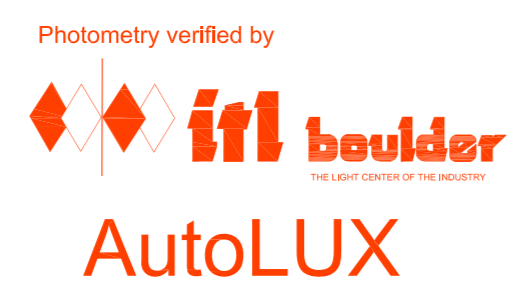
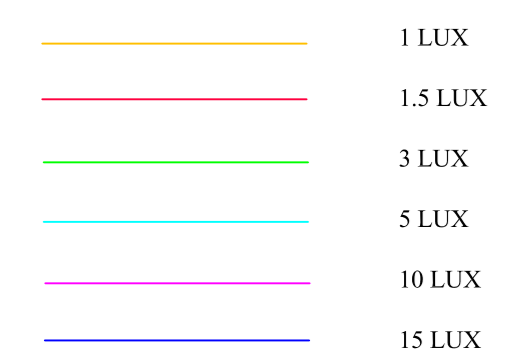


HORIZONTAL ILLUMINANCE LEVELS (ISO CONTOUR VALUES)



All calculations performed by this version of AutoLUX are as specified in B.S. 5489-1:2020



SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Single Sided Left |
| Spacing (S) | 34.50 m / 23.50 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.02 lux / 7.39 lux |
| Minimum | 1.87 lux / 4.75 lux |
| Emm/Ave (lx) | 0.33 / 0.64 |

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Staggered |
| Spacing (S) | 34.50 m / 23.50 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.08 lux / 7.45 lux |
| Minimum | 2.85 lux / 3.95 lux |
| Emm/Ave (lx) | 0.56 / 0.52 |

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-FOOTPATH

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Single Sided Left |
| Spacing (S) | 34.00 m / 23.00 m |
| Left Footpath | 0.00 m |
| Setback (O) | 0.00 m |
| Outreach | 0.50 m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.02 lux / 7.45 lux |
| Minimum | 3.15 lux / 4.75 lux |
| Emm/Ave (lx) | 0.63 / 0.64 |

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Single Sided Left |
| Spacing (S) | 34.50 m / 23.50 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.06 lux / 7.42 lux |
| Minimum | 3.04 lux / 1.25 lux |
| Emm/Ave (lx) | 0.80 / 0.57 |

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Single Sided Left |
| Spacing (S) | 37.50 m / 25.50 m |
| Left Footpath | 0.00 m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.05 lux / 7.46 lux |
| Minimum | 1.76 lux / 4.84 lux |
| Emm/Ave (lx) | 0.32 / 0.62 |

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 2900 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P4
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | Staggered |
| Installation Height (H) | 6.00m |
| Spacing (S) | 34.50 m / 23.50 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|---------------------|
| Average | 5.06 lux / 7.45 lux |
| Minimum | 2.85 lux / 3.95 lux |
| Emm/Ave (lx) | 0.56 / 0.52 |

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 4630 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P3
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | 2 |
| Installation Height (H) | Single Sided Left |
| Spacing (S) | 34.00 m / 23.00 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|----------------------|
| Average | 7.59 lux / 11.24 lux |
| Minimum | 4.00 lux / 5.23 lux |
| Emm/Ave (lx) | 0.53 / 0.50 |

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2
 Lamp Type OSRAM DURIS S8 CR70
 Lamp Flux 4630 lumen
 TBSID 0.0 deg
 Calculation Grid BS5489-1:2020 ILLUMINANCE Class P3
 Maint. Factor (MF) 0.87

| | |
|-------------------------|--------------------|
| Carriageway Width (W) | Single Carriageway |
| Number of Lanes | Staggered |
| Installation Height (H) | 6.00m |
| Spacing (S) | 34.00 m / 23.50 m |
| Left Footpath | 2.00m |
| Setback (O) | 0.00 m |
| Outreach | 0.50m |
| Overhang | 0.50m |

Horizontal Illuminance

| | |
|--------------|----------------------|
| Average | 7.58 lux / 11.05 lux |
| Minimum | 3.87 lux / 4.89 lux |
| Emm/Ave (lx) | 0.51 / 0.42 |

AS VERIFIED BY LIGHTING REALITY

- EXISTING AXIA 2.1 5178 - 24 Nichia NVSL219CT 750mA NW Z30V Without protector 38342Z LANTERN lamp(s): 24 Nichia NVSL219CT candelabra AXIA 2.1 5178 24 Nichia NVSL219CT 750mA NW 38342Z Without protector - 230V TF JdF 1 lamp(s) per luminaire, 2710 initial lumens per lamp, Maintenance Factor = 0.87, watts per luminaire = 54 Outreach (from mounting axis to photometric center) = 2000 mm mounting height = 8 m number locations = 4, number luminaires = 4
- PREVIOUSLY PROPOSED ORANGETEK IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2 LANTERN lamp(s): OSRAM DURIS S8 CR70 candelabra IGNS mini Plus 24 V20 4.0_70_175_4631_2_lux 1 lamp(s) per luminaire, photometry is absolute Maintenance Factor = 0.87, watts per luminaire = 26 Outreach (from mounting axis to photometric center) = 500 mm mounting height = 6 m number locations = 30, number luminaires = 30
- ORANGETEK IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2 LANTERN lamp(s): OSRAM DURIS S8 CR70 candelabra IGNS mini Plus 24 V20 4.0_70_108_2987_2_lux 1 lamp(s) per luminaire, photometry is absolute Maintenance Factor = 0.87, watts per luminaire = 16 Outreach (from mounting axis to photometric center) = 500 mm mounting height = 6 m number locations = 32, number luminaires = 32

NOTES :

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| | |
|---|--------------|
| PROJECT TITLE | |
| PRD ROTHES MILL GLENROTHES | |
| DRAWING TITLE | |
| PHOTOMETRY DRAWING (ILLUMINANCE LEVELS) FOR ALD.38.74 Sheet-1 | |
| DRAWN BY | DR |
| A.L.D. | 24/02/21 |
| SCALE | 1 : 500 @ A0 |
| DRAWING NUMBER | REVISION |
| PDI.38.74 Sheet-1 | |