Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	UWLR
	6	T1	Single	OE-QLS410	0.900	395	7.5	N.A.
	95	A	Single		0.900	1050	10	N.A.
	204	B	Single		0.900	2200	25	N.A.
	57	C	Single	OE-WSNCF-4FT-CCT	0.900	4800	4	N.A.
	8	EX1-SC	Single	37,4W LED 3000K (2 Modules) 100mA EcoRays S with S07 Optic column mounted at 6m.	0.900	5110	37.4	0.00
	5	EX2	Single	11,9W LED 3000K (1 Module) 60mA EcoRays TP with STE-M Optic column mounted at 4m. (4.5m including luminaire)	0.900	1510	11.9	0.00
	47	EX2-SC	Single	11,9W LED 3000K (1 Module) 60mA EcoRays TP with STE-M Optic column mounted at 4m. (4.5m including luminaire)	0.900	1510	11.9	0.00
EX3	156	EX3	Single	20W MIKO 3000K-ON-OFF 1000mm radial optic DarkSky Approved	0.900	1700	20	0.00
	11	EX4	Single	52,3W LED 3000K (2 Modules) 140mA EcoRays S with S07 Optic column mounted at 6m.	0.900	7000	52.3	0.00
	20	EX5	Single	23W LED 3000K (2 Modules) 60mA EcoRays TP with S Optic column mounted at 4m.	0.900	2970	23	0.00
	60	EX6	Single	11,9W LED 3000K (1 Module) 60mA EcoRays TP with SV Optic column mounted at 4m.	0.900	1510	11.9	0.00
	16	Existing Lanterns	Single	Existing Street Lanterns	0.900	5860	40	0.00

Calculation Summary

Project: Project_1

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)
Bike Store 112	Illuminance	Lux	222.60	270	193	0.87	0.71
Bike Store 160	Illuminance	Lux	211.04	300	143	0.68	0.48
Bike Store 20	Illuminance	Lux	195.00	244	144	0.74	0.59
Bike Store 52	Illuminance	Lux	169.21	210	115	0.68	0.55
Bike Store 53	Illuminance	Lux	208.83	223	191	0.91	0.86
Bike Store 92	Illuminance	Lux	209.90	306	151	0.72	0.49
Bin Store 80	Illuminance	Lux	229.75	264	187	0.81	0.71
Bin Store 88	Illuminance	Lux	139.93	218	65	0.46	0.30
Block Under canopy 2	Illuminance	Lux	143.67	164	132	0.92	0.80
Block 1 Under canopy	Illuminance	Lux	163.50	188	179	0.98	0.95
Block 10 Entrance	Illuminance	Lux	58.54	137	21	0.36	0.15
Block 10 Under canopy	Illuminance	Lux	154.95	212	109	0.70	0.51
Block 11 Under canopy	Illuminance	Lux	130.33	149	118	0.91	0.79
Block 13 Under canopy	Illuminance	Lux	133.33	153	95	0.71	0.62
Block 15 Under canopy	Illuminance	Lux	113.29	124	89	0.79	0.72
Block 16 Under canopy	Illuminance	Lux	144.00	170	129	0.90	0.76
Block 17 Under canopy	Illuminance	Lux	161.50	162	161	1.00	0.99
Block 18 Under canopy	Illuminance	Lux	98.25	111	77	0.78	0.69
Block 18 Under canopy 2	Illuminance	Lux	138.67	158	127	0.92	0.80
Block 19 Under canopy	Illuminance	Lux	73.00	81	67	0.92	0.83
Block 19 Under canopy 2	Illuminance	Lux	128.67	138	124	0.96	0.90
Block 2 Under canopy	Illuminance	Lux	183.50	185	182	0.99	0.98
Block 20 Under canopy	Illuminance	Lux	149.43	166	120	0.80	0.72
Block 20-21 Link	Illuminance	Lux	103.90	126	78	0.75	0.62
Block 21 Under canopy 1	Illuminance	Lux	138.08	160	109	0.79	0.68
Block 21 Under canopy 2	Illuminance	Lux	132.67	142	124	0.93	0.87
Block 21 Under canopy 3	Illuminance	Lux	130.33	137	122	0.94	0.89
Block 22 Under canopy	Illuminance	Lux	139.50	147	132	0.95	0.90
Block 23 Under canopy	Illuminance	Lux	180.50	183	178	0.99	0.97
Block 24 Under canopy	Illuminance	Lux	181.00	185	177	0.98	0.96
Block 25 Under canopy	Illuminance	Lux	176.50	181	172	0.97	0.95
Block 26 Under canopy	Illuminance	Lux	117.58	146	82	0.70	0.56
Block 27 Under canopy	Illuminance	Lux	183.50	187	180	0.98	0.96
Block 28 Under canopy	Illuminance	Lux	169.50	175	164	0.97	0.94
Block 29 Under canopy	Illuminance	Lux	186.50	187	186	1.00	0.99
Block 3 Under canopy	Illuminance	Lux	151.67	205	117	0.77	0.57
Block 3 Under canopy 2	Illuminance	Lux	153.67	208	122	0.79	0.59
Block 4 Under canopy	Illuminance	Lux	132.25	149	104	0.79	0.70
Block 5 Under canopy	Illuminance	Lux	145.00	161	122	0.84	0.76
Block 5 Under canopy 2	Illuminance	Lux	144.00	160	133	0.92	0.83
Block 6 Under canopy	Illuminance	Lux	109.50	116	99	0.90	0.85
Block 7 Under canopy	Illuminance	Lux	152.17	170	129	0.85	0.76
Block 8 Canopy	Illuminance	Lux	136.22	163	106	0.78	0.65
Block 9 Under canopy	Illuminance	Lux	145.08	177	106	0.73	0.60
Block 9 Under canopy 2	Illuminance	Lux	132.00	145	123	0.93	0.85
Building 1 Terraces	Illuminance	Lux	8.50	22	1	0.12	0.05
Building 17 Terraces	Illuminance	Lux	7.50	15	1	0.13	0.07
Building 24 Terraces	Illuminance	Lux	6.00	12	2	0.33	0.17
Courtyards	Illuminance	Lux	20.23	135	5	0.25	0.04
Cycle Store 68	Illuminance	Lux	195.28	229	145	0.74	0.63
Cycle Store 80	Illuminance	Lux	221.78	280	153	0.69	0.55
Main Vehicle Route	Illuminance	Lux	27.65	78.3	9.1	0.33	0.12
Pathways	Illuminance	Lux	19.50	96.5	5.0	0.26	0.05
Steps 1	Illuminance	Lux	32.04	41	25	0.78	0.61
Steps 2	Illuminance	Lux	21.25	25	17	0.80	0.68
Steps 3	Illuminance	Lux	77.75	110	53	0.68	0.48
Steps 4	Illuminance	Lux	127.50	138	117	0.92	0.85
Vehicle Routes	Illuminance	Lux	13.32	75.7	3.3	0.25	0.04

Calculation Summary

Project: Obtrusive Light

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)
Example Obtrusive light onsite next to pathways_1_Cd_Seg1	Obtrusive - Cd	N.A.	37.70	365	1	0.03	0.00
Example Obtrusive light onsite next to pathways_1_Cd_Seg2	Obtrusive - Cd	N.A.	20.40	104	2	0.10	0.02
Example Obtrusive light onsite next to pathways_1_Cd_Seg3	Obtrusive - Cd	N.A.	9.30	51	1	0.11	0.02
Example Obtrusive light onsite next to pathways_1_Ill_Seg1	Obtrusive - Ill	Lux	0.22	2	0	0.00	0.00
Example Obtrusive light onsite next to pathways_1_Ill_Seg2	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
Example Obtrusive light onsite next to pathways_1_Ill_Seg3	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
Example Obtrusive light onsite next to pathways_Cd_Seg1	Obtrusive - Cd	N.A.	18.60	399	2	0.11	0.01
Example Obtrusive light onsite next to pathways_Cd_Seg2	Obtrusive - Cd	N.A.	63.50	384	2	0.03	0.01
Example Obtrusive light onsite next to pathways_Cd_Seg3	Obtrusive - Cd	N.A.	21.85	121	2	0.09	0.02
Example Obtrusive light onsite next to pathways_Ill_Seg1	Obtrusive - Ill	Lux	0.07	2	0	0.00	0.00
Example Obtrusive light onsite next to pathways_Ill_Seg2	Obtrusive - Ill	Lux	0.25	2	0	0.00	0.00
Example Obtrusive light onsite next to pathways_Ill_Seg3	Obtrusive - Ill	Lux	0.10	1	0	0.00	0.00
Fallowfield Brow Obtrusive light_Cd_Seg1	Obtrusive - Cd	N.A.	14.81	130	1	0.07	0.01
Fallowfield Brow Obtrusive light_Ill_Seg1	Obtrusive - Ill	Lux	0.00	0	0	N.A.	N.A.
Sheavyn House Obtrusive Light_ Cd_Seg1	Obtrusive - Cd	N.A.	128.17	292	9	0.07	0.03
Sheavyn House Obtrusive Light_ Ill_Seg1	Obtrusive - Ill	Lux	0.81	2	0	0.00	0.00

Designed to:



Dimensions are not to be scaled from this drawing



Project Number 52227 Project Title - Fallowfield Residences Redevelopment Date 08/07/2025 Kingfisher Lighting

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BREEAM New Construction 2018 (UK)

POL 04 - External Lighting

Aim: To ensure that external lighting is concentrated in the appropriate areas and that upward lighting is minimised, thereby reducing unnecessary light pollution, energy consumption and nuisance to neighbouring properties.

Number Of Credits Available: 3
Minimum Standards: No

Table 1: The effect on the ability to view the night sky

Angle Of Light Emitted (Degrees)	Sky Glow Effect	Glare Effect
90-100	Low	Low
80-90	Significant	None
70-80	High	High
0-90	Significant	High
0-65	Minimum	None

Table 2 - Environmental zones

Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark (ILP/CIE E0 Sky)	Astronomical Observatories dark skies, UNESCO starlight reserves, IDA dark sky places
E1	Natural	Dark (ILP/CIE E0 to E1)	Relatively uninhabited rural areas, National Parks, Areas of Outstanding Natural Beauty, IDA buffer zones
E2	Rural	Low district brightness	Sparsely inhabited rural areas, village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Well inhabited rural and urban settlements, small town centres of suburban locations
E4	Urban	High district brightness	Town / City centres with high levels of night time activity

Table 3 - Maximum values of upward light ratio (ULR) of luminaires

Light technical parameter	Environmental zones				
	E0	E1	E2	E3	E4
Upward light ratio (ULR) / %	0	0	2.5	5	15

Note 1: This is the primary approach to limit skyglow and is suitable to compare different single luminaires and their contribution to skyglow. It does not address the effect of light reflected from surfaces.

Note 2: This does not limit the amount of light which escapes from your exterior area contributing to skyglow.

Note 3: Some lighting schemes will require the distribution and control part of upward light, e.g. ground-mounted luminaires, ground-mounted floodlights and festive lighting, to which these limits cannot apply. Applicants should demonstrate that they have minimised upward light from these lighting schemes and have specified suitably directional luminaires and light control to any attachments.

Table 4 - Maximum values of upward flux ratio of installation (or fraction of more luminous)

Light technical parameter	Type of installation	Environmental zones				
		E0	E1	E2	E3	E4
Upward flux ratio (ULR) / %	Road	n/a	2	5	8	12
	Amenity	n/a	n/a	4	5	10
	Sports	n/a	n/a	2	4	15

Note 1: to achieve the effect of both direct and reflected upward components of a whole installation to be considered, the mean lamp flux is used from Table 3 (ULR).

Note: n/a within table 5 denotes that lighting of this type is not usually expected within those zones.

This Credit aims to be considered where an intervention controls effect or more luminaires therefore an assessment with a defined performance requirement or specialised Name profit lighting systems Such as those can be a remote glare growth in aspects planted near or in proximity to

Note: Table 3 and Table 4
A new effects Rule 43 Canary which Marks a residential LED shall take over "Further information on LP website"

ENE 01 - Energy efficient external lighting

Aim: To reduce energy consumption through the specification of energy efficient light fittings for external areas of the development.

Number Of Credits Available: 1
Minimum Standards: Yes

Assessment Criteria

The following demonstrates compliance:
1 - No external lighting (which includes lighting on the building, at entrances and signs).
OR
2 - External light fittings within the construction zone with:
2.a - Average initial luminous efficacy of not less than 70 luminaire lumens per circuit Watt
2.b - Automatic control to prevent operation during daylight hours
2.c - Presence detection in areas of intermittent pedestrian traffic

HEA 01 Visual Comfort

Aim: To encourage best practice in visual performance and comfort by ensuring daylighting, artificial lighting and occupant controls are considered.

Number Of Credits Available: 1
Minimum Standards: Yes

Assessment Criteria

If All external lighting located within the construction zone is specified in accordance with BS 5489-1:2013 Code for the practice for the design of road lighting. Lighting of roads and public amenity areas and BS EN 12464-2:2014 Light and lighting - Lighting of work places - Part 2: Outdoor work places. External lighting should provide illuminance levels that enable users to perform outdoor visual tasks efficiently and accurately, especially during the night.

IE Where no external light fittings are specified (either separate from or mounted on the external building façade or roof), the criteria relating to external lighting do not apply and the credits can be awarded on the basis of compliance with criteria 7-8 as above. If no internal lighting is specified, the credit cannot be awarded.

Project Number 52227 Project Title - Fallowfield Residences Redevelopment Date 15/08/2025 Kingfisher Lighting

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Symbols	Luminaire Image	Qty.	Luminaire	Light Source	Nom.c.Pwr	Luminaire Lumens (lm)	Eff.(%)	LOR	Total Lumens	DLOR	Upward Lumens	Light Engine: Colour rendering	Light Engine: L Value	Light Engine: R Value	SLP GN01 - Table 3 & Table 7: Nom. Angle	SLP GN01 - Table 3 & Table 7: Sky Glow Effect	SLP GN01 - Table 3 & Table 7: Glare Effect	SLP GN01 - Table 3 & Table 7: Intrinsic Luminaire Luminous Intensity cd/1000lm (Ref. to GN01 Table 7)	Indirect Flux ULR & Luminaire Luminous Intensity cd/1000lm (Ref. to GN01 Table 7)	Calculation for 6 Years: * MF Used Per Day	Calculation for 6 Years: LLF (Scenario)	Calculation for 6 Years: Kw/Hour
		8	EcoRay R9	wrtp - 007-2 Module 100mA	37.4	4720	126.20	100%	37760	0.0%	0	3000	90	20	106,000	170	90°	Minimum	None	100	n/a	12	0.27	1510.20
		52	EcoRay TP	wrtp - 005 - 1 Module 60mA	11.9	1490	119.21	100%	77480	0.0%	0	3000	90	20	106,000	170	90°	Minimum	None	191	n/a	12	0.56	2730.34
		106	Wiko Bollard	20w LED	20.0	1700	85.00	100%	180200	0.0%	0	3000	0	0	0	0.00	0.00	0.00	0	0.0%	12	0.00	0.00
		11	EcoRay R9	wrtp - 007-2 Module 140mA	52.3	7000	133.89	100%	77000	0.0%	0	3000	90	20	106,000	170	90°	Minimum	None	413	n/a	12	0.52	2519.81
		20	EcoRay TP	wrtp - 5 - 2 Module 60mA	23.8	2970	125.13	100%	59400	0.0%	0	3000	90	20	106,000	170	58°	Minimum	None	100	n/a	12	0.41	2014.80
		60	EcoRay TP	wrtp - 5V - 1 Module 60mA	11.9	1510	126.89	100%	30600	0.0%	0	3000	90	20	106,000	170	67°	Minimum	None	182	n/a	12	0.64	3127.32

BREEAM Summary

GN01 - 2021

** Environmental Zone to be confirmed by assessor **

Environmental Zone	E3

	Target	Achieved	Status
Upward Light Ratio (ULR) - Table 6	5.0%	0.0%	Pass

Table 6 - Source Intensity (Candelas)

Pre Curfew - A_2 >0.5	10,000	399	Pass
Pre Curfew - A_2 =<0.5	1,000	189	Pass

Table 7 - Light Trespass Into Windows (Lux)

Pre Curfew	10	2	Pass
Post Curfew	2	2	Pass

Total Installation Lumens	407440
Total Upward Light	0.0%
Total KDE Per Year (Tonnes)	2
Total Electric Consumption (Kw)	6
Total Electric Consumption Per Year (Kwh)	11665
Average Luminaire Lumens Per Circuit Watt	105

Compliance Status Summary

Pol 04	Reduction Of Night Time Light Pollution	Pass
Ene 08	Energy Efficient External Lighting	Pass
Hea 01	Internal And External Lighting Levels	Pass

Note - HEA01 in this report only applies to exterior lighting
** GDT = (Average Kan Temp - Ambient Temp)



N

Fallowfield Residences Development

Scale	Project Number
1:800 at A0	D52227R
Date	Drawing No.
18 August 2025	D52227/RD/Q
Designed By :	

For this lighting design a 0.9mf has been used. If it differs from the maintenance plan for this project then you must advise us accordingly

Kingfisher Lighting

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Rev.	Description	Initials



For more information on EV charging for your installation please visit www.sync.energy or click the image