Catenary Luminaires

ZFS460 LED

IP66, Class I, Class II on request. IK07. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Silicone rubber gasket. UV-resistant polycarbonate main lens (open at the bottom). The luminaire is factory sealed and does not need to be opened during installation. Integral EC converter, thermally separated. Factory installed LED circuit board. Removable LED boards for upgrading. CAD-optimised indirect optics for superior illumination and glare control.

Optional 2200 K version available. To be specified at time of ordering.

36 – 54 W	4084 – 8322 lm	IP66 / IK07
Wattage	Rated lumens	IP / IK

Lighting

Light distribution

[S65] asymmetric, side throw

[R65] rectangular, side throw

[S70] asymmetric, side throw

[S60] asymmetric, side throw

[A60] asymmetric, forward throw

Colour temperature

2700K

3000K

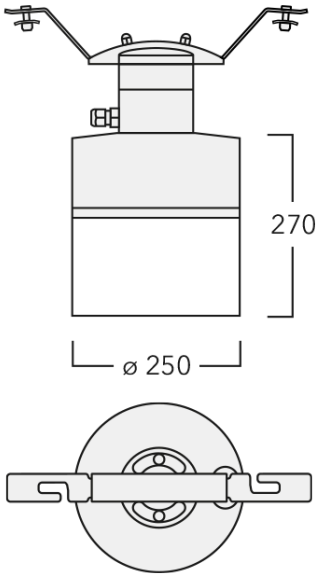
4000K

Wattage

36 W

54 W

Physical description



Height	270 mm
Diameter	250 mm
Weight	9.5 kg
Body	Marine-grade, die-cast aluminium alloy
Lens	Polycarbonate (open at the bottom)
Colours	**RAL9004** Signal black; **RAL9006** White aluminium; **RAL9007** Grey aluminium; **RAL7016** Anthracite grey; **RAL9016** Traffic white
Gasket	Silicone rubber gasket
Fasteners	PCS Polymer Coated Stainless Steel Hardware
Mounting	Includes cable connector, for cable 6-15 mm. Luminaire 45° rotatable
Ingress protection	IP66
Impact resistance	IK07
Corrosion resistance	5CE
Windage	0.090 m^2

Electrical description

Power supply	220-240V / 50-60 Hz
Driver / Ballast	Standard. DALI or 1-10V on request
Cable	One cable gland, second gland for through-wiring with T-cable connector on request
Surge protection	6/6 kV (optional SP10)
Energy efficiency	C-D (Light source)

Additional information

Lifetime	Ta=25° L90B10 > 90000h

Configurations

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI
[A60] asymmetric, forward throw	115-2015	LED-18/36W/2700K	4201.7 lm	41 W	80
	115-2015-70	LED-18/36W/2700K	4512.9 lm	41 W	70
	115-2016	LED-18/36W/3000K	4512.9 lm	41 W	80
	115-2016-70	LED-18/36W/3000K	5135.4 lm	41 W	70
	115-2017	LED-18/36W/4000K	4824.2 lm	41 W	80
	115-2017-70	LED-18/36W/4000K	5446.6 lm	41 W	70
	115-2018	LED-18/54W/2700K	6380.4 lm	59 W	80
	115-2018-70	LED-18/54W/2700K	7314.1 lm	59 W	70
	115-2019	LED-18/54W/3000K	6691.6 lm	59 W	80
	115-2019-70	LED-18/54W/3000K	7625.3 lm	59 W	70
	115-2020	LED-18/54W/4000K	7002.8 lm	59 W	80
	115-2020-70	LED-18/54W/4000K	7936.5 lm	59 W	70
[R65] rectangular, side throw	115-1991	LED-18/36W/2700K	4083.6 lm	41 W	80
	115-1991-70	LED-18/36W/2700K	4386.1 lm	41 W	70
	115-1992	LED-18/36W/3000K	4386.1 lm	41 W	80
	115-1992-70	LED-18/36W/3000K	4991.1 lm	41 W	70
	115-1993	LED-18/36W/4000K	4688.6 lm	41 W	80
	115-1993-70	LED-18/36W/4000K	5293.6 lm	41 W	70
	115-1994	LED-18/54W/2700K	6201.1 lm	59 W	80
	115-1994-70	LED-18/54W/2700K	7108.5 lm	59 W	70
	115-1995	LED-18/54W/3000K	6503.6 lm	59 W	80
	115-1995-70	LED-18/54W/3000K	7411 lm	59 W	70
	115-1996	LED-18/54W/4000K	6806 lm	59 W	80
	115-1996-70	LED-18/54W/4000K	7713.5 lm	59 W	70
[S60] asymmetric, side throw	115-1997	LED-18/36W/2700K	4375 lm	41 W	80
	115-1997-70	LED-18/36W/2700K	4699.1 lm	41 W	70
	115-1998	LED-18/36W/3000K	4699.1 lm	41 W	80
	115-1998-70	LED-18/36W/3000K	5347.2 lm	41 W	70
	115-1999	LED-18/36W/4000K	5023.1 lm	41 W	80
	115-1999-70	LED-18/36W/4000K	5671.3 lm	41 W	70
	115-2000	LED-18/54W/2700K	6643.5 lm	59 W	80
	115-2000-70	LED-18/54W/2700K	7615.7 lm	59 W	70
	115-2001	LED-18/54W/3000K	6967.6 lm	59 W	80
	115-2001-70	LED-18/54W/3000K	7939.8 lm	59 W	70
	115-2002	LED-18/54W/4000K	7291.7 lm	59 W	80

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI
	115-2002-70	LED-18/54W/4000K	8263.9 lm	59 W	70
[S65] asymmetric, side throw	115-2003	LED-18/36W/2700K	4405.6 lm	41 W	80
	115-2003-70	LED-18/36W/2700K	4732 lm	41 W	70
	115-2004	LED-18/36W/3000K	4732 lm	41 W	80
	115-2004-70	LED-18/36W/3000K	5384.7 lm	41 W	70
	115-2005	LED-18/36W/4000K	5058.3 lm	41 W	80
	115-2005-70	LED-18/36W/4000K	5711 lm	41 W	70
	115-2006	LED-18/54W/2700K	6690 lm	59 W	80
	115-2006-70	LED-18/54W/2700K	7669.1 lm	59 W	70
	115-2007	LED-18/54W/3000K	7016.4 lm	59 W	80
	115-2007-70	LED-18/54W/3000K	7995.4 lm	59 W	70
	115-2008	LED-18/54W/4000K	7342.7 lm	59 W	80
	115-2008-70	LED-18/54W/4000K	8321.7 lm	59 W	70
[S70] asymmetric, side throw	115-2009	LED-18/36W/2700K	4308.1 lm	41 W	80
	115-2009-70	LED-18/36W/2700K	4627.2 lm	41 W	70
	115-2010	LED-18/36W/3000K	4627.2 lm	41 W	80
	115-2010-70	LED-18/36W/3000K	5265.5 lm	41 W	70
	115-2011	LED-18/36W/4000K	4946.4 lm	41 W	80
	115-2011-70	LED-18/36W/4000K	5584.6 lm	41 W	70
	115-2012	LED-18/54W/2700K	6542 lm	59 W	80
	115-2012-70	LED-18/54W/2700K	7499.3 lm	59 W	70
	115-2013	LED-18/54W/3000K	6861.1 lm	59 W	80
	115-2013-70	LED-18/54W/3000K	7818.4 lm	59 W	70
	115-2014	LED-18/54W/4000K	7180.2 lm	59 W	80
	115-2014-70	LED-18/54W/4000K	8137.6 lm	59 W	70

Catenary Luminaires

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Subject to technical changes and errors.