




**Description**

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.

Specifications**Material description**

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
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
Power factor	> 0.9
Surge protection	6/6 kV (optional SP10)

Additional information






Lifetime	Ta=25° L90B10 > 90000h
Energy efficiency class	C-D (Light source)

ZFS460 LED

Catenary luminaires

Options

Light distribution

-  asymmetric, side throw beam [S65]
-  rectangular, side throw [R65]
-  asymmetric, side throw beam [S70]
-  asymmetric, side throw beam [S60]
-  asymmetric, forward throw [A60]

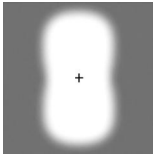
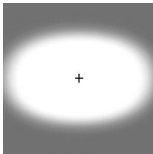
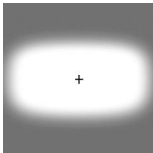
Colour temperature

-  2700 K
-  3000 K
-  4000 K

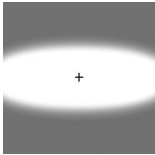

Nominal Watt

0 W

Configurations

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)
asymmetric, forward throw [A60] 	115-2015	LED-18/36W / 700 mA - 2700 K	4201.7	41 W	80	9.50
	115-2015-70	LED-18/36W / 700 mA - 2700 K	4512.9	41 W	70	9.50
	115-2016	LED-18/36W / 700 mA - 3000 K	4512.9	41 W	80	9.50
	115-2016-70	LED-18/36W / 700 mA - 3000 K	5135.4	41 W	70	9.50
	115-2017	LED-18/36W / 700 mA - 4000 K	4824.2	41 W	80	9.50
	115-2017-70	LED-18/36W / 700 mA - 4000 K	5446.6	41 W	70	9.50
	115-2018	LED-18/54W / 1050 mA - 2700 K	6380.4	59 W	80	9.50
	115-2018-70	LED-18/54W / 1050 mA - 2700 K	7314.1	59 W	70	9.50
	115-2019	LED-18/54W / 1050 mA - 3000 K	6691.6	59 W	80	9.50
	115-2019-70	LED-18/54W / 1050 mA - 3000 K	7625.3	59 W	70	9.50
	115-2020	LED-18/54W / 1050 mA - 4000 K	7002.8	59 W	80	9.50
	115-2020-70	LED-18/54W / 1050 mA - 4000 K	7936.5	59 W	70	9.50
	asymmetric, side throw beam [S60] 	115-1997	LED-18/36W / 700 mA - 2700 K	4375	41 W	80
115-1997-70		LED-18/36W / 700 mA - 2700 K	4699.1	41 W	70	9.50
115-1998		LED-18/36W / 700 mA - 3000 K	4699.1	41 W	80	9.50
115-1998-70		LED-18/36W / 700 mA - 3000 K	5347.2	41 W	70	9.50
115-1999		LED-18/36W / 700 mA - 4000 K	5023.1	41 W	80	9.50
115-1999-70		LED-18/36W / 700 mA - 4000 K	5671.3	41 W	70	9.50
115-2000		LED-18/54W / 1050 mA - 2700 K	6643.5	59 W	80	9.50
115-2000-70		LED-18/54W / 1050 mA - 2700 K	7615.7	59 W	70	9.50
115-2001		LED-18/54W / 1050 mA - 3000 K	6967.6	59 W	80	9.50
115-2001-70		LED-18/54W / 1050 mA - 3000 K	7939.8	59 W	70	9.50
115-2002		LED-18/54W / 1050 mA - 4000 K	7291.7	59 W	80	9.50
115-2002-70		LED-18/54W / 1050 mA - 4000 K	8263.9	59 W	70	9.50
asymmetric, side throw beam [S65] 		115-2003	LED-18/36W / 700 mA - 2700 K	4405.6	41 W	80
	115-2003-70	LED-18/36W / 700 mA - 2700 K	4732	41 W	70	9.50
	115-2004	LED-18/36W / 700 mA - 3000 K	4732	41 W	80	9.50
	115-2004-70	LED-18/36W / 700 mA - 3000 K	5384.7	41 W	70	9.50
	115-2005	LED-18/36W / 700 mA - 4000 K	5058.3	41 W	80	9.50
	115-2005-70	LED-18/36W / 700 mA - 4000 K	5711	41 W	70	9.50
	115-2006	LED-18/54W / 1050 mA - 2700 K	6690	59 W	80	9.50
	115-2006-70	LED-18/54W / 1050 mA - 2700 K	7669.1	59 W	70	9.50
	115-2007	LED-18/54W / 1050 mA - 3000 K	7016.4	59 W	80	9.50
	115-2007-70	LED-18/54W / 1050 mA - 3000 K	7995.4	59 W	70	9.50
	115-2008	LED-18/54W / 1050 mA - 4000 K	7342.7	59 W	80	8.50

Catenary luminaires

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)
asymmetric, side throw beam [S70] 	115-2008-70	LED-18/54W / 1050 mA - 4000 K	8321.7	59 W	70	8.50
	115-2009	LED-18/36W / 700 mA - 2700 K	4308.1	41 W	80	9.50
	115-2009-70	LED-18/36W / 700 mA - 2700 K	4627.2	41 W	70	9.50
	115-2010	LED-18/36W / 700 mA - 3000 K	4627.2	41 W	80	9.50
	115-2010-70	LED-18/36W / 700 mA - 3000 K	5265.5	41 W	70	9.50
	115-2011	LED-18/36W / 700 mA - 4000 K	4946.4	41 W	80	9.50
	115-2011-70	LED-18/36W / 700 mA - 4000 K	5584.6	41 W	70	9.50
	115-2012	LED-18/54W / 1050 mA - 2700 K	6542	59 W	80	9.50
	115-2012-70	LED-18/54W / 1050 mA - 2700 K	7499.3	59 W	70	9.50
	115-2013	LED-18/54W / 1050 mA - 3000 K	6861.1	59 W	80	9.50
	115-2013-70	LED-18/54W / 1050 mA - 3000 K	7818.4	59 W	70	9.50
	115-2014	LED-18/54W / 1050 mA - 4000 K	7180.2	59 W	80	9.50
	115-2014-70	LED-18/54W / 1050 mA - 4000 K	8137.6	59 W	70	9.50
	rectangular, side throw [R65] 	115-1991	LED-18/36W / 700 mA - 2700 K	4083.6	41 W	80
115-1991-70		LED-18/36W / 700 mA - 2700 K	4386.1	41 W	70	9.50
115-1992		LED-18/36W / 700 mA - 3000 K	4386.1	41 W	80	9.50
115-1992-70		LED-18/36W / 700 mA - 3000 K	4991.1	41 W	70	9.50
115-1993		LED-18/36W / 700 mA - 4000 K	4688.6	41 W	80	9.50
115-1993-70		LED-18/36W / 700 mA - 4000 K	5293.6	41 W	70	9.50
115-1994		LED-18/54W / 1050 mA - 2700 K	6201.1	59 W	80	9.50
115-1994-70		LED-18/54W / 1050 mA - 2700 K	7108.5	59 W	70	9.50
115-1995		LED-18/54W / 1050 mA - 3000 K	6503.6	59 W	80	9.50
115-1995-70		LED-18/54W / 1050 mA - 3000 K	7411	59 W	70	9.50
115-1996		LED-18/54W / 1050 mA - 4000 K	6806	59 W	80	9.50
115-1996-70		LED-18/54W / 1050 mA - 4000 K	7713.5	59 W	70	9.50

ZFS460 LED

Catenary luminaires

Control

Eco Step Dim® Basic

Description	Part ID
Eco Step Dim® Basic LED	430-0001

Eco Step Dim® Advanced

Description	Part ID
Eco Step Dim® Advanced LED	430-0002

R2C Ready to Connect

Description	Part ID
R2C Ready to Connect (top)	430-0019