



Luminaire Schedule						Luminaire L/W		Luminaire T/M & T/M Information		
Symbol	Qty	Label	Arrangement	L/P	Description					
	5	A	090L/E	0.800	200 LED 2700K VIVA-CITY Pro 80W with 4700K inner light. Luminaire mounted at 5m	76	0.09	TM85 Enclosed Carbon + 80% CRI - TM85 Circular Economy Score + 2.0 (5.4-9.0 Excellent Overall)		

Calculation Summary										
Label	CalcType	Units	Avg	Max	Min	Uniformity (Max/Min)	Overlays (Max/Min)	Mount Type	Description	
Access Road	Rectangular	Lux	0.50	12	0.48	0.00	Horizontal			
ObservedLight_1_Col_Seg1	Observed - Col	N/A	1.00	10	0.00	0.00	Vertical/COV			
ObservedLight_1_R_Seg1	Observed - R	Lux	0.00	0	0.00	N/A	Vertical/COV			
ObservedLight_2_Col_Seg1	Observed - Col	N/A	0.00	200	0.00	0.00	Vertical/COV			
ObservedLight_2_R_Seg1	Observed - R	Lux	0.00	0	0.00	N/A	Vertical/COV			
ObservedLight_3_Col_Seg1	Observed - Col	N/A	0.00	300	0.00	0.00	Vertical/COV			
ObservedLight_3_R_Seg1	Observed - R	Lux	0.00	0	0.00	N/A	Vertical/COV			

BREEAM New Construction 2018 (UK)

50767 Main Road Dyffryn Cellwen - Neath

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	UEOR	Upward Lumens	CRI	** ART Hour Per Day	CO ₂ (Tonnes)	Kwh/Year
2700	5	Viva City PRO	20w LED AYB70	1519	20	75.95	100%	7595	0.05%	0	>70	12	0.09	438.00

EN01 - 2011

Table 1 Compliance

Environmental Zone E3

Key Glare	Target	Achieved	Status
	5.00%	0.90%	Pass

Source Intensity (Candelas)

Pre Cut-off	10,000	965	Pass
Post Cut-off	1,000	965	Pass

Light Trespass into Windows (Lux)

Pre Cut-off	10	6	Pass
Post Cut-off	2	0	Pass

Building Luminance (cd/m²)

10		Pass
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Total Installation Lumens 7595.00 Total Upward Light 0.00%

Total CO₂ Per Year (Tonnes) 0.09

Total Electric Consumption (Kwh) 0.80

Total Electric Consumption Per Year (Kwh) 438.00

Average Luminaire Lumens Per Circuit Watt 75.95

Compliance Status

Part 6 Reduction Of Night Time Light Pollution Pass

Part 6 Energy Efficient External Lighting Pass

Part 6 Internal And External Lighting Levels Pass

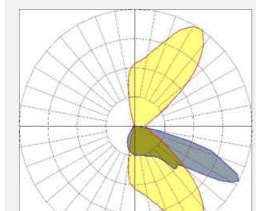
Note - HEART in this report only applies to external lighting

** ART = (Average Run Time)

Date 12/10/2023



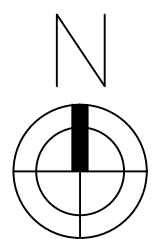
VIVA-CITY Pro



Polar Curve AYB70



QR Code



Main Road Dyffryn Cellwen - Neath

Scale 1:200 at A1
Project Number D50767 COLUMN OPTION



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

Date 12 October 2023
Drawing No. D50767/AE/A

Lighting Designer: A Eldred

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