



BREEAM New Construction 2018 (UK)

D49738 Millom Leisure Centre

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOE	Total Lumens	LOE%	Upward Lumens	CR	CO <sub>2</sub> Calculation For A Year
4000	7	Viva City PRO	80w LED FW70	11040	80	138.00	100%	77280	0.0%	0	>70	12 0.52 2452.80
4000	5	Viva City PRO	80w LED AY70	11120	80	139.00	100%	55600	0.0%	0	>70	12 0.57 1752.00
4000	15	Semita Urban	8w LED OC	802	6	133.67	100%	12039	0.0%	0	>70	12 0.08 294.20

GN03 - 2013

Table 3 Compliance

Environmental Zone	Target	Achieved	Status
E3	5.00%	0.00%	Pass

Sky Glow	Target	Achieved	Status
35.00%	35.00%	35.00%	Pass

Source Intensity (candelas)	Target	Achieved	Status
Pre-Curtain	10.000	10.000	Pass
Post-Curtain	1.000	1.000	Pass

Light trespass into Windows (lux)	Target	Achieved	Status
Pre-Curtain	25	25	Pass
Post-Curtain	2	2	Pass

Building Luminance (cd/m <sup>2</sup> )	Target	Achieved	Status
10	10	10	Pass

Total Installation Lumens 134803.00

Total Upward Light 0.00%

Total CO<sub>2</sub> Per Year (tonnes) 0.87

Total Electric Consumption (kWh) 5.05

Total Electric Consumption Per Year (kWh) 4299.00

Average Luminaire Lumens Per Circuit Watt 138.01

Compliance Status




Pre-Curtain	Pass
Post-Curtain	Pass
Light Tresspass	Pass
Building Luminance	Pass

Note: HEART is this report only applies to exterior lighting

ART - (Average Run Time)

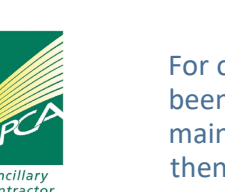
Date: 27/06/2023

LO

Relaxed Luminaire Schedule									
Symbol	Qty	Label	Arrangement	LLF	Description				
	7	A	SINGLE	0.900	80w LED 4000K Viva City Pro 805mA with FW70 Optic column mounted at 6m				
	5	B	SINGLE	0.900	80w LED 4000K Viva City Pro 805mA with AY70 Optic column mounted at 6m				
	15	CW	SINGLE	0.900	8w LED 4000K Semita Urban bulkhead with optic wall mounted at 3.5m				
Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max		
Building Perimeter	Humminess	Lux	13.40	43	5	0.37	0.12		
Car Park	Humminess	Lux	19.44	78	5	0.26	0.06		

All Weather Sports Pitch

Millom Leisure Centre



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

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.

Scale

1: 250 at A0

Project Number

D49738

Date

27 June 2023

Drawing No.

D49738/JB/A

Lighting Designer : Jamie Buck MSL

Castle View

A5093 Salthouse Road

Millom Hub

Ulpha Building

Alexandra Hall

Small Hall

Refectory

Muncaster Building

Lonsdale Building

Existing 40 Parking Spaces

Reconfigured 67 Parking Spaces

A0