

Symbol	Label	Arrangement	Description
(Symbol)	L4	A	SINGLE 27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column.
(Symbol)	L3	A (BM) SHIELDED	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the back spill shield.
(Symbol)	L5	A (BM) SHIELDED	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the back spill shield.
(Symbol)	L3	C	SINGLE 27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the front spill shield.
(Symbol)	L4	D (BM)	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the back spill shield.
(Symbol)	L5	F	45W (9 Module) LED galileo Floodlight with ASPSW optic
(Symbol)	L6	G	15w LED Ray Lines recessed into ceiling luminaire dimmed to 20% of the full output.

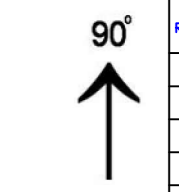


Ref's - A, A2&A (BM)
C, D (BM)

Ref's - F

Dimensions are not to be scaled from this drawing

Item No.	Description	Qty	Unit	Notes
1	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column.	10	EA	
2	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the back spill shield.	15	EA	
3	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the front spill shield.	10	EA	
4	27.5w ITALIO 1 3000K optic lantern 1 module mounted on 3m column, fitted with the back spill shield.	10	EA	
5	45W (9 Module) LED galileo Floodlight with ASPSW optic	10	EA	
6	15w LED Ray Lines recessed into ceiling luminaire dimmed to 20% of the full output.	10	EA	



Revision	Date	Description

BREEM

Bourne Estate (South) Regeneration

City	Usage	Light Type	Watt	Control	Level	Ugr	Total Lumens	Ugr	Upward Lumens	RA	ART	CO2 Calculation per year
Total Installation Lumens												16672
Total Ugr												0.805
Total CO2 per year (tonnes)												0.30
Total Electrical consumption (kWh)												284
Total Electrical consumption (kWh)												15480.36
Average luminaire lumens per circuit Watt												59.55

Table 1 compliance	Environmental zone	CI	Achieved	Status	Notes
Sky Glow	15.00%	0.00%	Pass		
Source intensity (candela)	25.00	95	Pass		
Light trespass into windows (Lux)	2.00	0	Fail		Note - we have assumed no fittings will be left on foot colour
Building luminance (cd/m2)	0.1	132	Fail		Note - we have assumed no fittings will be left on foot colour

Notes:
 1. Please check suitability of locations for all lighting equipment before placing an order and installing.
 2. Whole site comply with E4 environmental zone.
 3. Mounting heights specified by customer.
 4. Please refer to the drawing for mounting heights and tilt angles.
 5. Arch ways and Buckridge building are failing to E3 environmental zone currently. With regards to Buckridge building it will comply with E3 when Muga lights is off. With regards to the archways mounting heights and quantity of luminaires specified by customer, dimming the lights would be recommended as it is very close to E3 environmental zone.
 6. Please refer to the the drawing with Vertical grids to see impact of light for residents.



Project Title
 Bourne Estate (South) Regeneration
 Muga switched off

Scale
 1:250 at A0
 Drawing No.
 202337/LXW/S

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