

PHOTOMETRIC MEASUREMENT REPORT N° SN01609303

Photometric measurement date: **15/02/2017**

Company: **LED ITALY SRL**

Operator: **/Administrator**

Type of photometric measurement: **C - Gamma**

The measurements have been performed in the following laboratory ambient conditions:

Temperature: **25°**

Relative humidity: **45%**

Air turbulence:

Stabilization time before measurement: **10 MINUTI**

Regulations applied:

Electro Magnetic Compatibility (EMC): **Shielded instrument**

Luminaire name: **LI245-18W24**

Eulumdat reference: **LI245-18W24**

Size of luminaire (mm): **1000 x 2 x 10**

Size of luminous area (mm): **1000 x 10**

Number n of standard sets of lamps (optional): **1**

Number of lamps: **1**

Type of light source: **STRIP LED WARM WHITE SMD LED LEXTAR 3014**

Total luminous flux of the light source (lm): **1064**

Output luminous flux of the lamp (lm): **1064.2**

Colour temperature (K): **2962**

Colour rendering index: **85**

Supply current (mA): **0**

Source power (W): **18**

Power consumption included source power (W): **18**

LED module efficacy (lm/W): **59.11**

System light efficacy (lm/W): **59.11**

Luminaire light efficacy (lm/W): **59.12**

Light Output Ratio of luminaire (LOR): **97.5**

Downward Flux Fraction (DFF): **100**

Upward Flux Fraction (UFF): **0.00**

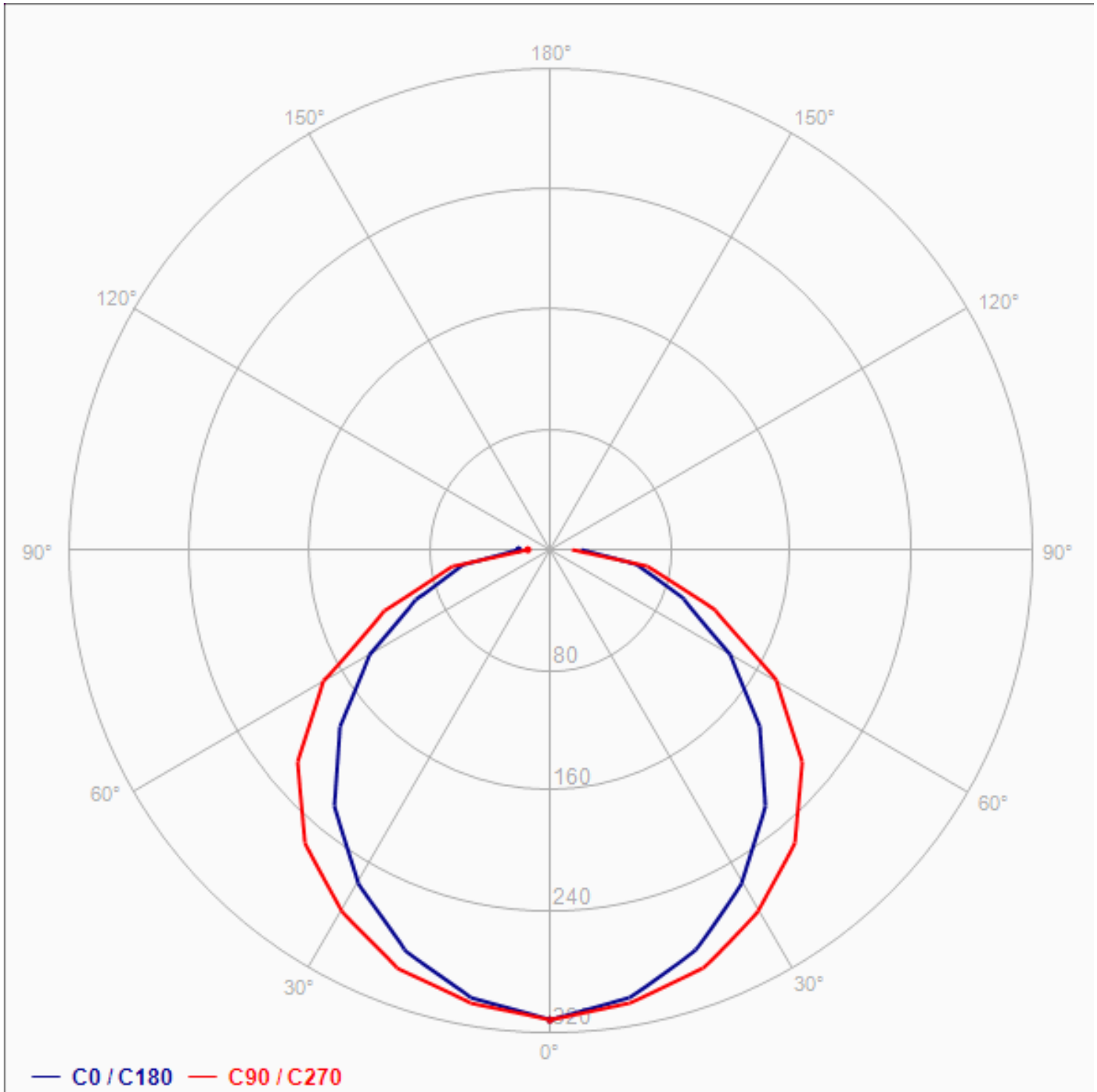
Tilt during measurement (for street luminaires): **0**

PHOTOMETRIC MEASUREMENT REPORT N° SN01609303

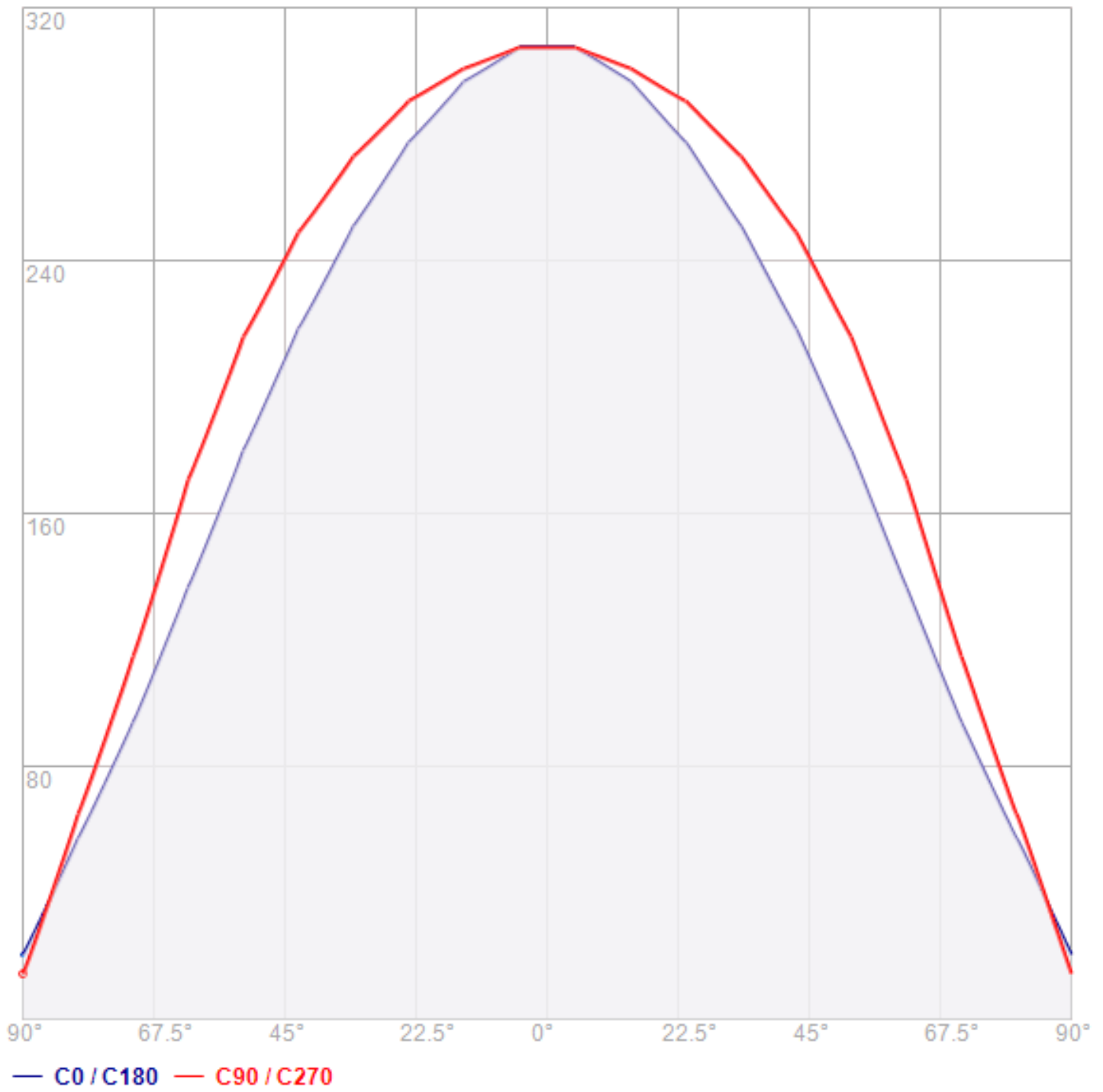
Luminous intensities

| Gamma | C0° | C10° | C20° | C30° | C40° | C50° | C60° | C70° | C80° | C90° | C100° | C110° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 |
| 10° | 301.82 | 301.6 | 301.68 | 302.39 | 303.09 | 303.75 | 304.68 | 305.29 | 306.04 | 306.36 | 306.04 | 305.29 |
| 20° | 282.35 | 282.26 | 282.89 | 284.49 | 286.42 | 288.59 | 290.94 | 293 | 294.6 | 295.52 | 294.6 | 293 |
| 30° | 255.52 | 255.49 | 256.66 | 259.2 | 262.52 | 266.18 | 270.07 | 273.58 | 276.29 | 277.79 | 276.29 | 273.58 |
| 40° | 222.55 | 222.5 | 224.05 | 227.26 | 231.6 | 236.67 | 242.28 | 247.29 | 251.31 | 253.49 | 251.31 | 247.29 |
| 50° | 183.03 | 183.27 | 185.05 | 188.49 | 193.38 | 198.99 | 205.77 | 212 | 216.98 | 219.66 | 216.98 | 212 |
| 60° | 138.99 | 139.21 | 140.9 | 143.97 | 148.31 | 153.79 | 160.09 | 166.1 | 171.06 | 173.97 | 171.06 | 166.1 |
| 70° | 95.48 | 95.44 | 96.3 | 97.97 | 100.38 | 103.61 | 107.51 | 111.23 | 114.44 | 116.87 | 114.44 | 111.23 |
| 80° | 58.11 | 57.94 | 58.03 | 58.23 | 58.47 | 58.97 | 59.59 | 60.26 | 60.88 | 65.87 | 60.88 | 60.26 |
| 90° | 20.73 | 20.43 | 19.75 | 18.49 | 16.56 | 14.32 | 11.66 | 9.29 | 7.31 | 14.87 | 7.31 | 9.29 |
| Gamma | C120° | C130° | C140° | C150° | C160° | C170° | C180° | C190° | C200° | C210° | C220° | C230° |
| 0° | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 |
| 10° | 304.68 | 303.75 | 303.09 | 302.39 | 301.68 | 301.6 | 301.82 | 301.6 | 301.68 | 302.39 | 303.09 | 303.75 |
| 20° | 290.94 | 288.59 | 286.42 | 284.49 | 282.89 | 282.26 | 282.35 | 282.26 | 282.89 | 284.49 | 286.42 | 288.59 |
| 30° | 270.07 | 266.18 | 262.52 | 259.2 | 256.66 | 255.49 | 255.52 | 255.49 | 256.66 | 259.2 | 262.52 | 266.18 |
| 40° | 242.28 | 236.67 | 231.6 | 227.26 | 224.05 | 222.5 | 222.55 | 222.5 | 224.05 | 227.26 | 231.6 | 236.67 |
| 50° | 205.77 | 198.99 | 193.38 | 188.49 | 185.05 | 183.27 | 183.03 | 183.27 | 185.05 | 188.49 | 193.38 | 198.99 |
| 60° | 160.09 | 153.79 | 148.31 | 143.97 | 140.9 | 139.21 | 138.99 | 139.21 | 140.9 | 143.97 | 148.31 | 153.79 |
| 70° | 107.51 | 103.61 | 100.38 | 97.97 | 96.3 | 95.44 | 95.48 | 95.44 | 96.3 | 97.97 | 100.38 | 103.61 |
| 80° | 59.59 | 58.97 | 58.47 | 58.23 | 58.03 | 57.94 | 58.11 | 57.94 | 58.03 | 58.23 | 58.47 | 58.97 |
| 90° | 11.66 | 14.32 | 16.56 | 18.49 | 19.75 | 20.43 | 20.73 | 20.43 | 19.75 | 18.49 | 16.56 | 14.32 |
| Gamma | C240° | C250° | C260° | C270° | C280° | C290° | C300° | C310° | C320° | C330° | C340° | C350° |
| 0° | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 | 312.74 |
| 10° | 304.68 | 305.29 | 306.04 | 306.36 | 306.04 | 305.29 | 304.68 | 303.75 | 303.09 | 302.39 | 301.68 | 301.6 |
| 20° | 290.94 | 293 | 294.6 | 295.52 | 294.6 | 293 | 290.94 | 288.59 | 286.42 | 284.49 | 282.89 | 282.26 |
| 30° | 270.07 | 273.58 | 276.29 | 277.79 | 276.29 | 273.58 | 270.07 | 266.18 | 262.52 | 259.2 | 256.66 | 255.49 |
| 40° | 242.28 | 247.29 | 251.31 | 253.49 | 251.31 | 247.29 | 242.28 | 236.67 | 231.6 | 227.26 | 224.05 | 222.5 |
| 50° | 205.77 | 212 | 216.98 | 219.66 | 216.98 | 212 | 205.77 | 198.99 | 193.38 | 188.49 | 185.05 | 183.27 |
| 60° | 160.09 | 166.1 | 171.06 | 173.97 | 171.06 | 166.1 | 160.09 | 153.79 | 148.31 | 143.97 | 140.9 | 139.21 |
| 70° | 107.51 | 111.23 | 114.44 | 116.87 | 114.44 | 111.23 | 107.51 | 103.61 | 100.38 | 97.97 | 96.3 | 95.44 |
| 80° | 59.59 | 60.26 | 60.88 | 65.87 | 60.88 | 60.26 | 59.59 | 58.97 | 58.47 | 58.23 | 58.03 | 57.94 |
| 90° | 11.66 | 9.29 | 7.31 | 14.87 | 7.31 | 9.29 | 11.66 | 14.32 | 16.56 | 18.49 | 19.75 | 20.43 |

Photometric Polar Diagram



Photometric Cartesian Diagram



Light Emission Photo



Opening angle

