GC HOLDINGS

Installation : WORTHING

Project number : KEW4347
Customer : JEC LTD
Processed by : STEVE POWER
Date : 30.10.2024

Project description:
Lighting calculations are provided as a guide only.
Schemes are based upon the room dimensions and information issued by the Client.
All dimensions and project information / requirements must be checked prior to order.
The Lighting Scheme has been designed to CIBSE guidelines where applicable. Standard reflectance levels used.
Lighting designs are carried out for estimation purposes only and KEW Electrical accept no responsibility, and cannot be held liable for, any variances in light levels achieved. It is ultimately the responsibility of the installer to ensure the solution offered is suitable for the installation environment, and meets all of the requirements of the end user.
Where applicable, Emergency Lighting has been suggested in accordance with BS5266, EN1838 and EN50172. It is the responsibility of the Purchaser/Installer, and not KEW Electrical, to ensure that the design complies with local fire, health, and safety regulations. The emergency lighting must be checked and approved by a local fire control officer and approved by the building owner. In the event that the design is found not to comply, KEW Electrical will adjust the design in consultation with the customer to ensure that it does comply with such regulations.
Any emergency lighting calculations included do not account for the location of critical emergency items, such as, but not limited to, plant or switch room task locations, reception telephone, first aid points, extinguisher points, call points, push bars, fire panels, etc. These areas may require higher risk lux levels under emergency conditions.
In the absence of a Fire Strategy plan, any exit signs specified have been done so based on assumptions regarding the shortest exit routes. These are estimations only and should be reviewed in full prior to any order. Responsibility for this lies with the Purchaser/Installer and the responsible person, or building owner, for the site.
Any controls or sensors specified by KEW Electrical are offered purely as a suggestion and KEW Electrical accept no responsibility, and cannot be held liable for, specified controls meeting the specific needs and/or requirements of the site/installation. It is the responsibility of the Purchaser/Installer to make sure that any proposed controls or sensors meet their specific needs and/or requirements, or the specific needs and/or requirements of the site/installation.
KEW Electrical is not qualified to determine the structural and electrical appropriateness of their designs and is not responsible, and cannot be held liable for, any improper engineering, construction, rigging or handling methods, or for any improper use of structures or equipment that may be employed to realise the design.

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.

1 Luminaire data

1.1 Collingwood, FL03BcS-40 (FL03BcS-40-B)

1.1.1 Data sheet

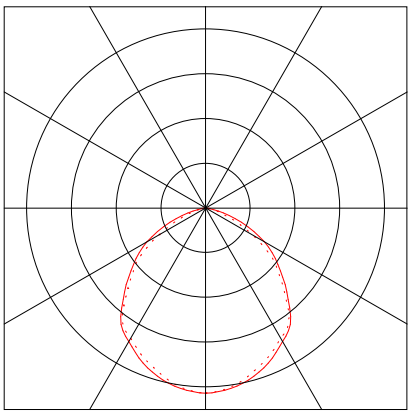
Manufacturer: Collingwood

FL03B_CS-40-B **FL03B_CS-40**

Luminaire data		
Luminaire efficiency	:	100%
Luminaire efficacy	:	116.67 lm/W
Classification	:	A40 ↓100.0% ↑0.0%
CIE Flux Codes	:	54 86 99 100 100
UGR 4H 8H	:	31.6 / 30.2
Power	:	30 W
Luminous flux	:	3500 lm

Equipped with		
Quantity	:	1
Designation	:	LED
Colour	:	4000
Luminous flux	:	3500 lm
Colour reproduction	:	80

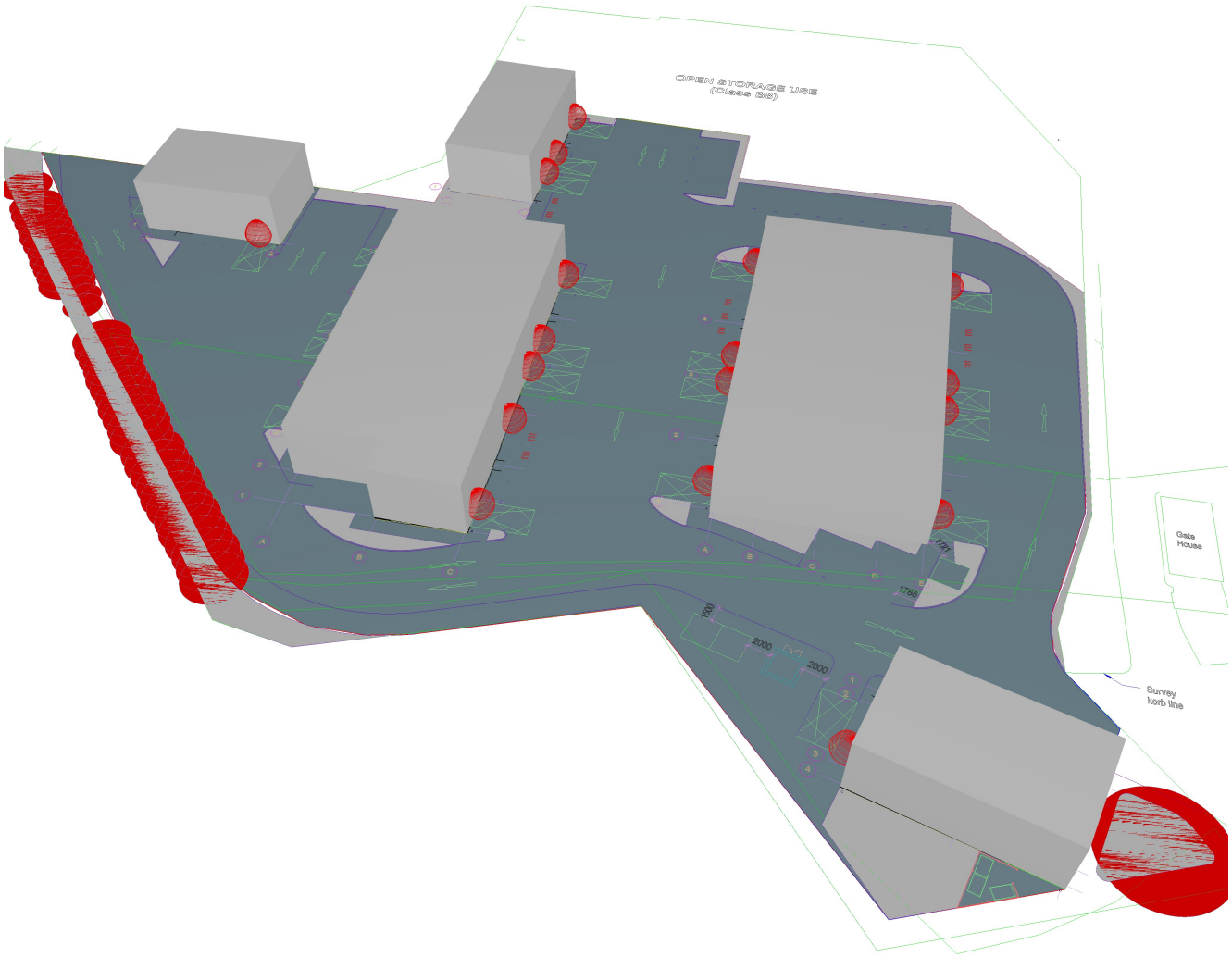
Dimensions : 120 mm x 150 mm x 33 mm



2 Exterior 1

2.1 Description, Exterior 1

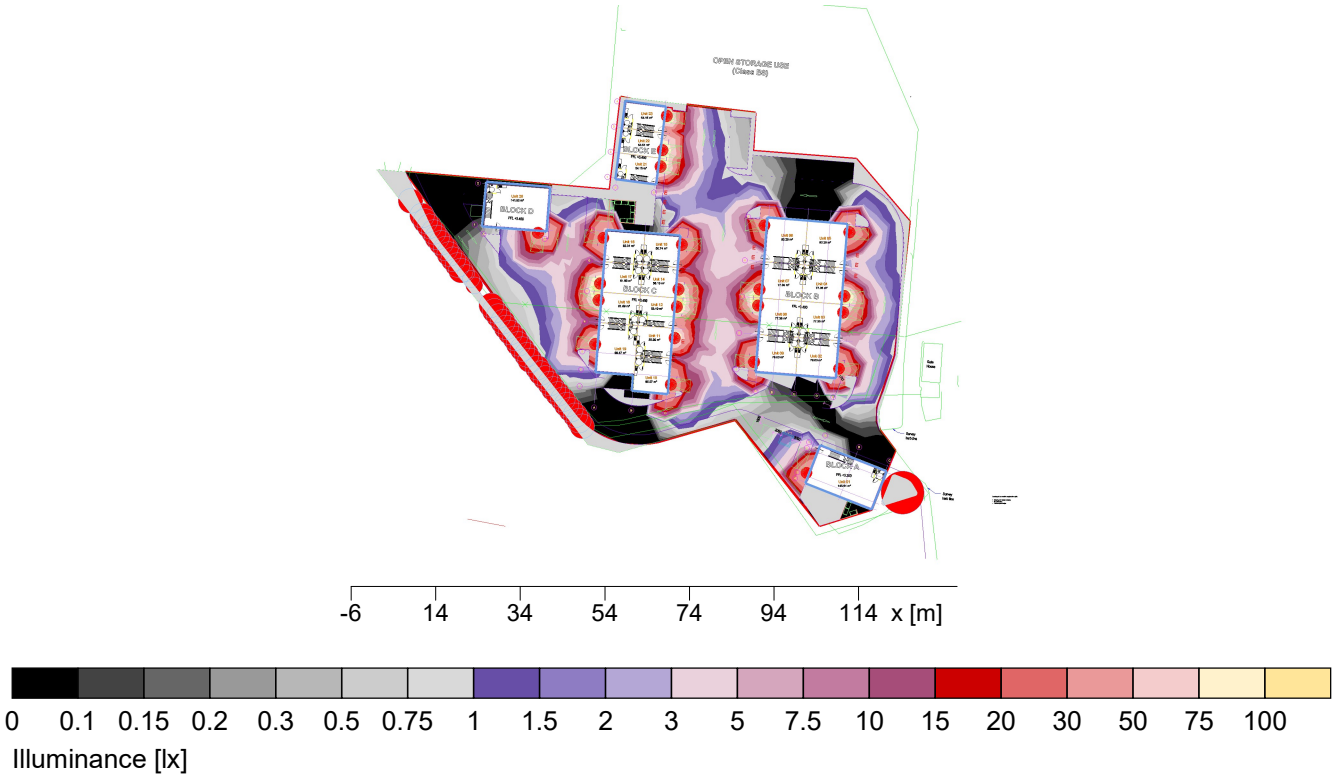
2.1.1 3D view, View 1



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)	2.98 m
Maintenance factor	0.80
Total luminous flux	77000.00 lm
Total power	660.0 W
Total power per area (6770.06 m²)	0.10 W/m² (1.16 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
$\bar{E}_m$	8.41 lx
E_{min}	0 lx
$E_{min}/\bar{E}_m$ (U_o)	---
E_{min}/E_{max} (U_d)	---
Position	0.00 m

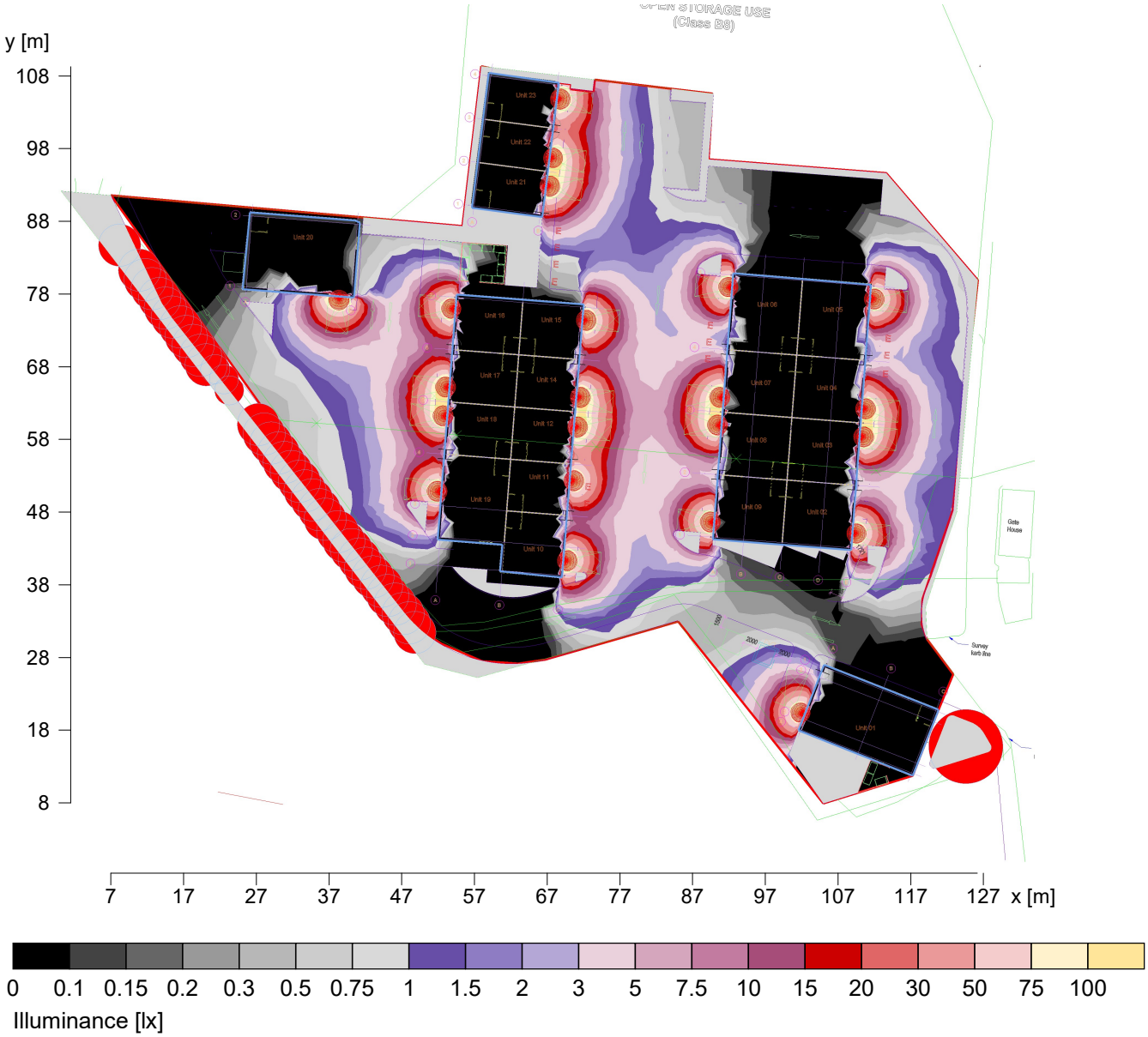
Type No.\Make

	Collingwood	
1	22 x	Order No. : FL03BCS-40-B
		Luminaire name : FL03BCS-40
		Equipment : 1 x LED 30 W / 3500 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Pseudo colours, Floor (E)



Average illuminance	$\bar{E}_m$	: 6 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 122 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---
Diversity U_d	E_{min}/E_{max}	: ---

2.3 Calculation results, Exterior 1

2.3.2 3D luminance, View 1

