

# Globo S Comfort



ENEC



CB Certificate



NOM



AENOR



ISSOP



CE



UKCA



Community Member

Zhaga Consortium

# Globo S Comfort

High-Impact Tropicalized Transparent Thermo-Polymer T5



Lighting performance superior to glass, and 200 times more resistant.

Chemical polishing for maximum transparency and transmittance.

Exceeds impact tests above 50 joules – more than twice the standard set by IK EN 62262–

## Reinforced Engineering Technical Polymer S7



Immune to corrosion and degradation caused by atmospheric agents.

Withstands tropical storms, constant humidity, electrocution, salt exposure, and even fire.

The material has been subjected to 3000 hours of UV radiation without showing any color alteration.

# Globo S Comfort



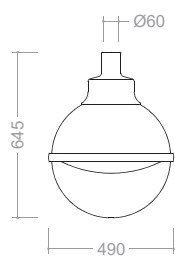
## Technical characteristics

|                                   |                      |
|-----------------------------------|----------------------|
| Maximum recommended height        | 12 m                 |
| Weight                            | 5.9 kg               |
| Wind surface                      | 2500 cm <sup>2</sup> |
| Coupling                          | 60 mm                |
| Insulation class                  | Class II             |
| Full warranty                     | 10 years             |
| IK protection rating              | IK10                 |
| IP protection rating              | IP66+IPX9            |
| Laminar Heatsink®                 | Yes                  |
| Photocell option                  | Yes                  |
| Zhaga / Nema compatible connector | Yes                  |
| Diffuser type                     | Comfort Diffuser®    |

## Standard colors (\*)



## Dimensions



## Optics (\*\*)

|                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| A4<br><br>FHS: 1.38% | A5<br><br>FHS: 1.22% | A7<br><br>FHS: 2.07% | A9<br><br>FHS: 1.59% |
| A12<br><br>FHS: N/D  | S2<br><br>FHS: 1.74% | A11<br><br>FHS: N/D  | A10<br><br>FHS: N/D  |
| A30<br><br>FHS: N/D  |                      |                      |                      |

## Power configurations

|       |       |        |
|-------|-------|--------|
| LED15 | LED25 | LED35  |
| LED55 | LED75 | LED100 |

## Color temperature / CRI

|                 |                   |
|-----------------|-------------------|
| 1800 K / IRC 70 | 2200 K / IRC 70   |
| 2700 K / IRC 70 | 3000 K / IRC 70   |
| 4000 K / IRC 70 | PC AMBAR / IRC 58 |

\* OTHER COLORS AVAILABLE ON REQUEST  
 \*\* OTHER OPTIONS AVAILABLE ON REQUEST

# Globo S Comfort



## Certificates and Approvals

| Technical                   | Values   |
|-----------------------------|--|
| Manufacturing materials     | Non-conductive and stainless housing materials, resistant to 3,000 hours in a UV chamber (according to UNE 53104) without showing any color alteration. Tropicalized transparent high-impact T5 polymer diffuser, UV-stabilized. Confort® Diffuser specially designed to prevent LED glare issues. |
| Dimensions                  | 495 x 495 x 640  |
| Isolation class             | Electrical insulation level of the luminaire: Class II according to UNE-EN 60598 standard.   |
| Upward flux fraction (UFF)  | 2.07%  |
| Lifetime                    | Luminaire lifespan of 100,000 hours when operating at an average ambient temperature of 25°C.  |
| Operating temperature range | Operating temperature range from -30 to +35°C.   |
| IP degree                   | Protection rating of the entire enclosure, including the optical assembly, IP66 + IPX9 (15°C) according to UNE-EN 60598 standard.  |
| IK degree                   | IK10 rating across the entire luminaire, resistant to 20-joule impacts according to UNE-EN 62262 standard.   |
| Light source                | Light source with high-power LEDs.   |
| Available optics            | A4, A5, A7, A9, A12, S2, A11, A10, A30   |
| CCT and CRI                 | 1800 K IRC>70, 2200 K IRC>70, 2700 K IRC>70, 3000 K IRC>70, 4000 K IRC>70, PC AMBAR IRC>58   |
| Certifications              | CE, UKCA, NOM, N, IECEE, ENEC, ISSOP, Zhaga, NEMA  |

|  |  |  |  |
|--|--|--|--|
|  | European Conformity Mark.  |  | NOM: Official Mexican Standards.   |
|  | N: Spanish Association for Standardization and Certification.      |  | IECEE CB: IIEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (Conformity assessment of systems for electronic equipment and components). |
|  | ENEC: European Norms Electrical Certification.                     |  | UK Conformity Assessed   |
|  | ISSOP: Seal (Sustainable Innovation without Planned Obsolescence). |  | Zhaga Community Member.  |

# Globo S Comfort



## Technical specifications

Non-conductive and stainless housing materials, resistant to 3,000 hours in a UV chamber (according to UNE 53104) without showing any color alteration. Tropicalized transparent high-impact T5 polymer diffuser, UV-stabilized. Confort® Diffuser specially designed to prevent LED glare issues. One-piece spherical diffuser that provides a complete seal over the LED optics. Tool-free luminaire opening. IK10 rating across the entire luminaire, resistant to 20-joule impacts according to UNE-EN 62262 standard. Protection rating of the entire enclosure, including the optical assembly, IP66 + IPX9 (15°C) according to UNE-EN 60598 standard. Electrical insulation level of the luminaire: Class II according to UNE-EN 60598 standard. Hydrophobic pressure compensation membrane. Seamless polyurethane gasket without degradable adhesive. Minimum diffuser thickness of 2.5 mm or greater in all areas. Connection system using double-insulated (reinforced insulation) cable of 2x0.75 mm<sup>2</sup> or 2x1.5 mm<sup>2</sup> upon request. At the end, an IP68 watertight connector compliant with International Standard IEC 60529, UNE-EN 60598-1, or equivalent ANSI standard. Stainless steel screws. Luminaire external dimensions: 495 x 495 x 640 mm (Length x Width x Height). Minimum luminaire efficiency: 83.9. Upper hemisphere flux (FHS) lower than 2.07%. Photometric information available in American electronic format (IES) or European format (LDT). 100% recyclable luminaire. Standard available color temperatures and CRI: 1800 K IRC>70, 2200 K IRC>70, 2700 K IRC>70, 3000 K IRC>70, 4000 K IRC>70, PC AMBAR IRC>58. Light source with high-power LEDs. Luminaire lifespan of 100,000 hours when operating at an average ambient temperature of 25°C. Operating temperature range from -30 to +35°C. LED module luminous flux maintenance: L90 > 100,000h at 25°C ambient temperature and drive currents of 700mA or lower. Standard available optics: A4, A5, A7, A9, A12, S2, A11,

A10, A30. Nominal input voltage range: 220~240VAC (supports 198~264VAC). Line frequency: 50/60Hz. Power factor: ≥0.98 (@ 230VAC). THD (@ 230VAC) < 8%. LED drive current: constant current. Programmable electronic control gear. Constant current driver capable of storing a profile to autonomously regulate the luminaire's power. This profile can be modified either through external programming via PWM pulses by accessing the column junction box, or from the control panel using network pulses, allowing the behavior of all luminaires connected to the same line to be changed. Surge protection of 6kV/3kA in differential mode (between line and neutral) in accordance with EN 61547-5-7 standard. CE, UKCA, NOM, N, IECCE, ENEC, ISSOP, Zhaga, NEMA Node with a Zhaga/NEMA-based telemanagement system inside the luminaire; it does not alter the product certifications since there is no modification to the luminaire's enclosure, and it provides additional protection for the node. The polymer enclosure does not interfere with radio frequency or Bluetooth communication systems.

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## Photometric data

| Fluxes and power @ 1800 K - IRC 70 (A5) | LED15      | LED25      | LED35      | LED55      | LED75      | LED100     |
|---|------------|------------|------------|------------|------------|------------|
| Total luminous flux at 25°C (Lm)        | 1320 Lm    | 2199 Lm    | 3388 Lm    | 4477 Lm    | 5472 Lm    | 8955 Lm    |
| Luminaire efficacy (Lm/W)               | 79.98 Lm/W | 81.43 Lm/W | 89.15 Lm/W | 84.47 Lm/W | 72.96 Lm/W | 87.79 Lm/W |
| Total luminaire power (W)               | 16.5 W     | 27.0 W     | 38.0 W     | 53.0 W     | 75.0 W     | 102.0 W    |
| Number of LED modules                   | 12 LED     | 12 LED     | 24 LED     | 24 LED     | 24 LED     | 48 LED     |
| LED driving current                     | 400 mA     | 700 mA     | 500 mA     | 700 mA     | 980 mA     | 700 mA     |

| Fluxes and power @ 2200 K - IRC 70 (A5) | LED15      | LED25      | LED35       | LED55      | LED75      | LED100      |
|---|------------|------------|-------------|------------|------------|-------------|
| Total luminous flux at 25°C (Lm)        | 1589 Lm    | 2608 Lm    | 3958 Lm     | 5278 Lm    | 6951 Lm    | 10556 Lm    |
| Luminaire efficacy (Lm/W)               | 96.32 Lm/W | 96.59 Lm/W | 104.17 Lm/W | 99.59 Lm/W | 92.68 Lm/W | 103.49 Lm/W |
| Total luminaire power (W)               | 16.5 W     | 27.0 W     | 38.0 W      | 53.0 W     | 75.0 W     | 102.0 W     |
| Number of LED modules                   | 12 LED     | 12 LED     | 24 LED      | 24 LED     | 24 LED     | 48 LED      |
| LED driving current                     | 400 mA     | 700 mA     | 500 mA      | 700 mA     | 980 mA     | 700 mA      |

| Fluxes and power @ 2700 K - IRC 70 (A5) | LED15       | LED25       | LED35       | LED55       | LED75      | LED100      |
|---|-------------|-------------|-------------|-------------|------------|-------------|
| Total luminous flux at 25°C (Lm)        | 1730 Lm     | 2807 Lm     | 4276 Lm     | 5682 Lm     | 7476 Lm    | 11365 Lm    |
| Luminaire efficacy (Lm/W)               | 104.84 Lm/W | 103.98 Lm/W | 112.52 Lm/W | 107.22 Lm/W | 99.68 Lm/W | 111.42 Lm/W |
| Total luminaire power (W)               | 16.5 W      | 27.0 W      | 38.0 W      | 53.0 W      | 75.0 W     | 102.0 W     |
| Number of LED modules                   | 12 LED      | 12 LED      | 24 LED      | 24 LED      | 24 LED     | 48 LED      |
| LED driving current                     | 400 mA      | 700 mA      | 500 mA      | 700 mA      | 980 mA     | 700 mA      |

| Fluxes and power @ 3000 K - IRC 70 (A5) | LED15       | LED25       | LED35       | LED55       | LED75       | LED100      |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Total luminous flux at 25°C (Lm)        | 1846 Lm     | 3021 Lm     | 4630 Lm     | 6152 Lm     | 8070 Lm     | 12304 Lm    |
| Luminaire efficacy (Lm/W)               | 111.86 Lm/W | 111.91 Lm/W | 121.84 Lm/W | 116.08 Lm/W | 107.60 Lm/W | 120.63 Lm/W |
| Total luminaire power (W)               | 16.5 W      | 27.0 W      | 38.0 W      | 53.0 W      | 75.0 W      | 102.0 W     |
| Number of LED modules                   | 12 LED      | 12 LED      | 24 LED      | 24 LED      | 24 LED      | 48 LED      |
| LED driving current                     | 400 mA      | 700 mA      | 500 mA      | 700 mA      | 980 mA      | 700 mA      |

| Fluxes and power @ 4000 K - IRC 70 (A5) | LED15       | LED25       | LED35       | LED55       | LED75       | LED100      |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Total luminous flux at 25°C (Lm)        | 1875 Lm     | 3059 Lm     | 4658 Lm     | 6227 Lm     | 8154 Lm     | 12455 Lm    |
| Luminaire efficacy (Lm/W)               | 113.61 Lm/W | 113.29 Lm/W | 122.58 Lm/W | 117.50 Lm/W | 108.72 Lm/W | 122.11 Lm/W |
| Total luminaire power (W)               | 16.5 W      | 27.0 W      | 38.0 W      | 53.0 W      | 75.0 W      | 102.0 W     |
| Number of LED modules                   | 12 LED      | 12 LED      | 24 LED      | 24 LED      | 24 LED      | 48 LED      |
| LED driving current                     | 400 mA      | 700 mA      | 500 mA      | 700 mA      | 980 mA      | 700 mA      |

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## Photometric data

| Fluxes and power @ PC AMBAR - IRC 58 (A5) | LED15      | LED25      | LED35      | LED55      | LED75      | LED100     |
|---|------------|------------|------------|------------|------------|------------|
| Total luminous flux at 25°C (Lm)          | 1202 Lm    | 1948 Lm    | 2931 Lm    | 3967 Lm    | 5082 Lm    | 7933 Lm    |
| Luminaire efficacy (Lm/W)                 | 72.87 Lm/W | 72.15 Lm/W | 77.14 Lm/W | 74.84 Lm/W | 67.76 Lm/W | 77.78 Lm/W |
| Total luminaire power (W)                 | 16.5 W     | 27.0 W     | 38.0 W     | 53.0 W     | 75.0 W     | 102.0 W    |
| Number of LED modules                     | 12 LED     | 12 LED     | 24 LED     | 24 LED     | 24 LED     | 48 LED     |
| LED driving current                       | 400 mA     | 700 mA     | 500 mA     | 700 mA     | 980 mA     | 700 mA     |



10-year warranty immune to corrosion street lighting



Quality Management



Environmental Management



Occupational Health and Safety Management

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