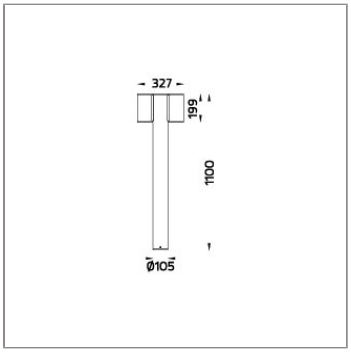
# TUBE

## MINI TUBE - DS

BOLLARD

LAST UPDATE: 08-09-2025

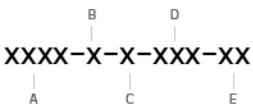
TUBE a family of cylindrical shaped wall light, ceiling light and Area light. The body components are made from extruded and LM6 aluminium which make them highly corrosion resistant to any extreme environment. TUBE is protected from the ingress of dust and water and are used in both outdoor and indoor environments. Fitted with COB LED in three color temperature from 2700K, 3000K or 4000K with high CRI. HID light source and retrofit solution for E27 Led lamps are also available. TUBE can solve many lighting tasks in modern architectural surrounds and are generally used in illuminating columns and facades. The pole lights give a great level of downward light with symmetric wide beam, asymmetric forward throw or side throw light distributions. Catenary mounting of luminaires is great option for tasteful illumination of outdoor spaces. Flexible arrangement of the luminaire position enables lighting designers to set the light mood to a multitude of use cases. The innovative lever clamping system utilizes a single common tool for a trouble free easy installation. All commonly used catenary wires with a diameter of 4 - 8mm are suitable. Wire slope of up to 20° can be easily compensated. Catenary mount luminaires are equipped with a single prewired cable of 2000mm length. Double prewired cable for looping is available upon request.




## Technical Data

| | |
|---|---|
| Ordering Code : | 7145-B-3-901-XX |
| Lamp : | LED |
| Beam : | 20° |
| CCT : | 3000 K |
| CRI : | CRI >80 |
| SDCM : | SDCM = 3 |
| Lamp Lumen : | 2x1850 lm |
| Luminaire Lumen : | 3200 lm |
| Lamp Wattage : | 2x12 W |
| Luminaire Wattage : | 28 W |
| Efficacy : | 114 lm/W |
| Ambient Temperature : | 50°C |
| Lumen Maintenance | L70B10 >60,000 h |
| Controller : | On-Off |
| Input Voltage : | 220-240Vac 50/60Hz |
| Net Weight : | - kg. |

### Ordering code guide




A Product Code
B Reflector
C Electrical Component
D Lamp
E Color

IK BODY OPTIC Icon definition

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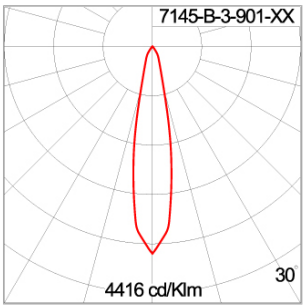
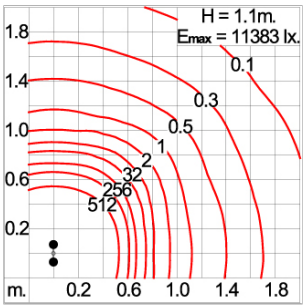
## Specification

| | |
|---|---|
| IEC Standard | IEC 60598-1 General Requirement |
| | IEC 60598-2-1 Fixed Luminaires |
| Protection | IP65 Class I |
| IK Rating | Protection against mechanical impact IK08 on body and IK07 optical part. |
| Luminaires Body Housing | High-pressure die cast aluminum alloy body and components. |
| | Extruded aluminum S6063 alloy body with low copper content. |
| Coating Process | Nano Ceramic surface conversion, resistant to corrosive environment. Luminiare primarily coated with epoxy resin and top coated with UV stabilized polyester powder and cured in digital temperature controlled chamber at 200°C. |
| Diffuser | Impact resistant safety tempered glass cover. Able to withstand the temperature up to 250°C. |
| Reflector | High performance anodized spun aluminum reflector. |
| Gasket | Post-cured treated silicone gasket. Temperature and weather resistant. Working temperature -40°C to +200°C. |
| External Screws | External screws are in stainless steel with protection grease. |
| Cable Entry | Cable entry protected by weather proof grommet. To be used with H05RN-F/ H07RN-F cable with 7-10mm. diameter. |
| Led | High efficiency LED module in COB technology. Assembled on MCPCB and mounted on to heat conductive material. |
| Driver | High quality constant current LED driver. Conform to safety standard and electromagnetic compatibility standard. |
| Internal Wire | Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C. |
| Terminal Block | Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved. |
| | Class1 luminaire provided with the earth connection. |
| Caution | Installation work has to be carried on according to the enclosed installation manual. |
| Color | Black 01<br>Graphite 02<br>Dark Grey 03<br>Aluminum Silver 04<br>White 06 |

## Light Distribution

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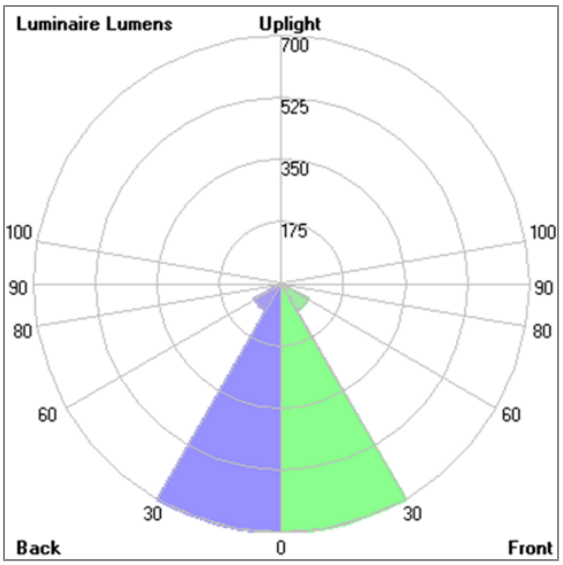
### Bug Report




Lum. Classification System (LCS)

| LCS | Zone | %Lumens | %Lamp | %Lum |
|---|---|---|---|---|
| FL | (0-30) | 699.6 | 37.8 | 44.4 |
| FM | (30-60) | 86.9 | 4.7 | 5.5 |
| FH | (60-80) | 0.8 | 0.0 | 0.0 |
| FVH | (80-90) | < 0.05 | 0.0 | 0.0 |
| BL | (0-30) | 699.6 | 37.8 | 44.4 |
| BM | (30-60) | 86.9 | 4.7 | 5.5 |
| BH | (60-80) | 0.8 | 0.0 | 0.0 |
| BVH | (80-90) | < 0.05 | 0.0 | 0.0 |
| UL | (90-100) | 0.0 | 0.0 | 0.0 |
| UH | (100-180) | 2.1 | 0.1 | 0.1 |
| Total | | 1576.7 | 85.1 | 100.0 |
| **BUG Rating** | | **B2-U1-G0** | | |

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### Accessories

Ordering Code:
AUN-ACB-0014-00
Anchor bolt kit, bollard

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