

Revision	Date	Description	Initials

Kingfisher Lighting

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

BREEAM

D30219 - Ysgol Caerhun School

Qty	Range	LED Output	HID Lamp Output	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	ULOR	Upward Lmns	RA	ART Hour Per Day	CO ₂ Calculation for year
4	Scorpius	Please Select	1000w HPI Tubular	110000	1075	87.66	85.7%	377080	0.0%	0	70	12	CO ₂ (Tonnes) kWhour
													1834.00

Total Installation Lumens	377080.00
Total ULOR	0.00%
Total CO ₂ per year (Tonnes)	10.27
Total Electrical consumption (Kw)	4.30
Total Electrical consumption per year (Kwh)	18,834.00
Average luminaire lumens per circuit Watt	87.69

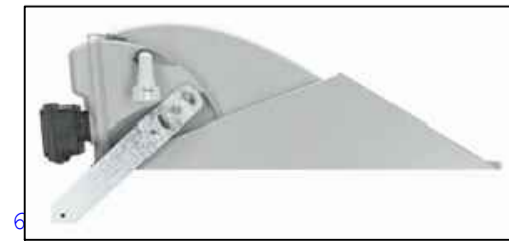
Table 1 compliance			
Environmental zone	E3		
Sky Glow	Target 5.00%	Achieved 0.00%	Pass
Source Intensity (candelae)	Pre curfew 10,000	0	Pass
	Post curfew 1,000	0	Pass
Light Trespass into windows (Lux)	Pre curfew 10	0	Pass
	Post curfew 2	0	Pass
Building Luminance (cd/m ²)	10		

Compliance Status:		
Pol 04	Reduction of night time light pollution	Pass
Env 03	Energy efficient external lighting	Pass
Hea 01	Internal and external lighting levels	Pass

The criteria for a design to achieve the ENE 03 credit have now changed. Designs are now required to achieve an average of 60 luminaire lumens per circuit watt. average of 60 luminaire lumens per circuit watt. This affects the type of fitting and light sources that can be used. Please ensure that this is considered when comparing this drawing to previous designs or designs by others. For more information contact our lighting design department or go to: <http://go0.gllVQZJNY> (BREEAM's official website)

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
MUGA	Illuminance	Lux	230.44	317	142	0.62	0.45

Luminaire Schedule			
Symbol	Qty	Label	Description
▶	4	A	1kw HQI-T Scorpius Medium beam floodlight with



HEA HEMSA

IP

Kingfisher Lighting Ltd, Bwlch-y-Wy, Croen Ffarm Industrial Park, Merthyr Tydfil, Rhondda Cynon Taf, CF87 9JG. Tel: 01495 435 940 Fax: 01495 435 909. lighting@kingfisher.com www.kingfisherlighting.com

Project Title	
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Scale	Project No
1:200 at A1	D30219
Date	Drawing No
4/4/2017	D30219/JM/A
A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, unless every endeavor is made for accuracy from information provided by customers, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.	
Lighting Designer: James Miles MBE	