

### Description

IP66. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Safety glass lens. Silicone CCG® Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation.

Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. One cable entry.

Mains voltage versions, DALI interface Class I. 1-10 V analogue dimming available on request; refer to accessory listings.

Mains voltage versions, DALI interface Class I. 1-10 V analogue dimming available on request; refer to accessory listings.

24VDC low voltage versions, 0-10 V analogue dimming (only 6-9W available) or DALI interface Class III available on request.

Remote 24VDC power supply to be ordered separately.

## Projectors

### Specifications

#### Material description

Body	Marine-grade, die-cast aluminium alloy
Lens	Safety glass lens
Colours	<div style="display: flex; flex-direction: column; gap: 5px;"> <div> RAL9004 Signal black</div> <div> RAL9007 Grey aluminium</div> <div> RAL7016 Anthracite grey</div> <div> RAL9016 Traffic white</div> </div>
Gasket	Silicone CCG® Controlled Compression Gasket
Fasteners	PCS hardware
Ingress protection	IP66
Impact resistance	IK08
Corrosion resistance	5CE
Windage	0.025 m <sup>2</sup>

#### Electrical description

Driver / Ballast	Integral EC electronic converter (mains voltage). Integral ED electronic driver (24VDC low voltage).
Power factor	>0.9

#### Additional information

Lifetime	Ta=25° L90B10 > 90000h
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## Projectors

### Options

#### Light distribution



symmetric, wide beam [B]



symmetric, medium beam [M]



symmetric, very narrow beam [EE]



symmetric, very narrow beam, sharp cut-off [EES]



linear spread, very narrow beam [EE]



linear spread, very narrow beam, sharp cut-off [EES]



wallwash

#### Colour temperature



2700 K



3000 K



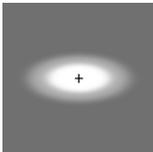
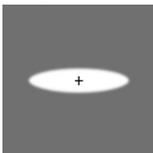
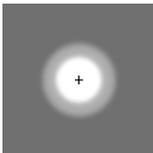
4000 K

#### Nominal Watt

0 W

## Projectors

### Configurations

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)
linear spread, very narrow beam [EE] 	145-7654+145-7781	LED-3/6W / 180 mA - 2700 K	539.2	7.5 W	80	2.20
	145-7655+145-7781	LED-3/9W / 250 mA - 2700 K	756.9	11 W	80	2.20
	145-7656+145-7781	LED-3/12W / 350 mA - 2700 K	1016.1	13.9 W	80	2.20
	145-7657+145-7781	LED-3/6W / 180 mA - 3000 K	539.2	7.5 W	80	2.20
	145-7658+145-7781	LED-3/9W / 250 mA - 3000 K	756.9	11 W	80	2.20
	145-7659+145-7781	LED-3/12W / 350 mA - 3000 K	1016.1	13.9 W	80	2.20
	145-7660+145-7781	LED-3/6W / 180 mA - 4000 K	580.6	7.5 W	80	2.20
	145-7661+145-7781	LED-3/9W / 250 mA - 4000 K	808.7	11 W	80	2.20
	145-7662+145-7781	LED-3/12W / 350 mA - 4000 K	1099.1	13.9 W	80	2.20
linear spread, very narrow beam, sharp cut-off [EES] 	145-7663+145-7781	LED-3/6W / 180 mA - 2700 K	528.4	7.5 W	80	2.20
	145-7664+145-7781	LED-3/9W / 250 mA - 2700 K	748.5	11 W	80	2.20
	145-7665+145-7781	LED-3/12W / 350 mA - 2700 K	1001.7	13.9 W	80	2.20
	145-7666+145-7781	LED-3/6W / 180 mA - 3000 K	528.4	7.5 W	80	2.20
	145-7667+145-7781	LED-3/9W / 250 mA - 3000 K	748.5	11 W	80	2.20
	145-7668+145-7781	LED-3/12W / 350 mA - 3000 K	1001.7	13.9 W	80	2.20
	145-7669+145-7781	LED-3/6W / 180 mA - 4000 K	572.4	7.5 W	80	2.20
	145-7670+145-7781	LED-3/9W / 250 mA - 4000 K	803.6	11 W	80	2.20
	145-7671+145-7781	LED-3/12W / 350 mA - 4000 K	1078.8	13.9 W	80	2.20
symmetric, medium beam [M] 	145-7645	LED-3/6W / 180 mA - 2700 K	600.4	7.5 W	80	2.20
	145-7646	LED-3/9W / 250 mA - 2700 K	842.9	11 W	80	2.20
	145-7647	LED-3/12W / 350 mA - 2700 K	1131.6	13.9 W	80	2.20
	145-7648	LED-3/6W / 180 mA - 3000 K	600.4	7.5 W	80	2.20
	145-7649	LED-3/9W / 250 mA - 3000 K	842.9	11 W	80	2.20
	145-7650	LED-3/12W / 350 mA - 3000 K	1131.6	13.9 W	80	2.20
	145-7651	LED-3/6W / 180 mA - 4000 K	646.6	7.5 W	80	2.20
	145-7652	LED-3/9W / 250 mA - 4000 K	900.6	11 W	80	2.20
	145-7653	LED-3/12W / 350 mA - 4000 K	1224	13.9 W	80	2.20
	145-7805+0033	LED-3/6W / 700 mA - 2700 K	622.9	7.5 W	80	2.20
	145-7806+0033	LED-3/6W / 700 mA - 3000 K	669	7.5 W	80	2.20
	145-7807+0033	LED-3/6W / 700 mA - 4000 K	715.2	7.5 W	80	2.20
	symmetric, very narrow beam [EE]	145-7654	LED-3/6W / 180 mA - 2700 K	605.2	7.5 W	80
145-7655		LED-3/9W / 250 mA - 2700 K	849.6	11 W	80	2.20
145-7656		LED-3/12W / 350 mA - 2700 K	1140.5	13.9 W	80	2.20
145-7657		LED-3/6W / 180 mA - 3000 K	605.2	7.5 W	80	2.20

## Projectors

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)	
	145-7658	LED-3/9W / 250 mA - 3000 K	849.6	11 W	80	2.20	
	145-7659	LED-3/12W / 350 mA - 3000 K	1140.5	13.9 W	80	2.20	
	145-7660	LED-3/6W / 180 mA - 4000 K	651.7	7.5 W	80	2.20	
	145-7661	LED-3/9W / 250 mA - 4000 K	907.8	11 W	80	2.20	
	145-7662	LED-3/12W / 350 mA - 4000 K	1233.6	13.9 W	80	2.20	
	145-7808+0033	LED-3/6W / 700 mA - 2700 K	627.8	7.5 W	80	2.20	
	145-7809+0033	LED-3/6W / 700 mA - 3000 K	674.2	7.5 W	80	2.20	
	145-7810+0033	LED-3/6W / 700 mA - 4000 K	720.8	7.5 W	80	2.20	
symmetric, very narrow beam, sharp cut-off [EES]	145-7663	LED-3/6W / 180 mA - 2700 K	606.3	7.5 W	80	2.20	
	145-7664	LED-3/9W / 250 mA - 2700 K	858.9	11 W	80	2.20	
	145-7665	LED-3/12W / 350 mA - 2700 K	1149.4	13.9 W	80	2.20	
	145-7666	LED-3/6W / 180 mA - 3000 K	606.3	7.5 W	80	2.20	
	145-7667	LED-3/9W / 250 mA - 3000 K	858.9	11 W	80	2.20	
	145-7668	LED-3/12W / 350 mA - 3000 K	1149.4	13.9 W	80	2.20	
	145-7669	LED-3/6W / 180 mA - 4000 K	656.8	7.5 W	80	2.20	
	145-7670	LED-3/9W / 250 mA - 4000 K	922	11 W	80	2.20	
	145-7671	LED-3/12W / 350 mA - 4000 K	1237.8	13.9 W	80	2.20	
	145-7811+0033	LED-3/6W / 700 mA - 2700 K	682	7.5 W	80	2.20	
	145-7812+0033	LED-3/6W / 700 mA - 3000 K	732.5	7.5 W	80	2.20	
	145-7813+0033	LED-3/6W / 700 mA - 4000 K	783.1	7.5 W	80	2.20	
	symmetric, wide beam [B]	145-7636	LED-3/6W / 180 mA - 2700 K	595.4	7.5 W	80	2.20
145-7637		LED-3/9W / 250 mA - 2700 K	835.8	11 W	80	2.20	
145-7638		LED-3/12W / 350 mA - 2700 K	1122.1	13.9 W	80	2.20	
145-7639		LED-3/6W / 180 mA - 3000 K	595.4	7.5 W	80	2.20	
145-7640		LED-3/9W / 250 mA - 3000 K	835.8	11 W	80	2.20	
145-7641		LED-3/12W / 350 mA - 3000 K	1122.1	13.9 W	80	2.20	
145-7642		LED-3/6W / 180 mA - 4000 K	641.2	7.5 W	80	2.20	
145-7643		LED-3/9W / 250 mA - 4000 K	893.1	11 W	80	2.20	
145-7644		LED-3/12W / 350 mA - 4000 K	1213.7	13.9 W	80	2.20	
145-7802+0033		LED-3/6W / 700 mA - 2700 K	618	7.5 W	80	2.20	
145-7803+0033		LED-3/6W / 700 mA - 3000 K	663.8	7.5 W	80	2.20	
145-7804+0033		LED-3/6W / 700 mA - 4000 K	709.6	7.5 W	80	2.20	
wallwash		145-7645+145-7782	LED-3/6W / 180 mA - 2700 K	408.7	7.5 W	80	2.20
		145-7646+145-7782	LED-3/9W / 250 mA - 2700 K	573.7	11 W	80	2.20
		145-7647+145-7782	LED-3/12W / 350 mA - 2700 K	770.2	13.9 W	80	2.20
	145-7648+145-7782	LED-3/6W / 180 mA - 3000 K	408.7	7.5 W	80	2.20	

## Projectors

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)
	145-7649+145-7782	LED-3/9W / 250 mA - 3000 K	573.7	11 W	80	2.20
	145-7650+145-7782	LED-3/12W / 350 mA - 3000 K	770.2	13.9 W	80	2.20
	145-7651+145-7782	LED-3/6W / 180 mA - 4000 K	440.1	7.5 W	80	2.20
	145-7652+145-7782	LED-3/9W / 250 mA - 4000 K	613	11 W	80	2.20
	145-7653+145-7782	LED-3/12W / 350 mA - 4000 K	833.1	13.9 W	80	2.20

**Control****1-10 V analogue dimming interface**

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Description	Part ID	C
1-10 V analogue dimming interface	430-0011	90

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**DALI interface**

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Description	Part ID
Low voltage DALI interface	0026

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**0-10 V, 24VDC low voltage version**

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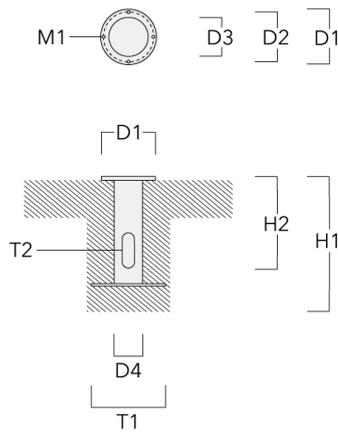
Description	Part ID
24VDC low voltage version, 0-10 V	0033

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**Mounting Accessories**

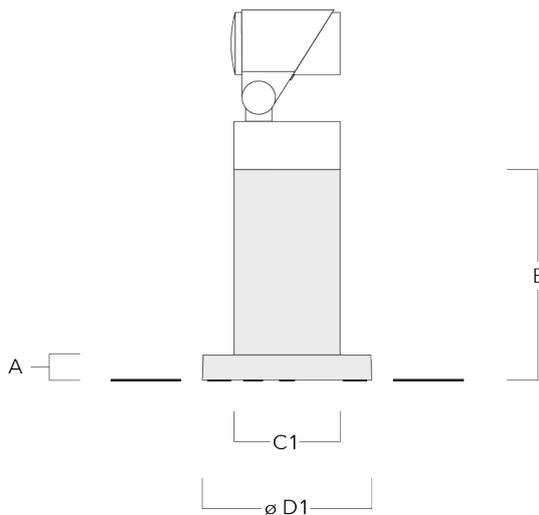
**Planted root**

Description	Part ID	D1	D2	D3	D4	H1	H2	M1	T1	T2	Weight (kg)
Planted root ESV4	300-0461-AP	150	130	60	89	400	350	8	200	50 x 100	3.85



**Short post**

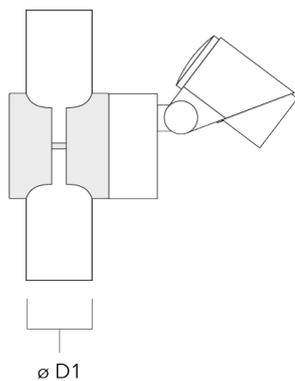
Description	Part ID	A	B	C1	D1	Weight (kg)
Short post EM1 for FLC311/321	146-7169	26	200	120	160	1.80



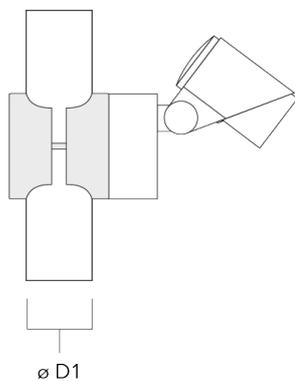
**Projectors**

**Pole clamp SP - Tiltable**

Description	Part ID	D1	Weight (kg)
Pole clamp SP1-M5, single (Ø 38-60)	146-7201	38-60	1.20

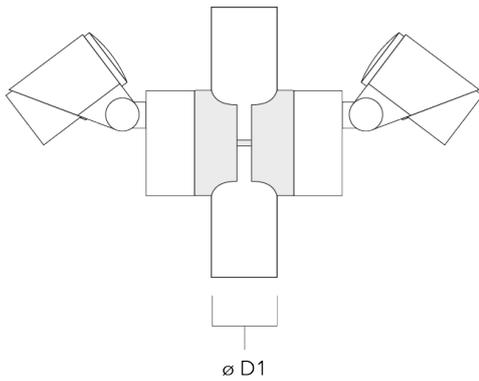


Pole clamp SP1-M5, single (Ø 76-89)	146-7202	76-89	1.10
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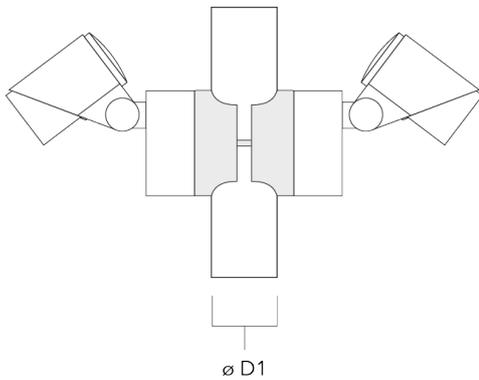


**Projectors**

Description	Part ID	D1	Weight (kg)
Pole clamp SP2-M5, double (Ø 38-60)	146-7203	38-60	1.30



Pole clamp SP2-M5, double (Ø 76-89)	146-7204	76-89	1.20
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Projectors

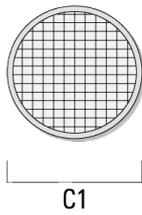
**Optical Accessories**

**Flood lens**

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Description	Part ID	C1
Flood lens IO-360 for [EE]	145-7786	59

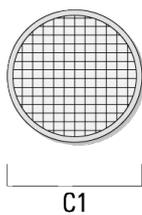
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Flood lens IO-360 for [EES]	145-7780	59
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## Projectors

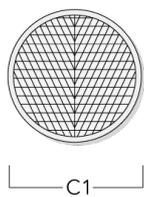
### Linear spread lens

Description	Part ID	C1
Linear spread lens IO-180	145-7781	59



### Wallwash lens

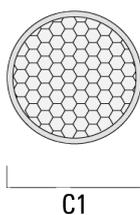
Description	Part ID	C1
Wallwash lens IO-20	145-7782	59



**Projectors**

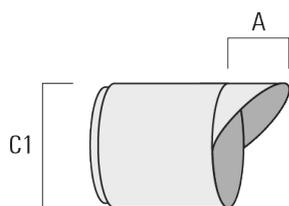
**Honeycomb louvre**

Description	Part ID	C1
Honeycomb louvre IW	145-7783	59



**Glare shield**

Description	Part ID	A	C1
Glare shield ES	145-7784	34	85



## Projectors

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### Snoot

Description	Part ID	A	C1
Snoot ET	145-7785	34	85

