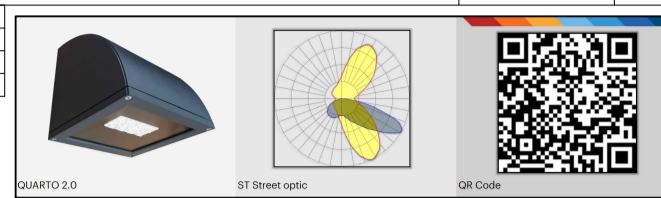


Dimensions are not to be scaled from this drawing

Symbol	Qty	Label	Arrangement	Description	Lum. Lumens	LF
EX1	27	EX1	SINGLE	7.5w LED 3000k Quarto 2.0 250mA bulkhead with street optic building mounted at 2.5m	787	0.900
EX2	17	EX2	SINGLE	16w LED 3000k 525mA OSLO with SP40 distribution column mounted at 8m, 7.9m & 7.8m	1140	0.900
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Min/Avg
Park Area	Illuminance	Lux	19.40	37	7	0.36
Perimeter Pathways	Illuminance	Lux	11.33	42	3	0.26
			0.07			



BREEAM New Construction 2018 (UK)

CO ₂ Calculation For A Year									
Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	ULOR
3000	27	Quarto 2.0	7.5w LED ST	695	8	82.67	100%	18765	0.05
3000	17	Oslo	16w LED	1140	16	71.25	100%	19380	0.05
CO ₂ Calculation For A Year									
Total Installation Lumens 38145.00 Total Upward Light 0.00%									
Total CO ₂ Per Year (Tonnes) 0.44									
Total Electric Consumption (Kw) 0.47									
Total Electric Consumption Per Year (Kwh) 2074.31									
Average Luminaire Lumens Per Circuit Watt 80.39									
Compliance Status									
Pol 04 Reduction Of Night Time Light Pollution	Pass								
Env 03 Energy Efficient External Lighting	Pass								
Hea 03 Internal And External Lighting Levels	Pass								
Note: HEA/H in this report only applies to exterior lighting									
* ART = (Average Run Time)									
Date 10/07/2023									

Hayes Town Centre



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

Date 10 July 2025 Drawing No. D47186/RDIF

Lighting Designer : Robert Dagley

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