

Luminaire Schedule	Ref	Qty	Config	Outreach	Description	Lumens	Cutoff Class	Total MF	Unit Watts	Config Watts
A	9	Single	O		KIRLUM PRO3 36LED 4k C2 CLO 800mA UMSUG 42 0203 0000 100	29217	Full Cutoff	0.920	203	203
B	14	4 One Way	O		Quad Katana J 64LED 4k C2 1000mA UMSUG 42 0198 0000 100	30386	Full Cutoff	0.920	198	792
C	5	4 One Way	O		Quad Katana J 64LED 4k C2 1000mA UMSUG 42 0198 0000 100	29767	Full Cutoff	0.920	198	792
Z	19	4 One Way	O		Ph3 Quad Katana L 64LED 4k C1 1000mA UMSUG 42 0198 0000 100	30385	Full Cutoff	0.920	198	792

LF1: BS5489-1:2020 (Annex D2) = 1.0 Based on CLO LED Data

SF: BS5489-1:2020 (Annex D2) = 1.0

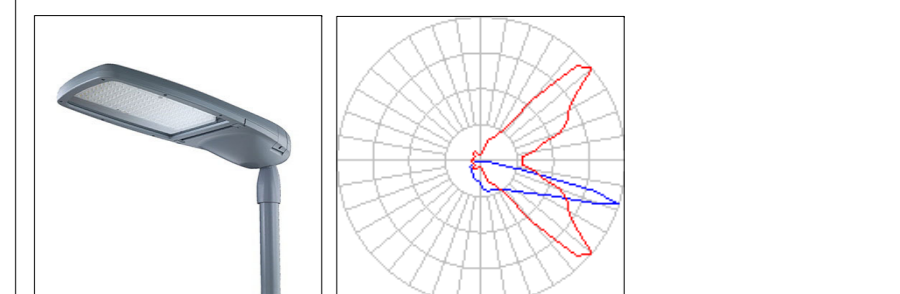
LMP: BS5489-1:2020 (Table C1) = 72 Mvhr

EL/C2 >M TLS = 0.62

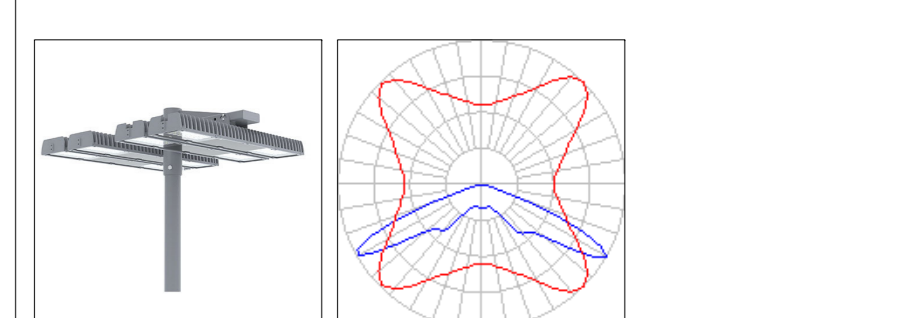
LF1*SF*LMP = Total MF

Calculation Summary	Measurement	Units	Eav	Emin	Uo	Ud	X Pitch	Y Pitch
10M Container Storage	Illuminance	Lux	29.33	55.1	8.0	0.27	0.15	1.5
15M Container Storage	Illuminance	Lux	23.04	55.1	6.5	0.29	0.11	3
HGV Parking	Illuminance	Lux	20.35	39.1	6.8	0.33	0.17	1.5
Run Around Area	Illuminance	Lux	27.33	48.5	16.3	0.67	0.38	3

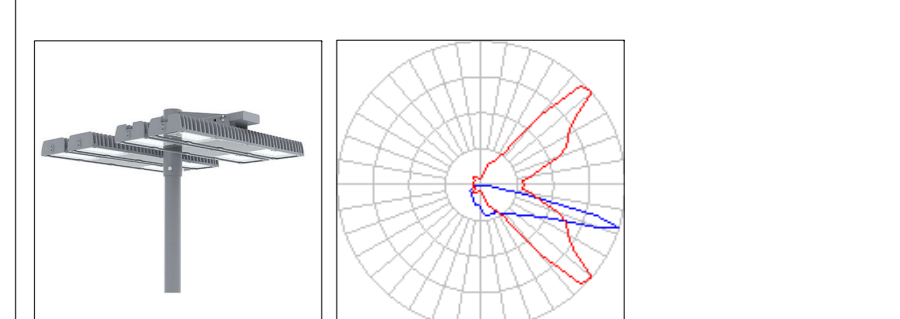
Luminaire Location Summary	Grid Ref	Ref (Qty)	X	Y	Z (Height)	Angle	Tilt	Dimming
1	A(1)	447211.024	327724.802	12	395.721	0	1.00	
2	A(1)	447209.352	327692.951	12	365.843	0	1.00	
3	A(1)	447246.493	327691.188	12	177.762	0	1.00	
4	A(1)	447208.095	327646.795	12	0	0	1.00	
5	A(1)	447244.809	327645.957	12	176.619	0	1.00	
6	A(1)	447243.866	327604.272	12	180	0	1.00	
7	A(1)	447189.302	327604.377	12	0	0	1.00	
8	A(1)	447286.072	326791.166	12	179.828	0	1.00	
9	A(1)	447242.355	326783.05	12	359.971	0	1.00	
10	B(4)	447286.719	326883.322	25	180	0	1.00	
11	B(4)	447296.633	326883.322	25	0	0	1.00	
12	B(4)	447336.616	326907.593	25	180	0	1.00	
13	B(4)	447286.075	326967.468	25	180	0	1.00	
14	B(4)	447285.703	326967.632	25	0	0	1.00	
15	B(4)	447336.26	326996.228	25	180	0	1.00	
16	B(4)	447286.893	327052.046	25	180	0	1.00	
17	B(4)	447284.728	327052.046	25	0	0	1.00	
18	B(4)	447285.468	327076.425	25	180.957	0	1.00	
19	B(4)	447285.245	327136.824	25	180	0	1.00	
20	B(4)	447293.917	327136.46	25	0	0	1.00	
21	C(4)	447286.803	327206.616	25	180	0	1.00	
22	C(4)	447322.688	327171.046	25	213.886	0	1.00	
23	C(4)	447311.298	326791.47	25	90.499	0	1.00	
24	C(4)	447336.159	326835.672	25	180.951	0	1.00	
26	C(4)	447183.063	327446.695	25	0	0	1.00	
28	Z(4)	447233.982	327294.012	25	0	0	1.00	
29	Z(4)	447225.099	327253.878	25	0	0	1.00	
30	Z(4)	447234.767	327170.896	25	0	0	1.00	
31	Z(4)	447225.854	327170.782	25	0	0	1.00	
32	Z(4)	447235.423	327103.095	25	0	0	1.00	
33	Z(4)	447225.51	327102.961	25	0	0	1.00	
34	Z(4)	447236.065	327018.936	25	0	0	1.00	
35	Z(4)	447227.152	327018.802	25	0	0	1.00	
36	Z(4)	447237.098	326934.24	25	0	0	1.00	
37	Z(4)	447228.185	326934.106	25	0	0	1.00	
38	Z(4)	447238.249	326839.48	25	0	0	1.00	
39	Z(4)	447231.76	327484.8	25	0	0	1.00	
40	Z(4)	447232.387	327414.712	25	0	0	1.00	
41	Z(4)	447233.145	327337.611	25	0	0	1.00	
42	Z(4)	447204.494	327337.179	25	0	0	1.00	
43	Z(4)	447204.021	327337.179	25	0	0	1.00	
44	Z(4)	447159.038	327336.89	25	0	0	1.00	
45	Z(4)	447171.147	327643.665	25	310.387	0	1.00	
46	Z(4)	447188.997	327393.03	25	0	0	1.00	



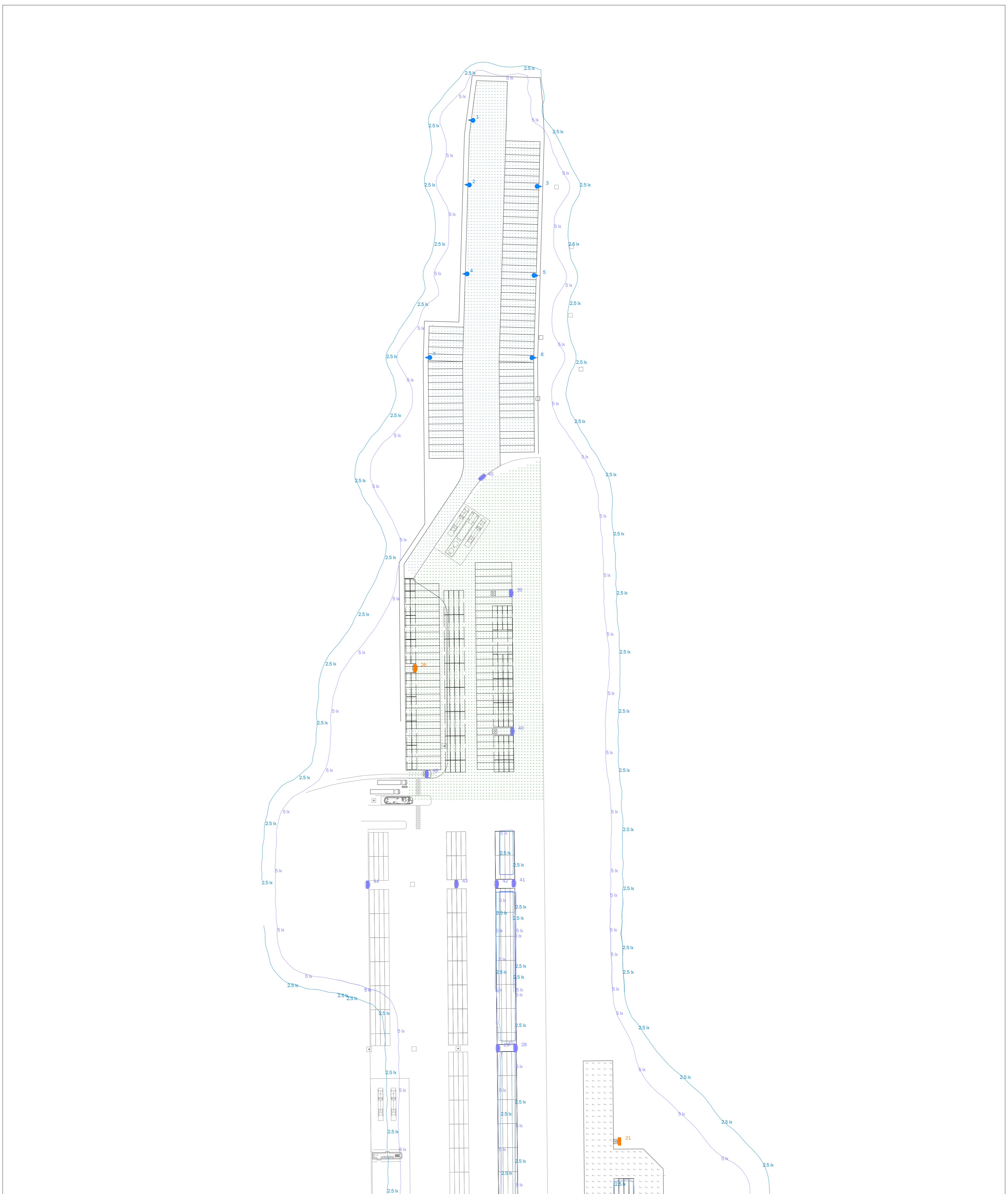
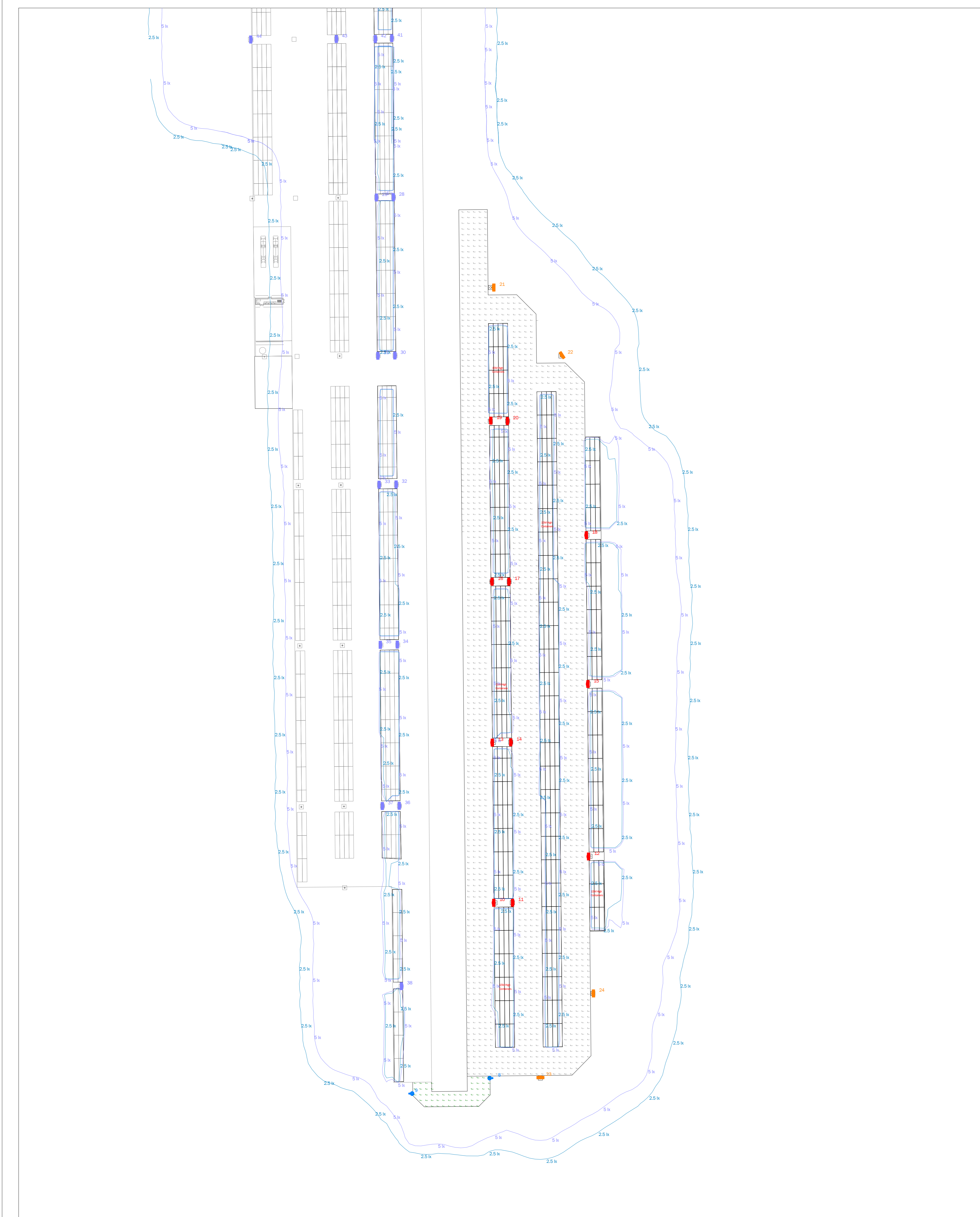
REF A:
Kirkum Pro 3, Direct Post, 96 x 800mA 4k CLO LED Array,
C2 Optic, RAL7046 Grey Finish, No Photocell.
12m TLS Tubular Steel Column, Galvanised Finish



REF B:
Quad Katana, 64 x 1000mA 4k CLO LED Array,
C1 Optic, RAL7046 Grey Finish, No Photocell.
25m TLS High Mast Column To Suit



REF C:
Quad Katana, 64 x 1000mA 4k CLO LED Array,
C2 Optic, RAL7046 Grey Finish, No Photocell.
25m TLS High Mast Column To Suit



BS EN 12464-2:2014
5.7 Industrial sites and storage areas
5.7.1 Short-term handling of large units and raw materials, loading and unloading of solid bulk goods
20.0lx Eav
0.25Uo

BS EN 12464-2:2014 (BS 5489-1:2020 Table 4)
5.9 Parking Areas
5.9.3 Heavy traffic, e.g. parking areas of major shopping centres, major sports and multipurpose building complexes
20.0lx Eav
0.25Uo

A 31/03/22 Based on client CAD DWG
Name: Site: Designer:
GDM Statement:
Please note that this proposed lighting solution is a lighting solution that has been designed with information provided by the client. The solution does not include site, installation, engineering or any risk assessment considerations for CDM.



East Midlands Gateway Phase 2

Client: Mott MacDonald Transport Ltd Contact: Martin Brewer
Project Management: Chris Ellis Lighting Design: Martin Brewer
All measurements in Metres & Lux. Do not scale from this drawing. All product ranges are indicative.
Revision: 23.110.20 1.1 East Midlands Gateway Phase 2 CAD A3/20th Version: 20.11.19
Date: 31/03/2022 Scale: 1:1000 @ A0
Project Ref: Page 1 of 1

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