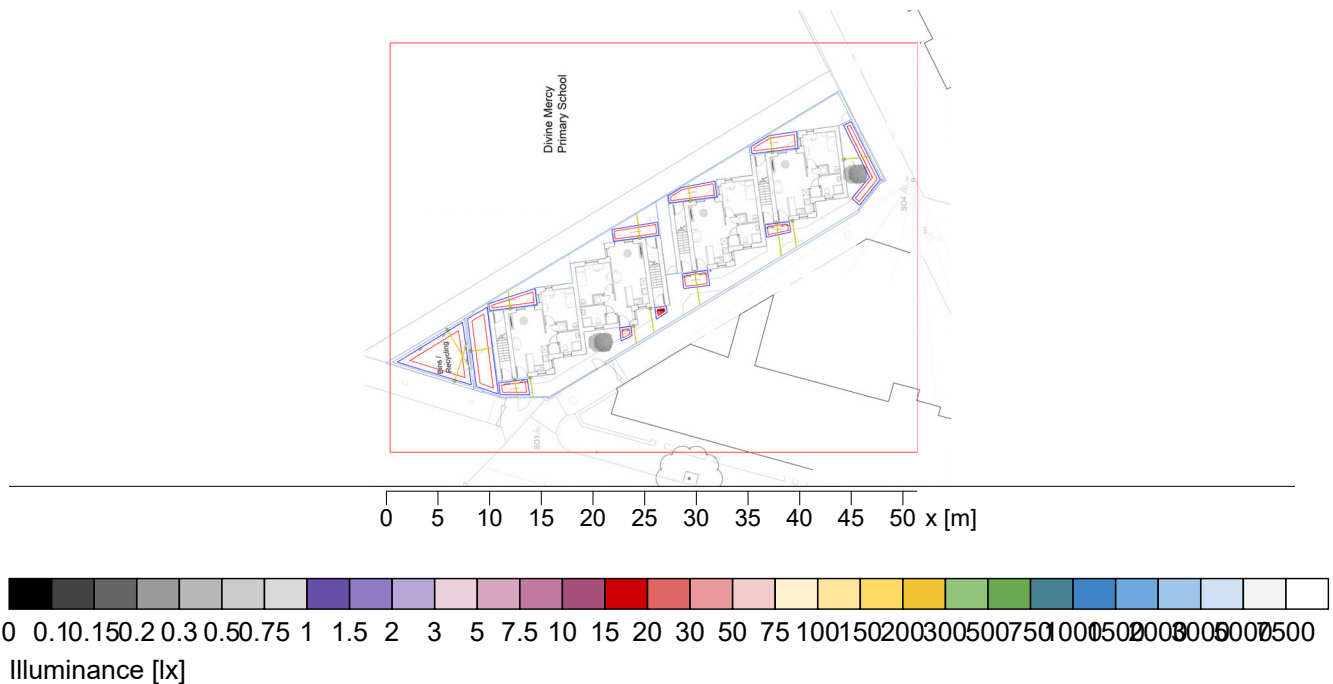
1 15 x **ANSELL**
 Order No. : !ADLED2/BV/CCT/MWS (12W 4000K)
 Luminaire name : BULKHEADS - Delta 2 Black 4000K
 Equipment : 1 x LED 12 W / 1636 lm

Object : Dalton Avenue Fallowfield
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2.2 Summary, Exterior

2.2.6 Result overview, Plot 4 front door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	0.00 lm

Plot 4 front door

$\bar{E}_m$	Horizontal
E_{min}	21.5 lx
$E_{min}/\bar{E}_m (U_o)$	14.9 lx
$E_{min}/E_{max} (U_d)$	0.69
Position	0.46
	0.00 m

Type No.\Make

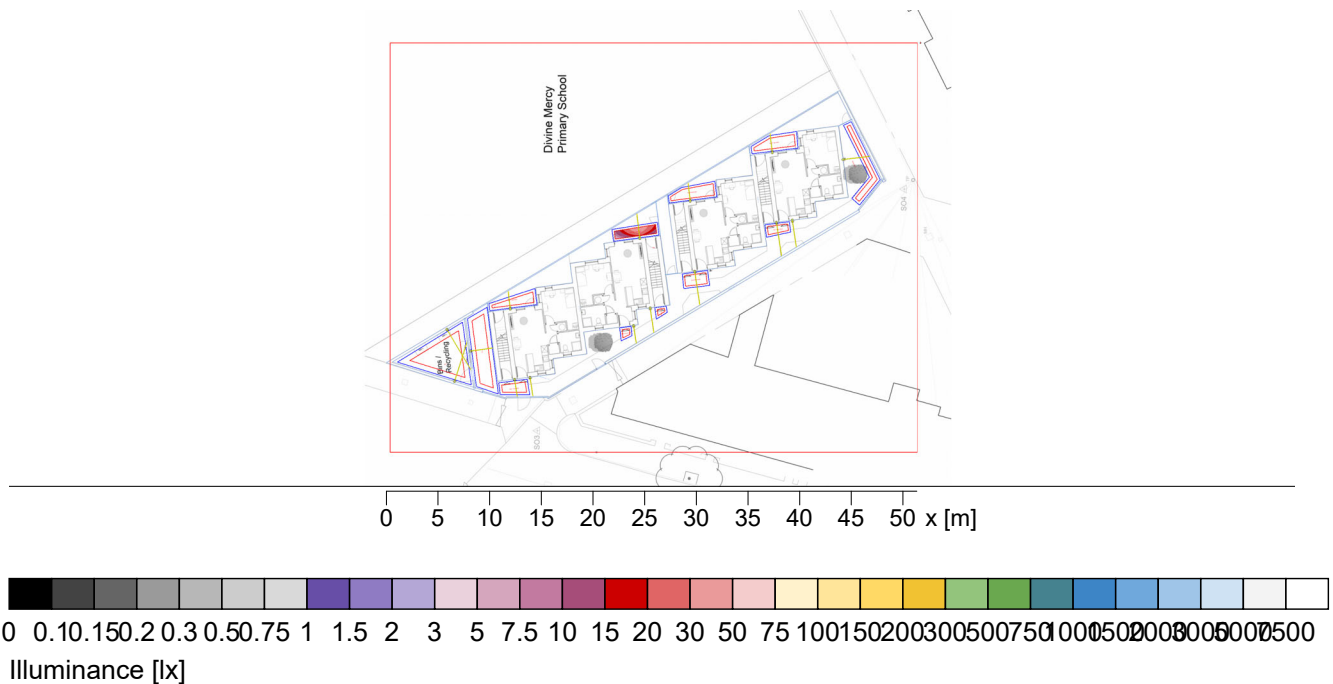
1	15 x	ANSELL
	Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
	Luminaire name	: BULKHEADS - Delta 2 Black 4000K
	Equipment	: 1 x LED 12 W / 1636 lm

Object : Dalton Avenue Fallowfield
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2.2 Summary, Exterior

2.2.7 Result overview, Plot 3 & 4 rear door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	1652.21 lm
Total power	12.0 W
Total power per area (5.38 m²)	2.23 W/m² (10.39 W/m²/100lx)

Plot 3 & 4 rear door

	Horizontal
$\bar{E}_m$	21.5 lx
E_{min}	5.9 lx
$E_{min}/\bar{E}_m (U_o)$	0.27
$E_{min}/E_{max} (U_d)$	0.14
Position	0.00 m

Type No. \Make

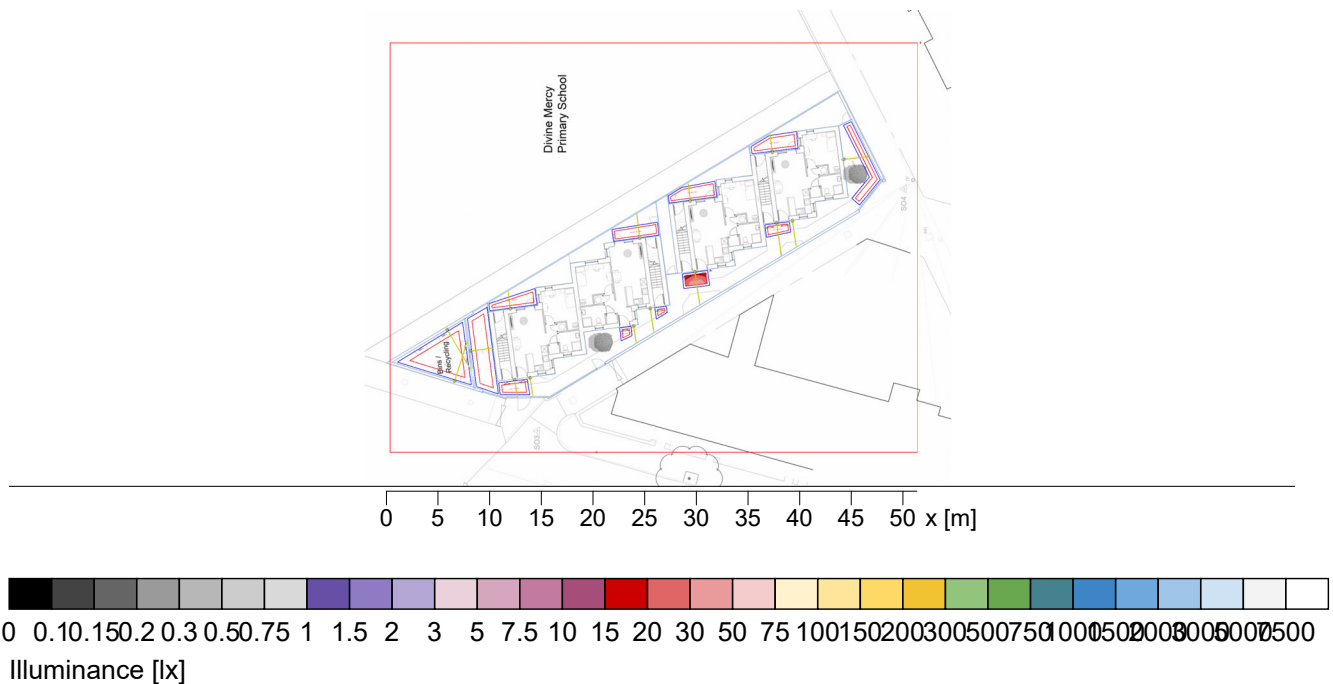
1	1 x	ANSELL	
		Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.8 Result overview, Plot 5 front door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	1652.21 lm
Total power	12.0 W
Total power per area (3.58 m²)	3.35 W/m² (12.31 W/m²/100lx)

Plot 5 front door

$\bar{E}_m$	27.2 lx
E_{min}	15.3 lx
$E_{min}/\bar{E}_m (U_o)$	0.56
$E_{min}/E_{max} (U_d)$	0.40
Position	0.00 m

Plot 5 front door

Horizontal
 27.2 lx
 15.3 lx
 0.56
 0.40
 0.00 m

Type No. \ Make

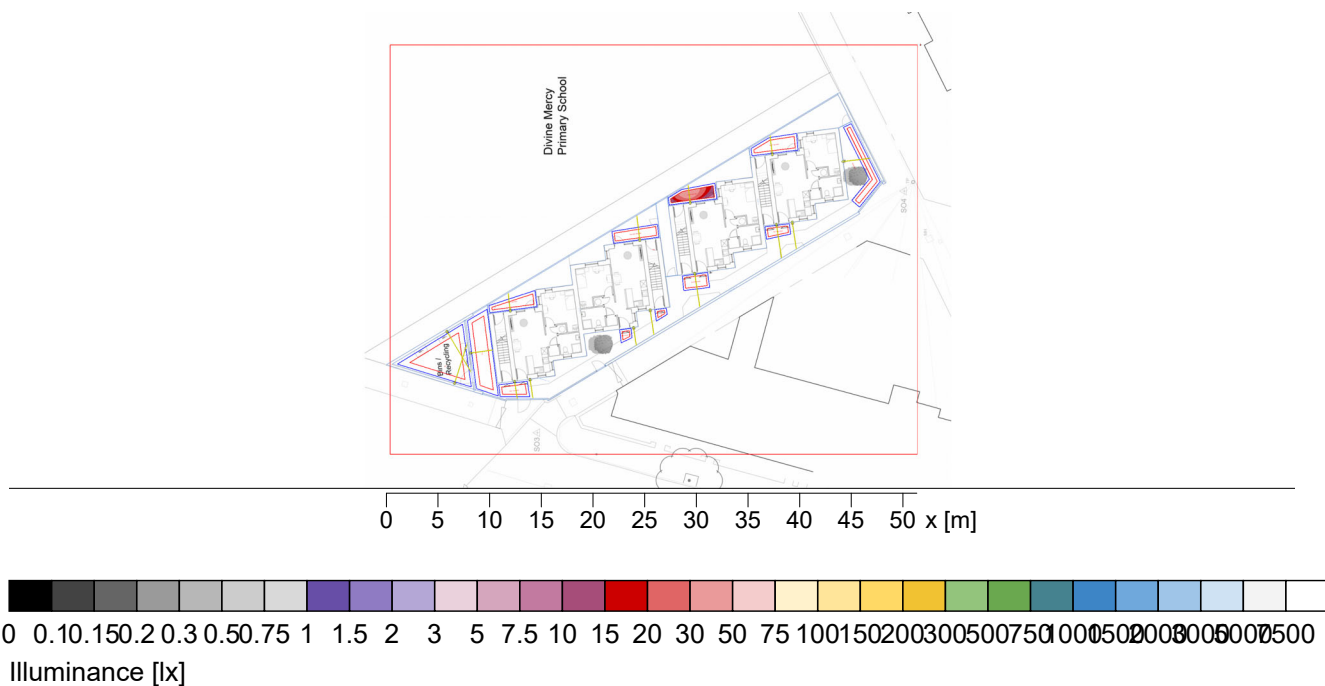
1	1 x	ANSELL
		Order No. : IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name : BULKHEADS - Delta 2 Black 4000K
		Equipment : 1 x LED 12 W / 1636 lm

Object : Dalton Avenue Fallowfield
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2.2 Summary, Exterior

2.2.9 Result overview, PLOT 5 rear door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	1652.21 lm
Total power	12.0 W
Total power per area (6.05 m²)	1.99 W/m² (8.01 W/m²/100lx)

PLOT 5 rear door

$\bar{E}_m$	24.8 lx
E_{min}	8.6 lx
$E_{min}/\bar{E}_m (U_o)$	0.35
$E_{min}/E_{max} (U_d)$	0.19
Position	0.00 m

PLOT 5 rear door

Horizontal
24.8 lx
8.6 lx
0.35
0.19
0.00 m

Type No. \Make

1	1 x	ANSELL
		Order No. : IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name : BULKHEADS - Delta 2 Black 4000K
		Equipment : 1 x LED 12 W / 1636 lm

The logo for Ansell Lighting, featuring a stylized white 'A' with a long horizontal stroke extending to the right, followed by the word 'nsell' in a bold, sans-serif font. Below 'nsell' is the word 'LIGHTING' in a smaller, all-caps, sans-serif font. The entire logo is set against a dark blue background.

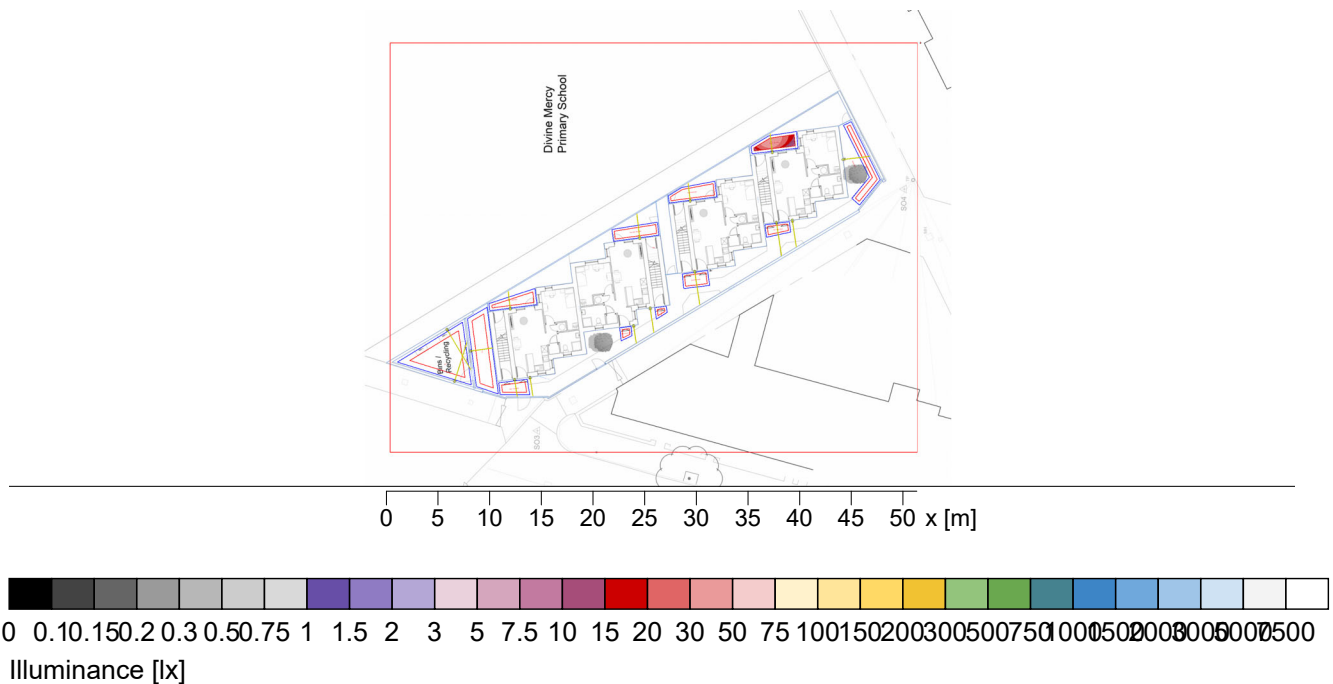
2.2.10 Result overview, Plot 7 front door

Object : Dalton Avenue Fallowfield
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2.2 Summary, Exterior

2.2.11 Result overview, PLOT 7 rear door



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	0.00 lm

PLOT 7 rear door

	PLOT 7 rear door
	Horizontal
$\bar{E}_m$	27.4 lx
E_{min}	9.8 lx
$E_{min}/\bar{E}_m (U_o)$	0.36
$E_{min}/E_{max} (U_d)$	0.21
Position	0.00 m

Type No. \ Make

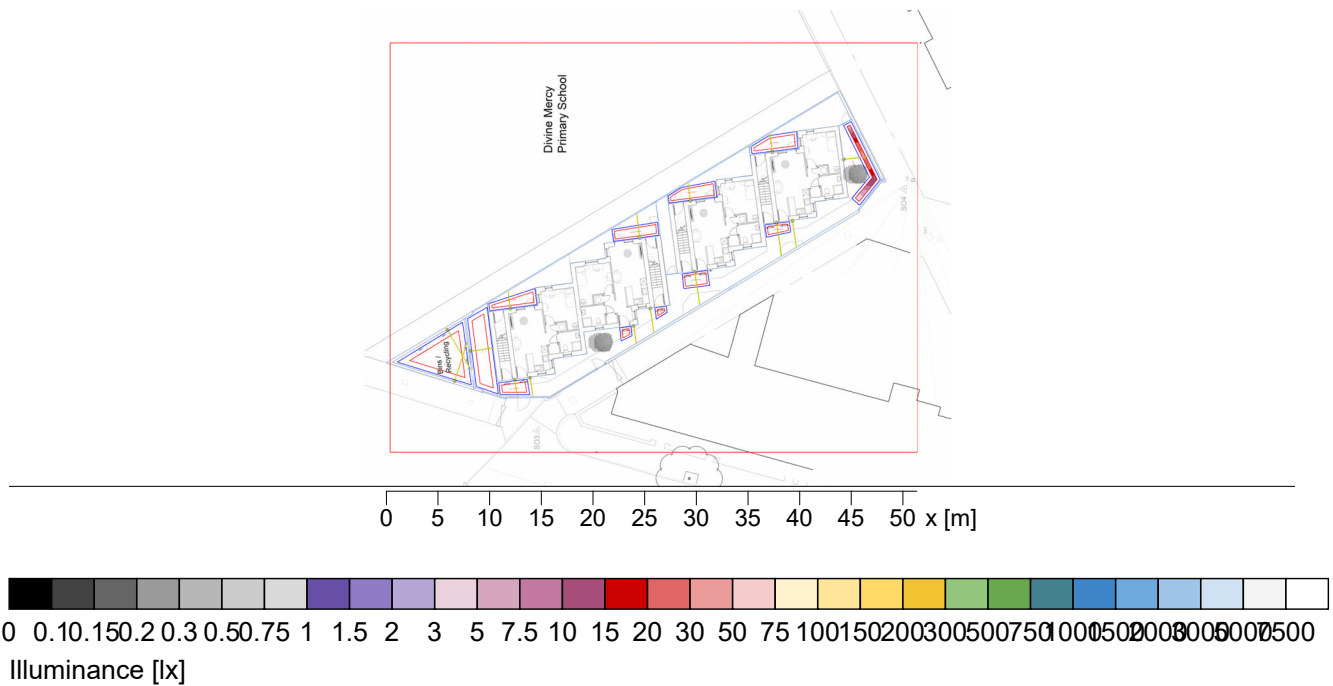
1	15 x	ANSELL	
		Order No.	: !ADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

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2.2 Summary, Exterior

2.2.12 Result overview, Gable end



General	
Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	0.00 lm

Gable end	Gable end
	Horizontal
$\bar{E}_m$	15.5 lx
E_{min}	3.3 lx
$E_{min}/\bar{E}_m (U_o)$	0.22
$E_{min}/E_{max} (U_d)$	0.11
Position	0.00 m

Type No.\Make

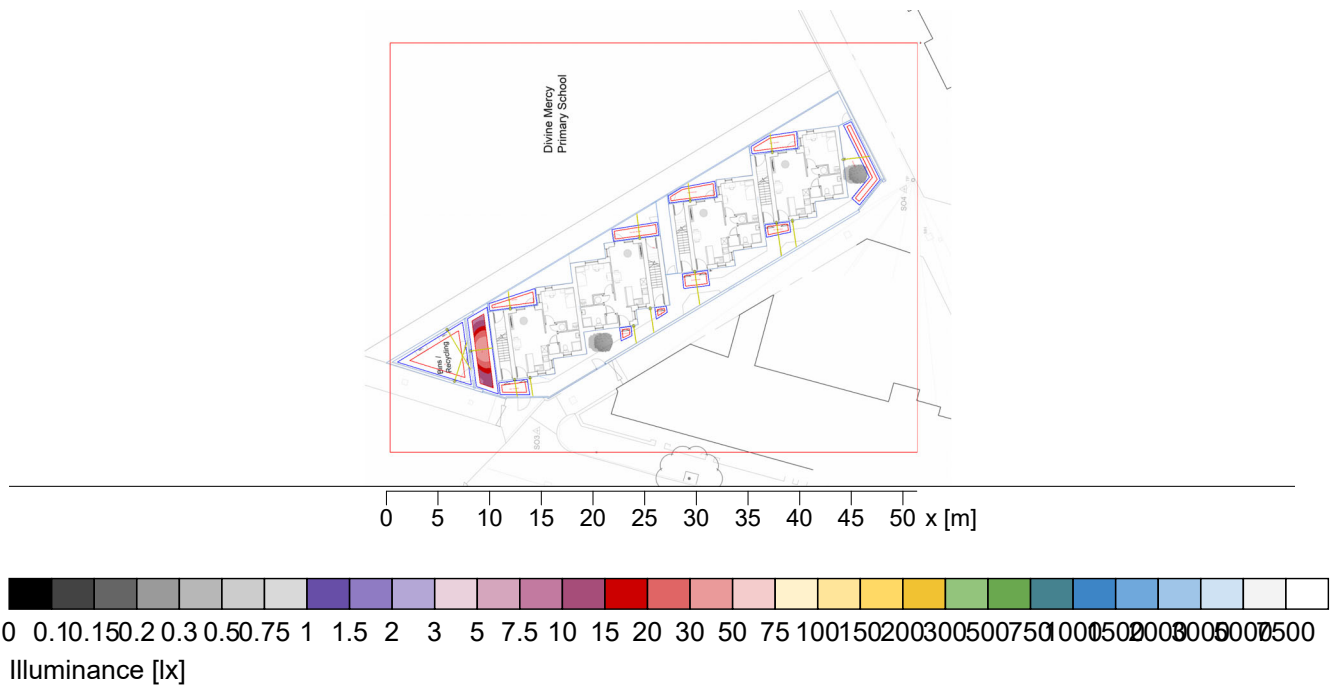
1	15 x	ANSELL	
		Order No.	: IADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

Object : Dalton Avenue Fallowfield
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2.2 Summary, Exterior

2.2.13 Result overview, Circ.



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Luminaire luminous flux

0.00 lm

Circ.

$\bar{E}_m$
 E_{min}
 $E_{min}/\bar{E}_m (U_o)$
 $E_{min}/E_{max} (U_d)$
 Position

Circ.

Horizontal
 23.9 lx
 7.5 lx
 0.31
 0.15
 0.00 m

Type No.\Make

1	15 x	ANSELL	
		Order No.	: !ADLED2/BV/CCT/MWS (12W 4000K)
		Luminaire name	: BULKHEADS - Delta 2 Black 4000K
		Equipment	: 1 x LED 12 W / 1636 lm

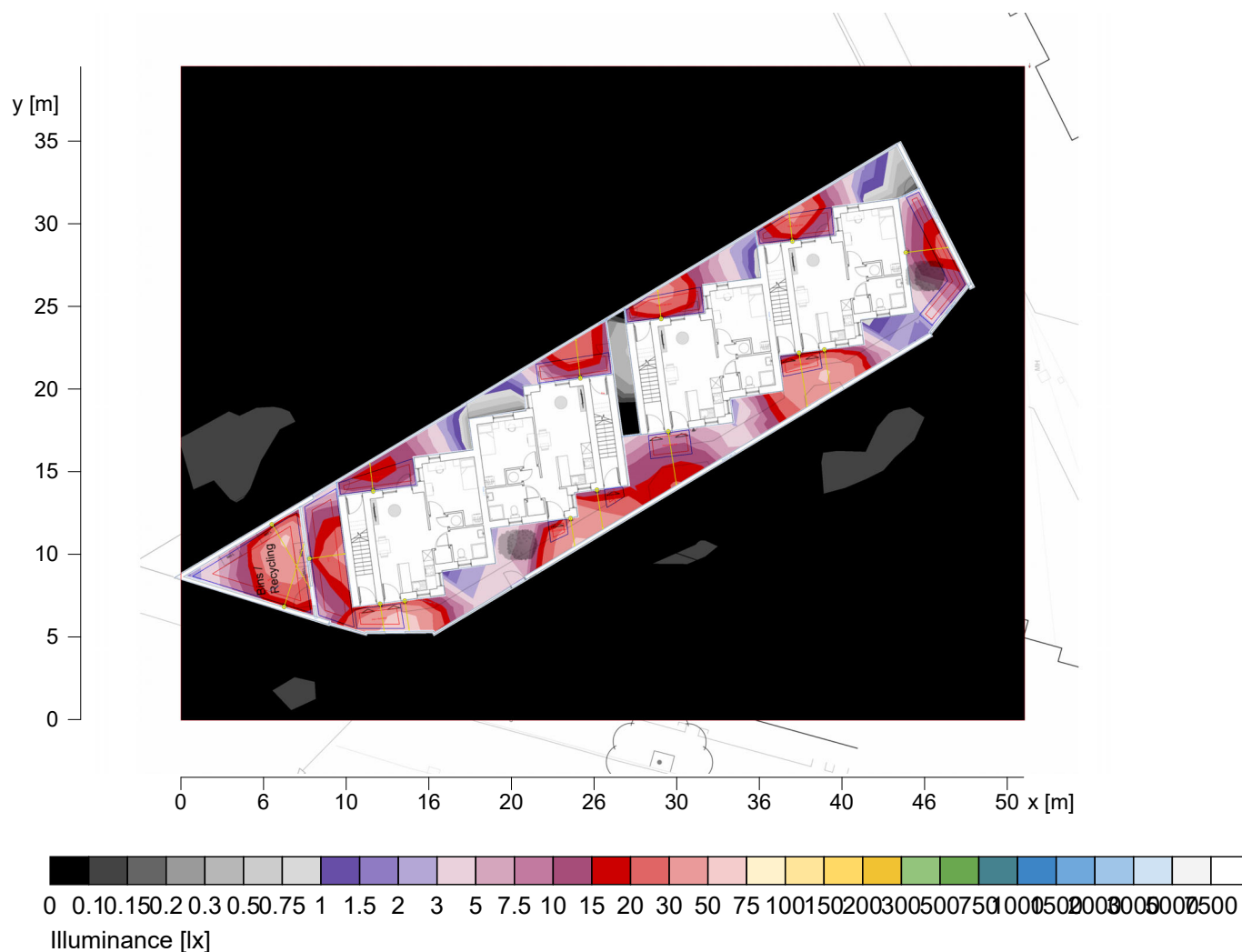
Object : Dalton Avenue Fallowfield
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2 Exterior

2.3 Calculation results, Exterior

2.3.1 Pseudo colours, Site (E)



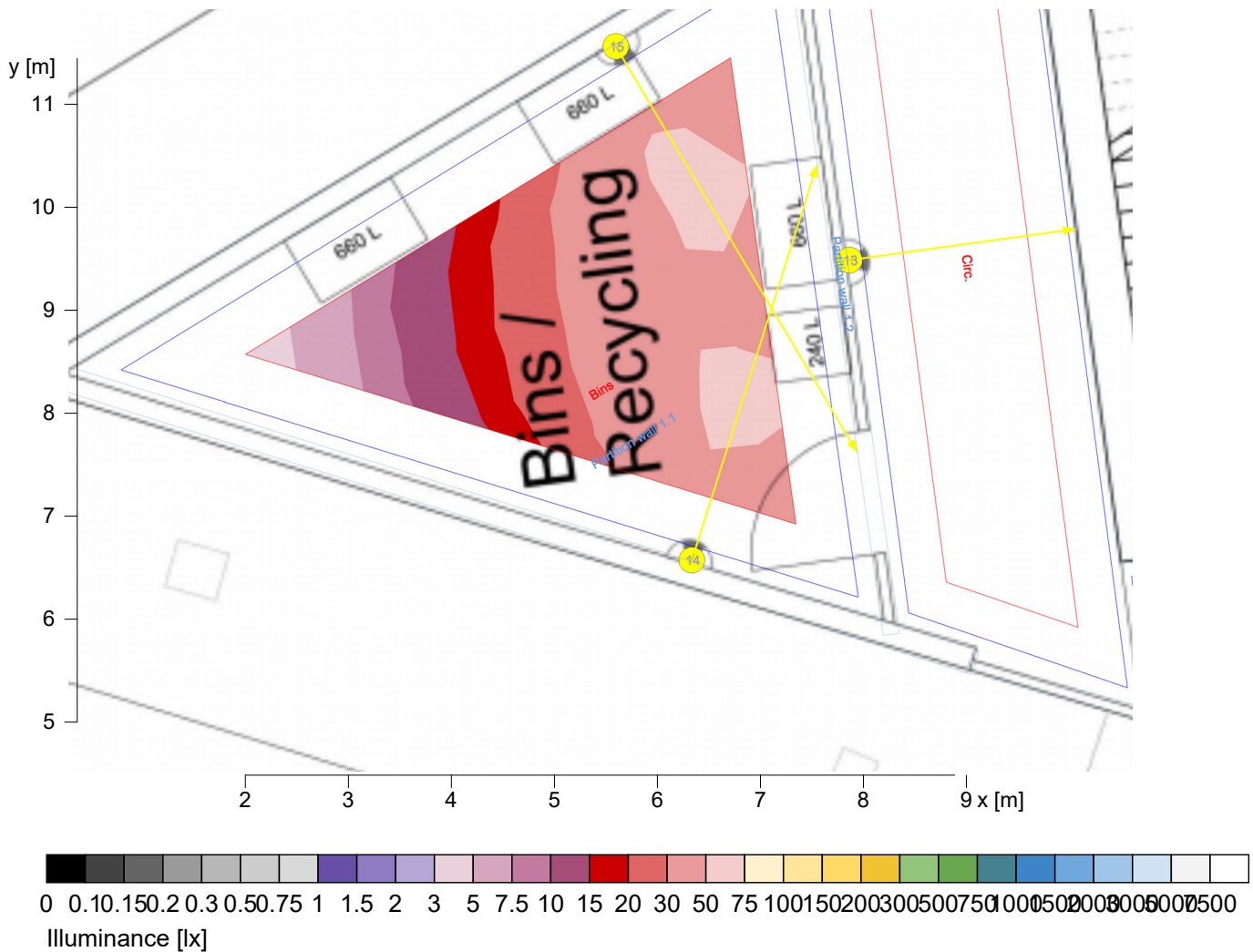
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 1.6 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 52.1 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---

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2.3 Calculation results, Exterior

2.3.2 Pseudo colours, Bins (E)



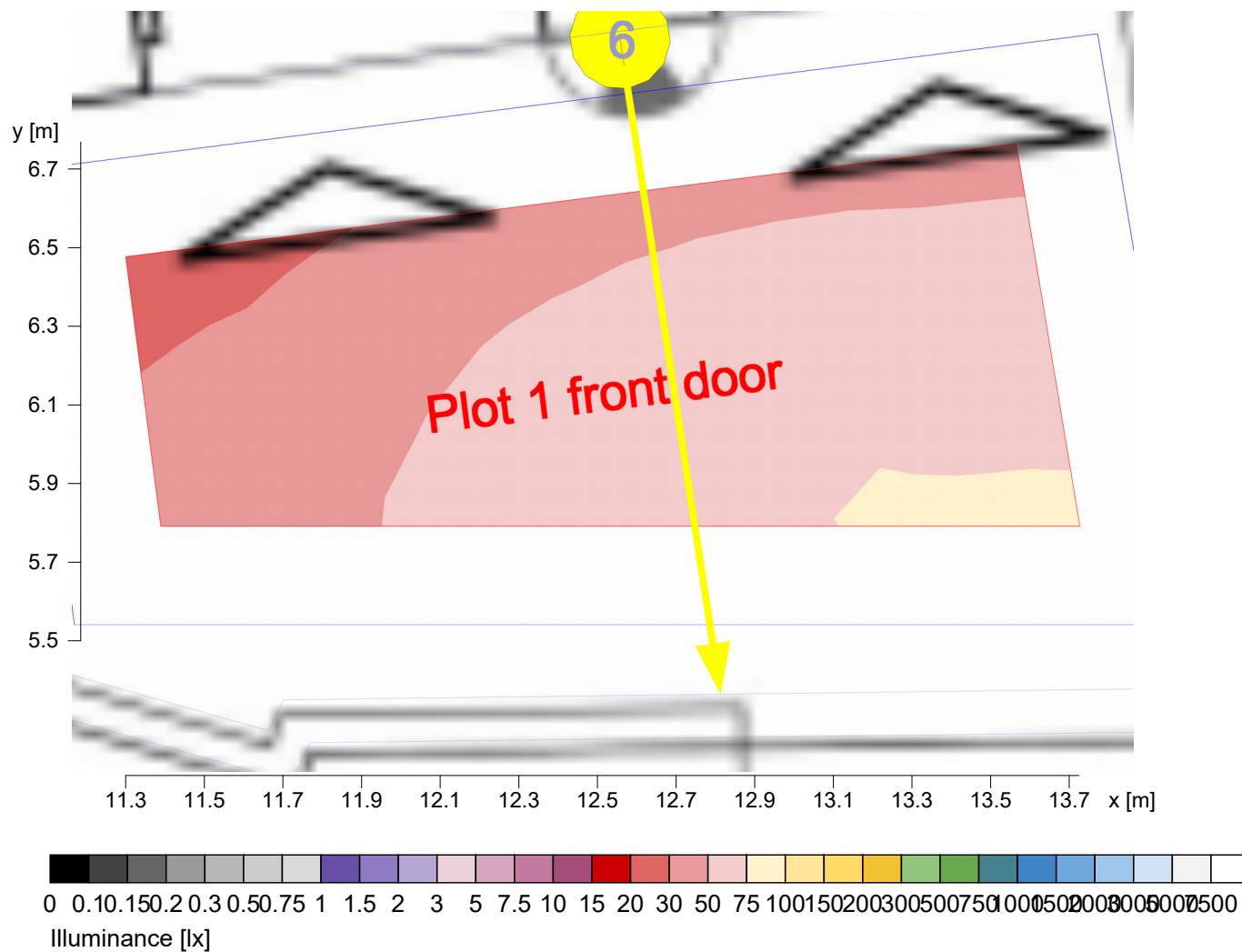
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 33.2 lx
Minimum illuminance	E_{min}	: 5 lx
Maximum illuminance	E_{max}	: 52.9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 6.70 (0.15)

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2.3 Calculation results, Exterior

2.3.3 Pseudo colours, Plot 1 front door (E)



Height reference plane
Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_0

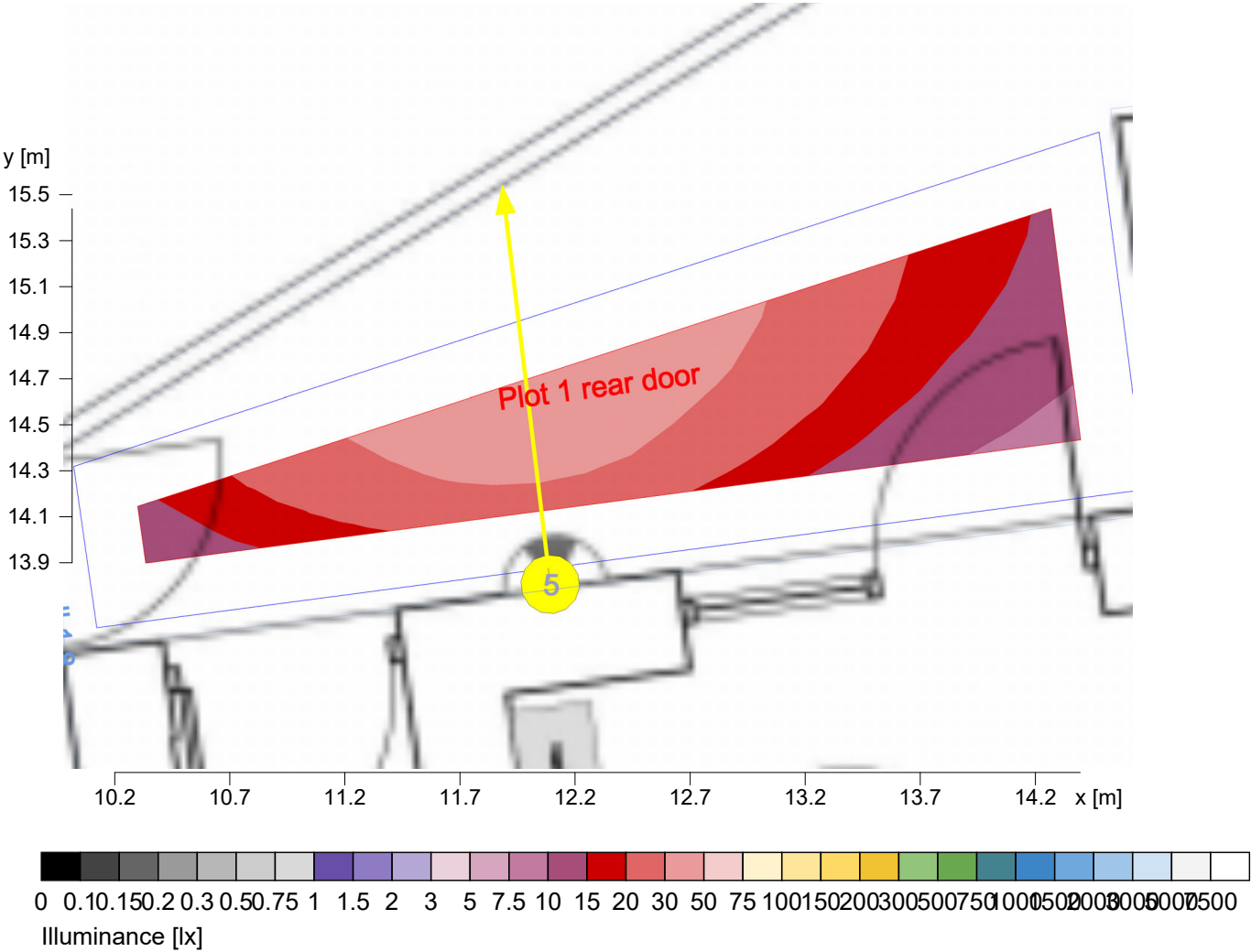
: 0.00 m
 $\bar{E}_m$: 54.2 lx
 E_{min} : 24.5 lx
 E_{max} : 76.1 lx
 $E_{min}/\bar{E}_m$: 1 : 2.21 (0.45)

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2.3 Calculation results, Exterior

2.3.4 Pseudo colours, Plot 1 rear door (E)



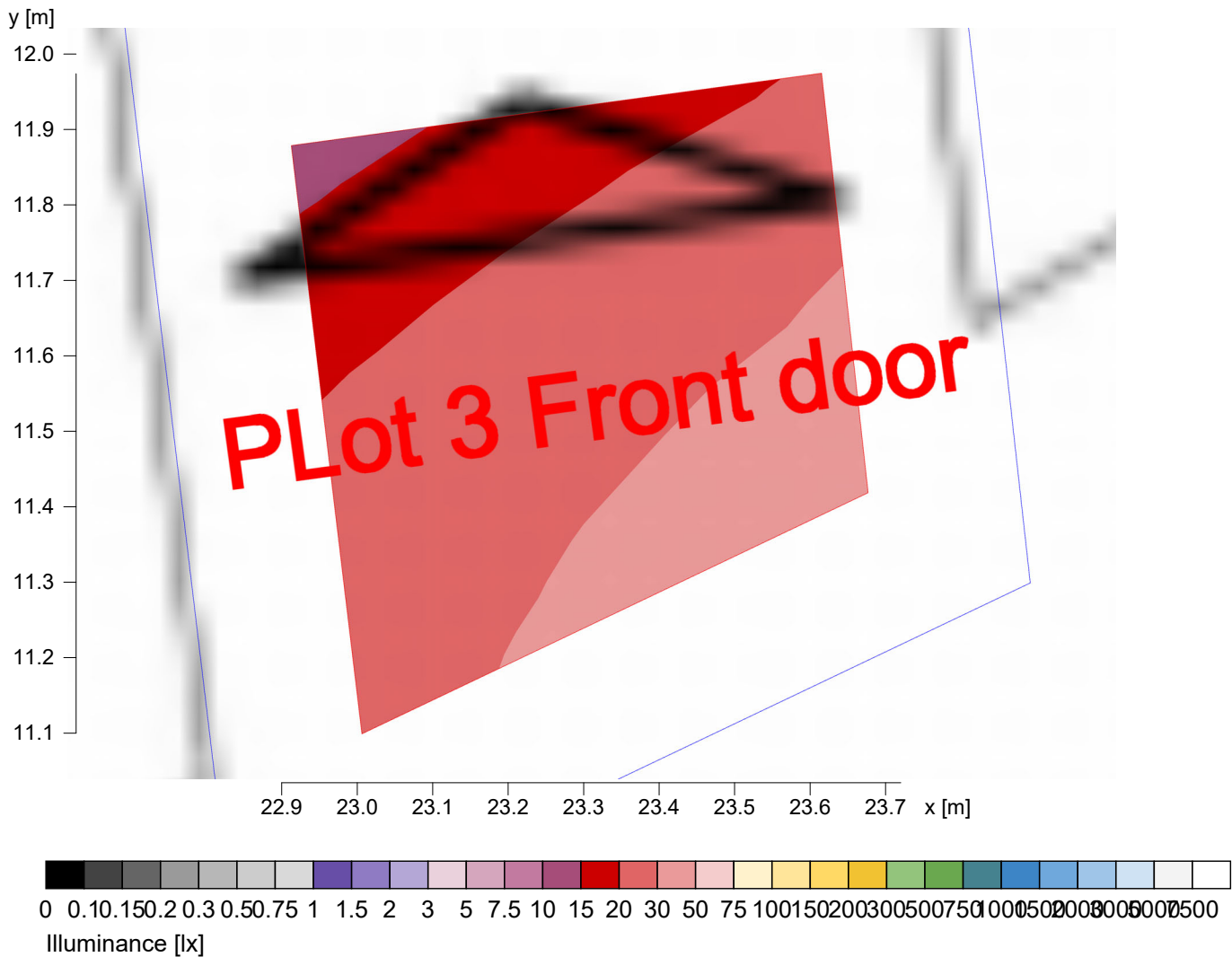
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 23.1 lx
Minimum illuminance	E_{min}	: 9.3 lx
Maximum illuminance	E_{max}	: 42.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 2.48 (0.40)

Object : Dalton Avenue Fallowfield
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2.3 Calculation results, Exterior

2.3.5 Pseudo colours, PLOT 3 Front door (E)



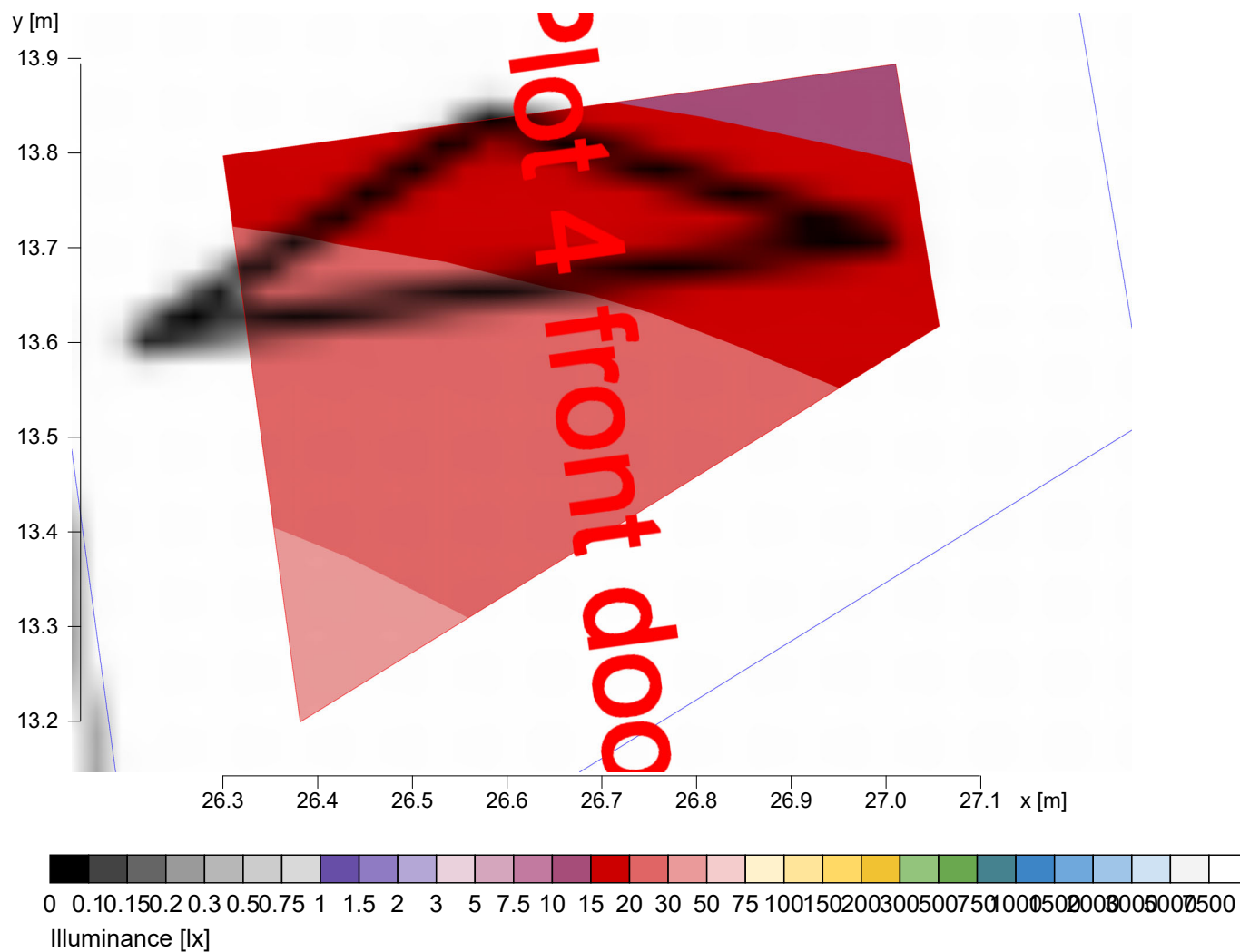
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 25 lx
Minimum illuminance	E_{min}	: 15.5 lx
Maximum illuminance	E_{max}	: 36.3 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 1.61 (0.62)

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2.3 Calculation results, Exterior

2.3.6 Pseudo colours, Plot 4 front door (E)



Height reference plane
Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_0

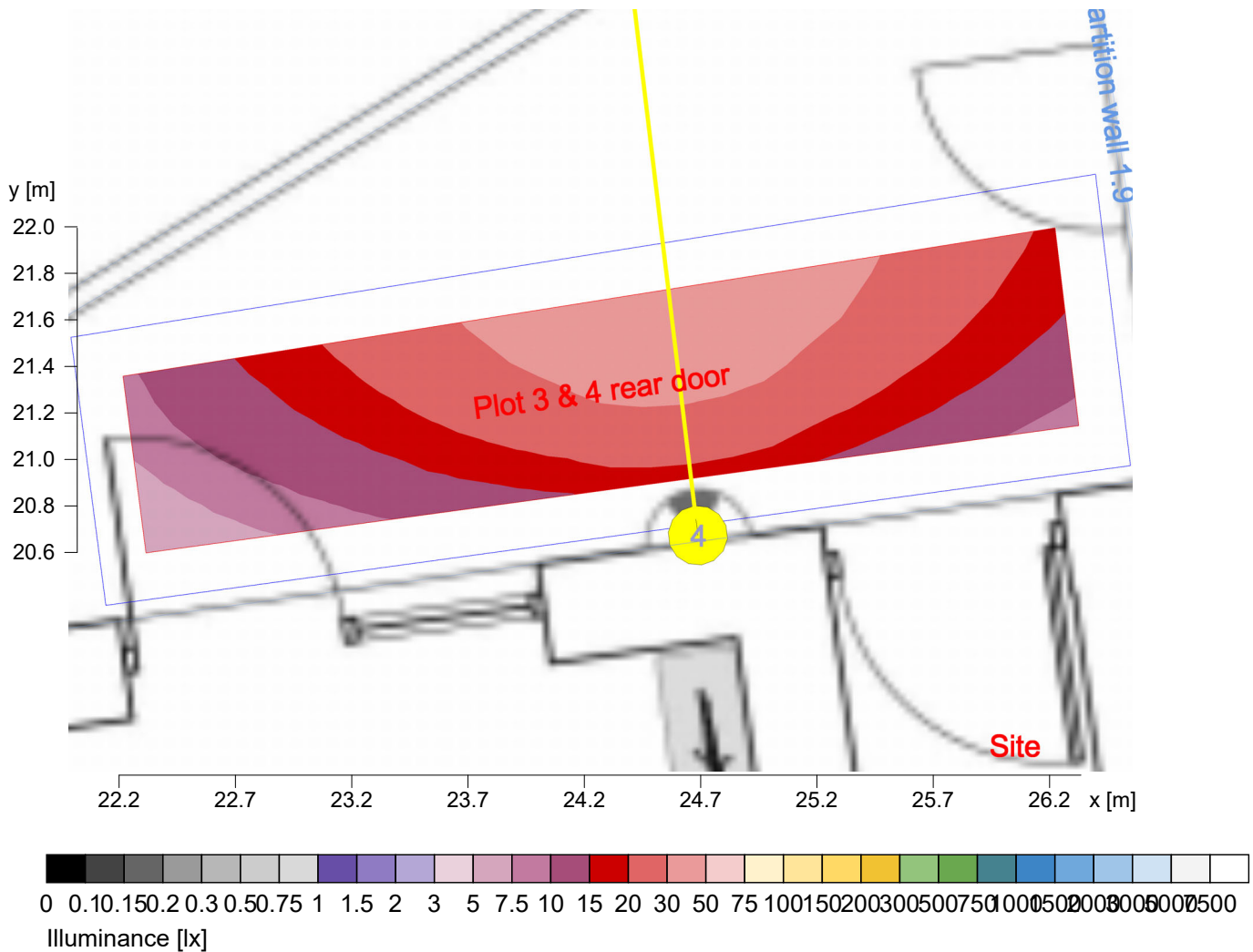
: 0.00 m
 $\bar{E}_m$: 21.5 lx
 E_{min} : 14.9 lx
 E_{max} : 32.3 lx
 $E_{min}/\bar{E}_m$: 1 : 1.44 (0.69)

Object : Dalton Avenue Fallowfield
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 Project number : QUO-323420-13OZNS
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2.3 Calculation results, Exterior

2.3.7 Pseudo colours, Plot 3 & 4 rear door (E)



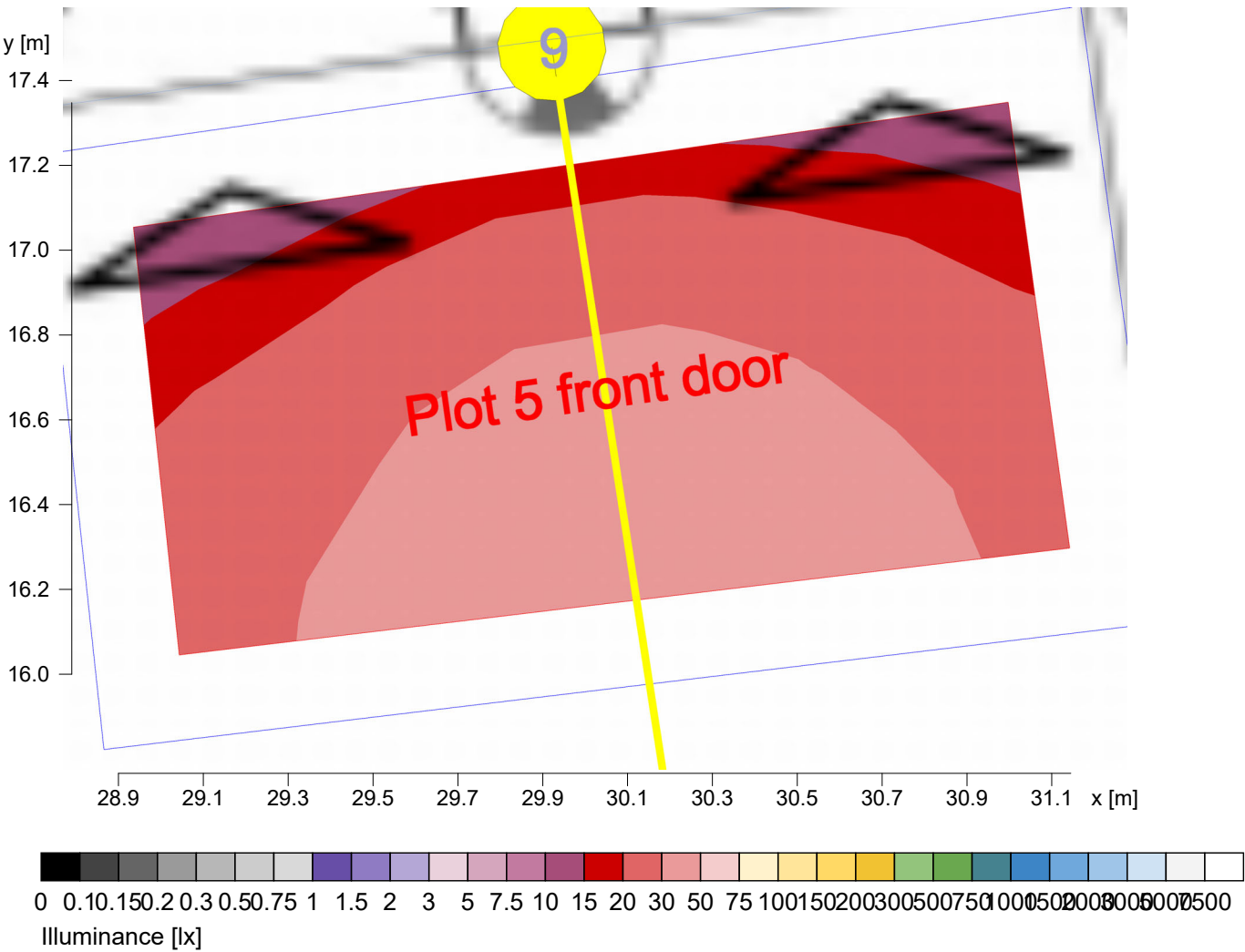
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 21.5 lx
Minimum illuminance	E_{min}	: 5.9 lx
Maximum illuminance	E_{max}	: 41.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 3.65 (0.27)

Object : Dalton Avenue Fallowfield
 Installation : Proposed New Lighting
 Project number : QUO-323420-13OZNS
 Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.8 Pseudo colours, Plot 5 front door (E)



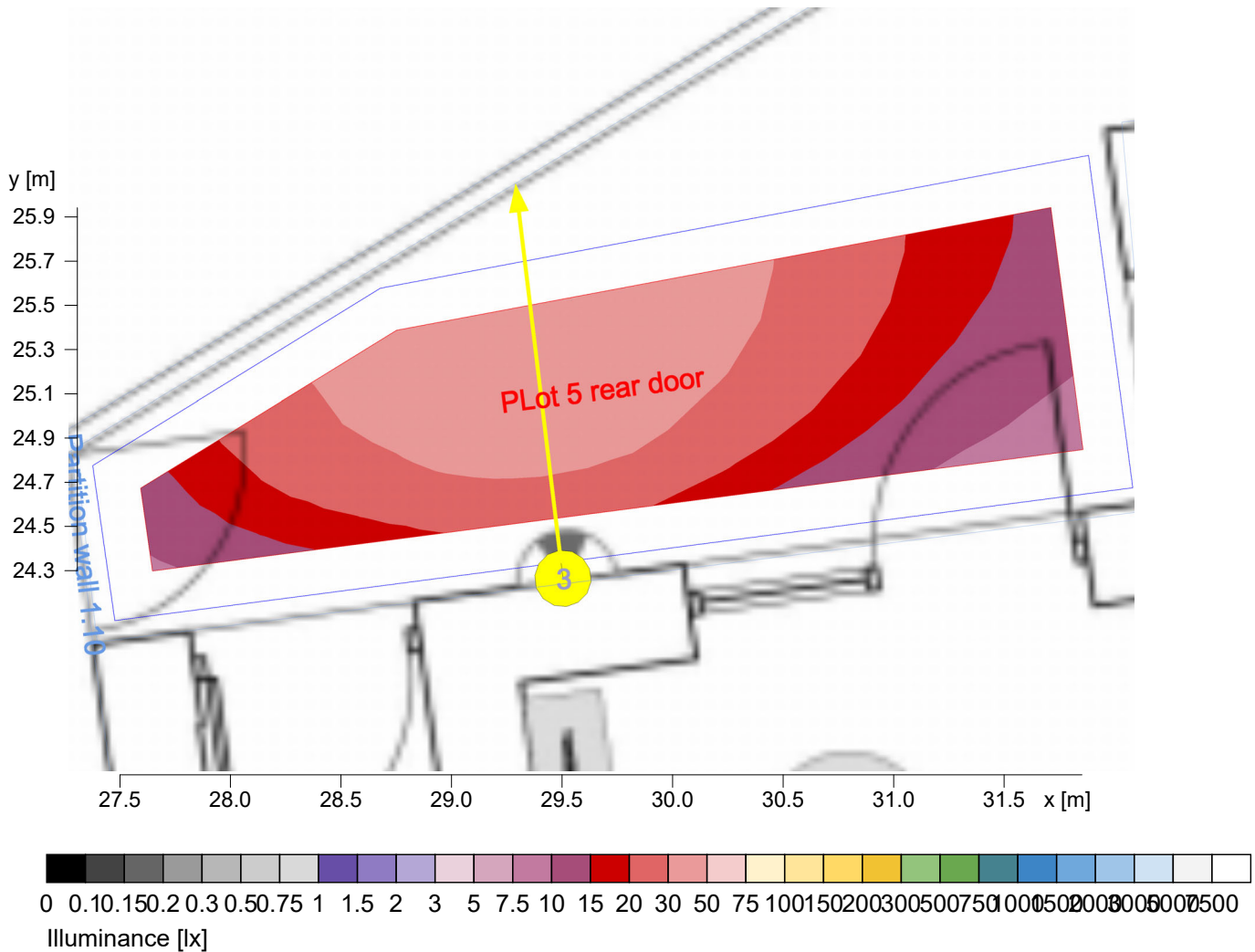
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 27.2 lx
Minimum illuminance	E_{min}	: 15.3 lx
Maximum illuminance	E_{max}	: 38.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 1.78 (0.56)

Object : Dalton Avenue Fallowfield
 Installation : Proposed New Lighting
 Project number : QUO-323420-13OZNS
 Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.9 Pseudo colours, PLOT 5 rear door (E)

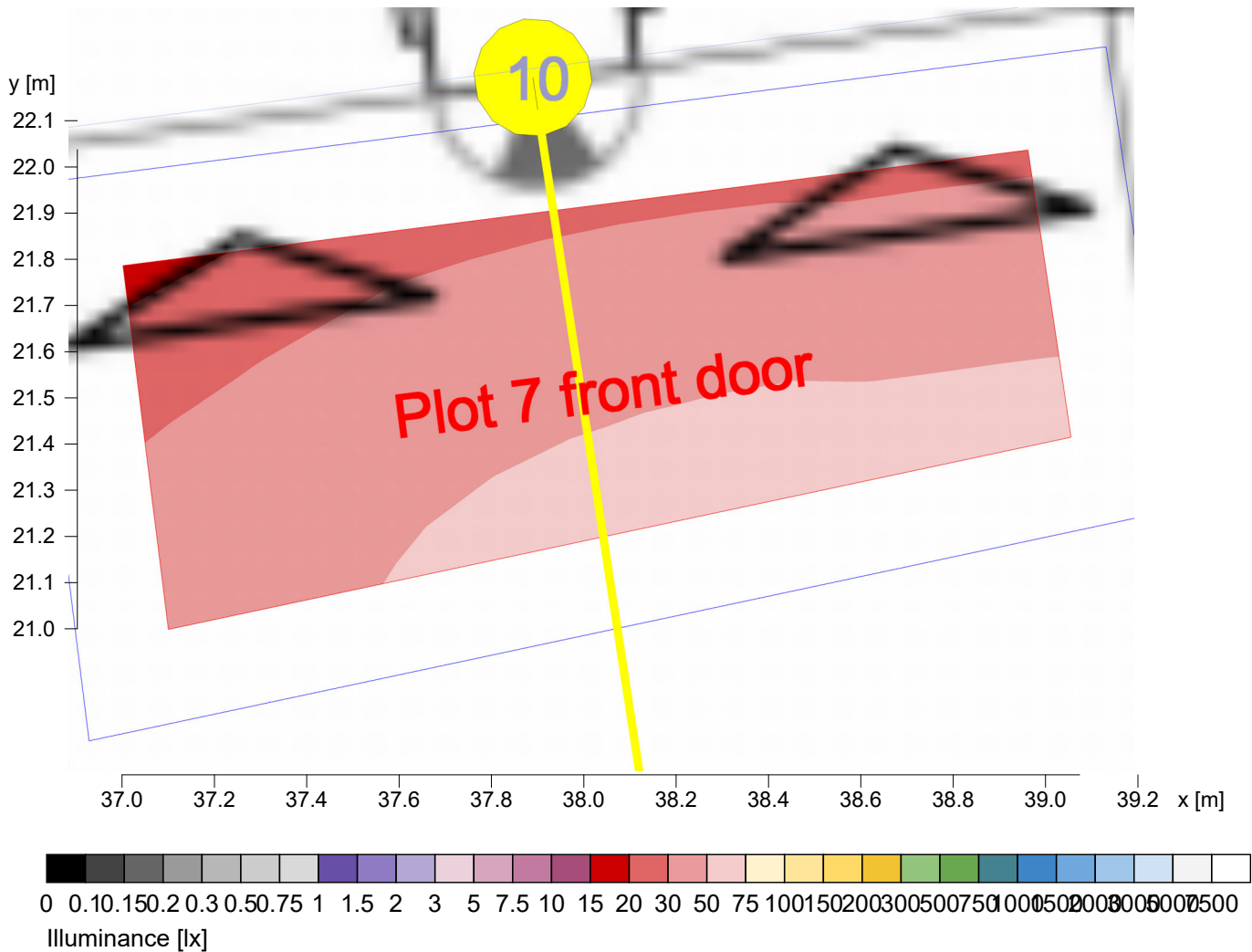


Object : Dalton Avenue Fallowfield
 Installation : Proposed New Lighting
 Project number : QUO-323420-13OZNS
 Date : 09.12.2025



2.3 Calculation results, Exterior

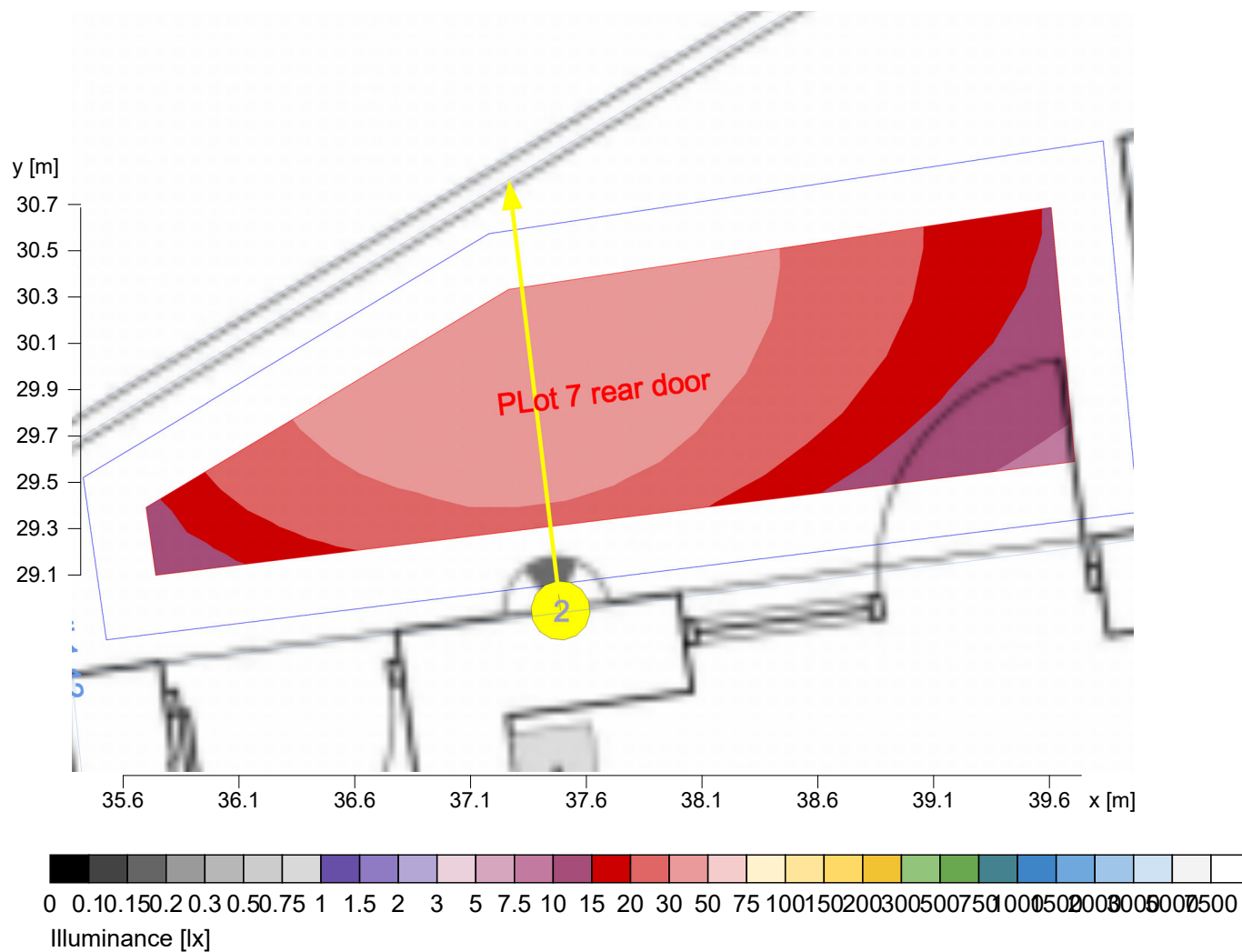
2.3.10 Pseudo colours, Plot 7 front door (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 40.9 lx
Minimum illuminance	E_{min}	: 20.7 lx
Maximum illuminance	E_{max}	: 56.6 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 1.97 (0.51)

The logo for Ansell Lighting features a large, stylized white letter 'A' on a dark red background. The 'A' has a unique design with a long, thin stroke extending from the top left and another from the bottom left. To the right of the 'A', the word 'Ansell' is written in a bold, white, sans-serif font. Below 'Ansell', the word 'LIGHTING' is written in a smaller, white, all-caps, sans-serif font. The entire logo is set against a dark red background that has rounded corners on the left side.

2.3.11 Pseudo colours, PLOT 7 rear door (E)



Height reference plane
Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_0

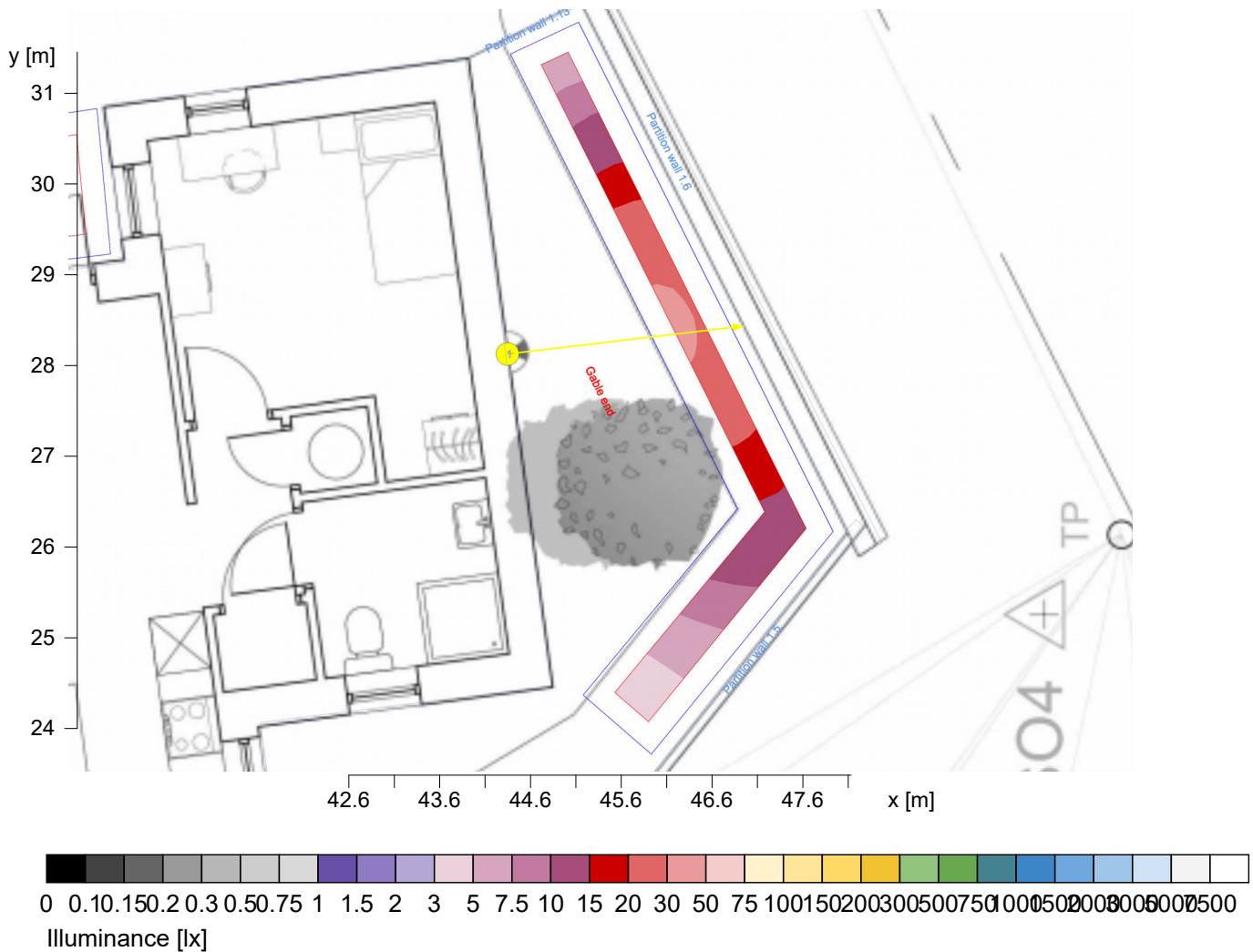
	: 0.00 m
$\bar{E}_m$	: 27.4 lx
E_{min}	: 9.8 lx
E_{max}	: 45.8 lx
$E_{min}/\bar{E}_m$	: 1 : 2.79 (0.36)

Object : Dalton Avenue Fallowfield
 Installation : Proposed New Lighting
 Project number : QUO-323420-13OZNS
 Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.12 Pseudo colours, Gable end (E)

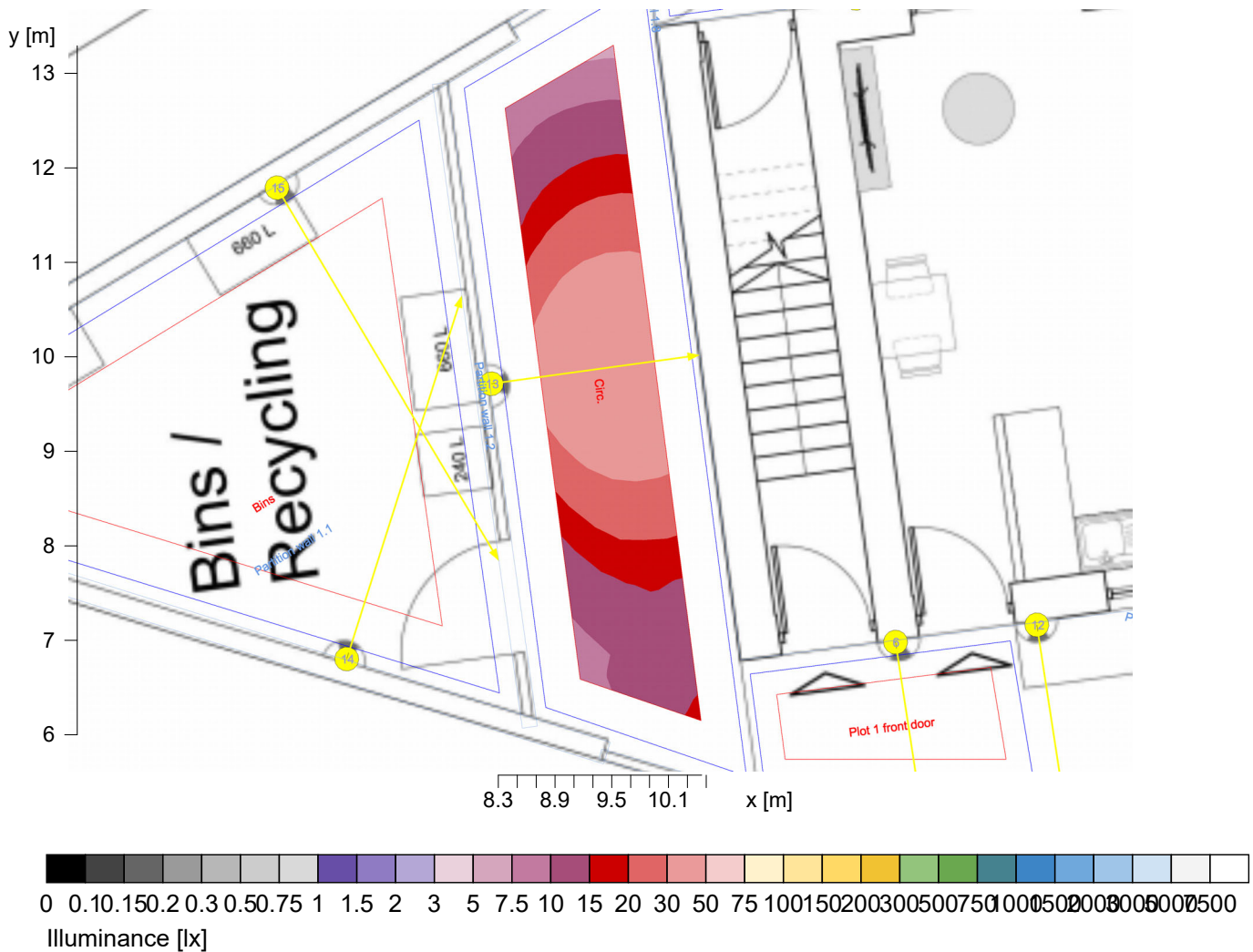


Object : Dalton Avenue Fallowfield
 Installation : Proposed New Lighting
 Project number : QUO-323420-13OZNS
 Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.13 Pseudo colours, Circ. (E)



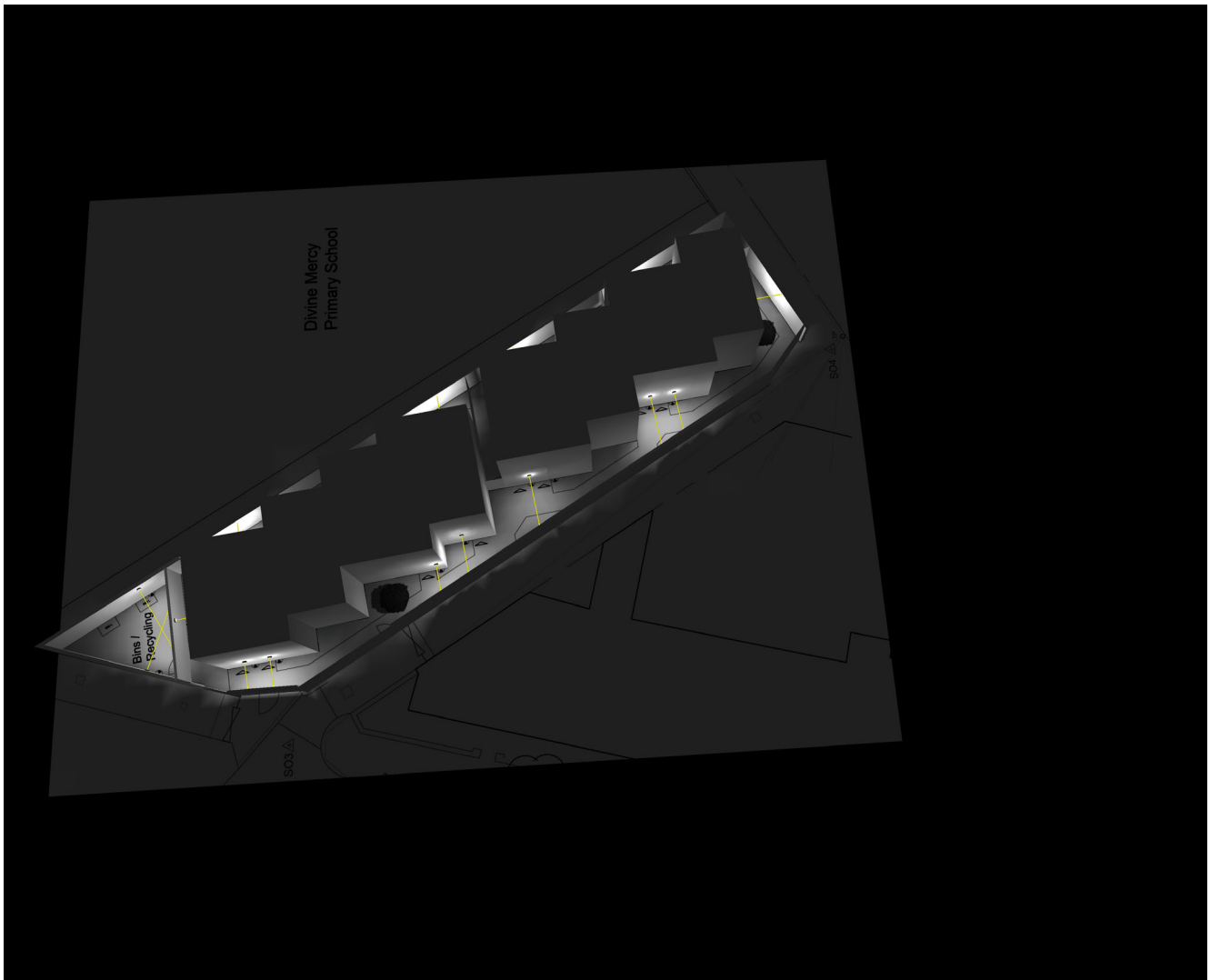
Height reference plane	: 0.00 m
Average illuminance	$\bar{E}_m$: 23.9 lx
Minimum illuminance	E_{min} : 7.5 lx
Maximum illuminance	E_{max} : 48.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$: 1 : 3.21 (0.31)

Object : Dalton Avenue Fallowfield
Installation : Proposed New Lighting
Project number : QUO-323420-13OZNS
Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.14 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 35.9 cd/m²

Object : Dalton Avenue Fallowfield
Installation : Proposed New Lighting
Project number : QUO-323420-13OZNS
Date : 09.12.2025



2.3 Calculation results, Exterior

2.3.15 3D pseudo colours, View 1 (E)

