

LED Integrated Mariner - Start



DATA SHEET



Product information

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in both commercial, residential and industrial environments. It is an energy-efficient, low maintenance alternative to traditional fluorescent waterproof fixtures.

Features

- High performance with 6 lumen packages – up to 100 lm/W
- 30 000 hours lifetime (L70B50)
- 2 colour temperatures: 4000 and 6500K with SDCM < 6
- Color rendering index > 80
- Linear luminaire with high protection rating (IP65) and high impact resistance (IK08) make integrated LED mariner the ideal solution in challenging ambient conditions
- Suitable for operation in ambient temperature of -20°C to +40°C
- Integrated through-wiring 3x1mm²
- Easy connection solution on both ends of the fixture to allow single fixture or continuous fixture installations for EU versions
- Samsung LED chip
- Static built-in driver
- Power factor: 0.5 on 2ft and 4ft low lumen package and 0.9 on 4ft high lumen and 5ft
- Supply Voltage: 220-240V 50/60Hz
- High (850°C) Glow wire temperature
- Certificates: CE & CB issued by TÜV
- Insulation Class I
- Cannot be used in corrosive environment

Benefits

- Energy class A+
- Energy savings of up to 50% (compared to luminaires that use fluorescent lamps)
- Uniform light
- Convenient, continuous connection for both sizes of 600mm, 1200mm and 1500mm, simple and easy installation options
- High resistance against ambient air with humidity and high particle loads
- Simple refurbishment solution thanks to use of existing installation points
- Fast and simple installation due to easy connection design

Application areas



Industrial



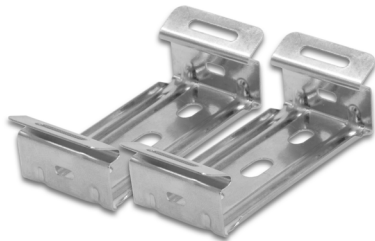
Car park



Retail

Structures and materials

- Impact-resistant, polycarbonate housing and cover
- UV stabilized, flame retardant polycarbonate with improved light transmission and good color stability under heat exposure
- Colour: grey
- Convenient assembly bracket for ceiling mount, also opportunities for wall mounting with metal parts
- Small size profile and lightweight design
- All accessories for fixing are included in the package:



Wall mounting metal is 304 stainless steel
Kits are packed to ensure end users can fix the fixture
Fix to the ceiling: 2pcs wall mount clips plus 4pcs of screws

Electrical connection

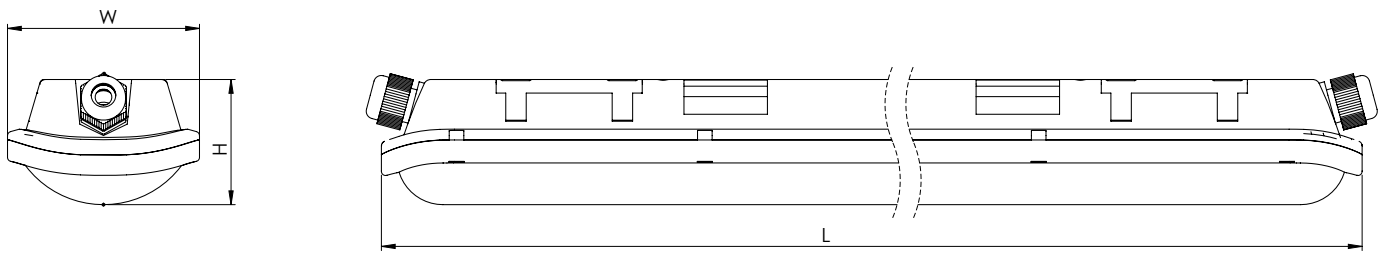
- Cable entry for cables D=6-9mm
- Option for continuous connection up to 10pcs, depends on short circuit breaker

Specification summary

Product code	Product code (Direct Shipment)*	Description	Wattage (W)	Lumen (lm)	Efficiency (lm/W)	CCT (K)	Current (mA)	Power Factor	Weight (kg)	Length (mm)	Replace-ment for LFL
93096947	93096946	LED MARINER ST G1 TU 2' 12W 840 S EU	12	1200	100	4000	90	0.5	0.7	600	1x18W
93096949	93096948	LED MARINER ST G1 TU 2' 12W 865 S EU	12	1200	100	6500	90	0.5	0.7	600	
93096950	93096951	LED MARINER ST G1 TU 2' 24W 840 S EU	24	2400	100	4000	166	0.5	0.8	600	2x18W
93096952	93096953	LED MARINER ST G1 TU 2' 24W 865 S EU	24	2400	100	6500	166	0.5	0.8	600	
93096955	93096954	LED MARINER ST G1 TU 4' 24W 840 S EU	24	2400	100	4000	164	0.5	1.3	1200	1x36W
93096957	93096956	LED MARINER ST G1 TU 4' 24W 865 S EU	24	2400	100	6500	164	0.5	1.3	1200	
93096962	93096958	LED MARINER ST G1 TU 4' 48W 840 S EU	48	4800	100	4000	216	0.9	1.7	1200	2x36W
93096965	93096960	LED MARINER ST G1 TU 4' 48W 865 S EU	48	4800	100	6500	216	0.9	1.7	1200	
93096959	93096963	LED MARINER ST G1 TU 5' 28W 840 S EU	28	2800	100	4000	134	0.9	1.7	1500	1x58W
93096961	93096966	LED MARINER ST G1 TU 5' 28W 865 S EU	28	2800	100	6500	134	0.9	1.7	1500	
93096968	93096969	LED MARINER ST G1 TU 5' 56W 840 S EU	56	5600	100	4000	254	0.9	2.0	1500	2x58W
93096971	93096972	LED MARINER ST G1 TU 5' 56W 865 S EU	56	5600	100	6500	254	0.9	2.0	1500	

* Screw type connector

Dimensions (mm)

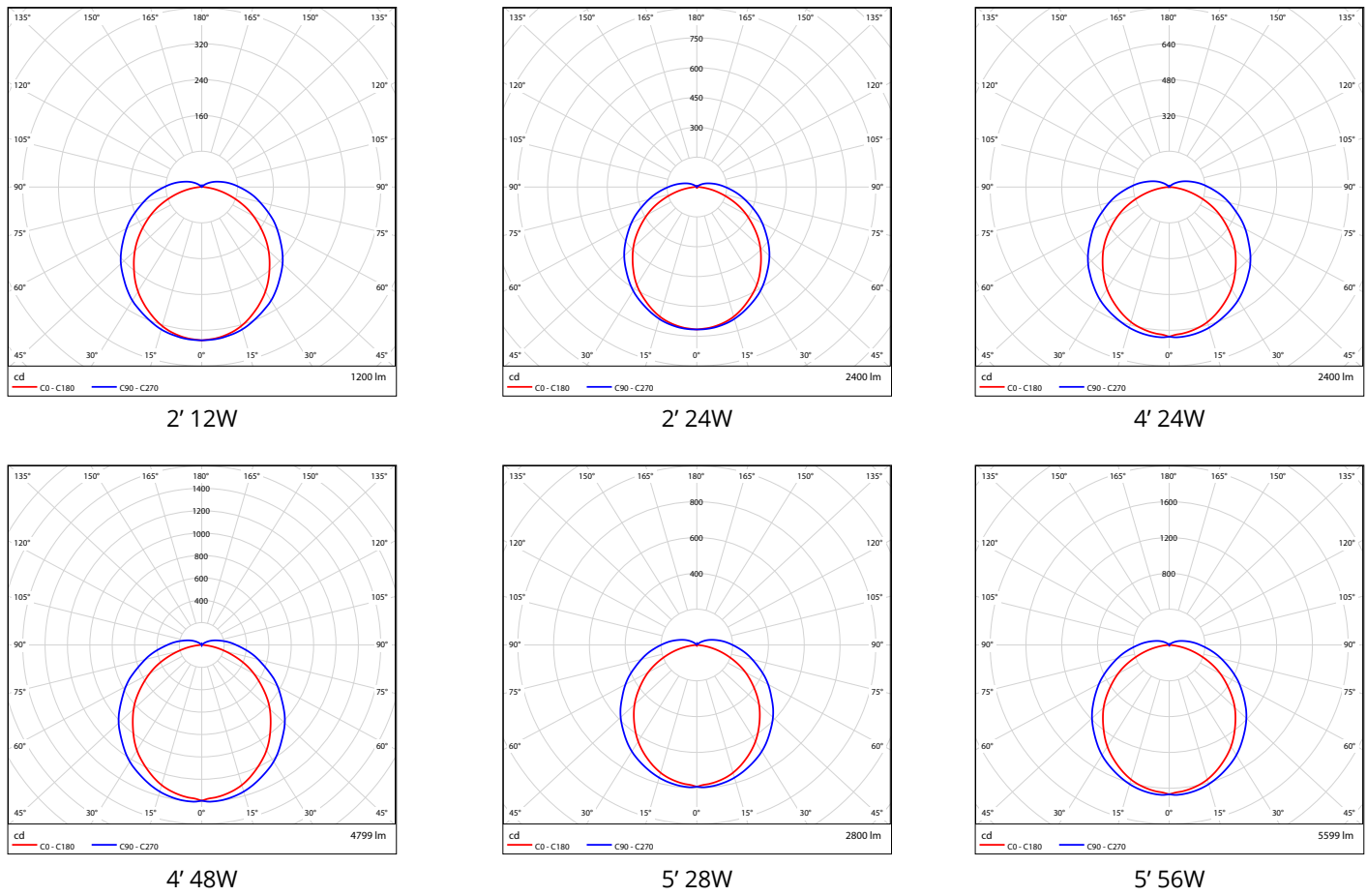


Length	Lumen package	Width (mm)	Length (mm)	Height (mm)
2ft = 600mm	low - 1200lm	72	600	58
2ft = 600mm	high - 2400lm	92	600	60
4ft = 1200mm	low - 2400lm	72	1200	58
4ft = 1200mm	high - 4800lm	92	1200	60
5ft =1500mm	low - 2800lm	72	1500	58
5ft =1500mm	high - 5600lm	92	1500	60

Regulatory and standards

Regulatory mark: CE
Regulations: 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU/1194/2012 and EU/2015/1428, (framework 2010/30/EU) EU/874/2012 and EU/518/2014*, 2012/19/EU*
3rd party performance test report supports compliance to EU/1194/2012
Harmonized standards: EN 60598, EN 62493, EN 61547, EN55015, EN 61000,
look for CE Declaration of Conformity and Technical File for details
Photobiological risk assesment group 0 (exempt). The product is considered safe, does not pose any photobiological hazard.
*not on DOC

Photometric data



Photometry is based on LM79
NVLAP LAB CODES: 200651-0, 200660-0

Order logic

Internal Code	Range	Generation	Brand	Length	Wattage	CRI	CCT	Controller	Shipment
LED Mariner	ST = START	G1 - Generation 1	TU - TUNGSRAM		12W	8 - 80 CRI	40 - 4000K 65 - 6500K	S - Static	DS - Direct Shipment EU -= EU connector
				2' - 2ft	24W				
				4' - 4ft	28W				
				5' - 5ft	48W				
					56W				

Example: LED Mariner ST G1 TU 2' 12W 840 S TRDS

