LUMINAIRE TYPE X1

NTS

LUMINAIRE TYPE X2

NTS

2 Exterior 1

2.3 Calculation results, Exterior 1

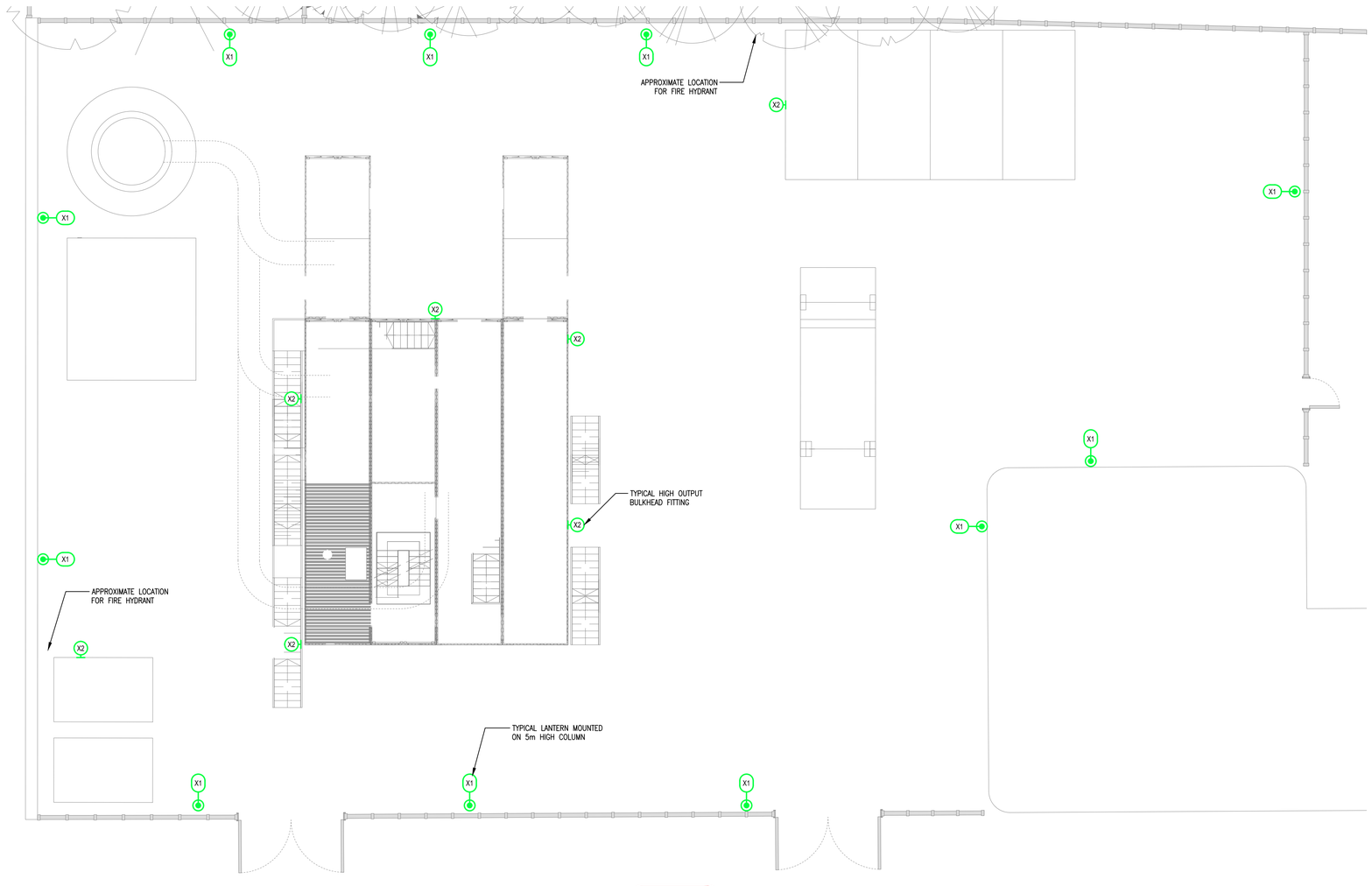
2.3.1 Table, Reference plane 1.1 (E)

[m]														
20.0			37.6	31	36.9	41.4	31	35.4	50.1				(9.7)	13	14.6
17.5			26.4	27.7	32	32.8	27.7	29.1	41				14.7	20.9	25.9
15.0					36.6	36.6		24.3	21.8	20.9	19.3	14.5	15.4	18.8	24.5	32.2
12.5					75.1	72.6		29.6	20.5	15.5	17.6	22.4	21.4	22.7	23.8	23.7
10.0								50.4	19	18.5	22.2	28	28.4	30.7	24	19.6
7.5	28.3	28.5	53.9					42.4	19.7	20	25.3	30.4	29.2	28.6	17.3	13.2
5.0	42.4	36	62.6					52.4	22.8	22.4	26.7	35.5				
2.5	[75.7]	56.9	64.3					31.7	26.4	24.8	26.8	32.6				
0.0		50.7	49.7	58.7	34.4	29.4	30.6	29.2	31	28.5	24.7	22.7				
-2.5		32	43	35.8	30.6	37	36.4	31.7	38.1	35.9	23.1	18				
		5	10	15	20	25	30	35	40	45 [m]						

Illuminance [lx]

TABULAR OUTPUT FROM CALCULATIONS

NTS



PLAN VIEW

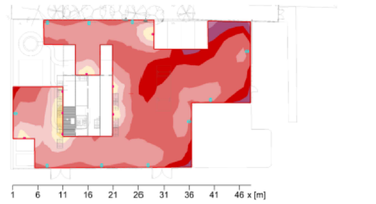
1:100 @A1

Object : External Lighting Calculations
Installation : HIWFR
Project number : 369-J186
Date : 13.07.2022

2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.67
Total luminous flux	76372.00 lm
Total power	566.0 W
Total power per area (879.17 m²)	0.64 W/m² (2.06 W/m²/100lx)

Evaluation area 1	Reference plane 1.1
	Horizontal
Em	31.3 lx
Emin	9.7 lx
Emin/Em (Uo)	0.31
Emin/Emax (Ud)	0.13
Position	0.00 m

Type No.\Make

	DW Windsor	
1 8 x	Order No.	: !Kirium Bulkhead -16LED-4k-500mA-27W-Frosted-Medium
	Luminaire name	: Kirium Bulkhead-4k-Medium
	Equipment	: 1 x 16 x 4k LED 27 W / 2844 lm
2 10 x	Order No.	: KIRIUM PRO1 16LED 4k C2 750mA UMSUG 42 0035 0000 100
	Luminaire name	: KIRIUM PRO1 16LED C2
	Equipment	: 1 x 16 x 4k LED 35 W / 5362 lm

Contractors Design Partner Ltd

369-J186 HIWFR External Lighting Rev1.rdf

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PSUEDO COLOURED OUTPUT FROM CALCULATIONS

NTS

Scale Line in meters (1:100)

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THIS DRAWING IS TO SHOW THE GENERAL CONCEPTS PROPOSED

REFER TO THE FULL CALCULATIONS FOR ALL DETAILS

Architectural Drawings Referenced		
Drawing No.	Rev.	Received
1387-SK040 Proposed Site Layout	D	08.07.2022

CDM 2015	Signature
CDM 2015 assessed	C.G.
No significant hazards / risks identified.	
Significant hazards / risks identified. see particular notes and hazard identification sheet.	C.G.

01	Sketch for comment	13.07.22	AB
	Revisions	Date	Drn

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Project Title:
HAMPSHIRE & ISLE of WIGHT FIRE & RESCUE SERVICE
LIVE FIRE HOUSE

Drawn:	Ck'd:	Scale A1:
AB	CG	1:100
Issued Date:	JUL 22	

Title:
EXTERNAL
PROPOSED EXTERNAL LIGHTING LAYOUT

Status:	Description:
S2	FOR COMMENT

Drawing No.	(CDP No. 369-J186)	Revision
TM75Z012-CDP-00-DR-E9000		01