

Roadway

Installation : Street

Project number : Bartons Road, Havent - 143525-00097 - R1

Customer : Stonebond Properties (Guildford) Limited

Processed by : Dan Parr

Date : 22.12.2025

Project description:

REVISED LIGHTING LAYOUT

Street lighting locations and quantities are revised to achieve S4 lighting levels.

Evaluation area 1 [Reference plane 1] - includes roadways and parking spaces

Evaluation area 2 [Reference plane 2] - includes roadways only

Street EQ19

15.7W warm white [3000K, CRI 70] LED module column mounted street lighting pole top luminaire with Street [ST1] optic, and integral Middle of the Night / NFC DALI dimming capability.

Size - 529mm x 268mm x 204mm H

Single luminaire pole top mounted to 6m column.

Optics angled outwards by 5°.

Quantity - x24

*Please see associative drawing 'CLDL 2445 (08) 0101 P04 Bound - iGuzzini R1' for further lighting arrangement and luminaire details

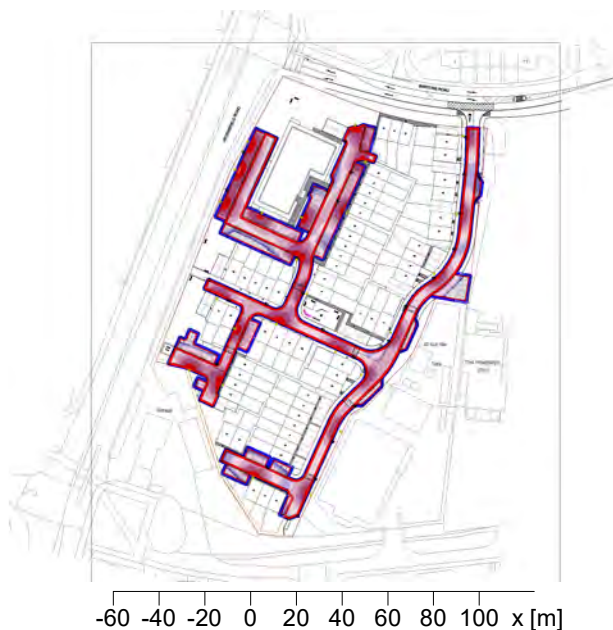
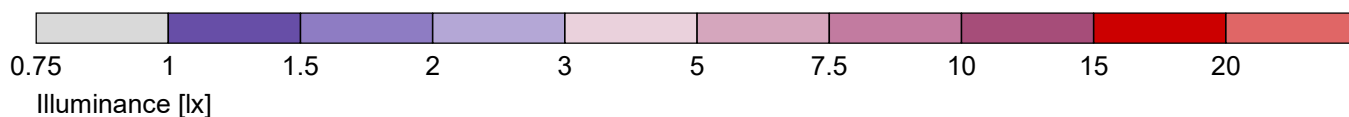
The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

2 [R1] Roadway [REVISED layout]

2.1 Summary, [R1] Roadway [REVISED layout]

2.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.85

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (4666.82 m²)

57600.00 lm
 57597.93 lm
 376.8 W
 0.08 W/m² (1.18 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

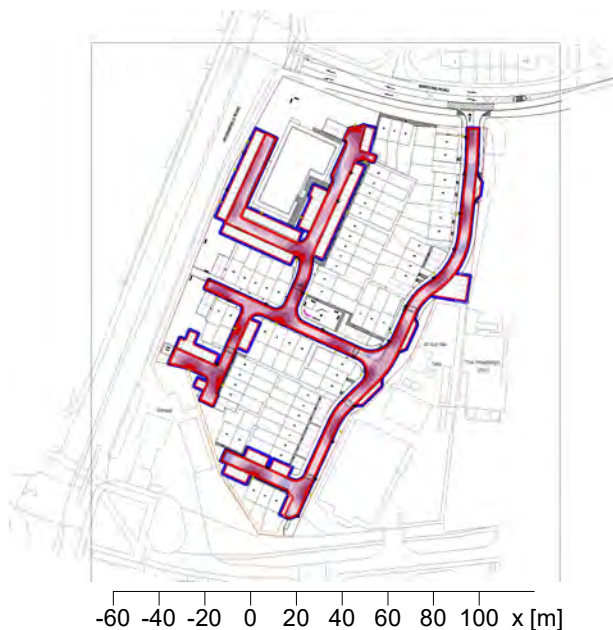
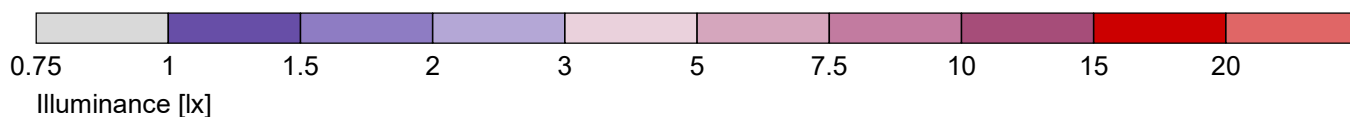
Horizontal
 $\bar{E}_m$ 6.81 lx
 E_{min} 0.08 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.01
 $E_{min}/E_{max} (U_d)$ 0.00
 Position 0.00 m

Type No. Make

iGuzzini
 1 24 x
 Order No. : EQ19
 Luminaire name : Street 529x268 mm
 Equipment : 1 x LED 15.7 W / 2400 lm

2.1 Summary, [R1] Roadway [REVISED layout]

2.1.2 Result overview, Evaluation area 2



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.85

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (4666.82 m²)

57600.00 lm
 57597.93 lm
 376.8 W
 0.08 W/m² (1.13 W/m²/100lx)

Evaluation area 2

Reference plane 2.1

Horizontal
 $\bar{E}_m$ 7.14 lx
 E_{min} 1.03 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.14
 $E_{min}/E_{max} (U_d)$ 0.05
 Position 0.00 m

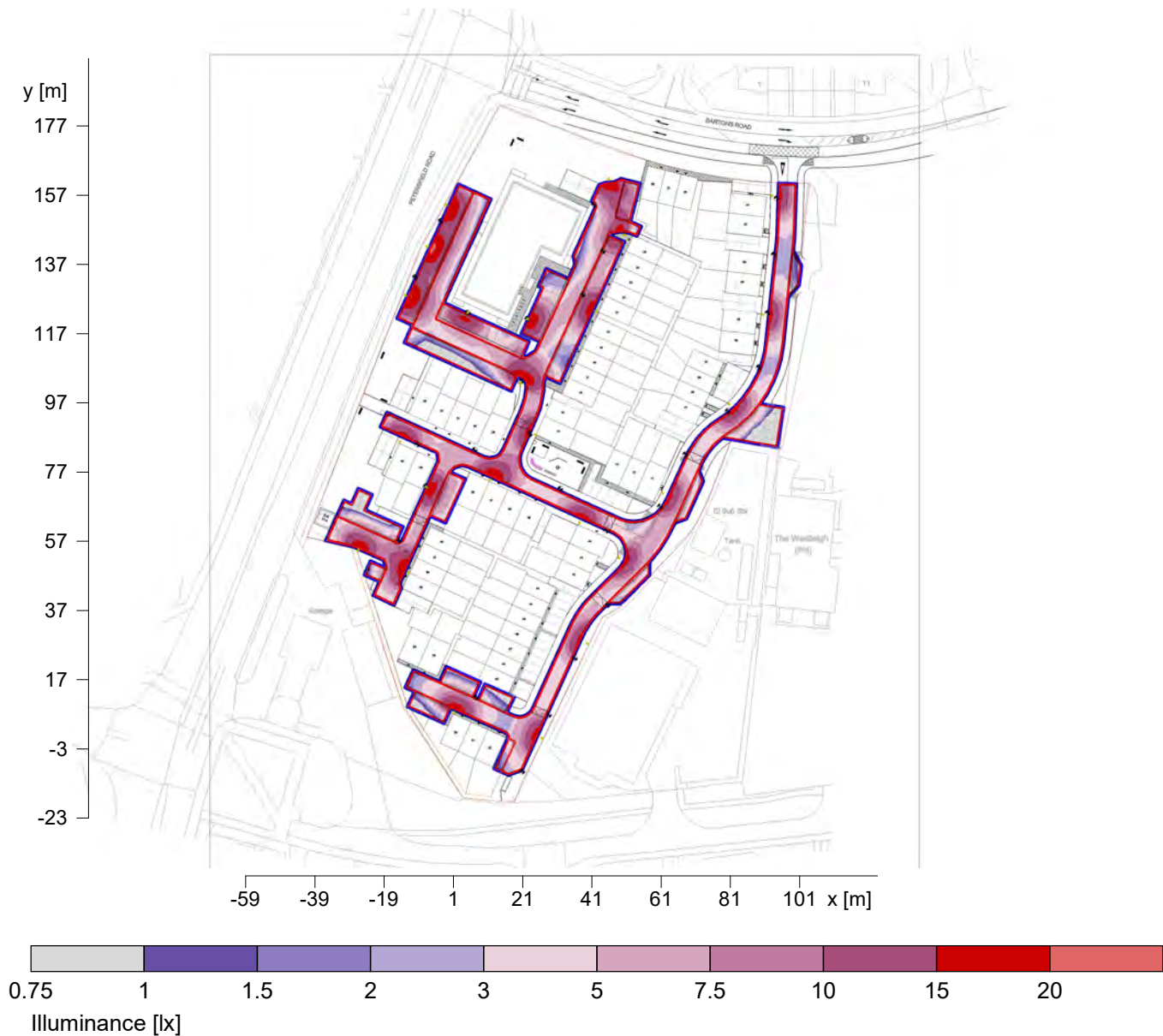
Type No. Make

iGuzzini
 1 24 x
 Order No. : EQ19
 Luminaire name : Street 529x268 mm
 Equipment : 1 x LED 15.7 W / 2400 lm

2 [R1] Roadway [REVISED layout]

2.2 Calculation results, [R1] Roadway [REVISED layout]

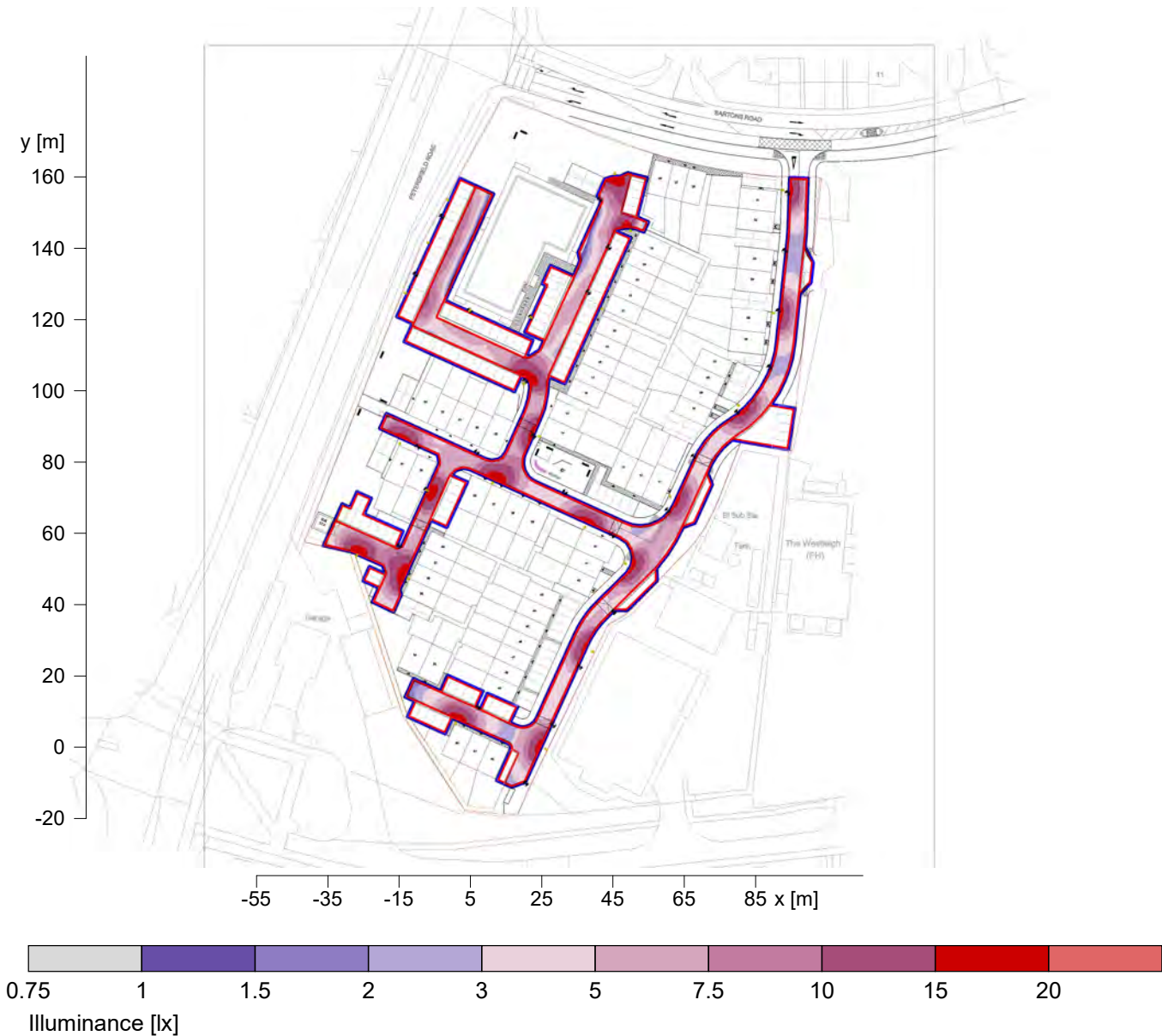
2.2.1 Pseudo colours, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 6.8 lx
Minimum illuminance	E_{min}	: 0.1 lx
Maximum illuminance	E_{max}	: 21.2 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	: 1 : 90.13 (0.01)
Diversity U_d	E_{min}/E_{max}	: 1 : 279.85 (0.00)

2.2 Calculation results, [R1] Roadway [REVISED layout]

2.2.2 Pseudo colours, Reference plane 2.1 (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 7.1 lx
Minimum illuminance	E_{min}	: 1 lx
Maximum illuminance	E_{max}	: 19.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 6.91 (0.14)
Diversity U_d	E_{min}/E_{max}	: 1 : 18.59 (0.05)