

Dimensions are not to be scaled from this drawing



Kingfisher Lighting

Part of the Luceco PLC group of companies



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BREEAM New Construction 2018 (UK)

D46117/D Valley Drive, Gravesend

CO ₂ Calculation For A Year														
Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	ULOR	Upward Lumens	CRI	** ART Hour Per Day	CO ₂ (Tonnes)	Kw/Hour
4000	9	Viva City PRO	15w LED FW70	2250	15	150.00	100%	20250	0.0%	0	>70	12	0.12	591.30
4000	3	Tula Performance (Down)	10w LED Ultra Wide Flood 88°	525	10	52.50	100%	1575	0.0%	0	>70	12	0.03	131.40
4000	17	Semita Urban	6w LED OC	802	6	133.67	100%	13634	0.0%	0	>70	12	0.09	446.76
4000	5	Renio Louvre	8w LED Asymmetrical lmax=33°	125	8	15.63	100%	625	1.3%	8	>70	12	0.04	175.20

GN01 - 2011

Table 1 Compliance

Environmental Zone

Sky Glow

Source Intensity (Candelas)

Pre Curfew

Post Curfew

Light Trespass Into Windows (Lux)

Pre Curfew

Post Curfew

Building Luminance (cd/m²)

Total Installation Lumens

Total Upward Light

Total CO₂ Per Year (Tonnes)

Total Electric Consumption (Kwh)

Total Electric Consumption Per Year (Kwh)

Average Luminaire Lumens Per Circuit Watt

Compliance Status

pol 04 Reduction Of Night Time Light Pollution

ene 03 Energy Efficient External Lighting

Hea 01 Internal And External Lighting Levels

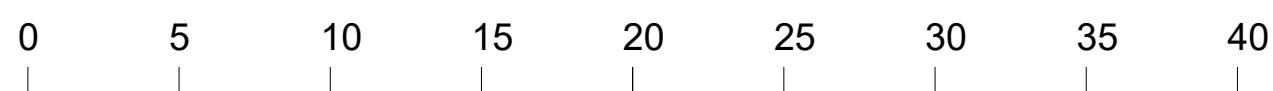
Note - HEA01 in this report only applies to exterior lighting

** ART - (Average Run Time)

Date

Symbol	Qty	Label	Arrangement	LUF	Description
9	A	15w LED 4000k Viva City Pro 540mA with FW70 Optic column mounted at 5m	SINGLE	0.900	
17	CW	6w LED 4000k Semita Urban bulkhead with cycle optic + Comfort Glass wall mounted at 2.5m	SINGLE	0.900	
5	E	8w LED Renio Brick Light recessed at 700mm	SINGLE	0.900	
3	F	10w LED 4000k Tula with single direction ultra wide flood 88° beam mounted 2.8m	SINGLE	0.900	

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Block A Car Park	Illuminance	Lux	10.38	16	2	0.19	0.13
Block A Communal Gardens	Illuminance	Lux	7.06	29	1	0.14	0.03
Block B Car Park	Illuminance	Lux	9.95	16	2	0.20	0.13
Courtyard Walkways	Illuminance	Lux	31.56	71	8	0.25	0.11
ObtrusiveLight_1_Col_Seg1	Obtrusive - Cd	N.A.	22.75	62	4	0.18	0.06
ObtrusiveLight_1_R_Seg1	Obtrusive - II	Lux	0.00	0	0	N.A.	N.A.
ObtrusiveLight_2_Col_Seg1	Obtrusive - Cd	N.A.	19.29	37	5	0.26	0.14
ObtrusiveLight_2_R_Seg1	Obtrusive - II	Lux	0.00	0	0	N.A.	N.A.



Scale Bar at 1:250 at A1



Valley Drive, Gravesend



For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

Scale
1:250 at A1

Date
5 September 2022

Project Number
D46117D

Drawing No.
D46117/PM/UD

Lighting Designer : P.Murphy

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.

A1