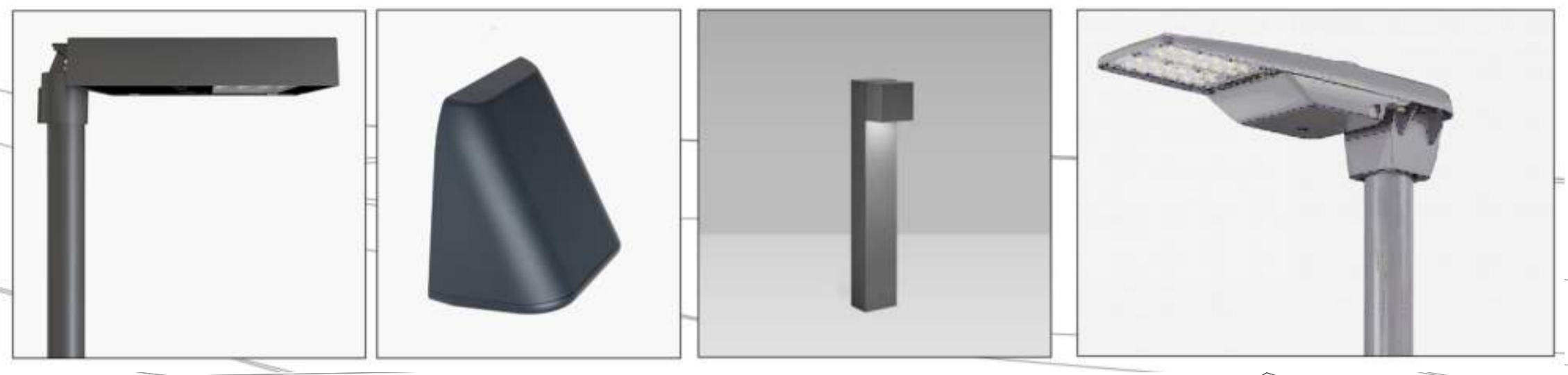


Symbol	Qty	Label	Arrangement	Description	Lum. Lumens	LLF
	6	EX1	SINGLE	28w (1 module) 500mA Q-Drome with STU-M Optic column mounted at 5m. 2700K	3491	0.900
	27	EX4	SINGLE	PIXOL150 10w 2700K 580lm one way	580	0.900
	23	EX2	SINGLE	7w LED 2700K Semita Arc bulkhead with cycle optic wall mounted at 3m	781	0.900
	3	EX3	SINGLE	23w LED 350mA 2700K Kirium Pro 1 D1 Optic	3993	0.900

Label	CalcType	Units	Avg	Max	Min	Uniformity	Diversity
Ambulance & Deliveries	Illuminance	Lux	21.44	39	10	0.47	0.26
Building Perimeter	Illuminance	Lux	15.22	37	4	0.26	0.11
Car Park	Illuminance	Lux	12.12	40	3	0.25	0.08
Communal Patio & Gardens	Illuminance	Lux	13.60	123	1	0.07	0.01
Entrance Road	Illuminance	Lux	14.36	39	4	0.28	0.10
Nearby Residential Houses 1_Cd_S	Obtrusive - Cd	N.A.	5.57	16	0	0.00	0.00
Nearby Residential Houses 1_III	Obtrusive - III	Lux	0.00	0	0	N.A.	N.A.
Nearby Residential Houses 2_Cd_S	Obtrusive - Cd	N.A.	6.64	28	2	0.30	0.07
Nearby Residential Houses 2_III	Obtrusive - III	Lux	0.00	0	0	N.A.	N.A.
Nearby Residential Houses 3_Cd_S	Obtrusive - Cd	N.A.	8.80	37	2	0.23	0.05
Nearby Residential Houses 3_III	Obtrusive - III	Lux	0.00	0	0	N.A.	N.A.
Private Garden Footpath	Illuminance	Lux	17.68	72	2	0.11	0.03



BREEAM New Construction 2018 (UK)

49716/B Extra Care Development Kingsmere Bicester

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	Lm/W	LOR	Total Lumens	ULOR	Upward Lumens	CR	** ART Hour Per Day	CO ₂ (Tonnes)	Kwh/Year
2700K	6	Q-Drome	STU-M-1 Module 500mA	3491	28	124.68	100%	20946	0.0%	0	>70	12	0.22	735.84
2700K	27	Semita Arc	7.5w LED DC	718	8	89.75	100%	16334	0.0%	0	>70	12	0.16	755.55
2700K	27	PIXOL150 One-way	10w LED	580	10	58.00	100%	15660	0.0%	0	>70	12	0.25	1182.60
2700K	3	Kirium Pro 1	23w 350mA LED D1 OPTIC	3993	23	173.61	100%	11979	0.0%	0	>70	12	0.06	302.22

Source Intensity (Candelas)	Pre Curfew	Post Curfew	Pass
Pre Curfew	10,000	37	Pass
Post Curfew	3,000	37	Pass

Compliance Status	Pass
PO 04 - Reduction Of Night Time Light Pollution	Pass
Env 03 - Energy Efficient External Lighting	Pass

Revision	Description	Drawn By	Engineer	Approved	Date
P02	COLOUR TEMPERATURE REVISED TO 2700K	OS	GA	GA	09-02-24
P01	EXTERNAL LUX LEVELS	OS	GA	GA	19-10-23



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PRELIMINARY

Client: PREFERRED HOMES LIMITED

Project/Site Location: BICESTER CARE HOME KINGSMERE, BICESTER

Drawing Title: EXTERNAL LUX LEVELS

Scale	Size	Drawn By	Engineer	Approved	Date
NTS	A1	OS	GA	GA	19-10-23

Drawing Reference: 6609-CBC-00-00-DR-E-63007

Revision: P02