

The Phoenix School - External Lighting

Installation : The Phoenix School - External Lighting - 16.01.24

Project number : NETLD24-007

Customer : KM Electrical Wholesale Ltd

Processed by : Marcos Magalhaes

Date : 16.01.2024

Disclaimer:

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Assumptions used in this Lighting Guide

1. Lighting calculations are prepared based on the information and any drawings provided to NET LED.
2. It is assumed that drawings are to scale and that sizing is correct.
3. All lighting data and IES data files are provided by the original luminaire manufacturers.
4. Reflective values are assumed as follows: walls 50%, ceiling 70% and floor 20%. These values are used unless specified otherwise.
5. The reference plane is assumed to be 0.75m unless specified otherwise.
6. The maintenance factor is 0.9.
7. Further technical data are available on request.
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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.

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1 Luminaire data

1.1 EASTON 40W EM LED Wallpack ... (NET-51-11-42)

1.1.1 Data sheet

NET-51-11-42 User Product EASTON 40W EM LED Wallpack Tri-Colour - LBF - 7.5%

Manufactured by Sealite, The Easton Range Wallpack has a Philips driver as standard with a colour temperature of 3000K, 4000K or 5500K. It has a weather and dust-proof IP65 rated aluminium housing with polycarbonate diffuser and a photocell sensor to ensure the unit is switched off during daylight hours (may be bypassed as required).

FEATURE & BENEFITS

- Weather and dust-proof IP65 rated housing.
- Integral photocell ensures unit is only operational from dusk to dawn.
- Photocell feature can be bypassed as required.
- IK08 rated housing.

 Product without accessories

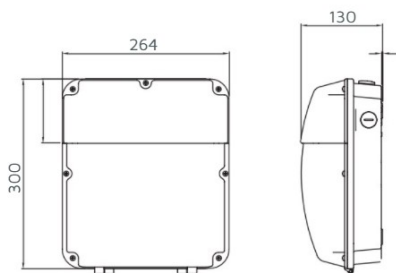
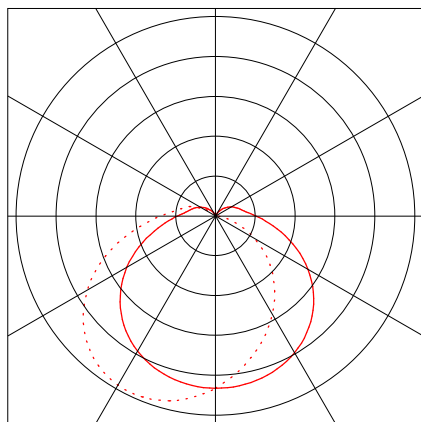
Luminaire data

Luminaire efficiency : 92.1%
 Luminaire efficacy : 78.97 lm/W
 Classification : B31 ↓87.8% ↑12.2%
 CIE Flux Codes : 38 68 88 88 92
 UGR 4H 8H : 22.4 / 24.9
 Power : 35 W
 Luminous flux : 2763.9 lm

Dimensions : 310 mm x 270 mm x 130 mm

Equipped with

Quantity : 1
 Designation : EMERGENCY
 EASTON 40W
 IP65 LED
 Power : 40 W
 Colour : 3000K-4000K-5000K
 Luminous flux : 3001 lm
 Colour reproduction : >80



All units are in mm

Emergency Lighting

Light source from normal operation with reduced flux
 Luminous flux : 225 lm



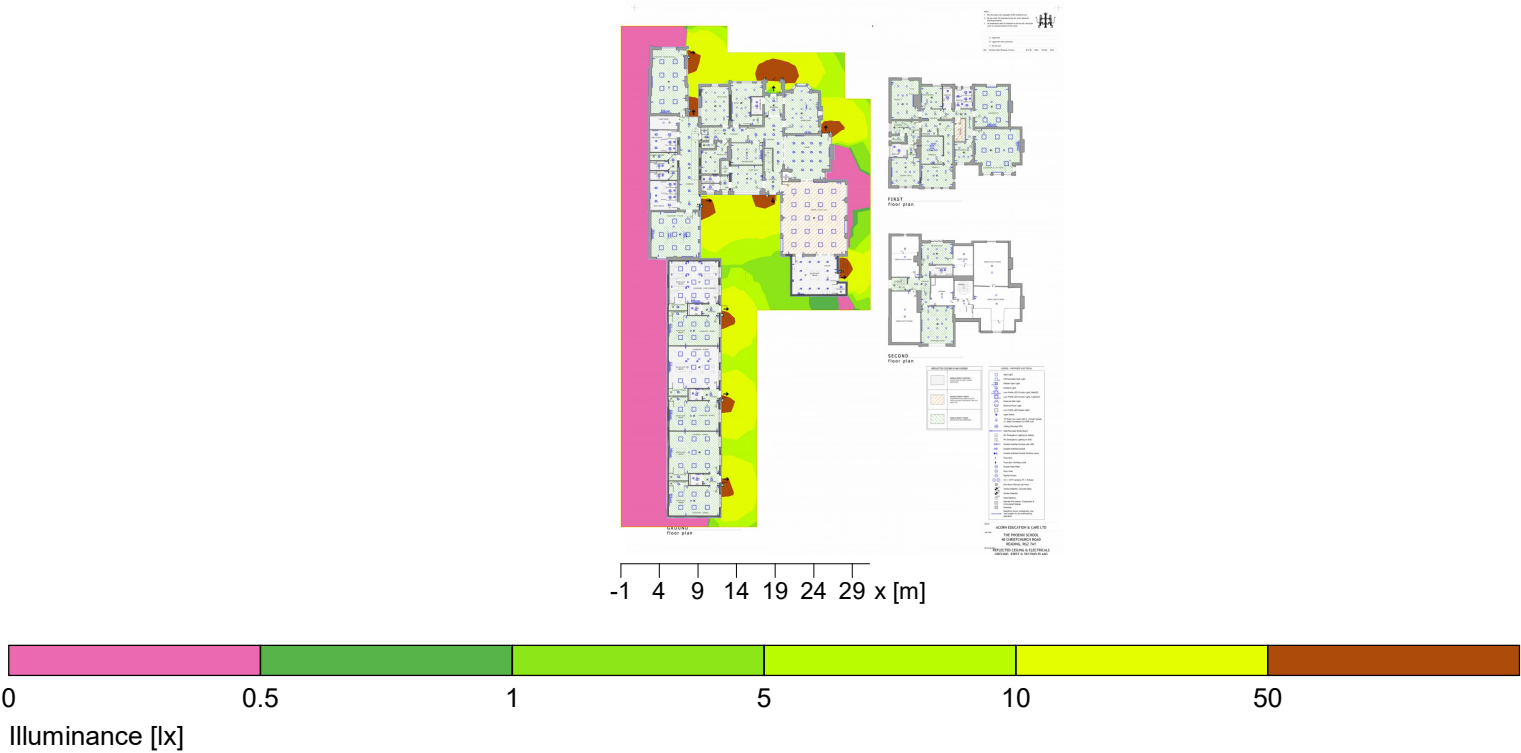
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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot centre)	2.93 m
Maintenance factor	0.90
Total luminous flux	33011.00 lm
Total power	385.0 W
Total power per area (1591.66 m²)	0.24 W/m² (2.25 W/m²/100lx)

Evaluation area 1

	Reference plane 1.1
	Horizontal
$\bar{E}_m$	10.8 lx
E_{min}	0 lx
$E_{min}/\bar{E}_m (U_o)$	---
$E_{min}/E_{max} (U_d)$	---
Position	0.00 m

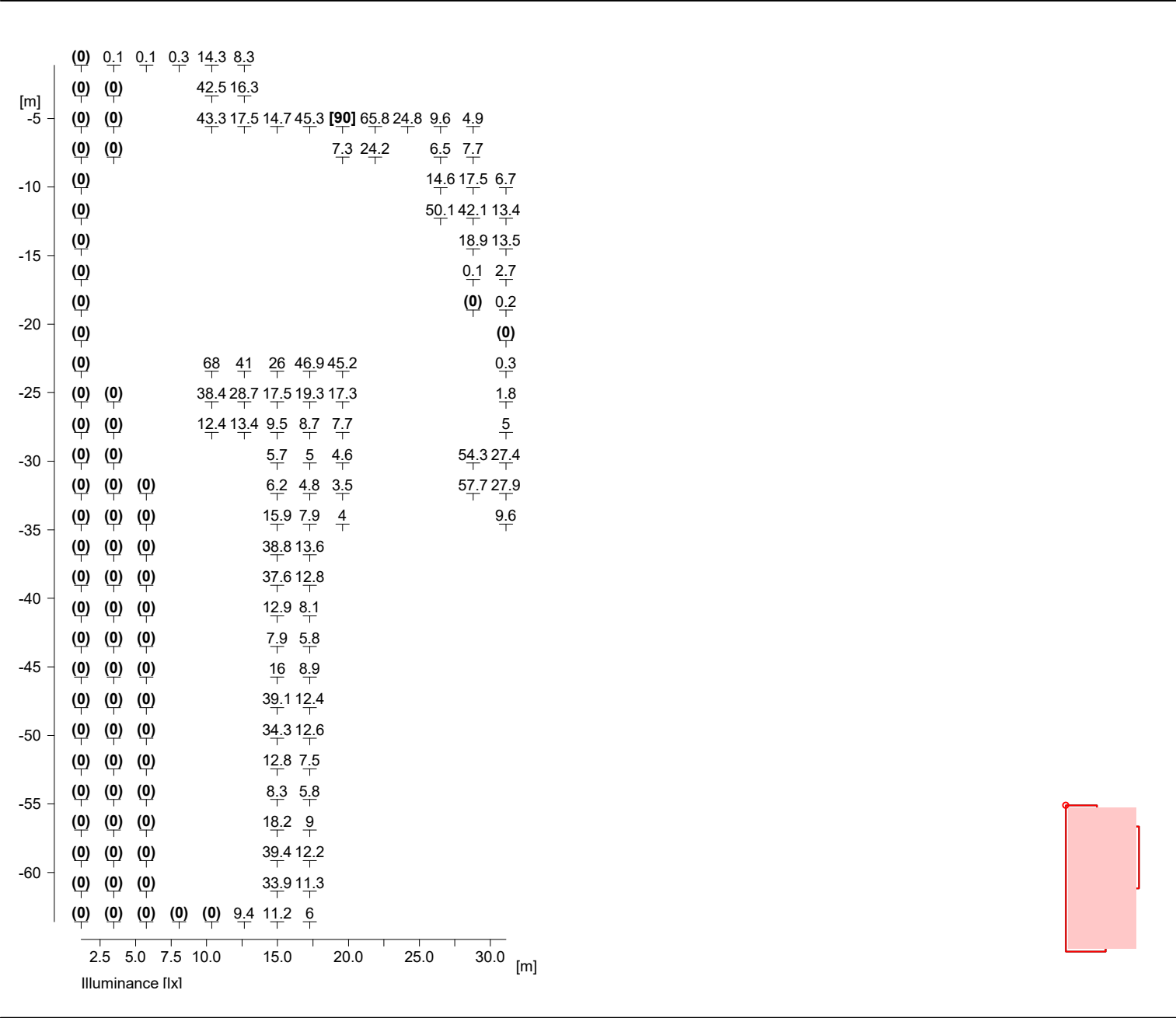
Type No. Make

1	11E x	Order No.	: NET-51-11-42/---	-- Emergency Lighting --
		Luminaire name	: EASTON 40W EM LED Wallpack Tri-Colour - LBF - 7.5%	
		Equipment	: 1 x EMERGENCY EASTON 40W IP65 LED Wallpack Tri-Colour 40W 40 W / 3001 lm	
		Emergency	: 225 lm (7.5 %)	

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1.1 (E)

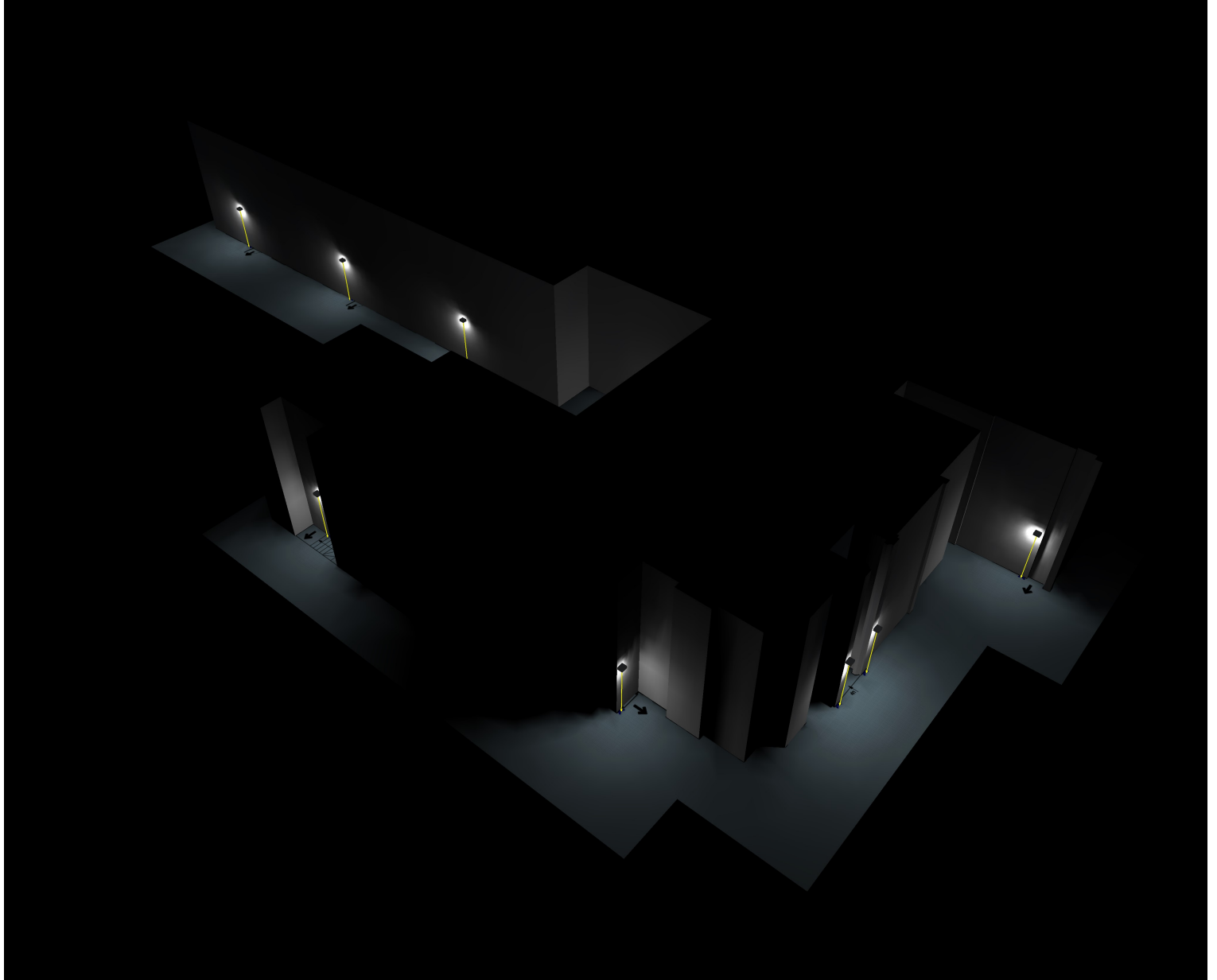


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 10.8 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 90 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---
Diversity U_d	E_{min}/E_{max}	: ---

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2.3 Calculation results, Exterior 1

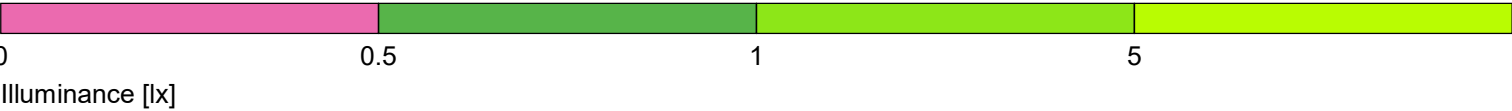
2.3.2 3D luminance, View 1



2 Exterior 1

2.4 Summary, Exterior 1

2.4.1.1 Result overview (emergency lighting)



General

Calculation algorithm used

Maintenance factor

Height (phot. centre)

Maximum I

: Direct component

: 0.8

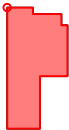
: 2.93 m

: 55 cd

<= 1800 cd

Measuring areas

No.	Surface		
	$\bar{E}_m$	E_{min}	$E_{min}/\bar{E}_m (U_o)$
High risk area 0			
Calculation field: 64.7m x 32.25m (29 x 14 pts), Height = 0.00m			
1	0.71 lx	--	--
	>= 1 lx		>= 0.10



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