



## Chichester Road North Bersted

**Installation : New Proposed Installation**

Project number : QUO-29712-Y1J4B9  
Customer : KEW Electrical Dist Ltd  
Processed by : Antonio Formisano  
Date : 13.02.2020

### Project description:

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

Calculation based on standard reflectance values as 50/30/20 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements, all stated lux values are for overall averages across the room reference plane.

Emergency lighting design has been designed in accordance with BS5266/EN1838/ I.S. 3217 where applicable. The emergency lighting needs to be checked and approved by a local fire control officer. All emergency lighting calculations is completed based on 0.5lux for Open Areas and 1lux for Escape Route.

This emergency lighting does not include the calculation for the location of critical emergency items such as (Plant or Switch rooms location of task, Reception telephone, First Aid Points, Extinguisher points, Call points, push bars, fire panels, etc.) as there are not present on issued drawings, therefore higher require lux levels under emergency conditions cannot be design at this stage.

Please Note: this is a point for point installation as requested by the customer.

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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Ansell Lighting Design Department

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## 1 Luminaire data

### 1.1 ANSELL, FLOODLIGHTING - Mira LED Floodlight (AMLED50)

#### 1.1.1 Data sheet

Manufacturer: ANSELL



AMLED50 Projector FLOODLIGHTING - Mira LED Floodlight

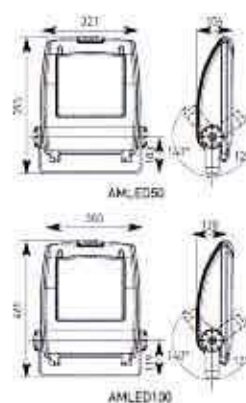
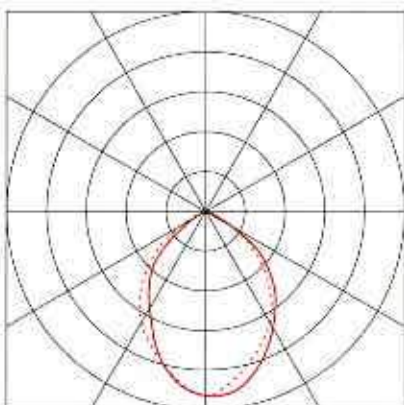
#### Luminaire data

Luminaire efficiency : 82.012%  
 Luminaire efficacy : 96.2 lm/W  
 Classification : A50 ↓100.0% ↑0.0%  
 CIE Flux Codes : 63 93 99 100 82  
 UGR 4H 8H : 25.6 / 24.7  
 Control gear : Electronic ballast  
 Power : 50 W  
 Luminous flux : 4810 lm

#### Equipped with

Quantity : 1  
 Designation : LED  
 Colour : 840/4000K  
 Luminous flux : 5865 lm  
 Socket : —  
 Colour reproduction : 1B/80...89

Dimensions : 319 mm x 394 mm x 106 mm



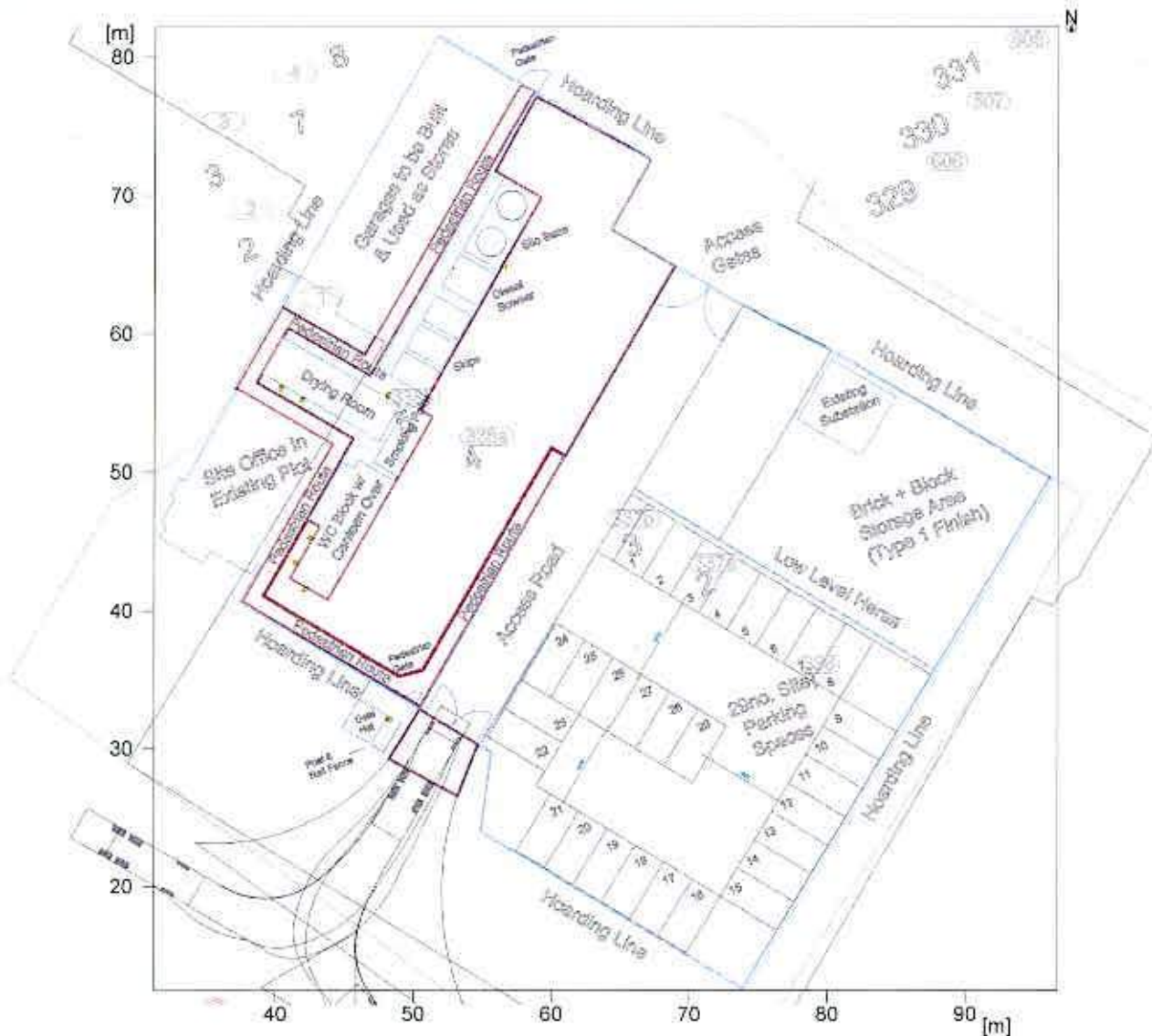
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## 2 Exterior 1

### 2.1 Description, Exterior 1

#### 2.1.1 Floor plan



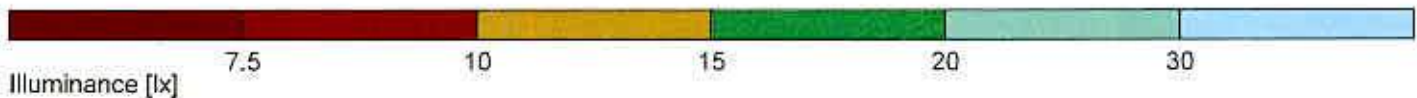
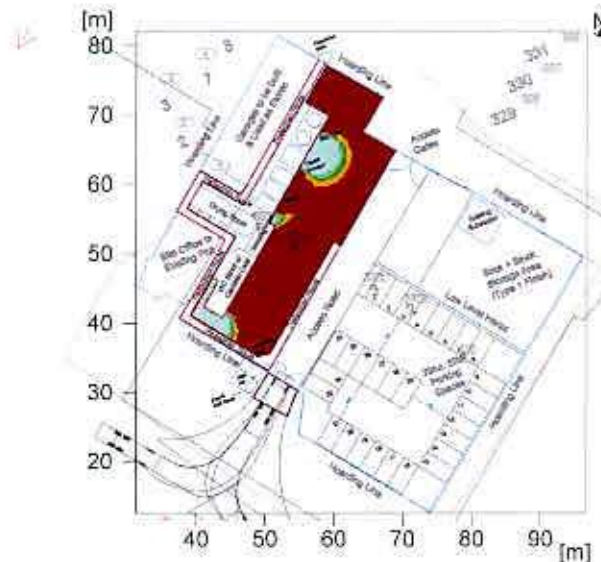
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## 2 Exterior 1

### 2.2 Summary, Exterior 1

#### 2.2.1 Result overview, General Area



#### General

Calculation algorithm used  
 Maintenance factor

Average indirect fraction  
 0.80

Total luminous flux of all lamps

23460.00 lm

Total power

200.0 W

Total power per area (415.97 m<sup>2</sup>)

0.48 W/m<sup>2</sup> (2.89 W/m<sup>2</sup>/100lx)

#### General Area

#### Reference plane 1.1

Horizontal

Em 17 lx  
 Emin 0.0 lx  
 Emin/Em (Uo) 0.00  
 Emin/Emax (Ud) 0.00  
 Upward light ratio (ULR) 0.02  
 Position 0.00 m

#### Type No.1Make

#### ANSELL

1 4  
 Order No. : AMLED50  
 Luminaire name : FLOODLIGHTING - Mira LED Floodlight  
 Equipment : 1 x LED 50 W / 5865 lm

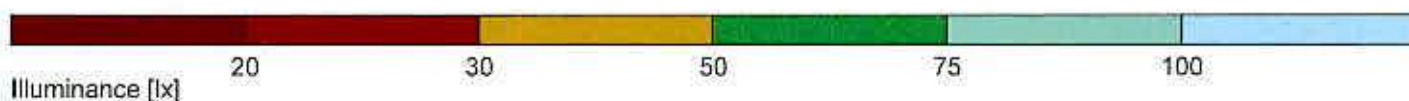
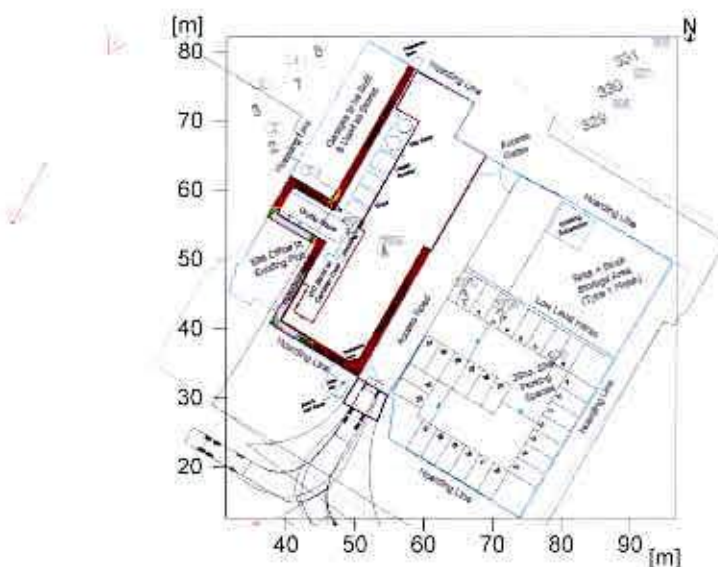


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## 2.2 Summary, Exterior 1

### 2.2.2 Result overview, Pedestrian Route



#### General

Calculation algorithm used  
 Maintenance factor

Average indirect fraction  
 0.80

#### Pedestrian Route

#### Reference plane 2.1

Horizontal

Em 44 lx  
 Emin 0.0 lx  
 Emin/Em (Uo) 0.00  
 Emin/Emax (Ud) 0.00  
 Upward light ratio (ULR) 0.02  
 Position 0.00 m

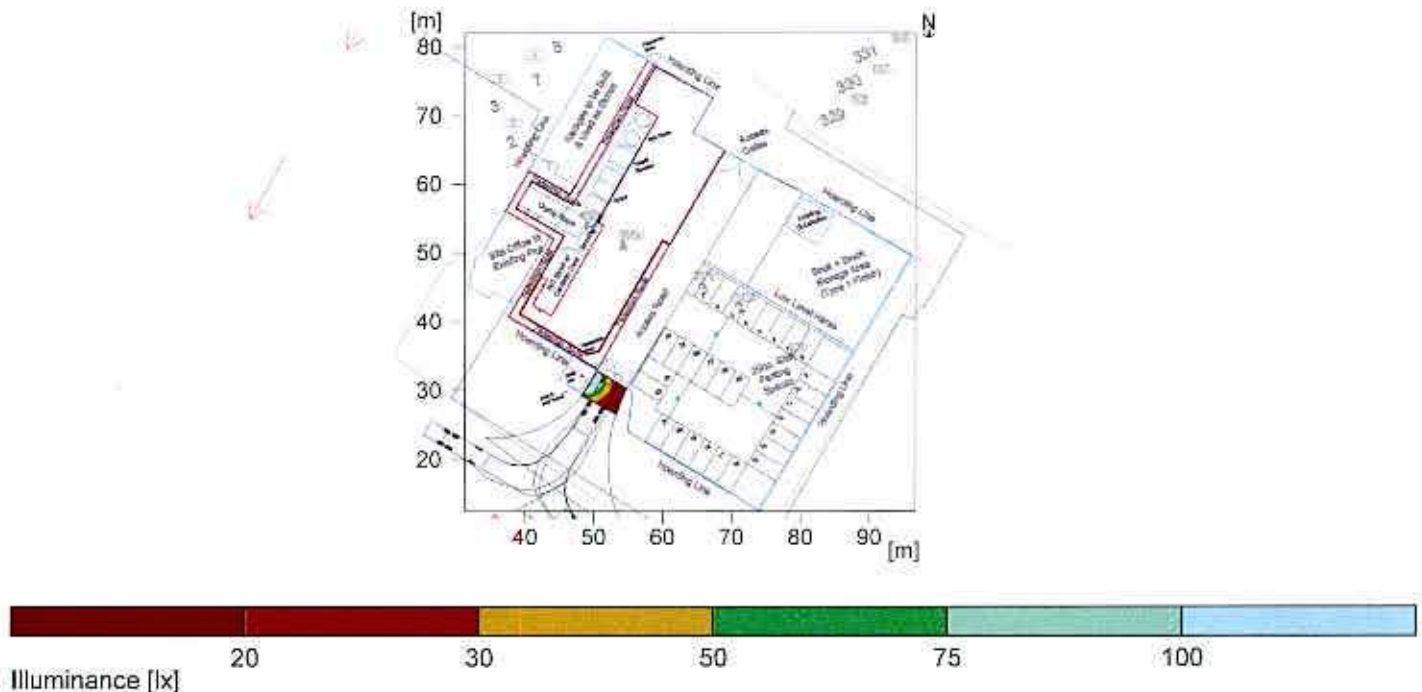
Type No.1Make

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## 2.2 Summary, Exterior 1

### 2.2.3 Result overview, Entrance



#### General

Calculation algorithm used  
 Maintenance factor

Average indirect fraction  
 0.80

#### Entrance

#### Reference plane 3.1

Horizontal  
 Em 51 lx  
 Emin 7 lx  
 Emin/Em (Uo) 0.14  
 Emin/Emax (Ud) 0.03  
 Upward light ratio (ULR) 0.02  
 Position 0.00 m

Type No. Make

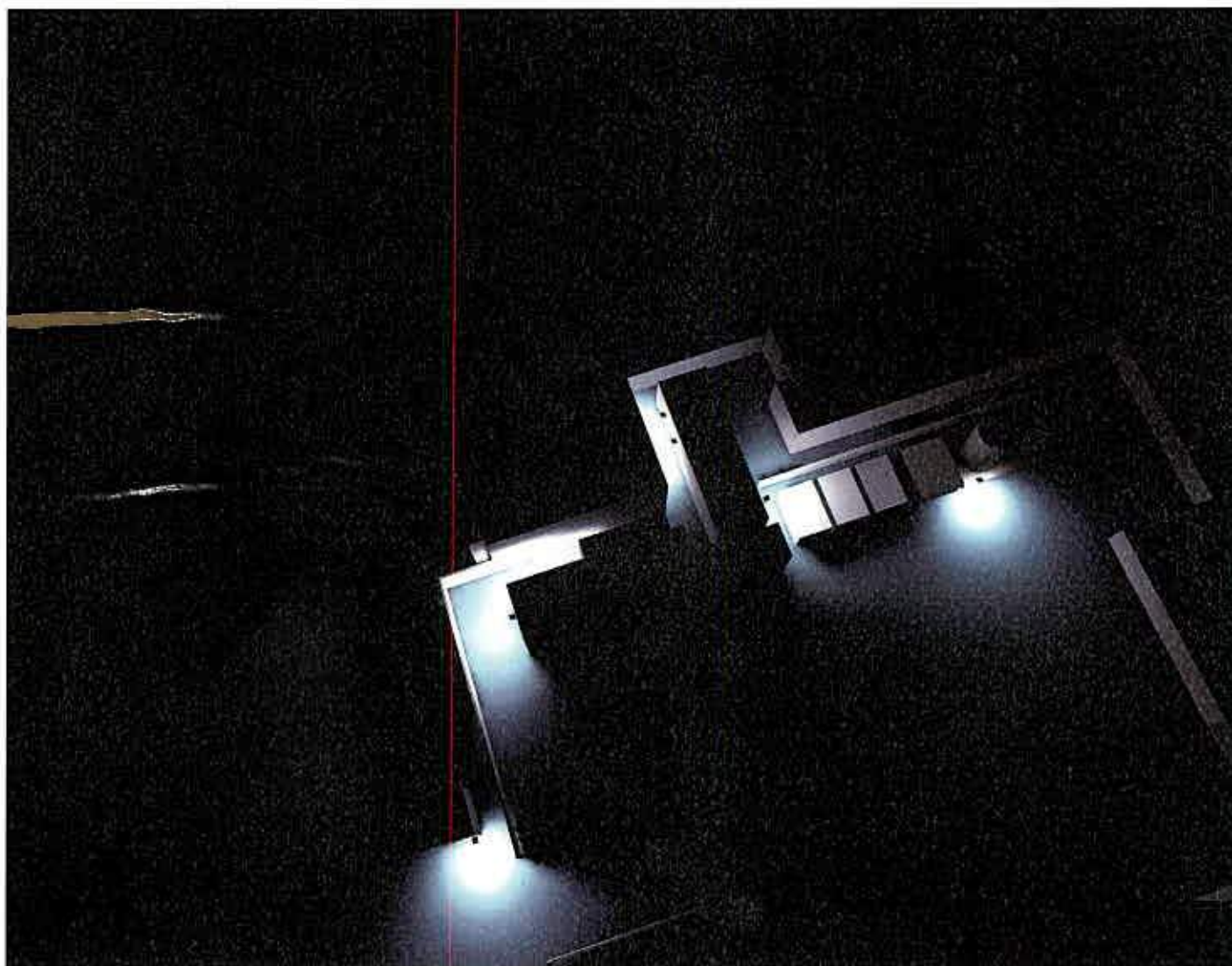
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## 2 Exterior 1

### 2.3 Calculation results, Exterior 1

#### 2.3.1 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m<sup>2</sup>

Maximum: : 86.1 cd/m<sup>2</sup>

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