**DATE:** **16 October 2025**

**DESIGNER:** **WLC**

**PROJECT No:** **WLC1152**

**PROJECT NAME:** **Kilnwood Phase 3 DEFG**

R1: LANDSCAPING REVIEW
R2: LANDSCAPING REVIEW

THE PROPOSALS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE FOLLOWING TARGET LIGHTING CLASS(ES): P5 IN ACCORDANCE WITH BS 5489:2020

LEVELS ACHIEVED:
REFER TO INDIVIDUAL GRID WITHIN REPORT.

# WLC1152-LC-AC-001 R2

**PREPARED BY:** Williams Lighting Consultants Ltd.
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# Layout Report

## General Data

Dimensions in Metres Angles in Degrees

## Calculation Grids

| ID | Grid Name | X | Y | X' Length | Y' Length | X' Spacing | Y' Spacing |
|---|---|---|---|---|---|---|---|
| 1 | Grid 1 | 523751.08 | 135071.00 | 60.00 | 72.00 | 1.50 | 1.50 |
| 2 | Grid 2 | 523630.21 | 135302.29 | 36.00 | 87.00 | 1.50 | 1.50 |
| 3 | Grid 3 | 523536.68 | 135269.89 | 102.00 | 45.00 | 1.50 | 1.50 |
| 4 | Grid 4 | 523467.01 | 135307.63 | 183.00 | 129.00 | 1.50 | 1.50 |

## Luminaires




### Luminaire A Data

| | |
|---|---|
| Supplier | Urbis Schreder |
| Type | AXIA 3.1 5295 Integrated lenses 16 OSLO N SQUARE GIANT@600mA |
| Lamp(s) | 16 OSLON SQUARE GIANT@600mA NW 740 230V 01-37-043 |
| LampFlux(klm)/Colour | 4.25 NW 4000K/70 |
| File Name | AXIA 3.1 5295 16 OSLON SQUARE GIANT 600mA NW 740 30.8W 435822 Integrated ... |
| Maintenance Factor | 0.83 |
| Lum. Int. Class | G3 |
| No. in Project | 33 |




### Luminaire B Data

| | |
|---|---|
| Supplier | Urbis Schreder |
| Type | AXIA 3.1 5295 Integrated lenses 8 OSLON SQUARE GIANT@400mA |
| Lamp(s) | 8 OSLON SQUARE GIANT@400mA NW 740 230V |
| LampFlux(klm)/Colour | 1.50 NW 4000K/70 |
| File Name | AXIA 3.1 5295 8 OSLON SQUARE GIANT 400mA NW 740 10.9W 435822 Integrated l... |
| Maintenance Factor | 0.83 |
| Lum. Int. Class | G3 |
| No. in Project | 8 |




### Luminaire C Data

| | |
|---|---|
| Supplier | Urbis Schreder |
| Type | AXIA 3.1 5270 Integrated lenses 8 OSLON SQUARE GIANT@300mA |
| Lamp(s) | 8 OSLON SQUARE GIANT@300mA NW 740 230V |
| LampFlux(klm)/Colour | 1.14 NW 4000K/70 |
| File Name | AXIA 3.1 5270 8 OSLON SQUARE GIANT 300mA NW 740 8.3W 429112 Integrated le... |
| Maintenance Factor | 0.83 |
| Lum. Int. Class | G3 |
| No. in Project | 8 |

## Layout

| ID | Type | X | Y | Height | Angle | Tilt | Cant | Out-reach | Dimmed to | Target X | Target Y | Target Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | A | 523596.77 | 135338.49 | 6.00 | 228.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 2 | A | 523619.01 | 135311.35 | 6.00 | 50.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 3 | A | 523650.18 | 135292.74 | 6.00 | 62.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 4 | A | 523682.12 | 135275.70 | 6.00 | 59.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 5 | A | 523663.77 | 135233.05 | 6.00 | 323.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 6 | A | 523686.91 | 135252.87 | 6.00 | 145.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 7 | A | 523700.43 | 135287.72 | 6.00 | 325.00 | 0.00 | 0.00 | 0.40 | 60% | | | |

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## Layout Continued

| ID | Type | X | Y | Height | Angle | Tilt | Cant | Out-reach | Dimmed to | Target X | Target Y | Target Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | A | 523722.50 | 135306.09 | 6.00 | 147.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 9 | A | 523745.49 | 135292.19 | 6.00 | 147.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 10 | A | 523726.36 | 135263.63 | 6.00 | 149.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 11 | A | 523705.84 | 135232.99 | 6.00 | 148.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 12 | A | 523691.82 | 135211.92 | 6.00 | 141.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 13 | A | 523728.14 | 135248.33 | 6.00 | 235.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 14 | A | 523755.20 | 135222.93 | 6.00 | 215.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 15 | A | 523772.85 | 135194.14 | 6.00 | 212.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 16 | A | 523772.92 | 135217.79 | 6.00 | 306.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 17 | A | 523806.65 | 135227.70 | 6.00 | 124.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 18 | A | 523767.42 | 135163.81 | 6.00 | 354.00 | 0.00 | 0.00 | 0.40 | 80% | | | |
| 19 | A | 523736.01 | 135150.83 | 6.00 | 266.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 20 | A | 523770.40 | 135140.40 | 6.00 | 82.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 21 | A | 523792.79 | 135138.18 | 6.00 | 87.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 22 | A | 523825.14 | 135134.97 | 6.00 | 86.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 23 | A | 523532.96 | 135208.98 | 6.00 | 296.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 24 | A | 523562.03 | 135222.19 | 6.00 | 296.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 25 | A | 523592.26 | 135235.79 | 6.00 | 296.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 26 | A | 523624.56 | 135240.30 | 6.00 | 258.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 27 | A | 523653.30 | 135228.57 | 6.00 | 242.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 28 | A | 523673.22 | 135215.10 | 6.00 | 234.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 29 | A | 523704.42 | 135190.09 | 6.00 | 228.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 30 | A | 523722.86 | 135162.69 | 6.00 | 193.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 31 | A | 523723.31 | 135137.49 | 6.00 | 181.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 32 | A | 523722.60 | 135118.73 | 6.00 | 175.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 33 | A | 523721.05 | 135086.31 | 6.00 | 178.00 | 0.00 | 0.00 | 0.40 | 60% | | | |
| 34 | B | 523776.49 | 135123.66 | 6.00 | 354.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 35 | B | 523782.73 | 135089.34 | 6.00 | 173.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 36 | B | 523678.61 | 135342.45 | 6.00 | 150.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 37 | B | 523659.12 | 135312.04 | 6.00 | 141.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 38 | B | 523618.50 | 135293.73 | 6.00 | 286.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 39 | B | 523591.40 | 135282.79 | 6.00 | 102.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 40 | B | 523566.08 | 135283.89 | 6.00 | 283.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 41 | B | 523549.75 | 135285.82 | 6.00 | 44.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 42 | C | 523629.14 | 135426.98 | 6.00 | 281.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 43 | C | 523594.34 | 135417.59 | 6.00 | 294.00 | 0.00 | 0.00 | 0.40 | 100% | | | |

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## Layout Continued

| ID | Type | X | Y | Height | Angle | Tilt | Cant | Out-reach | Dimmed to | Target X | Target Y | Target Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44 | C | 523561.35 | 135402.98 | 6.00 | 297.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 45 | C | 523534.83 | 135388.71 | 6.00 | 310.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 46 | C | 523507.44 | 135363.82 | 6.00 | 318.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 47 | C | 523484.08 | 135336.92 | 6.00 | 314.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 48 | C | 523547.48 | 135378.62 | 6.00 | 37.00 | 0.00 | 0.00 | 0.40 | 100% | | | |
| 49 | C | 523562.22 | 135362.74 | 6.00 | 36.00 | 0.00 | 0.00 | 0.40 | 100% | | | |

# Horizontal Illuminance (lux)

Grid 1




## Results

| | |
|---|---|
| Eav | 3.19 |
| Emin | 0.99 |
| Emax | 6.97 |
| Emin/Emax | 0.14 |
| Emin/Eav | 0.31 |
| | |

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