

### **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. Knuckle permits 350° rotation, forward tilt 38° and backward tilt 90°.

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

Optical accessories are factory-installed. To be specified at time of ordering.

## 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> RAL9006 White aluminium</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	DALI
Power factor	>0.9

#### Additional information

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

## 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

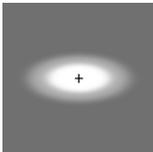
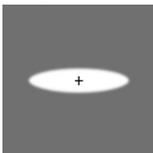
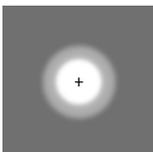
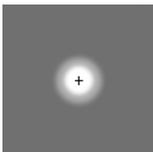


4000 K

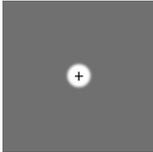
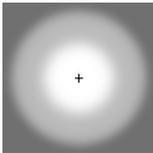
#### Nominal Watt

0 W

### 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
symmetric, very narrow beam [EE] 	145-7654	LED-3/6W / 180 mA - 2700 K	605.2	7.5 W	80	2.20
	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
	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

## Projectors

Light distribution	Part ID	Light source	Rated lumens	Rated input power	CRI	Weight (kg)
symmetric, very narrow beam, sharp cut-off [EES] 	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
	145-7663	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	
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	
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
	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

## Projectors

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### Control

#### Eco Step Dim® Advanced

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

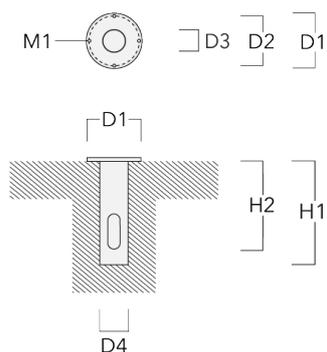
#### 0-10 V, 24VDC low voltage version

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

**Mounting Accessories**

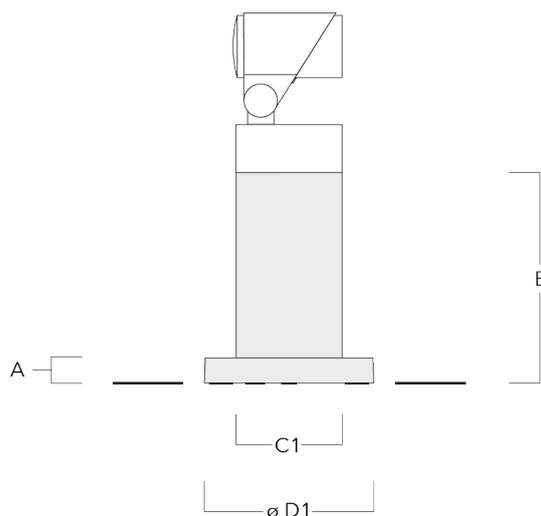
**Planted root**

Description	Part ID	D1	D2	D3	D4	H1	H2	M1	Weight (kg)
Planted root ESV4	300-0461	145	130	102	108	400	350	8	7.85



**Short post EM**

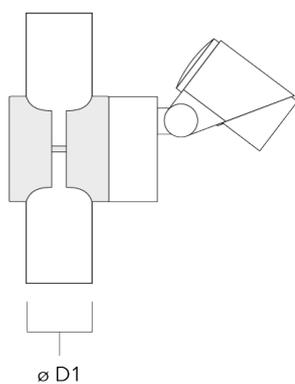
Description	Part ID	A	B	C1	D1	Weight (kg)
Short post EM1 for FLC311/321	146-7169	26	200	120	160	1.80



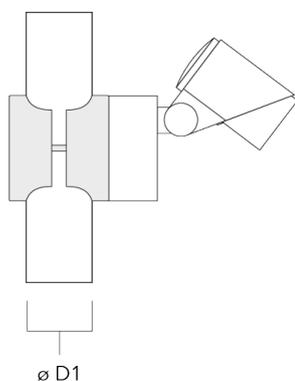
**Projectors**

**Pole clamp SP**

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

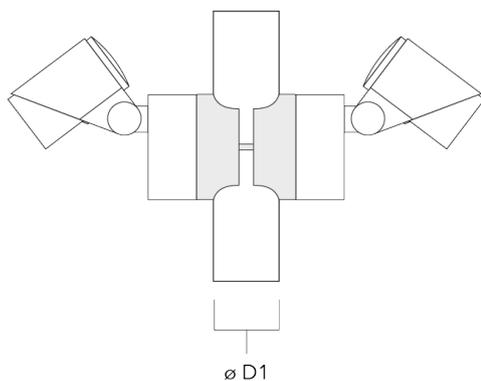


Pole clamp SP1-M5, single (Ø 76-89)	146-7202	76-89	1.10
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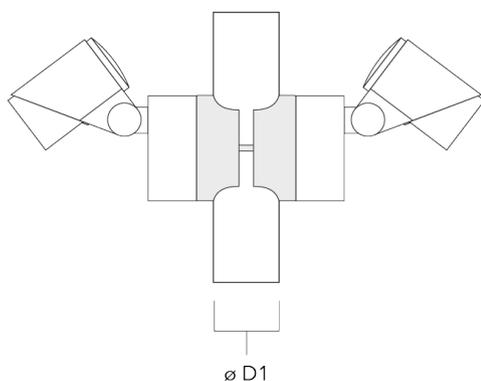


## Projectors

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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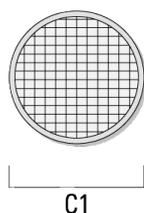


## Projectors

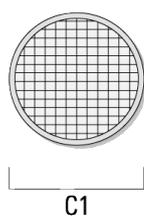
### Optical Accessories

#### Flood lens

Description	Part ID	C1
IO-360-FLC311 for [EE]	145-7786	59



IO-360-FLC311 for [EES]	145-7780	59
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## Projectors

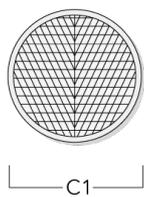
### Linear spread lens

Description	Part ID	C1
IO-180-FLC311	145-7781	59



### Wallwash lens

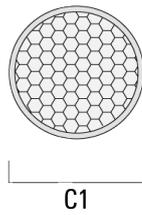
Description	Part ID	C1
IO-20-FLC311	145-7782	59



**Projectors**

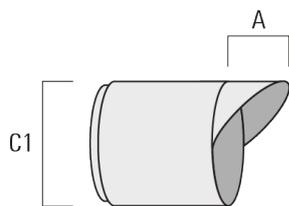
**Honeycomb louvre**

Description	Part ID	C1
IW-FLC311	145-7783	59



**Glare shield**

Description	Part ID	A	C1
ES-FLC311	145-7784	34	85



## Projectors

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### Snoot

Description	Part ID	A	C1
ET-FLC311	145-7785	34	85

