

Qty	Range	Light Source	Lamp Lumens	Grout Watts	LMW	LCR	Luminaire Lumens	ULCR	Upward Lumens	RA	ART Factor	CP Calculation for year
												CP (Years)
17	Viva City FHD	40w LED FHD	4000	40	146.50	100.0%	14650	0.0%	0	30	52	1.05
38	Zactis	30w LED FHD	4150	20	137.50	100.0%	17225	0.0%	0	40	12	1.43
30	Zactis	20w LED FHD	3400	20	110.00	100.0%	28000	0.0%	0	40	12	2.77
38	Viva City FHD	40w LED FHD	4000	40	146.50	100.0%	14650	0.0%	0	30	12	1.21
3	Flexlight FHD	40w LED FHD	4000	40	146.50	100.0%	14650	0.0%	0	30	12	1.02
71	Flexlight FHD	40w LED	4000	40	146.50	100.0%	14650	0.0%	0	30	12	3.03
17	Flexlight FHD	11.7w LED Opto	1000	11.7	44.44	100.0%	10000	0.0%	0	30	12	0.18

Total Installation Lumens 844875.00 Total ULR 5.00%

Table 1 compliance	13
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Environmental zone	13
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Day Size	Target	Achieved	Status
	5.00%	0.00%	Pass

Source (includes dimming)	Pass
Fix curve	63
Plot curve	63

Light transmittance windows (etc)	Pass
Fix curve	0
Plot curve	0

Building Luminaire (etc)	Pass
Fix curve	0
Plot curve	0

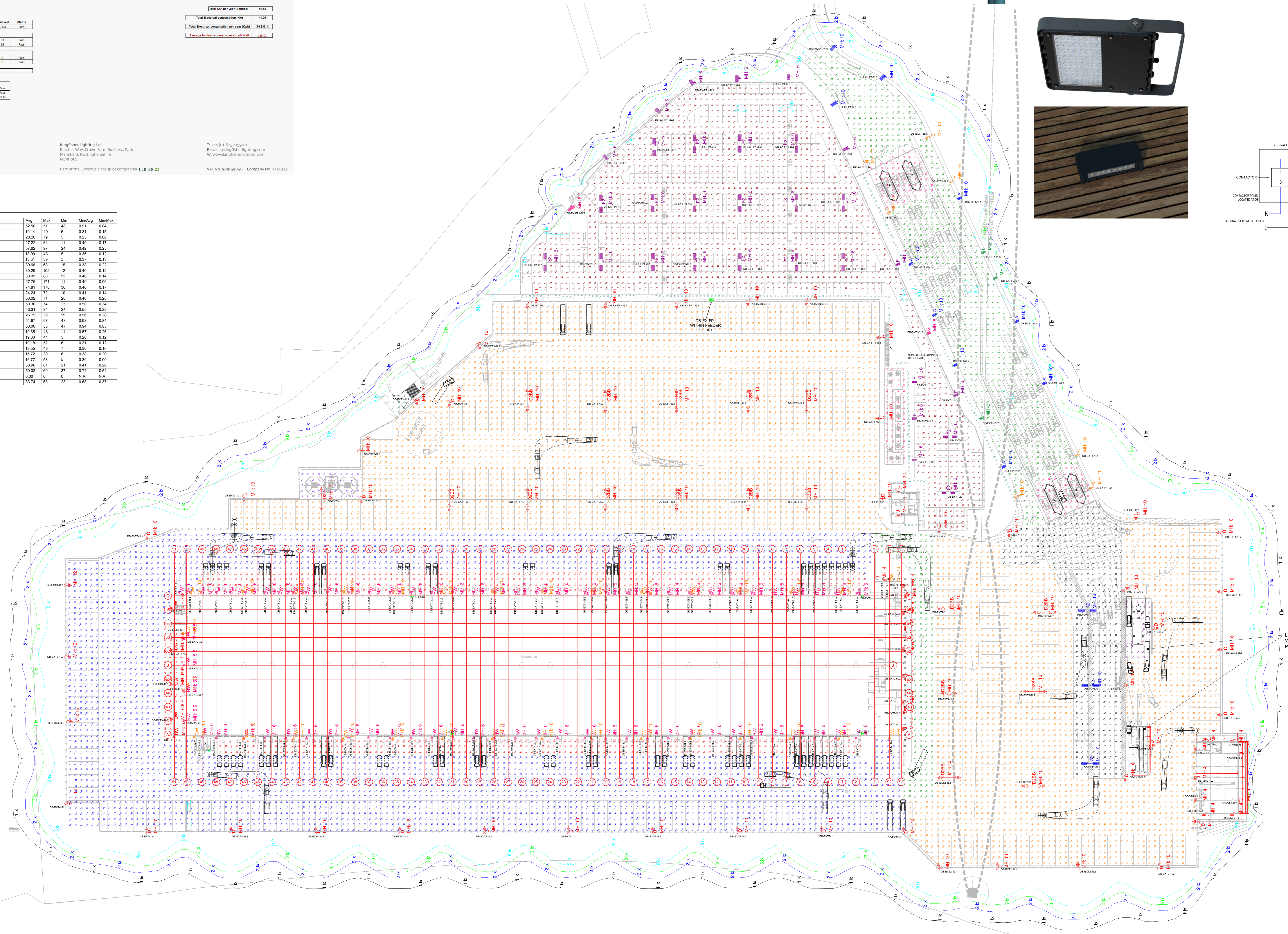
Compliance Status	Pass
Table 13	Pass
Table 14	Pass
Table 15	Pass

Note: All table 13 report only apply to external lighting

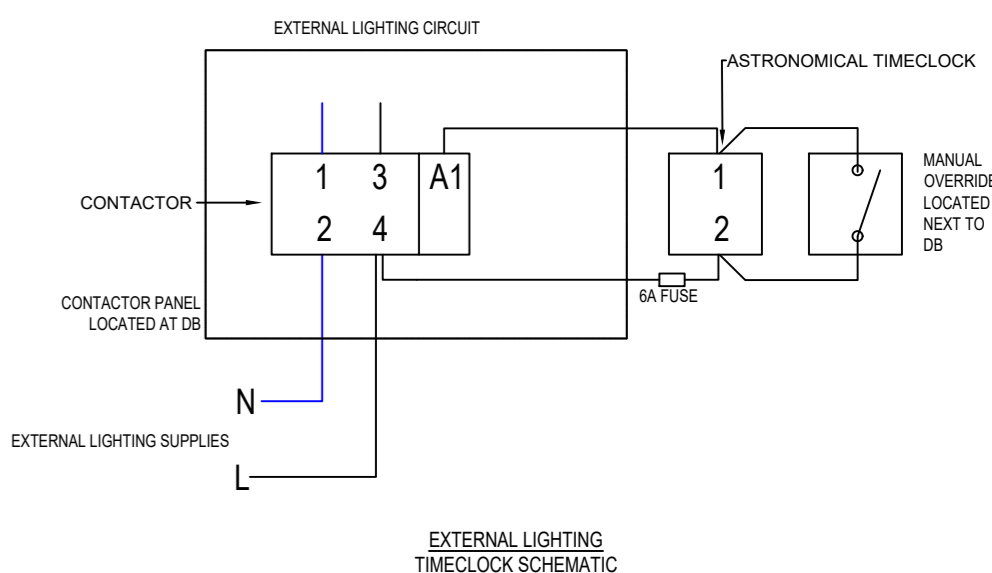
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Label	CalcType	Units	Avg	Max	Min	MinAvg	MinMax
Entrance	Illuminance	Lux	52.50	57	48	0.91	0.84
Fuel (Ref Only)	Illuminance	Lux	19.14	40	6	0.31	0.15
Entrance Service Road	Illuminance	Lux	20.29	79	5	0.28	0.22
Service Yard North East	Illuminance	Lux	27.22	64	11	0.40	0.17
Loading Bays North East	Illuminance	Lux	37.62	97	24	0.42	0.25
Designated parking	Illuminance	Lux	13.60	43	5	0.36	0.12
Car Park North East	Illuminance	Lux	13.51	38	5	0.37	0.13
Lorry Park Access Road	Illuminance	Lux	39.68	68	15	0.38	0.22
Lorry and Car Parking South East	Illuminance	Lux	30.29	102	12	0.40	0.12
Lorry Parking North East	Illuminance	Lux	30.69	88	12	0.40	0.14
Service Yard North West	Illuminance	Lux	27.76	77	11	0.40	0.06
Loading Bay North West	Illuminance	Lux	74.81	178	30	0.40	0.17
Service Yard South West	Illuminance	Lux	24.24	72	10	0.41	0.14
Loading Bays South West	Illuminance	Lux	50.02	71	30	0.40	0.28
Staff Entrance and Walkways	Illuminance	Lux	50.30	74	25	0.50	0.34
Sprinklers	Illuminance	Lux	43.31	84	24	0.50	0.29
Cycle Racks	Illuminance	Lux	26.75	39	15	0.56	0.38
Security Gatehouse Entrance 1	Illuminance	Lux	51.67	57	48	0.93	0.84
Security Gatehouse Entrance 2	Illuminance	Lux	50.00	55	47	0.94	0.85
Break Out Area	Illuminance	Lux	19.35	43	11	0.57	0.26
Emergency Road Access	Illuminance	Lux	19.33	41	5	0.26	0.12
Emergency Road	Illuminance	Lux	19.18	52	6	0.31	0.12
Foot Path	Illuminance	Lux	19.55	43	7	0.36	0.16
Foot Path 2	Illuminance	Lux	15.72	30	6	0.36	0.20
Foot Path 3	Illuminance	Lux	16.77	58	5	0.30	0.09
Gatehouse 1	Illuminance	Lux	50.86	81	21	0.41	0.20
Gatehouse 2	Illuminance	Lux	50.02	69	37	0.14	0.34
ObtrusiveLight_1_B_Seg1	Obtrusive - III	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight_1_Cat_Seg1	Obtrusive - Cd	N.A.	33.74	63	23	0.68	0.37

Symbol	Qty	Label	Arrangement	LLF	Description
10	A	SINGLE	0.900	60w LED Viva City Pro 4000k 600mA with FW70 Optic column mounted at 10m	
7	C	SINGLE	0.900	330w LED Zactis Floodlight with FW70 Optic column mounted at 10m	
32	GW	SINGLE	0.900	330w LED Zactis Floodlight with FW70 Optic wall mounted at 10m	
41	D	SINGLE	0.900	250w LED Zactis Floodlight with FW70 Optic column mounted at 10m	
1	D2	TWIN	0.900	250w LED Zactis Floodlight with FW70 Optic column mounted at 10m Twin Bracket	
18	D2BB	BACK-BACK	0.900	2 x 250w LED Zactis Floodlight with FW70 Optic column mounted at 10m	
7	DW	SINGLE	0.900	250w LED Zactis Floodlight with FW70 Optic wall mounted at 10m TBC	
4	E	SINGLE	0.900	250w LED Zactis Floodlight with FW70 Optic column mounted at 12m	
11	F	SINGLE	0.900	40w LED Viva City Pro 4000k 804mA with FW70 Optic Column Mounted 6m	
19	F2	BACK-BACK	0.900	2 x 40w LED Viva City Pro 4000k 804mA with FW70 Optic Column Mounted 6m	
2	G	SINGLE	0.900	40w LED Viva City Pro 4000k 804mA with AY70 Optic Column Mounted 6m	
71	HW	SINGLE	0.900	50w LED 4000K Guardian Pro Asymmetrical floodlight Wall Mounted 6m and 5.5m	
19	J	SINGLE	0.900	11.7w LED 4000K Senia Ultra wallflood with optic wall mounted 6m	
3	A2	BACK-BACK	0.900	2 x 60w LED Viva City Pro 4000k 804mA with FW70 Optic column mounted at 10m	
3	L	SINGLE	0.900	40w LED Viva City Pro 4000k 804mA with FW70 Optic column mounted at 3m	



- NOTES
- DO NOT SCALE FROM THE DRAWING.
 - ALL EXTERNAL LIGHTING FIXTURES ARE TO BE PROVIDED WITH PRE-FORMED DEMOUNTABLE POLE CHAMBER SYSTEM WHICH COMBINE COLUMN AND CABLE CHAMBER FOR EASE OF WIRING AND MAINTENANCE.
 - EXTERNAL LIGHTING IS TO BE OPERATED BY ASTRONOMICAL TIME CLOCK. EACH DISTRIBUTION BOARD FEEDING EXTERNAL LIGHTING SHALL HAVE AN ASTRONOMICAL TIME CLOCK AND MANUAL OVERRIDE LOCATED NEARBY FOR THE LIGHTING CONTROLS. REFER TO SCHEMATIC BELOW. TIME SETTING DETAILS TBC ON SITE.
 - LOCAL LIGHTING ASSOCIATED WITH THE VEHICLE WASH AND FUEL ISLAND TO BE PROVIDED BY SPECIALIST.



Rev	Description	By	Date
C2	RELOCATED DB-EXTS TO ORDNANCE M4	BF	11.06.21
C1	ISSUED FOR CONSTRUCTION	BF	28.05.21

CONSTRUCTION

EBM
ELECTRICALSERVICES LIMITED

winvic

Project: HERMES PLOT 1
HOYLAND COMMON
BARNESLEY

Title: EXTERNAL LIGHTING
LUX PLOT

Scale: 1:750
Drawn: TW
Checked: MK
Approved: SM

Date: 23.02.2021

Rev: P20026-EBM-1A-00-DR-E-0901
C2