

Unit Type ID	Column Symbol	Quantity	Luminaire Manufacturer	Luminaire Type	Mounting	Luminaire Tilt	Optic Setting	Glare Class	Shield	Output (klm)	Jr Temper	Wattage	Driver type	Luminaire finish	Electronic Control Type	Control Manufacture r	Lux on/off	Switch Regime	Electric Supply	Luminaire UMSUG	NOTES
A		3	Exenia	Tripo wall	wall mounted to the side of entrance door	0 Degrees	8A08-60-B2	undefined	None but available	0.34	2700K	4.5W	DALI enabled with casambi remote option	Corten effect rust brown	Casambi or switch and remote photocell dusk till dawn	Casambi	20/20	dusk till dawn	private	42 0004 0000 100	Decorative three pronged wall light with the recessed light source option and can have an additional laser cut front panel to further reduce light however this may affect facial recognition.
B		4	Bega	recessed wall light	recessed into gate piers	0 degrees	22203K3	undefined	yes to direct all light downward	2.85	3000K	2.3W - 24V	DALI enabled	graphite painted cast aluminium	switch and dusk till dawn remote photocell	Simmon signs for photocells	20/20	dusk till dawn	private	42 0002 0000 100	Small square louvred recessed luminaire for either side and front and back of the brick piers at the gate of plot four. Lights mounted at 0.6m high to ensure minimal spill light.
C		29	IGuzzini	Allure wall light	Wall mounted between 2 and 3m high	0 degrees	SA42+X79 9.07-H38A	G5	no	0.75	2700K	7.1W	Bluetoot h Casambi	Corten effect rust brown	Casambi or switch and remote photocell dusk till dawn	Casambi	20/20	dusk till dawn	private	42 0007 0000 100	Allure wall mounted luminaire for building perimeters that have warm colour temperature and are pre- dimmed to ensure least impact on ecology. All light delivered downward so no view of light source from above or in front.



Equality and Diversity Impact Assessment				
Characteristic	Could this scheme affect this group less favourably than others? Yes/No	Assessment of potential impact. High/Medium/Low w/None/Unknown POSITIVE	Assessment of potential impact. High/Medium/Low w/None/Unknown NEGATIVE	Details
Age	Yes	Med	Low	The lighting design has been carried out in accordance with the industry standard design guidance. It is recognised that the scheme could have a disproportionate adverse impact on elderly or vulnerable people, particularly in emergency situations, when accessing the Site.
Disability	Yes	Med	Low	The lighting design has been carried out in accordance with the industry standard design guidance. It is recognised that the scheme could have a disproportionate adverse impact on disabled people, particularly in emergency situations, when accessing the Site.
Gender	No	None	None	
Gender Identity	No	None	None	
Race	No	None	None	
Religion or belief	No	None	None	
Pregnancy/Maternity	No	None	None	
Sexual orientation	No	None	None	
Marriage and civil partnerships	No	None	None	

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Ref	Type	X	Y	Height	Angle Deg	Tilt Deg	Out-reach	Dimmed to%
2 C		478424.2	164662.9	3	98	0	0	25
3 C		478428.3	164664.2	3	98	0	0	25
4 C		478436.7	164663.7	2.8	98	0	0	25
5 C		478432	164663.7	3	98	0	0	25
6 C		478423.2	164654.1	3	189	0	0	5
7 C		478422.3	164659.6	3	190	0	0	5
8 A		478431.2	164654	2.2	279	0	0	100
9 C		478411.9	164703.7	3	189	0	0	25
10 C		478412.5	164699.5	3	189	0	0	25
11 C		478415.4	164692	3	189	0	0	25
12 C		478419.4	164690.1	3	282	0	0	25
13 C		478422.6	164692.7	3	9	0	0	25
14 C		478416.9	164707	3	99	0	0	25
15 A		478423.6	164701.4	2.2	8	0	0	100
16 C		478424.3	164696	2.2	8	0	0	75
17 C		478417.4	164718.3	3	281	0	0	25
18 C		478411.6	164719.6	3	189	0	0	25
19 C		478410.9	164723.8	3	189	0	0	25
20 C		478411.6	164731.3	3	190	0	0	25
21 C		478414.6	164734.8	3	101	0	0	10
22 C		478418.3	164733.5	3	5	0	0	25
23 C		478421.1	164730.6	2.2	6	0	0	75
24 A		478422	164725.7	2.2	10	0	0	100
25 C		478417.4	164757.3	3.5	8	0	0	25
26 C		478417.8	164765.8	3	8	0	0	25
27 C		478419.5	164748.8	3	8	0	0	25
28 C		478406.7	164757	3	281	0	0	25
29 C		478403.8	164761	3	190	0	0	10
30 C		478407.9	164750	3	192	0	0	25
31 C		478415.1	164767	3	101	0	0	10
32 C		478406.5	164765.6	3	99	0	0	10
33 C		478413.8	164746.5	3	280	0	0	10
34 B		478429.8	164741.1	0.6	281	0	0	100
35 B		478434.3	164741.7	0.6	281	0	0	100
36 B		478429.8	164741.7	0.6	98	0	0	100
37 B		478434.3	164742.3	0.6	99	0	0	100

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Lighting Design Notes
Specification and supporting design information

The lighting design has been undertaken in line with with BS5489-1:2020 and industry guidance/best practice for areas with environmental and ecology considerations.

Lighting class chosen: Unclassified but suitable for human safety and ecology mitigation. Levels are the lowest possible for the task requirements of the area and human safety whilst directing light downward to provide mitigation for the ecology receptors that surround the site. Vertical calculation grids have been used to show vertical impacts of light on key locations around properties and on trees and tree lines.

MF used: As per luminaire - See 208-1-NAD-RT-C

Dimming employed: Yes pre set to low outputs via Casambi or switching options. Ranges from 5% to 100% depending on luminaire and location. See 208-1-NAD-RT-C - Please note these will be set at the time of installation and are not for residents to alter, only to switch on and off.

Dusk till Dawn: via external photocell to ensure no lighting is on outside hours of darkness. All plots should have a photocell wired into the exterior lighting to ensure lights are only ever able to come on during darkness.

Switch Regime: 20-20 lux via a photocell wired remotely to control switching for each property.

Vertical calculation grid results can be seen within document

208-01-NAD-RT-C

Summary of vertical grid results - results are taken at 0.2m points across a 6m high area. Measurement in Lux

Grid 2 - entrance tree - Average 0, Maximum 0.03

Grid 3 - Second big tree - Average 0.01, Maximum 0.03

Grid 4 - Third big tree - Average 0.03, maximum 4.12 (high spot is directly next to the gates to plot 4 and doesn't allow for obstacles or planting which will further reduce the impacts. The max areas consist of two small 1m x 0.6m spots which are above 1 lux).

Grid 5 - Northern tree line - Average 0.14, Maximum 2.59 (Less than 1 lux above 1.4m high and only in the center of the grid directly opposite plot 4 wall lights.

Grid 6 - Top big tree to the right - Average 0, Maximum 0.01

Grid 7 - No57 Boundary to plot 1 - Average 0.08, Maximum 1.35. (above lux only to 1.4m high in two small spots directly in front of wall lights. Hedgerow will diminish this further)

Grid 12 - Rear tree line to plot 2 - Average 0.01, Maximum 0.08

Grid 13 - Rear tree line to plot 3 - Average 0.02, Maximum 0.15

Grid 14 - Rear tree line to plot 4 - Average 0.01, Maximum 0.14

Light levels have been discussed with the ecologists for the project and it is felt any impacts will be negligible.

Contact details for all luminaires are as follows - this will aid the developer to get specific help and to purchase the correct products.

Exenia - Tripo wall fitting - Richard Windle, Regional Sales Director UK
Phone number 07702557625 - email richard.windle@exenia.eu

IGuzzini - Allure wall fitting - phone number 01483 468000 - info.uk@iguzzini.com

Bega - Recessed pier wall light with shield 22203K3 24V - Phone number 01306882098 - service@bega.de

Design information

- Existing or proposed trees shall be at least 5m from any lighting equipment. They must be maintained to remain so.
- The lighting design of this site has been produced by a competent person (level 4) as assessed under the Institution of Lighting Professionals (ILP) competency framework as this complies with CDM2015 regulation requirements for design, risk for the Client and any Secured by Design (SBD) requirements.

Environmental Assessment

Both permanent and temporary impacts have been assessed for the design against conservation, ecology, landscape, land use, community, energy and construction. No significant impacts are anticipated from the installation of new lighting equipment for this project other than those stated separately within this document.

Landscape: The installation of luminaires will affect the daytime scene due to no lighting currently being present within the area. Visibility of luminaires at night will be slightly apparent due to no lighting currently being in use within the area.

Land use: The use of the area may increase because the additional lighting will encourage people to use the space more, as the perception of safety will have increased.

Traffic noise and vibration: No permanent increase anticipated.

Flora: Clearance of grass/scrubland may be required. The removal of any substantial vegetation and trees is not anticipated.

Fauna: No considerable negative effects upon ecology are anticipated.

Contamination: Luminaires selected are made from suitable materials for the location in which they are to be used and are CE and ROHS compliant.

The LEDs used contain small quantities of hazardous substances however, the contractor will carry out the disposal of faulty electrical items and metals in strict accordance with National directives, and recommendations.

KEY

ISOLUX CONTOURS

0.4 LUX

1 LUX

5 LUX

NOTES

- For lighting results and calculations, please see accompanying lighting report.
- Luminaires are to be supplied with Private live connections. All electrical information supplied and designed by others. Details of any electrical design will be by others.
- Existing trees within a 5m radius of any proposed equipment must be cut back and maintained throughout the life of the installation. There shall be no tolerance given to the manufacturers' dimensions for planting depths for lighting.
- Obtrusive light has been considered against all relevant guidance All luminaires must be installed as per British standards. Luminaires must be maintained regularly to keep lighting levels as per the design. Light source changes must occur within manufacturer guidelines.

5m 0 25m 50m

SCALE - 1:500

Rev	Description	Drawn	Date

Owner: it does Lighting Limited
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Project Name: Nine Mile Ride, Wokingham

Title / Description: On site non adoptable lighting design

Site: Wokingham	Client: Anderson Contractors Limited
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Designer: Lorraine Calcott (Eng)	Checked:	Drawing Status:	ISO A1 Sheet 1 of 1
Highway Authority:	Date First Drawn:	12-12-23	Rev:

208-01-NAD-CD-C

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