

Ysgol Rhyd y Grug

Installation : External Lighting Design

Project number : 654437

Customer :

Processed by : George Thatcher

Date : 31.03.2026

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.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

1 Luminaire data

1.1 Dextra Group PLC, A1 (AME2 NM3 LE3)

1.1.1 Data sheet

Manufacturer: Dextra Group PLC

A1 AME2 NM3 LE3 ceiling mounted luminaire A1

AME2 - IP65, IK07.

Non-Maintained 3hr Lithium emergency luminaire, robust polycarbonate body and lens, white finish with clear reeded diffuser.

Options:

LE3 - Lithium Emergency (171 lumens output)

LS3 - Lithium Selftest

CB - Please specify 50v, 110v or 230v when ordering

AME ELK - Emergency Legend Kit

AME ELK ISO - Emergency Legend kit ISO 7010

Luminaire data

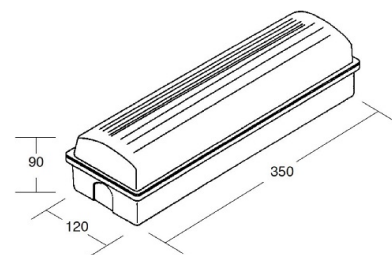
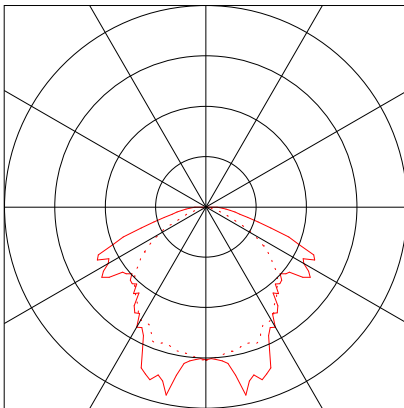
Absolute Photometry

Luminaire efficacy : 68.4 lm/W
Classification : A40 ↓100% ↑0%
CIE Flux Codes : 44 74 95 100 101
UGR 4H 8H : 18.5 / 14.1
Control gear : electronic ballast
Power : 2.5 W
Luminous flux : 172.2 lm

Equipped with

Quantity : 1
Designation : Dextra
Colour : 4000K

Dimensions : 350 mm x 120 mm x 90 mm



Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

1 Luminaire data

1.1 Dextra Group PLC, A1 (AME2 NM3 LE3)

1.1.1 Data sheet

Emergency Lighting

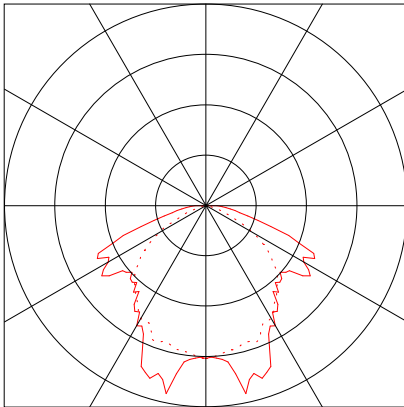
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 68.4 lm/W

Power : 2.5 W

Luminous flux : 171 lm



Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

1 Luminaire data

1.2 Dextra Group PLC, O1 (OPUCL L70 W C727)

1.2.1 Data sheet

Manufacturer: Dextra Group PLC

O1 OPUCL L70 W C727 bollard / pole mounted luminaires O1

Opus Column - IP65

Column top mounted wide lensed luminaire, matt grey weather resistant and salt spray tested paint finish. Aluminium housing and polycarbonate front cover. Integral column spigot fixing mechanism included and supplied with 10m prewired flex to facilitate installation.

Options:

LE3 - Lithium Emergency (1049 lumens output)

LS3 - Lithium Selftest

LA3 - Lithium Autotest

PH - Photocell

NEM - NEMA Socket

S40 - 40-50mm Spigot

S50 - 50-60mm Spigot

S60 - 60-76mm Spigot

OPUC WB - Opus Column Wall Mount Bracket

BL - Black Body

C73 - CRI 70 3000K

Luminaire data

Absolute Photometry

Luminaire efficacy : 152.21 lm/W

Classification : A40 ↓ 100% ↑ 0%

CIE Flux Codes : 44 82 99 100 100

UGR 4H 8H : 30.4 / 18.2

Control gear : electronic ballast

Power : 41.1 W

Luminous flux : 6252.7 lm

Equipped with

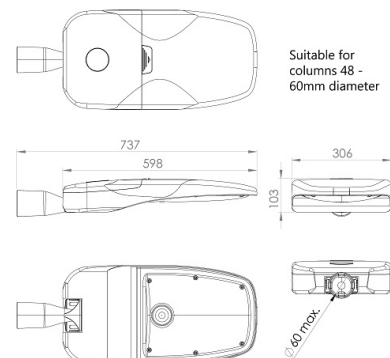
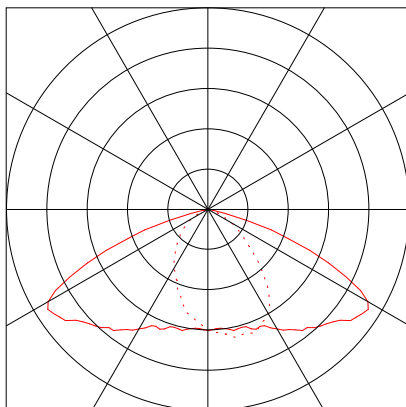
Quantity : 1

Designation : Dextra

Colour : 2700K

Colour reproduction : 1B

Dimensions : 737 mm x 306 mm x 103 mm



Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

1 Luminaire data

1.2 Dextra Group PLC, O1 (OPUCL L70 W C727)

1.2.1 Data sheet

Emergency Lighting

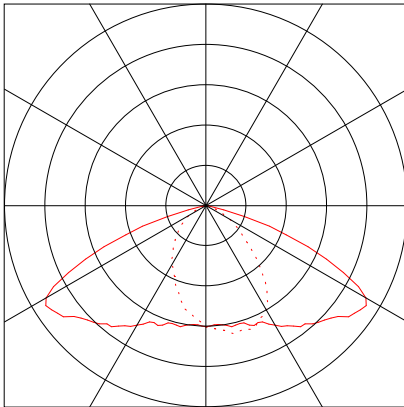
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 349.67 lm/W

Power : 3 W

Luminous flux : 1049 lm



Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

1 Luminaire data

1.3 Dextra Group PLC, W1 (OPUWP L15 AS C727)

1.3.1 Data sheet

Manufacturer: Dextra Group PLC

W1 OPUWP L15 AS C727 wall-mounted luminaire W1

OPUS Wallpack - IP65, IK10

Wall mounted exterior luminaire, diecast aluminium body with grey paint, salt spray tested finish and polycarbonate diffuser.

Options:

E3 - Emergency control gear (647 lumens output)

ST3 - Emergency Selftest

AT3 - Emergency Autotest

R25E - Reacta 25, On / Off High Frequency

R25C - Reacta 25, Corridor Mode*

RCME - Reacta-Control Wireless Microwave On/Off

RCMC - Reacta-Control Wireless Microwave Corridor Mode*

*Bi-Level Dimming. Will only dim the luminaire to 10% during absence and brightout, it will not turn the luminaire off.

PH - Photocell (Dawn to Dusk switching photocell) - must be used for bright out functionality

BL - Black housing

Luminaire data

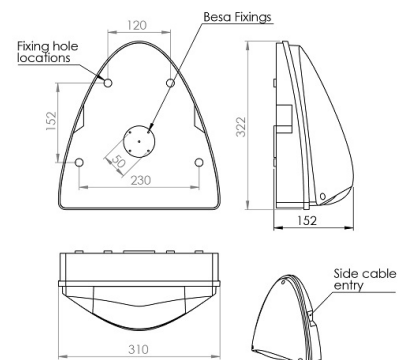
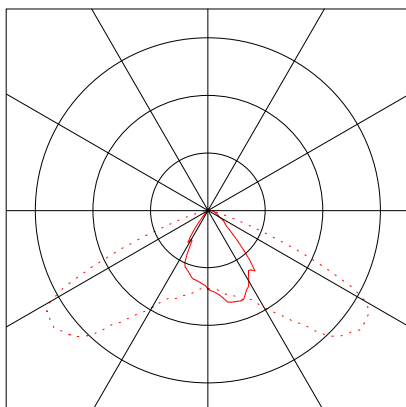
Absolute Photometry

Luminaire efficacy : 112.31 lm/W
 Classification : A50 ↓99% ↑1%
 CIE Flux Codes : 47 87 99 98 100
 UGR 4H 8H : 22.8 / 31.3
 Control gear : electronic ballast
 Power : 10.8 W
 Luminous flux : 1213 lm

Dimensions : 310 mm x 65 mm x 325 mm

Equipped with

Quantity : 1
 Designation : Dextra
 Colour : 2700K
 Colour reproduction : 2



Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

1 Luminaire data

1.3 Dextra Group PLC, W1 (OPUWP L15 AS C727)

1.3.1 Data sheet

Emergency Lighting

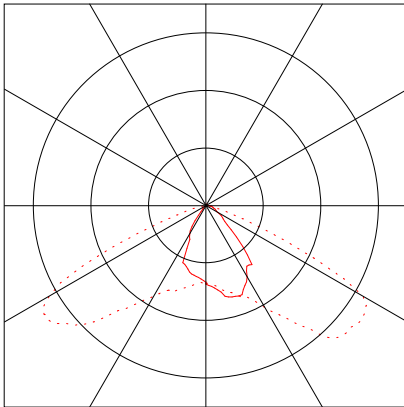
Emergency lighting with own light source

Absolute Photometry

Luminaire efficacy : 215.67 lm/W

Power : 3 W

Luminous flux : 647 lm

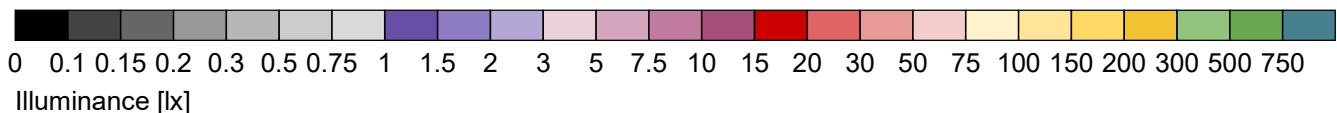
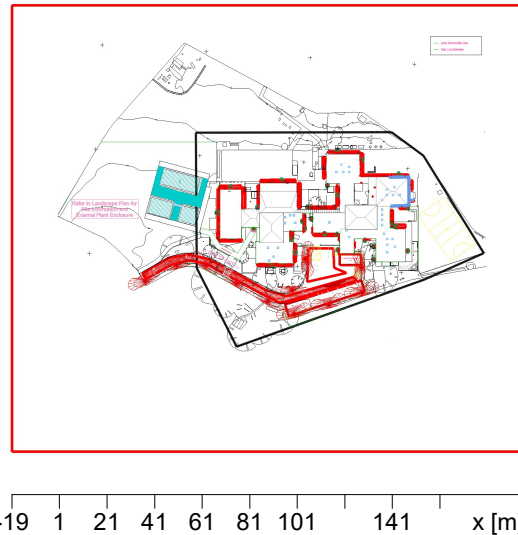


Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2 Exterior 1

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	30.4 lx
Minimum illuminance	E_{min}	14.3 lx
Maximum illuminance	E_{max}	41.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.13 (0.47)
Diversity U_d	E_{min}/E_{max}	1:2.93 (0.34)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2 Exterior 1

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.1 Result overview, Measuring area 1

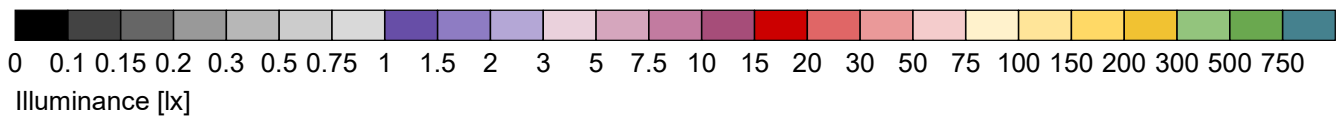
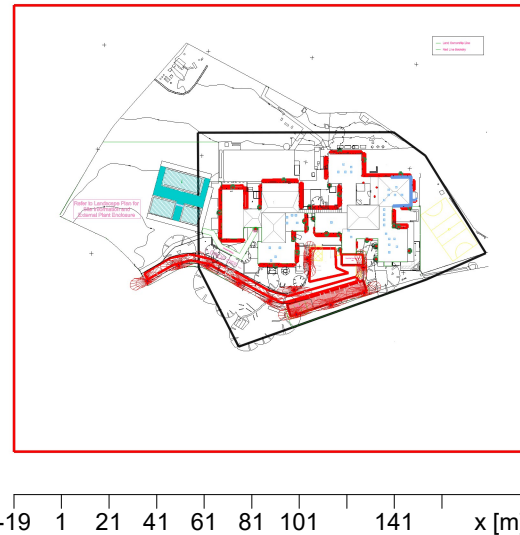
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	36.1 lx
Minimum illuminance	E_{min}	23 lx
Maximum illuminance	E_{max}	42.6 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.57 (0.64)
Diversity U_d	E_{min}/E_{max}	1:1.85 (0.54)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

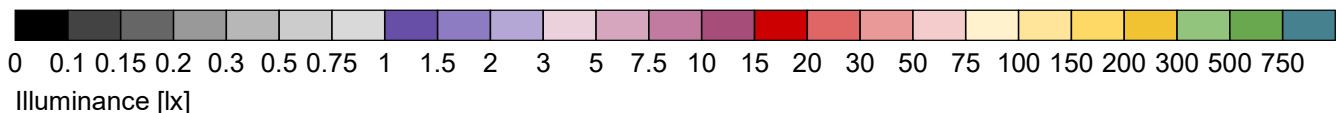
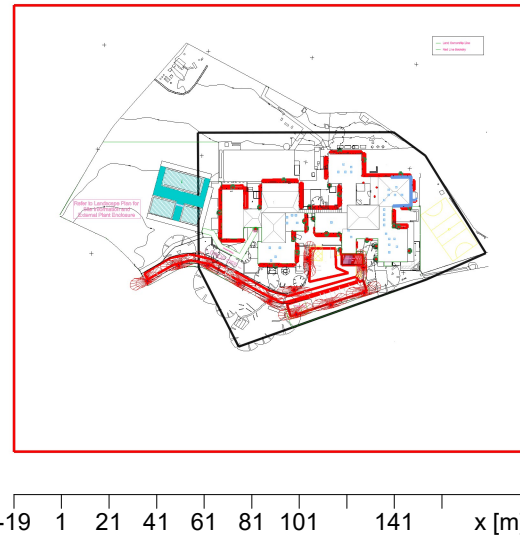
2.1.2 Result overview, Measuring area 2

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.3 Result overview, Measuring area 3



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	17.6 lx
Minimum illuminance	E_{min}	6.6 lx
Maximum illuminance	E_{max}	49.6 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.65 (0.38)
Diversity U_d	E_{min}/E_{max}	1:7.49 (0.13)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.3 Result overview, Measuring area 3

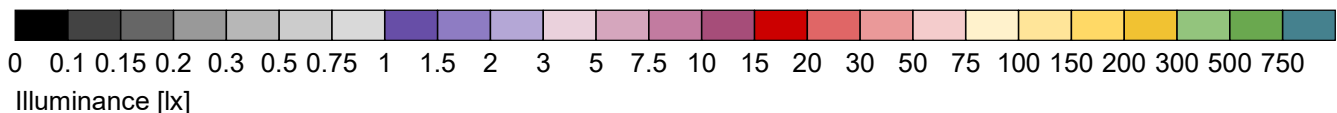
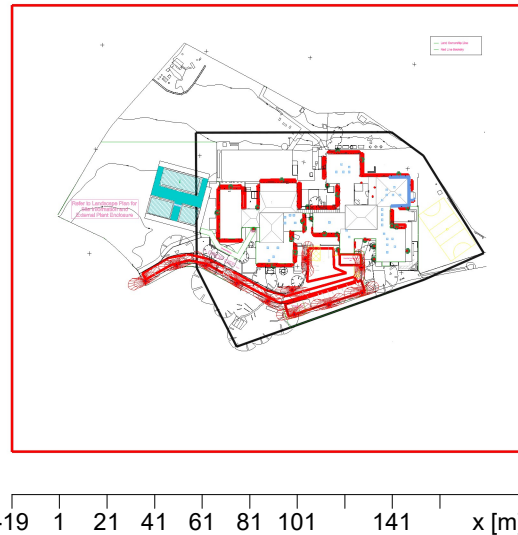
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.4 Result overview, Measuring area 4



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	58.4 lx
Minimum illuminance	E_{min}	28.2 lx
Maximum illuminance	E_{max}	88.7 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.07 (0.48)
Diversity U_d	E_{min}/E_{max}	1:3.15 (0.32)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

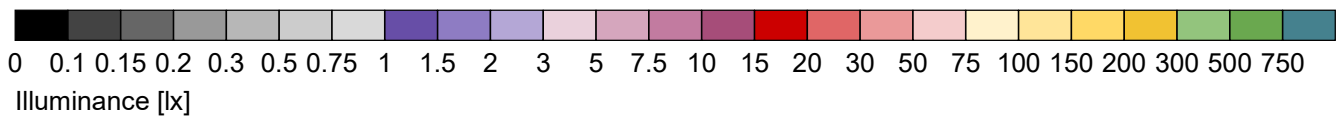
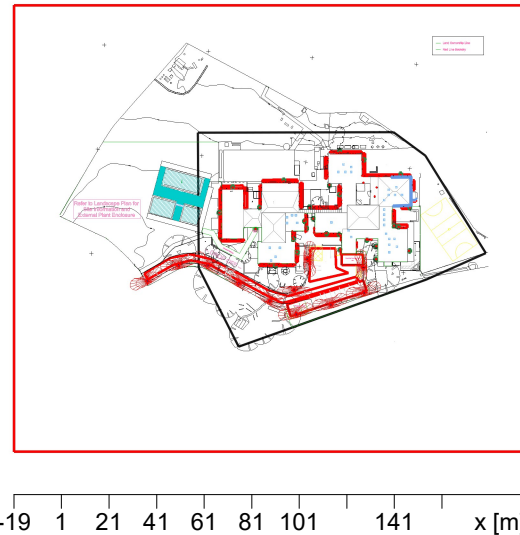
2.1.4 Result overview, Measuring area 4

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.5 Result overview, Measuring area 5



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	87 lx
Minimum illuminance	E_{min}	63 lx
Maximum illuminance	E_{max}	113 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.37 (0.73)
Diversity U_d	E_{min}/E_{max}	1:1.79 (0.56)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.5 Result overview, Measuring area 5

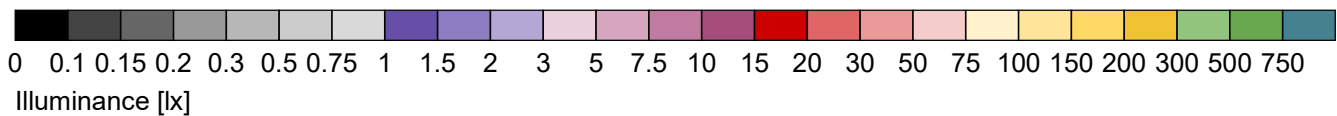
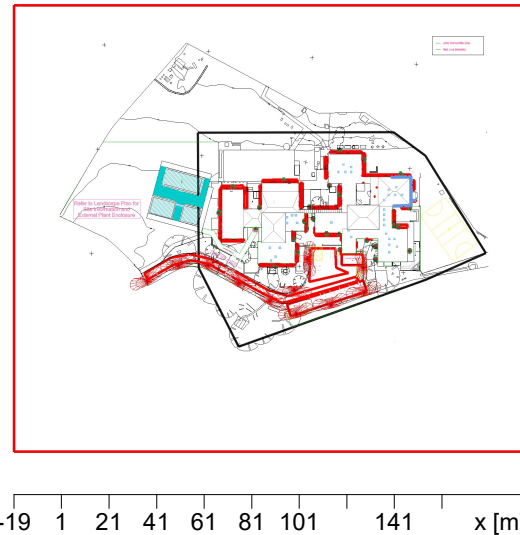
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.6 Result overview, Measuring area 6



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	91 lx
Minimum illuminance	E_{min}	72 lx
Maximum illuminance	E_{max}	101 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.26 (0.79)
Diversity U_d	E_{min}/E_{max}	1:1.4 (0.71)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.6 Result overview, Measuring area 6

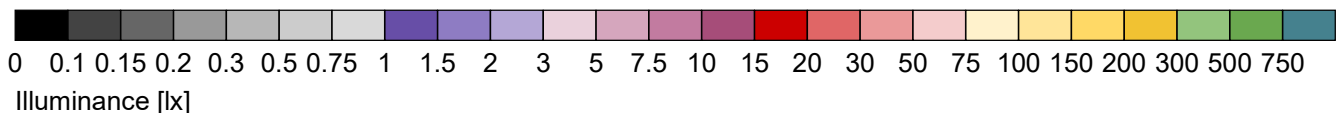
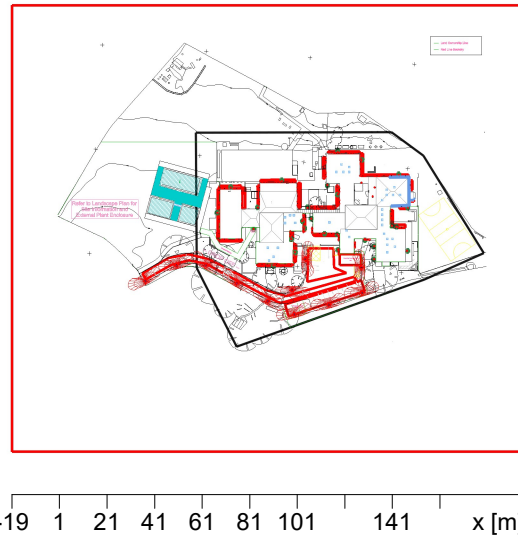
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.7 Result overview, Measuring area 7



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	60.2 lx
Minimum illuminance	E_{min}	22.2 lx
Maximum illuminance	E_{max}	88.9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.71 (0.37)
Diversity U_d	E_{min}/E_{max}	1:4 (0.25)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

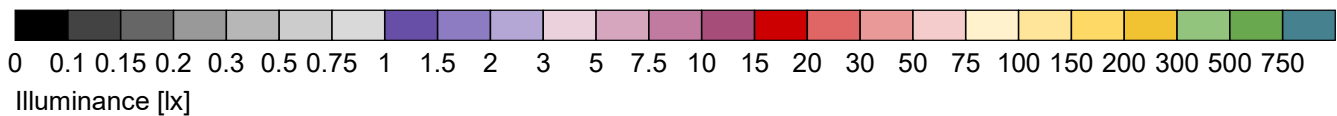
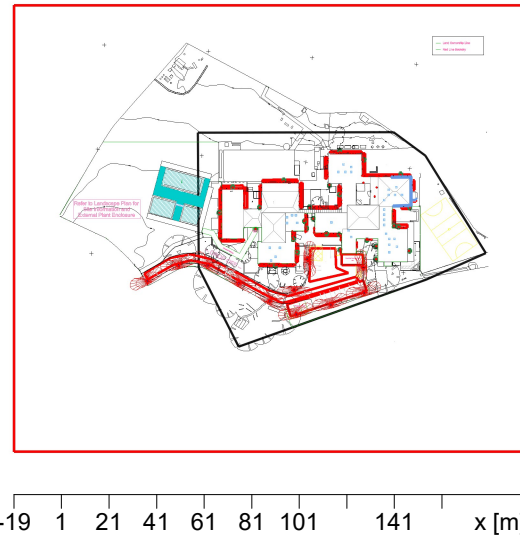
2.1.7 Result overview, Measuring area 7

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.8 Result overview, Measuring area 8



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	64.6 lx
Minimum illuminance	E_{min}	20.1 lx
Maximum illuminance	E_{max}	94.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.22 (0.31)
Diversity U_d	E_{min}/E_{max}	1:4.71 (0.21)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.8 Result overview, Measuring area 8

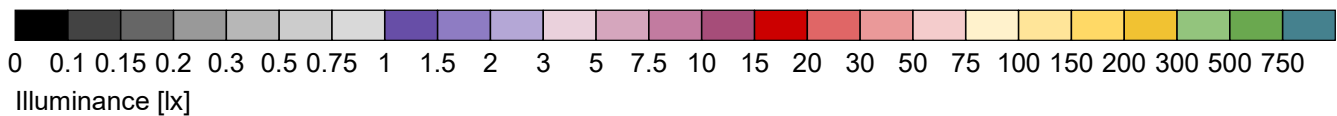
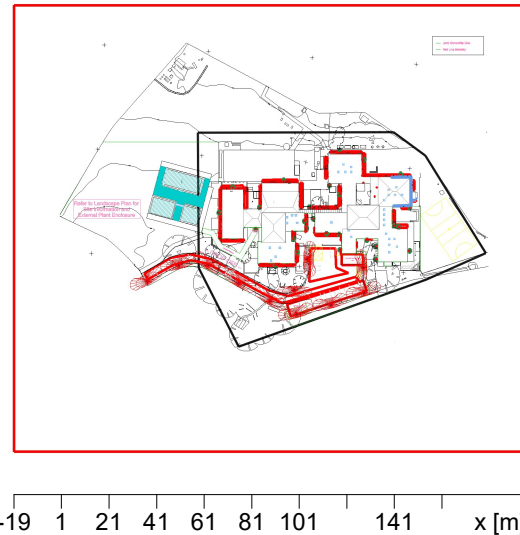
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.9 Result overview, Measuring area 9



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	60.5 lx
Minimum illuminance	E_{min}	19.8 lx
Maximum illuminance	E_{max}	90.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.05 (0.33)
Diversity U_d	E_{min}/E_{max}	1:4.55 (0.22)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.9 Result overview, Measuring area 9

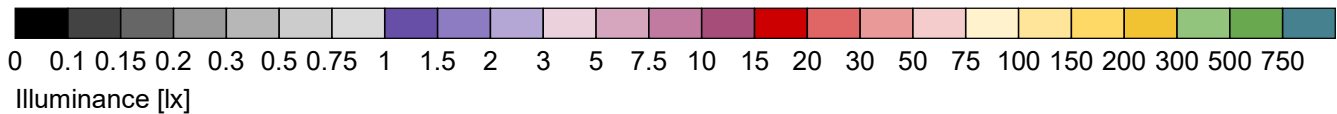
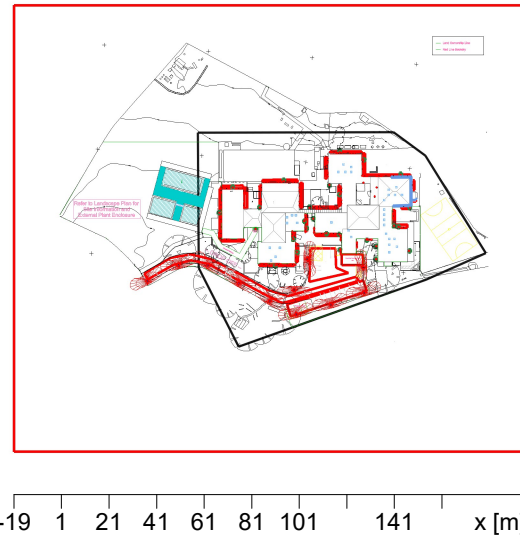
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.10 Result overview, Measuring area 10



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	76 lx
Minimum illuminance	E_{min}	53 lx
Maximum illuminance	E_{max}	121 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.41 (0.71)
Diversity U_d	E_{min}/E_{max}	1:2.26 (0.44)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.10 Result overview, Measuring area 10

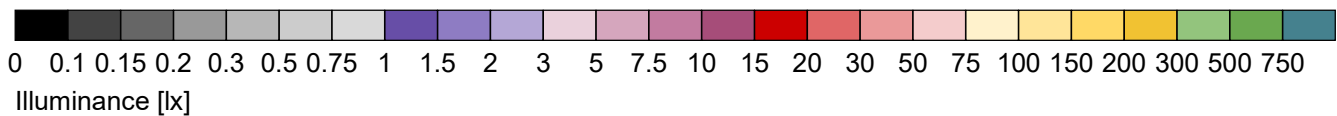
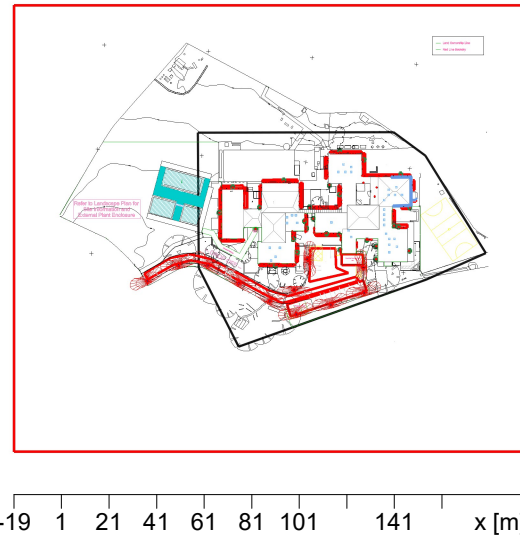
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.11 Result overview, Measuring area 11



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	80 lx
Minimum illuminance	E_{min}	45 lx
Maximum illuminance	E_{max}	123 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.77 (0.57)
Diversity U_d	E_{min}/E_{max}	1:2.72 (0.37)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

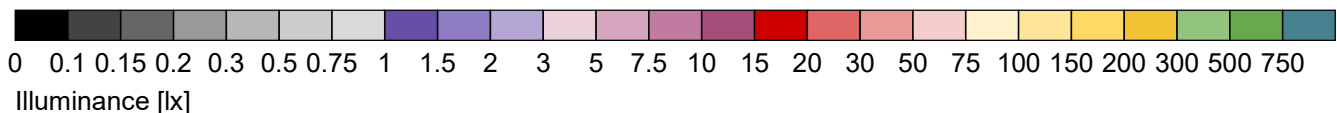
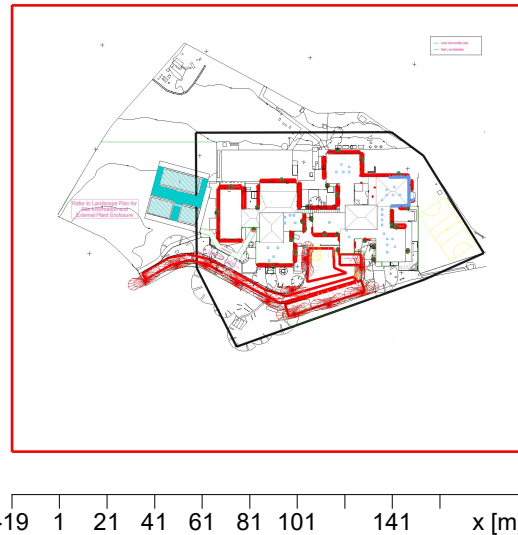
2.1.11 Result overview, Measuring area 11

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.12 Result overview, Measuring area 12



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	59 lx
Minimum illuminance	E_{min}	23 lx
Maximum illuminance	E_{max}	121 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.57 (0.39)
Diversity U_d	E_{min}/E_{max}	1:5.26 (0.19)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.12 Result overview, Measuring area 12

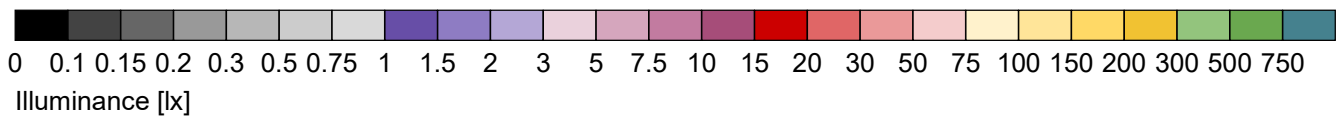
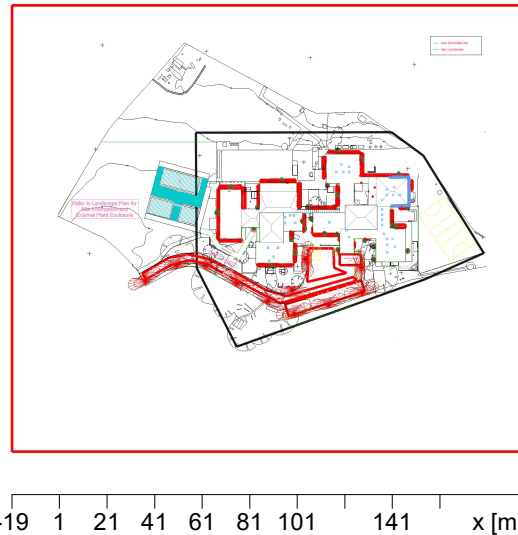
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.13 Result overview, Measuring area 13



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	71.8 lx
Minimum illuminance	E_{min}	40.3 lx
Maximum illuminance	E_{max}	92.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.78 (0.56)
Diversity U_d	E_{min}/E_{max}	1:2.3 (0.43)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

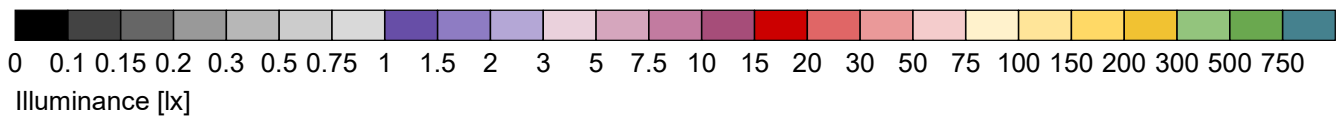
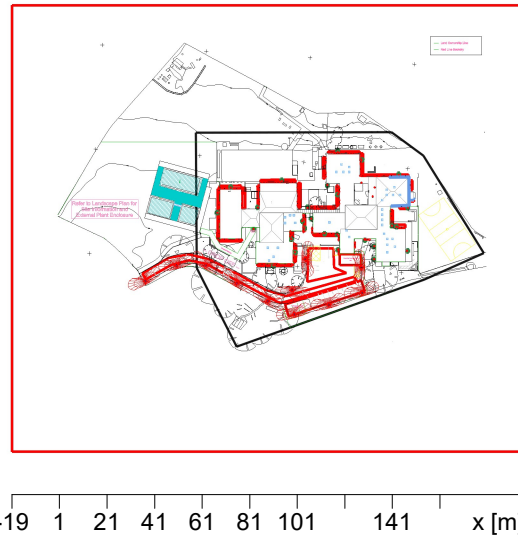
2.1.13 Result overview, Measuring area 13

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.14 Result overview, Measuring area 14



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	68.4 lx
Minimum illuminance	E_{min}	37.4 lx
Maximum illuminance	E_{max}	97.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.83 (0.55)
Diversity U_d	E_{min}/E_{max}	1:2.6 (0.39)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.14 Result overview, Measuring area 14

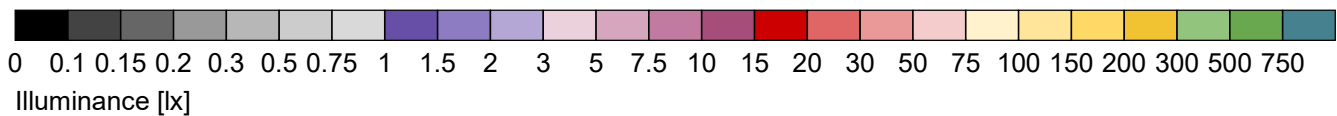
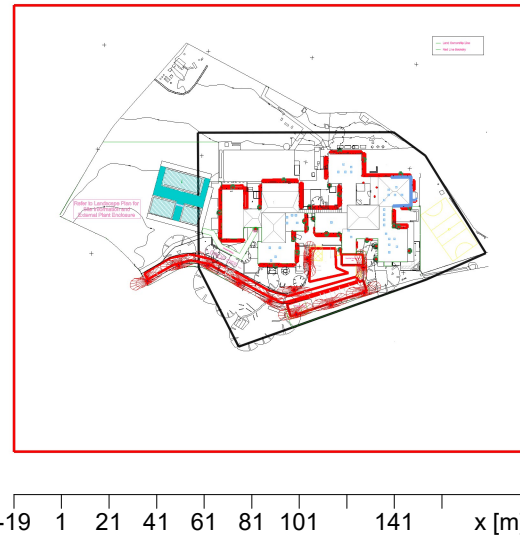
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.15 Result overview, Measuring area 15



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	67.5 lx
Minimum illuminance	E_{min}	33.8 lx
Maximum illuminance	E_{max}	91.9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2 (0.5)
Diversity U_d	E_{min}/E_{max}	1:2.72 (0.37)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

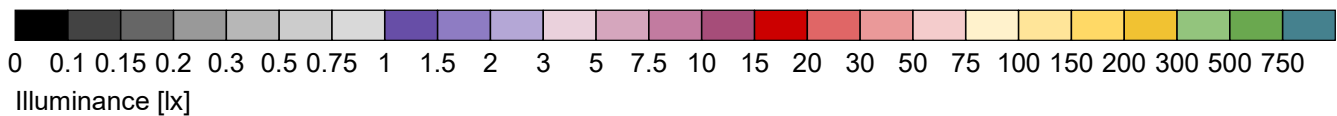
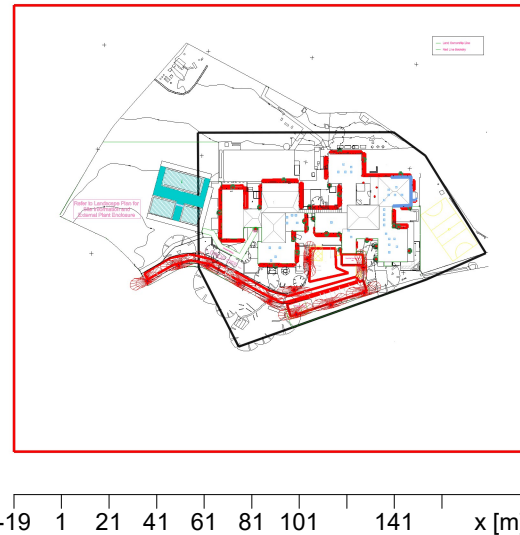
2.1.15 Result overview, Measuring area 15

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.16 Result overview, Measuring area 16



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	64.7 lx
Minimum illuminance	E_{min}	27.5 lx
Maximum illuminance	E_{max}	89.1 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.36 (0.42)
Diversity U_d	E_{min}/E_{max}	1:3.25 (0.31)

Type No. Make

Dextra Group PLC		
1 30E x	Order No. : AME2 NM3 LE3	-- Emergency Lighting --
	Luminaire name : A1	
	Equipment : 1 x Dextra 2.5 W / 171 lm	
	Emergency : 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

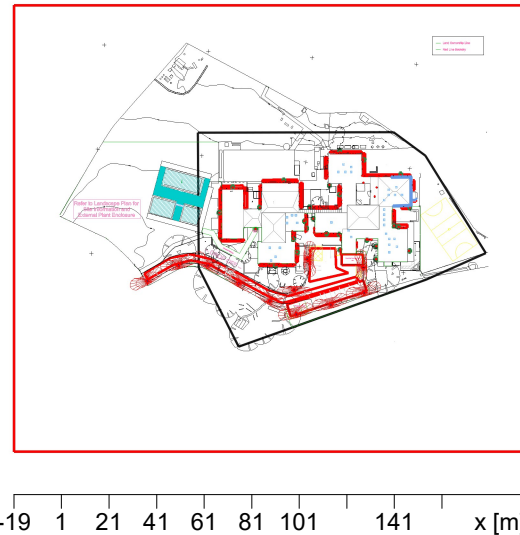
2.1.16 Result overview, Measuring area 16

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.17 Result overview, Measuring area 17



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	59.6 lx
Minimum illuminance	E_{min}	29.9 lx
Maximum illuminance	E_{max}	87.9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.99 (0.5)
Diversity U_d	E_{min}/E_{max}	1:2.93 (0.34)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.17 Result overview, Measuring area 17

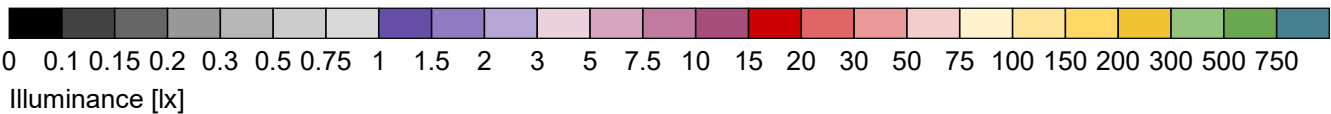
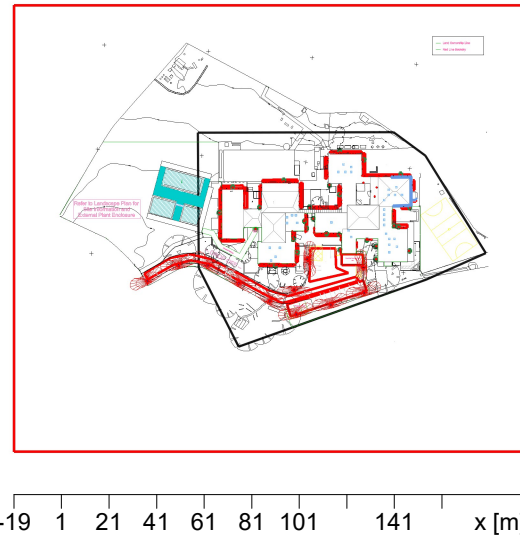
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.18 Result overview, Measuring area 19



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	72.9 lx
Minimum illuminance	E_{min}	49.9 lx
Maximum illuminance	E_{max}	93.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.46 (0.69)
Diversity U_d	E_{min}/E_{max}	1:1.87 (0.53)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.18 Result overview, Measuring area 19

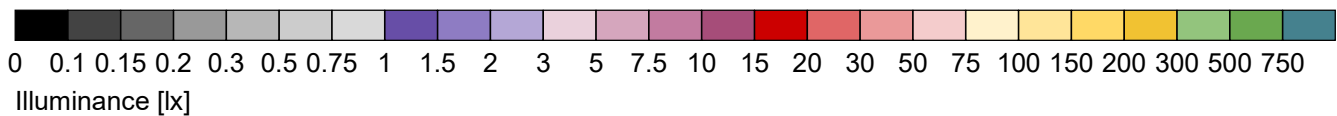
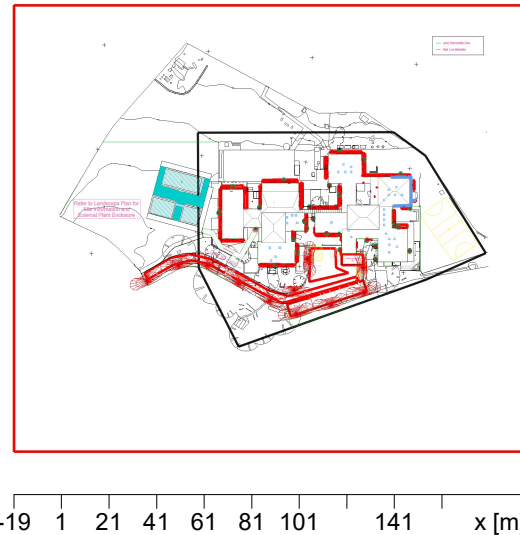
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.19 Result overview, Measuring area 20



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	88 lx
Minimum illuminance	E_{min}	61 lx
Maximum illuminance	E_{max}	101 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.45 (0.69)
Diversity U_d	E_{min}/E_{max}	1:1.67 (0.6)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.19 Result overview, Measuring area 20

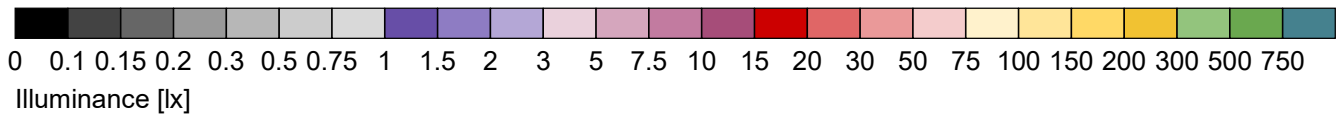
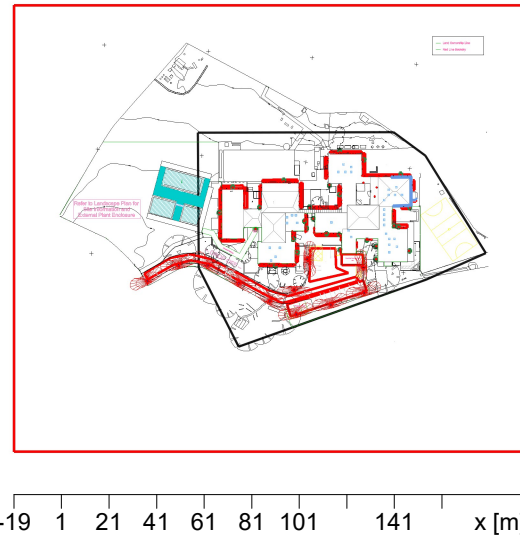
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.20 Result overview, Measuring area 21



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	77 lx
Minimum illuminance	E_{min}	52 lx
Maximum illuminance	E_{max}	117 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.47 (0.68)
Diversity U_d	E_{min}/E_{max}	1:2.24 (0.45)

Type No. Make

Dextra Group PLC		
1 30E x	Order No. : AME2 NM3 LE3	-- Emergency Lighting --
	Luminaire name : A1	
	Equipment : 1 x Dextra 2.5 W / 171 lm	
	Emergency : 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.20 Result overview, Measuring area 21

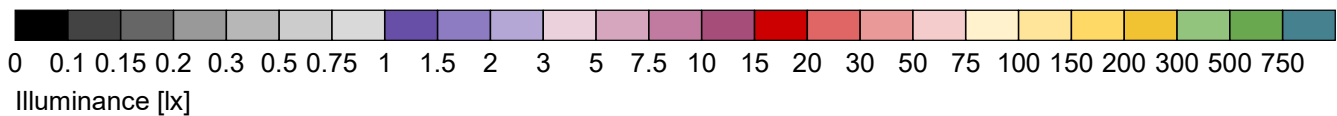
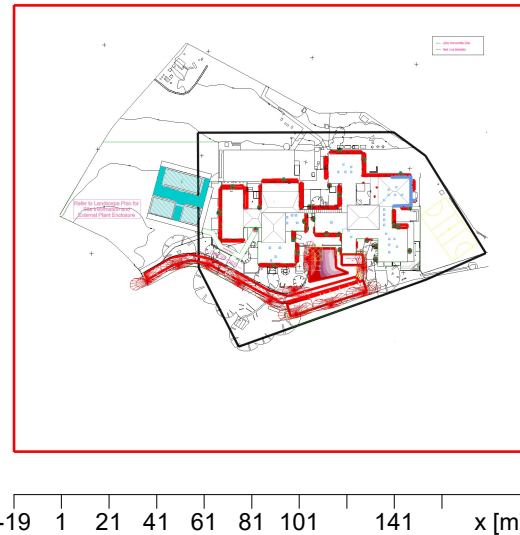
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.21 Result overview, Measuring area 22



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	12.4 lx
Minimum illuminance	E_{min}	4 lx
Maximum illuminance	E_{max}	25.7 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.07 (0.33)
Diversity U_d	E_{min}/E_{max}	1:6.4 (0.16)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.21 Result overview, Measuring area 22

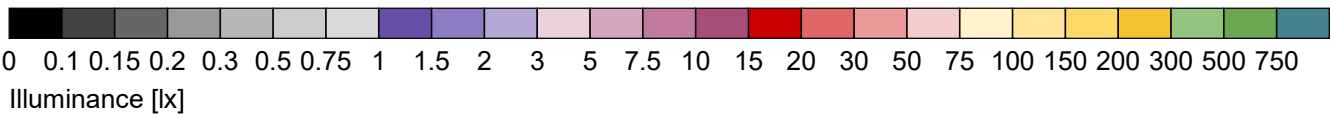
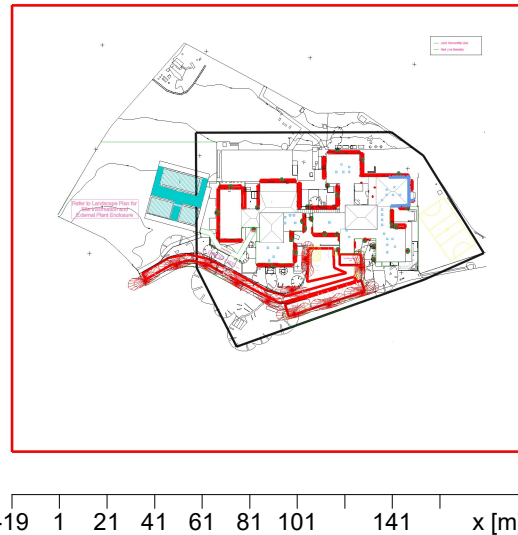
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.22 Result overview, Measuring area 23



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	72.3 lx
Minimum illuminance	E_{min}	40 lx
Maximum illuminance	E_{max}	96.1 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.81 (0.55)
Diversity U_d	E_{min}/E_{max}	1:2.4 (0.42)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.22 Result overview, Measuring area 23

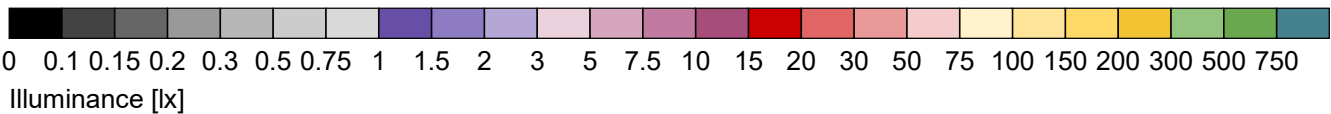
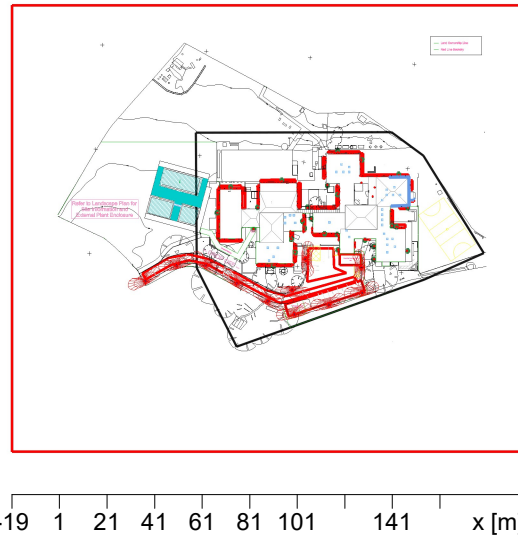
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.23 Result overview, Measuring area 24



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	77.2 lx
Minimum illuminance	E_{min}	46.4 lx
Maximum illuminance	E_{max}	97.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.66 (0.6)
Diversity U_d	E_{min}/E_{max}	1:2.1 (0.48)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.23 Result overview, Measuring area 24

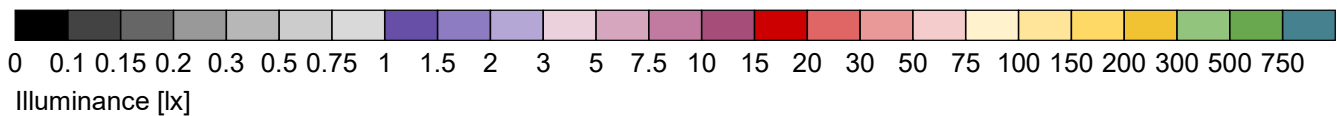
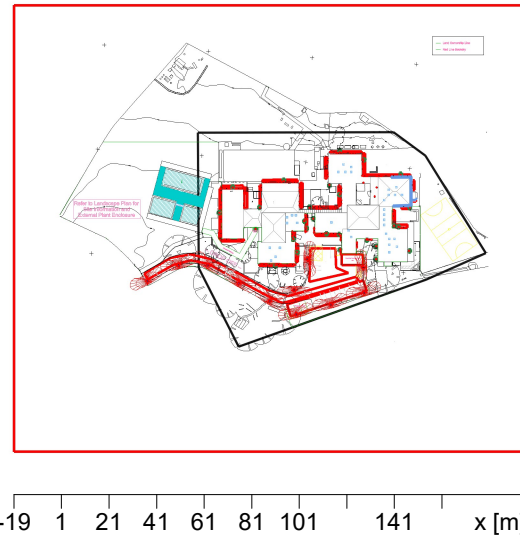
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.24 Result overview, Measuring area 25



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	73.6 lx
Minimum illuminance	E_{min}	40.6 lx
Maximum illuminance	E_{max}	94.4 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.81 (0.55)
Diversity U_d	E_{min}/E_{max}	1:2.32 (0.43)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.24 Result overview, Measuring area 25

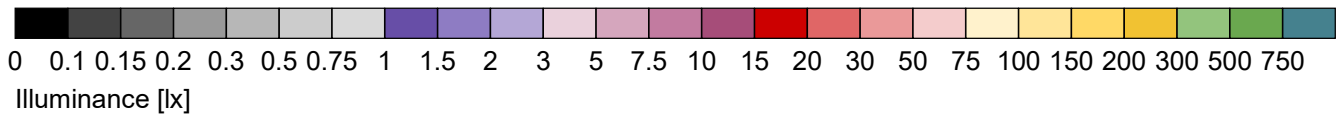
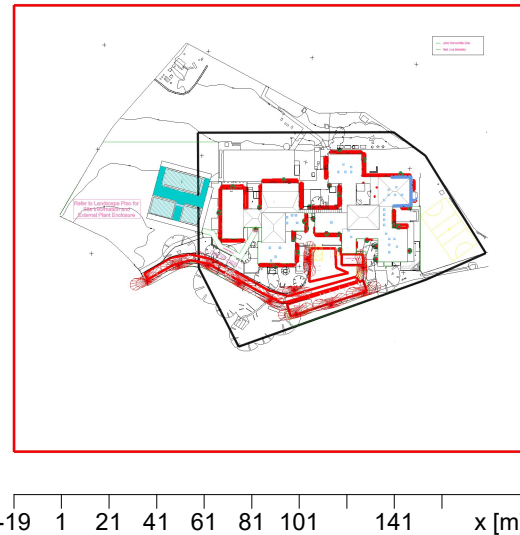
2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.25 Result overview, Pipistrelle Bat Roost Area



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	0.02 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	0.06 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

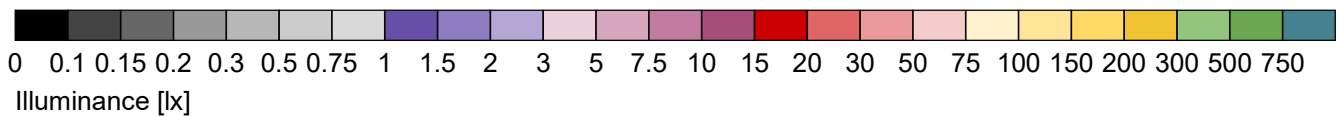
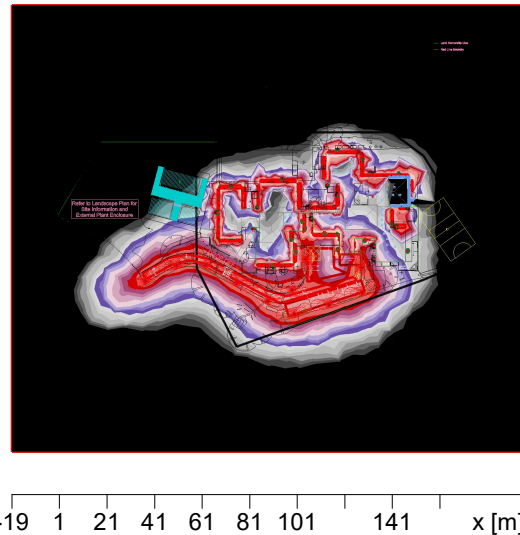
2.1.25 Result overview, Pipistrelle Bat Roost Area

2 11 x  Order No. : OPUCL L70 W C727
Luminaire name : O1
Equipment : 1 x Dextra 41.1 W / 6256 lm
Emergency : 1049 lm (16.8 %)

3 49 x  Order No. : OPUWP L15 AS C727
Luminaire name : W1
Equipment : 1 x Dextra 10.8 W / 1213 lm
Emergency : 647 lm (53.3 %)

2.1 Summary, Exterior 1, Light scene 1(C)

2.1.26 Result overview, Light Spill



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85

Total luminous flux	133383 lm
Total power	1056.3 W
Total power per area (7787.22 m²)	0.14 W/m²
Upward light ratio (RUL)	17 %

Illuminance

Average illuminance	$\bar{E}_m$	2.9 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	87.7 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No. Make

Dextra Group PLC

1	30E x	Order No.	: AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name	: A1	
		Equipment	: 1 x Dextra 2.5 W / 171 lm	
		Emergency	: 171 lm (100.0 %)	

The ULR value has been calculated without obstruction by other objects.

Object : Ysgol Rhyd y Grug
Installation : External Lighting Design
Project number : 654437
Date : 31.03.2026

2.1 Summary, Exterior 1, Light scene 1(C)

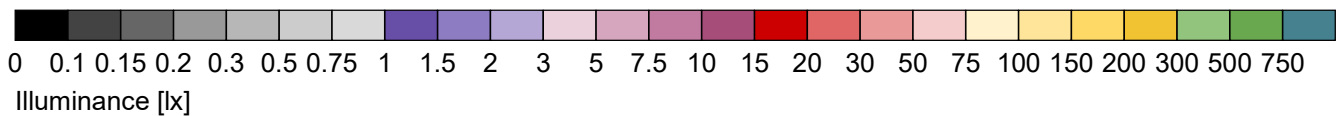
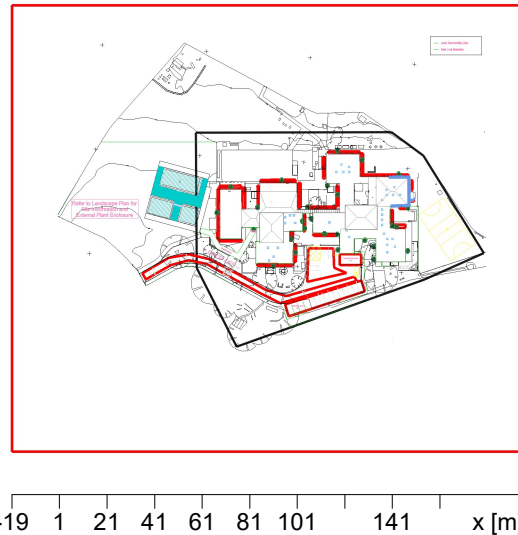
2.1.26 Result overview, Light Spill

2	11 x	Order No.	: OPUCL L70 W C727
		Luminaire name	: O1
		Equipment	: 1 x Dextra 41.1 W / 6256 lm
		Emergency	: 1049 lm (16.8 %)
3	49 x	Order No.	: OPUWP L15 AS C727
		Luminaire name	: W1
		Equipment	: 1 x Dextra 10.8 W / 1213 lm
		Emergency	: 647 lm (53.3 %)

2 Exterior 1

2.2 Summary, Exterior 1, Light scene 1(C)

2.2.1.1 Result overview (emergency lighting)



General

Calculation algorithm used : Direct component
 Maintenance factor : 0.8
 Height (phot centre) : 1.90 m
 Maximum I : 66 cd <= 500 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
-----	-----------	-------------------	----

Anti panic area 1

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

1	1.00 lx >= 1 lx	6.81 lx >= 1 : 40	1: 6.81
---	--	--	---------



Anti panic area 2

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

2	1.31 lx >= 1 lx	7.92 lx >= 1 : 40	1: 6.02
---	--	--	---------



Anti panic area 3

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

3	1.58 lx >= 1 lx	7.57 lx >= 1 : 40	1: 4.79
---	--	--	---------



2 Exterior 1

2.2 Summary, Exterior 1, Light scene 1(C)

2.2.1.1 Result overview (emergency lighting)

Anti panic area 4

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

4	1.69 lx	7.96 lx	1: 4.70
	>= 1 lx		>= 1 : 40



Anti panic area 5

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

5	1.64 lx	7.51 lx	1: 4.57
	>= 1 lx		>= 1 : 40



Anti panic area 6

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

6	1.07 lx	6.80 lx	1: 6.34
	>= 1 lx		>= 1 : 40



Anti panic area 7

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

7	1.27 lx	7.02 lx	1: 5.53
	>= 1 lx		>= 1 : 40



Anti panic area 8

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

8	2.08 lx	7.31 lx	1: 3.52
	>= 1 lx		>= 1 : 40



Anti panic area 9

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

9	1.40 lx	7.07 lx	1: 5.06
	>= 1 lx		>= 1 : 40



Anti panic area 10

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

10	1.01 lx	6.83 lx	1: 6.75
	>= 1 lx		>= 1 : 40



Anti panic area 11

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

11	1.58 lx	6.68 lx	1: 4.24
	>= 1 lx		>= 1 : 40



Anti panic area 12

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

12	1.32 lx	8.84 lx	1: 6.71
	>= 1 lx		>= 1 : 40



Anti panic area 13

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

13	1.18 lx	9.37 lx	1: 7.91
	>= 1 lx		>= 1 : 40



2 Exterior 1

2.2 Summary, Exterior 1, Light scene 1(C)

2.2.1.1 Result overview (emergency lighting)

Anti panic area 15

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

14	1.22 lx	6.87 lx	1: 5.61
	>= 1 lx		>= 1 : 40



Anti panic area 16

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

15	1.46 lx	6.87 lx	1: 4.70
	>= 1 lx		>= 1 : 40



Anti panic area 17

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

16	1.91 lx	6.74 lx	1: 3.53
	>= 1 lx		>= 1 : 40



Anti panic area 18

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

17	1.34 lx	6.92 lx	1: 5.15
	>= 1 lx		>= 1 : 40



Anti panic area 19

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

18	1.34 lx	7.08 lx	1: 5.28
	>= 1 lx		>= 1 : 40



Anti panic area 20

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

19	1.50 lx	6.83 lx	1: 4.57
	>= 1 lx		>= 1 : 40



Anti panic area 21

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

20	1.51 lx	6.83 lx	1: 4.53
	>= 1 lx		>= 1 : 40



Anti panic area 22

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

21	1.09 lx	6.79 lx	1: 6.24
	>= 1 lx		>= 1 : 40



Anti panic area 23

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

22	1.17 lx	6.77 lx	1: 5.81
	>= 1 lx		>= 1 : 40



Anti panic area 24

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

23	1.16 lx	6.79 lx	1: 5.86
	>= 1 lx		>= 1 : 40



Object : Ysgol Rhyd y Grug
 Installation : External Lighting Design
 Project number : 654437
 Date : 31.03.2026

2 Exterior 1

2.2 Summary, Exterior 1, Light scene 1(C)

2.2.1.1 Result overview (emergency lighting)

Anti panic area 25

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

24	1.00 lx	6.82 lx	1: 6.79
	>= 1 lx		>= 1 : 40



Anti panic area 26

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

25	1.37 lx	6.84 lx	1: 5.01
	>= 1 lx		>= 1 : 40



Anti panic area 27

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

26	1.26 lx	6.68 lx	1: 5.32
	>= 1 lx		>= 1 : 40



Anti panic area 28

Calculation field: 1.01m x 1.26m (5 x 6 pts), Height = 0.00m

27	0.10 lx	6.70 lx	1: 66.54
	>= 1 lx		>= 1 : 40



Type No. Make

Dextra Group PLC

1	30E x	Order No. : AME2 NM3 LE3	-- Emergency Lighting --
		Luminaire name : A1	
		Equipment : 1 x Dextra 2.5 W / 171 lm	
		Emergency : 171 lm (100.0 %)	
		Maintenance factor: 0.80	

