­­

**Series 40**

**Technical Product Specifications**



Table of contents

[1. General Specifications 3](#_Toc411408326)

[2. Photometry 3](#_Toc411408327)

[3. Mechanics 4](#_Toc411408328)

[4. Electrical Characteristics 4](#_Toc411408329)

[5. Power Supply 5](#_Toc411408330)

[6. Environment 6](#_Toc411408331)

1. General Specifications

|  |  |
| --- | --- |
| Product Description | The luminaire base and trim ring is manufactured of a high-pressure die-cast marine grade aluminium (EN 1706 AC-44300). The trim ring casting is mounted onto the base casting by means of stainless steel M5 Allen head screws, located outside the lamp compartment. The base and trim are finished with epoxy powder coating.  A clear prismatic or opal non-discolouring high impact acrylic injection moulded diffuser is used throughout the range. It shall offer excellent vandal resistance, be highly translucent and shall not discolour even when subjected to the harshest UV environments. A silicon sponge gasket shall be fitted into a special groove in the diffuser to prevent damage to the gasket during installation and to achieve the certified ingress protection rating of IP 65. It shall be designed to operate LEDs of 1095lm (8W). The luminaire shall be supplied with a 300mm supply lead. |
| Main applications | * Commercial Developments * Retail Areas * Shopping malls * Public buildings |

1. Photometry

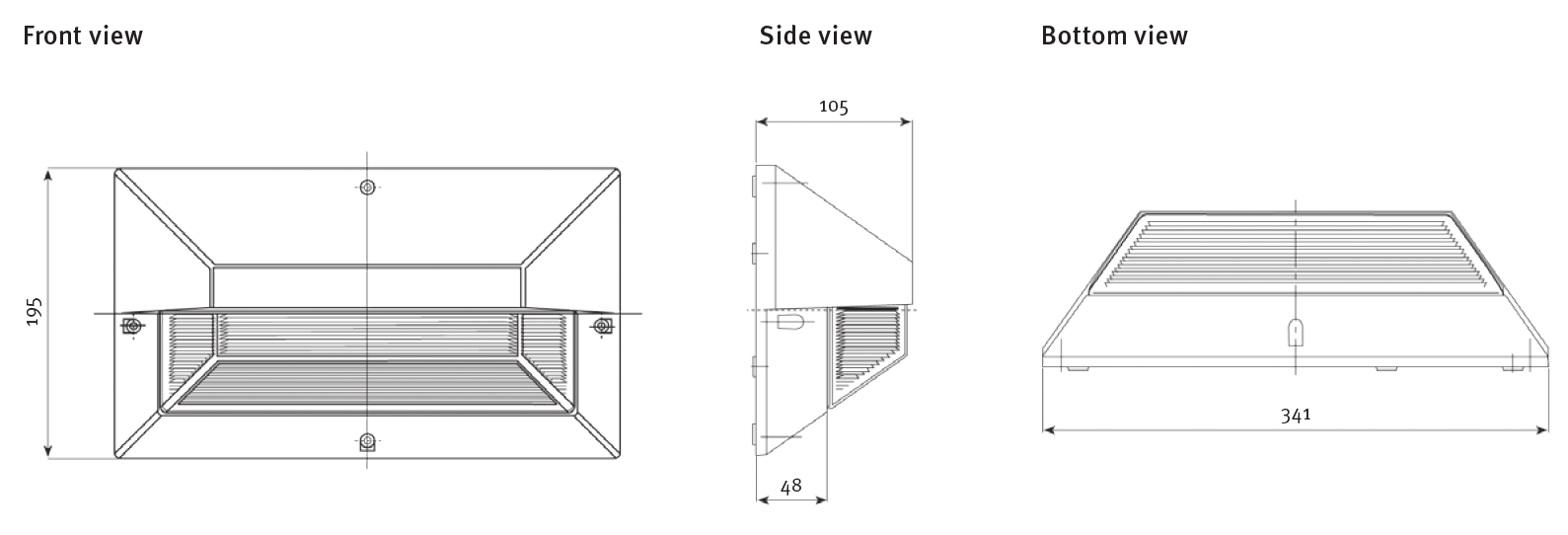
|  |  |
| --- | --- |
| Light source | Light Emitting Diode |
| LED | LED Module |
| Colour temperature | LED: Neutral White (4000K)  Optional : Warm White (3000K) |
| Colour rendering (Ra) | ≥80 |
| LED | Up to 1095lm  \* see table below |
| Optics | Asymmetrical |
| Photometry: |  |

|  |  |  |
| --- | --- | --- |
| **Light Source** | **Line Current (A)** | **LUMEN** |
| LED 8W | 0.03 | 1095\* |

(\*) The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology

1. Mechanics

|  |  |
| --- | --- |
| Materials and finishing | Base – High-pressure die-cast marine grade …. aluminium (EN 1706 AC-44300)  Diffuser – High impact Acrylic (IK08) |
| Finish | Black - RAL9017 textured finish (Standard)  White - RAL9003 textured finish  Optional : other RAL colours available on request |
| Diffuser | Opal non-discolouring high impact acrylic injection molded diffuser. |
| Fixing | 4 x Raised mounting holes ø6 mm  (outside lamp compartment) |
| Dimensions (L\*W\*H) | 341mm \* 195mm \* 105mm |
| Weight (with gear) | Up to 2.5kg |
| Access | Yes |
| Optional | The fixing holes can be supplied with stainless steel helicoils inserts to avoid ‘galvanic’ or ‘dissimilar’ metal corrosion. |



1. Electrical Characteristics

|  |  |
| --- | --- |
| Line Voltage | 230VAC |
| Mains voltage Tolerance (AC) | 198 - 264V |
| LED: | Constant Current Driver |
| Line frequency | 50Hz |
| Electrical Safety Class (IEC) | Class I or II |
| Surge protection | Yes - 10kV/10kA |

1. Power Supply

|  |  |
| --- | --- |
| Power Factor | ≥ 0.95 |
| Removable | Yes |
| Thermal Safety | Yes |

1. Environment

|  |  |
| --- | --- |
| Storage temperature | - 400C to +600C |
| Operating temperature (Ta) | - 200C to + 350C |
| Enclosure Tightness | IP 65 |
| Enclosure Mechanical Withstand Impact | IK 08 |

* \* Certified Test Standard SANS IEC 60598 -2-1 (available on request)

|  |  |  |
| --- | --- | --- |
| Updated by | Approved by | Document Revision / Date |
| Nadja Smith | Pieter van Aardt | 03/12/2019 |

1. For specific Tq, Ta and lifetime data, contact BEKA Schréder