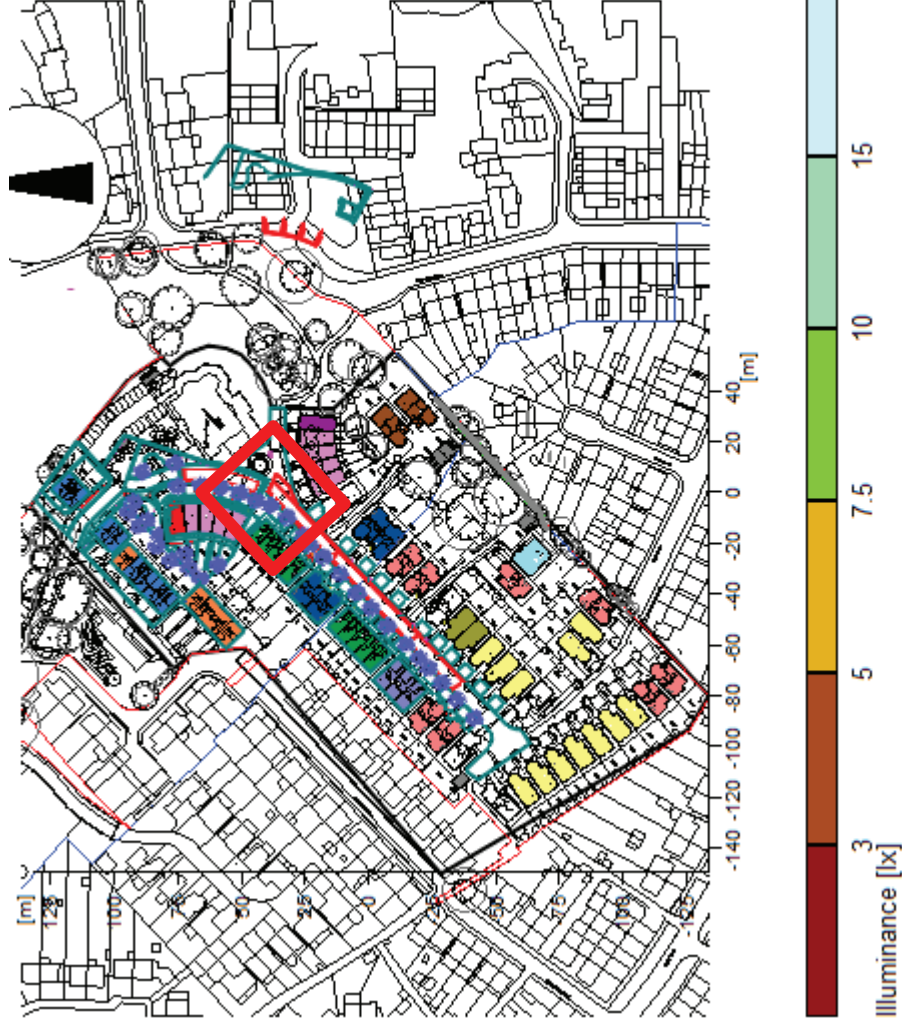


Lighting Calculations



Standard Calculation

General

Calculation algorithm used
Height of evaluation surface
Maintenance factor

Average indirect fraction
0.20 m
0.80

Total luminous flux of all lamps
Total power
Total power per area (28557.63 m²)

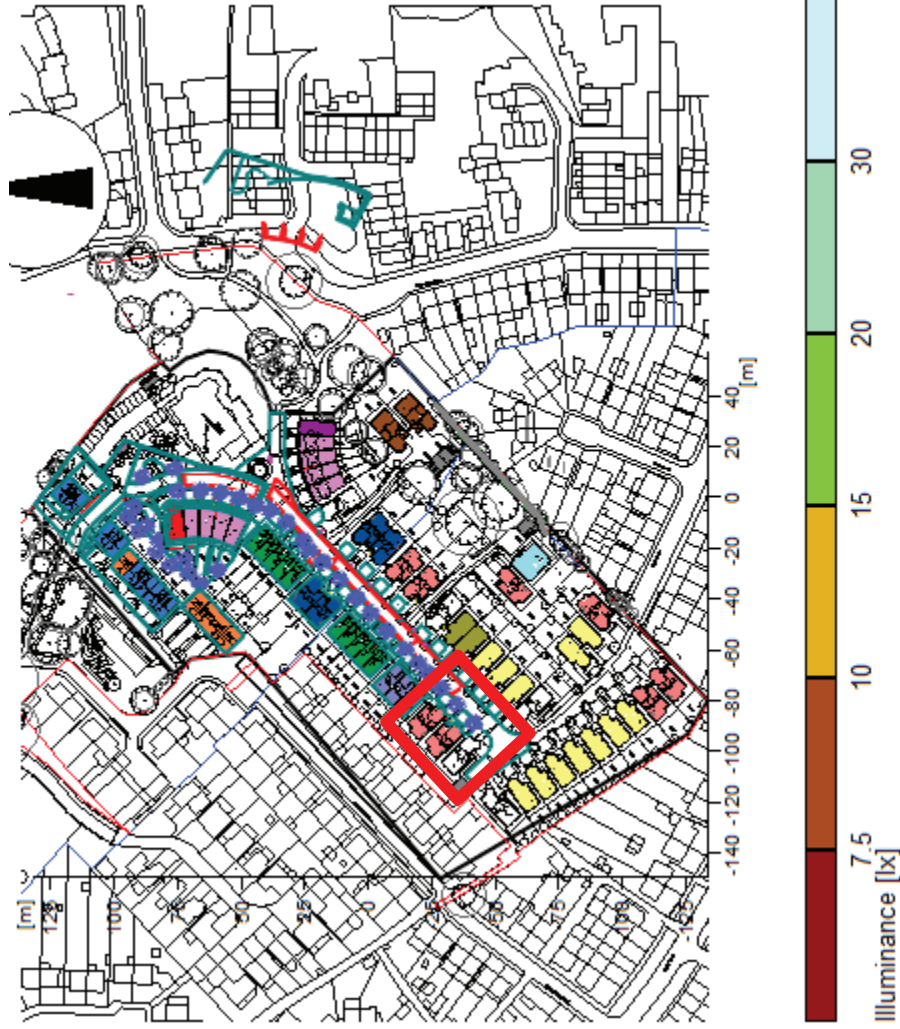
181503 lm
3040 W
0.11 W/m²

Illuminance

Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_o

E_{av}
E_{min}
E_{max}
E_{min}/E_m

7.1 lx
3.5 lx
12.4 lx
1:2.06 (0.48)



Standard Calculation

General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (28557.63 m²)

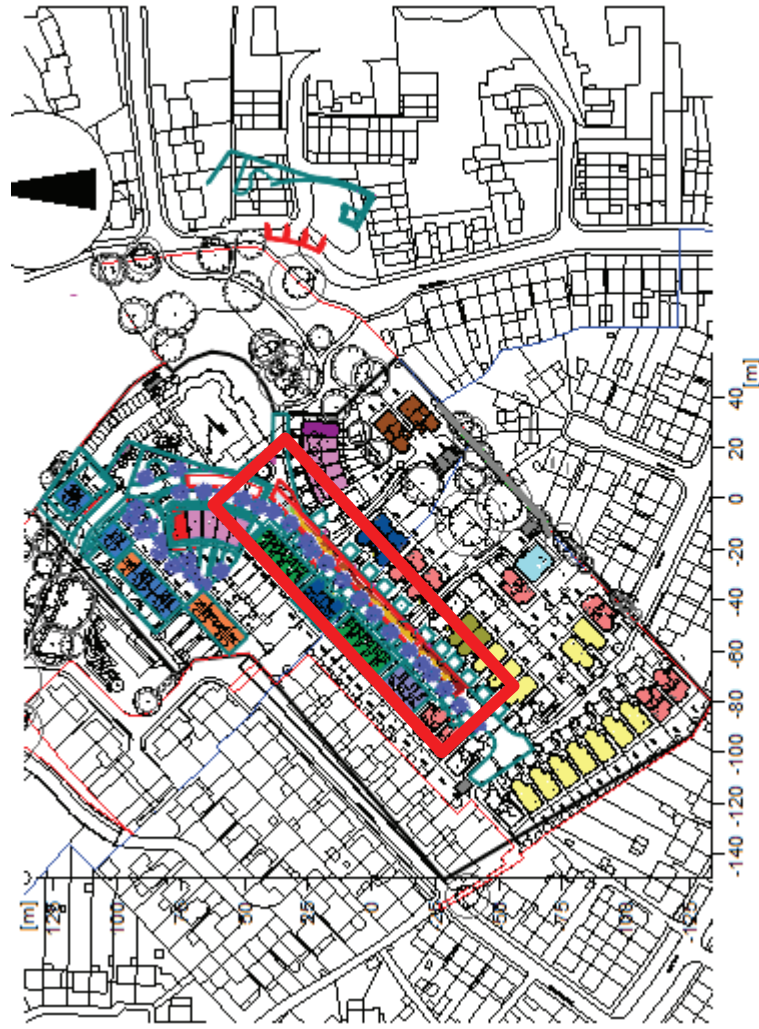
181503 lm
 3040 W
 0.11 W/m²

Illuminance

Average illuminance
 Minimum illuminance
 Maximum illuminance
 Uniformity U_o

E_{av}
 E_{min}
 E_{max}
 E_{min}/E_m

14.6 lx
 5.9 lx
 31.9 lx
 1:2.49 (0.4)



Standard Calculation

General

Calculation algorithm used

Height of evaluation surface

Maintenance factor

Total luminous flux of all lamps

Total power

Total power per area (28557.63 m²)

Average indirect fraction
0.20 m
0.80

181503 lm
3040 W
0.11 W/m²

Illuminance

Average illuminance

Minimum illuminance

Maximum illuminance

Uniformity U₀

Diversity U_d

E_{av}
E_{min}
E_{max}
E_{min}/E_m
E_{min}/E_{max}

4.5 lx
0.6 lx
42.1 lx
1:7.5 (0.13)
1:70.3 (0.01)

Please note Orlight offer light level calculations as a bespoke complimentary service to valued clients. Orlight only act as a supplier of lighting and as such calculations are provided for informative purposes only.

All information is provided in good faith and is dependent on a multitude of variables including drawing scales and finishes. Adjustment of any such parameters may result in an alteration in light levels. As such Orlight will not be held responsible for and inaccuracies whatsoever.