#### **MINI TUBE**

**CATENARY LIGHT** 

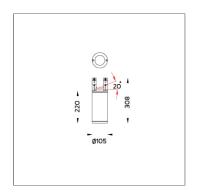


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TUBE a family of cylindrical shaped wall light, ceiling light and Area light. The body components are made from extruded and LM6 aluminium which make them highly corrosion resistant to any extreme environment. TUBE is protected from the ingress of 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.

1901-B-3-904-XX



# Technical Data

Ordering Code:

Efficacy:



Lamp: LED 20° Beam: CCT: 4000 K CRI: CRI >80 SDCM: SDCM = 3Lamp Lumen: 1940 lm Luminaire Lumen : 1670 lm Lamp Wattage: 12 W Luminaire Wattage: 14 W

Ambient Temperature : 50°C

Lumen Maintenance L70B10 >60,000 h

Controller : On-Off

Input Voltage: 220–240Vac 50/60Hz

119 lm/W

Net Weight : - kg.

Ordering code guide

B D |

XXXX-X-X-XXX-XX

A C E

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



Icon definition

online@unilamp.co.th

www.unilamp.co.th

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#### Specification

IEC Standard IEC 60598-1 General Requirement

IEC 60598-2-1 Fixed Luminaires

Protection IP66 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 HO5RN-F/ HO7RN-F cable with 5-10mm. 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.

Enhanced Protection The luminaire is equipped with a 10kV surge protection device, the function of the protector is indicated by a LED, performance in

compliance with IEC61643-11.

Internal Wire Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C.

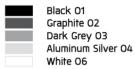
Terminal Block Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved.

Class1 luminaire provided with the earth connection.

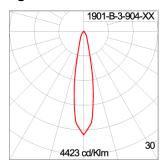
Pre-Wire Cable Pre-wired with 3x1.0 sqmm. HO7RN-F neoprene cable. IMQ approved.

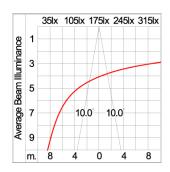
Caution Installation work has to be carried on according to the enclosed installation manual.

Color



### Light Distribution





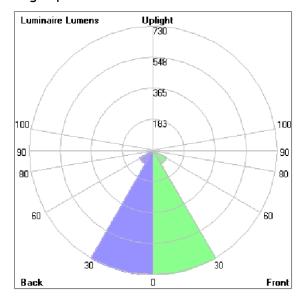
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### **Bug Report**



Lum. Classification System (LCS)				
LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	730.2	37.6	44.4
FM	[30-60]	90.7	4.7	5.5
FH	[60-80]	8.0	0.0	0.0
FVH	[80-90]	< 0.05	0.0	0.0
BL	[0-30]	730.2	37.6	44.4
ВМ	[30-60]	90.7	4.7	5.5
ВН	[60-80]	8.0	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]	2.2	0.1	0.1
Total		1645.6	84.7	100.0
BUG Rating		B2-U1-G0		

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#### Accessories



Ordering Code: AUN-CON-0009-00 IP68 connection device, cable diameter 5-9.5mm, On-Off



Ordering Code:
AUN-CON-0010-00
IP68 connection device 3
pole, cable diameter
5-9.5mm, with distribution
block



Ordering Code: AUN-CON-0013-00 IP68 connection device, cable diameter 7-11.5mm, On-Off