we-ef

WE-EF LEUCHTEN
General Catalogue
European Edition
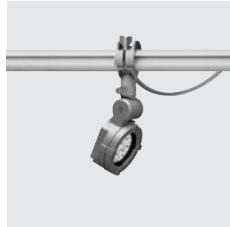2016–2018

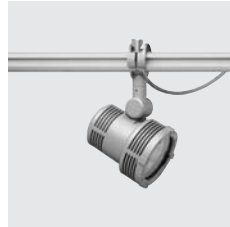# IOS® Beam distributions for RAIL66 system

[B]   wide beam, symmetric

[M]   medium beam, symmetric

[EE]   very narrow beam, symmetric

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

[B]   wide beam, bi-symmetric

[M]   medium beam, bi-symmetric

[E]   narrow beam, bi-symmetric

[E10]   narrow beam, 10° asymmetric
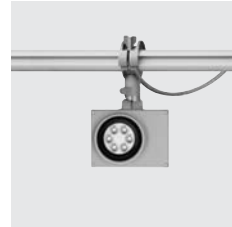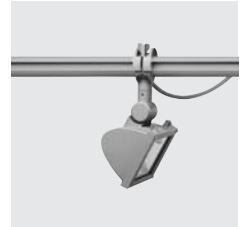
[A45]   wide beam, 45° asymmetric

ACCESSORIES

FLC100 SERIES

RAIL66 projector, wide, medium, very narrow or very narrow beam distribution 'sharp cut-off', symmetric.

IP66, Class I. IK07. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Silicone rubber gasket. Safety glass.

EC electronic converter in thermally separated compartment.

Factory installed LED circuit board. LED boards can be easily removed for upgrading. PMMA LED lens array.

Including 0.4 m of flexible cable enclosed in stainless conduit, in-line connector and mounting clamp for installation to RAIL66 mounting system.

Light source
LED 12-48 W, 3000 K,
for 4000 K refer to www.we-ef.com

Light distributions
[B] [M] [EE] [EES]

Accessories
■ **RAIL66 mounting systems, page 282**
■ **Optical, page 284**

LED

Hard Rock Café. Berlin (D). Lighting design: Into Lighting Design, London.
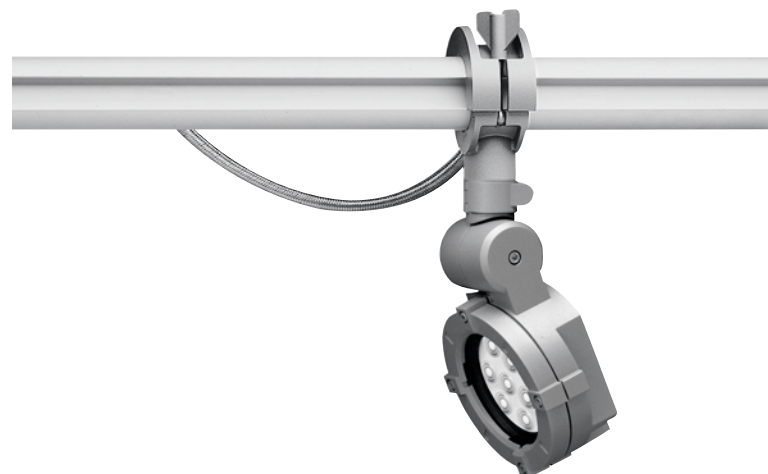
[B] [M] [EE] [EES]

[B] Wide beam distribution, symmetric
[M] Medium beam distribution, symmetric
[EE] Very narrow beam distribution, symmetric
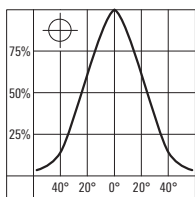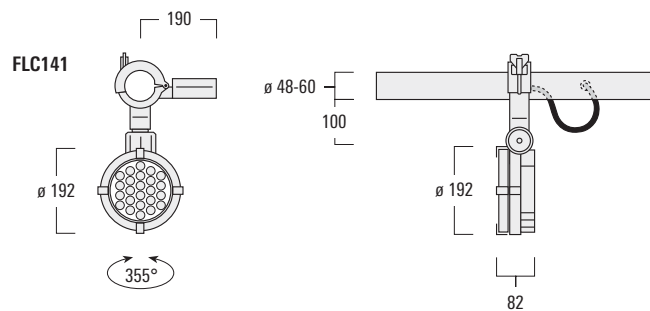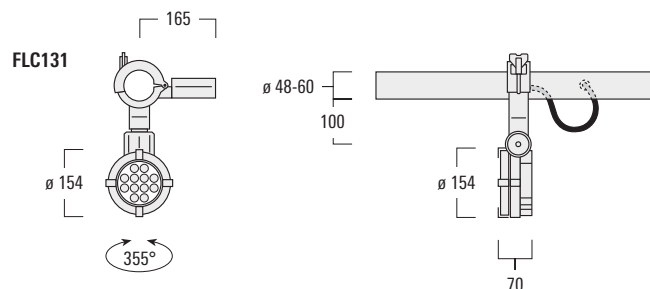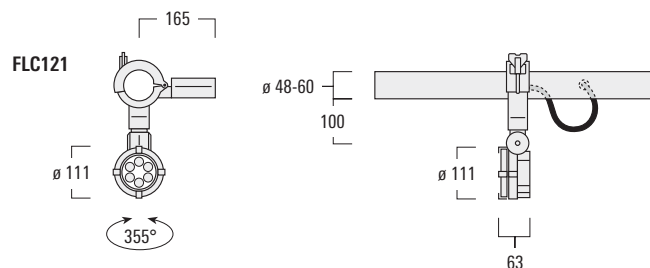[EES] Very narrow beam distribution, symmetric, 'sharp cut-off'

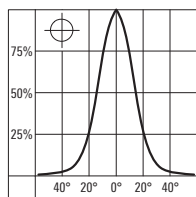| [B]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLC121	145-0088	6 LED 12W / 700 mA	3000	1476	934	25°/25°	2.5
FLC131	146-0530	12 LED 24W / 700 mA	3000	2951	920	25°/25°	3.1
FLC141	146-7070	24 LED 48W / 700 mA	3000	5903	934	25°/25°	4.7

[M]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLC121	145-0043	6 LED 12W / 700 mA	3000	1476	2196	16°/16°	2.5
FLC131	146-0411	12 LED 24W / 700 mA	3000	2951	2196	16°/16°	3.1
FLC141	146-7058	24 LED 48W / 700 mA	3000	5903	2196	16°/16°	4.7

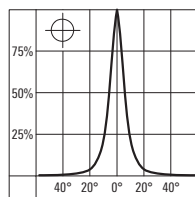| [EE]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLC121	145-0091	6 LED 12W / 700 mA	3000	1476	7207	7°/7°	2.5
FLC131	146-0533	12 LED 24W / 700 mA	3000	2951	7191	7°/7°	3.1
FLC141	146-7072	24 LED 48W / 700 mA	3000	5903	7207	7°/7°	4.7

[EES]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLC121	145-0046	6 LED 12W / 700 mA	3000	1476	22108	5°/5°	2.5
FLC131	146-0414	12 LED 24W / 700 mA	3000	2951	20389	5°/5°	3.1
FLC141	146-7060	24 LED 48W / 700 mA	3000	5903	22108	5°/5°	4.7

FLC121

165
ø 48-60
100
ø 111
ø 111
355°
63

FLC131

165
ø 48-60
100
ø 154
ø 154
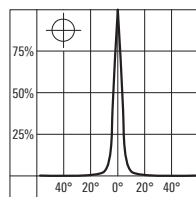355°
70

FLC141

190
ø 48-60
100
ø 192
ø 192
355°
82

[B] [M] [EE] [EES]

* Nominal lumen output based on LED manufacturers data at 85°C T$_J$. For rated lumens at 25°C T$_q$ and latest data refer to www.we-ef.com.

FLC100 SERIES

RAIL66 projector, wide, medium or very narrow beam distribution, symmetric.

IP66, Class I. IK07. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Silicone rubber gaskets. Safety glass lens. Anodised aluminium reflector.

Electronic transformer for low voltage lamps, or ECG control gear for discharge lamps, in thermally separated compartment.

Including 0.4 m of flexible cable enclosed in stainless conduit, in-line connector and mounting clamp for installation to RAIL66 mounting system.

Light source
QT 65 W
TC 18-32 W
HIT 20-150 W

Light distributions
[B] [M] [EE]

Accessories
■ **RAIL66 mounting systems, page 282**
■ **Optical, page 284**

Cabot Circus. Bristol (UK). Architect: Chapman Taylor, Stanton Williams, Alex French. Lighting design: Pinniger and Partners.
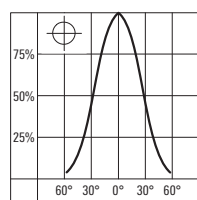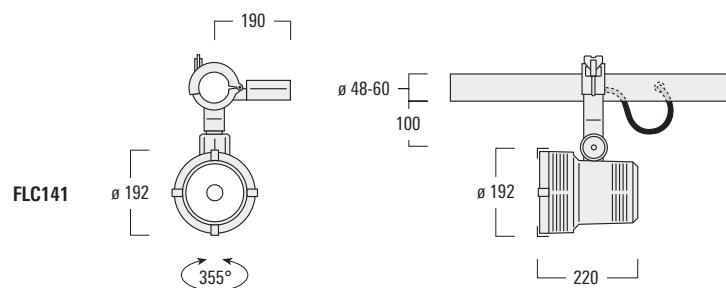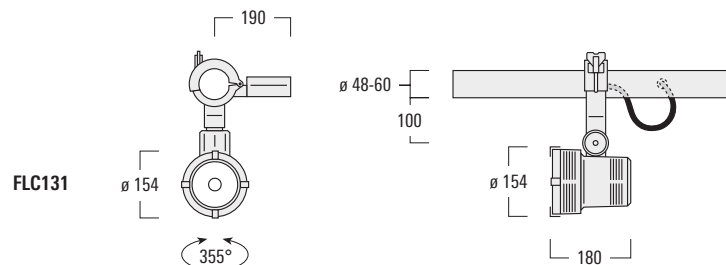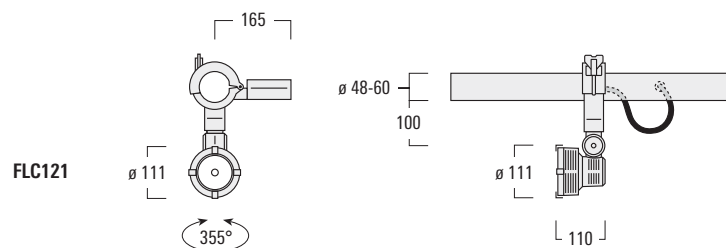
[B]   [M]   [EE]

[B] Wide beam distribution, symmetric
[M] Medium beam distribution, symmetric
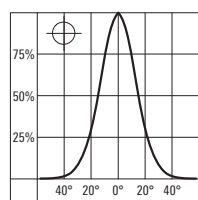[EE] Very narrow beam distribution, symmetric

[B]	Part ID	Light source	lm	cd/klm	C_0C_{180}	kg
FLC121	145-9211 [ECG]	HIT-TC-CE 20W PGJ5	1650	504	30°/30°	2.5
	145-9215 [ECG]	HIT-TC-CE 35W PGJ5	3000	478	30°/30°	2.5
FLC131	146-9622 [ECG]	TC-TEL 18W GX24q-2	1200	160	45°/45°	3.6
FLC141	146-9672 [ECG]	TC-TELI 32W GX24q-3	2400	177	44°/44°	4.8

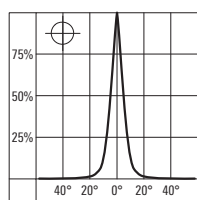| [M]	Part ID	Light source	lm	cd/klm	C_0C_{180}	kg
FLC121	145-9032 [ET]	QT 12 (-LP) ax 65W/c GY6.35/12V	1700	1156	14°/14°	2.3
	145-9036 [ECG]	HIT-TC-CE 20W PGJ5	1650	1810	15°/15°	2.5
	145-9040 [ECG]	HIT-TC-CE 35W PGJ5	3000	1771	15°/15°	2.5
FLC131	146-9630 [ECG]	HIT-CE 70W G12	7300	1296	17°/17°	3.6
FLC141	146-9676 [ECG]	HIT-CE 150W G12	15000	1361	18°/18°	4.8

[EE]	Part ID	Light source	lm	cd/klm	C_0C_{180}	kg
FLC121	145-9062 [ET]	QT 12 (-LP) ax 65W/c GY6.35/12V	1700	5517	5°/5°	2.3
	145-9066 [ECG]	HIT-TC-CE 20W PGJ5	1650	10995	5°/5°	2.5
	145-9070 [ECG]	HIT-TC-CE 35W PGJ5	3000	8581	5°/5°	2.5
FLC131	146-9650 [ECG]	HIT-CE 70W G12	7300	7479	4°/4°	3.6
FLC141	146-9682 [ECG]	HIT-CE 150W G12	15000	7146	4°/4°	4.8

FLC121

165
ø 48-60
100
ø 111
ø 111
355°
110

FLC131

190
ø 48-60
100
ø 154
ø 154
355°
180

FLC141

190
ø 48-60
100
ø 192
ø 192
355°
220

[B]   [M]   [EE]

FLD100 SERIES

RAIL66 projector, wide, medium, very narrow or very narrow beam distribution 'sharp cut-off', symmetric.

IP66, Class I. IK07. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Silicone rubber gasket. Safety glass.

EC electronic converter in thermally separated compartment.

Factory installed LED circuit board. LED boards can be easily removed for upgrading. PMMA LED lens array.
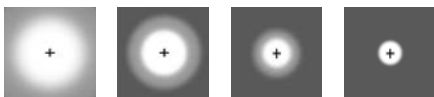
Including 0.4 m of flexible cable enclosed in stainless conduit, in-line connector and mounting clamp for installation to RAIL66 mounting system.

Light source
LED 6-24 W, 3000 K,
for 4000 K refer to www.we-ef.com

Light distributions
[B] [M] [EE] [EES]

Accessories
■ **RAIL66 mounting systems, page 282**
■ **Optical, page 286**

LED

[B]   [M]   [EE]   [EES]

[B] Wide beam distribution, symmetric
[M] Medium beam distribution, symmetric
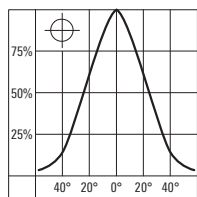[EE] Very narrow beam distribution, symmetric
[EES] Very narrow beam distribution, symmetric, 'sharp cut-off'

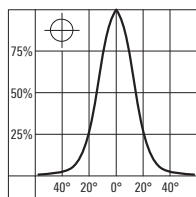| [B]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLD121	145-9511	6 LED 12W / 700 mA	3000	1476	986	23°/23°	2.6
FLD131	145-9608	12 LED 24W / 700 mA	3000	2951	986	23°/23°	3.0

[M]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLD111	145-9809	3 LED 6W / 700 mA	3000	738	1633	21°/21°	2.4
FLD121	145-9509	6 LED 12W / 700 mA	3000	1476	2261	17°/17°	2.6
FLD131	145-9556	12 LED 24W / 700 mA	3000	2951	2261	17°/17°	3.0

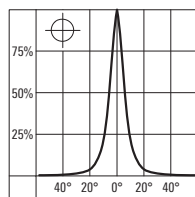| [EE]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLD111	145-9810	3 LED 6W / 700 mA	3000	738	7530	7°/7°	2.4
FLD121	145-9513	6 LED 12W / 700 mA	3000	1476	7524	7°/7°	2.6
FLD131	145-9557	12 LED 24W / 700 mA	3000	2951	7524	7°/7°	3.0

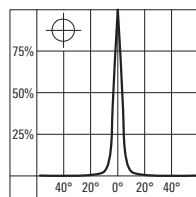| [EES]	Part ID	Light source	K	lm*	cd/klm	C_0C_{180}	kg
FLD111	145-9811	3 LED 6W / 700 mA	3000	738	16462	5°/5°	2.4
FLD121	145-9515	6 LED 12W / 700 mA	3000	1476	19392	5°/5°	2.6
FLD131	145-9609	12 LED 24W / 700 mA	3000	2951	19392	5°/5°	3.0

FLD111

ø 48-60
100
□ 95
55
355°

FLD121

ø 48-60
100
130 x 175
75
355°
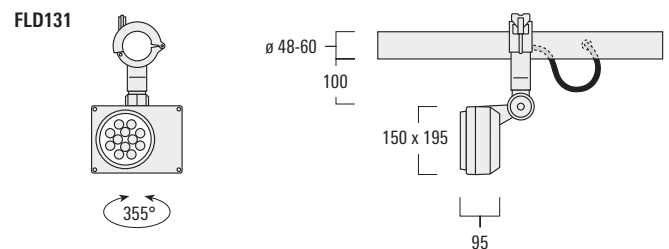
FLD131

ø 48-60
100
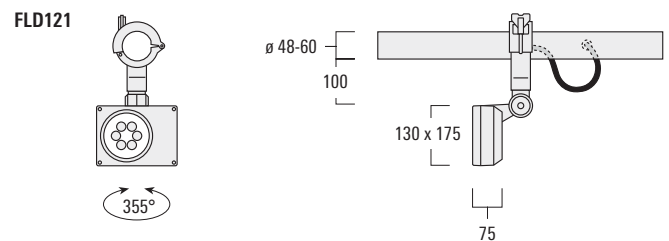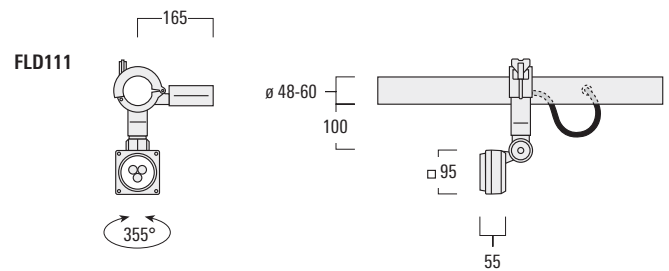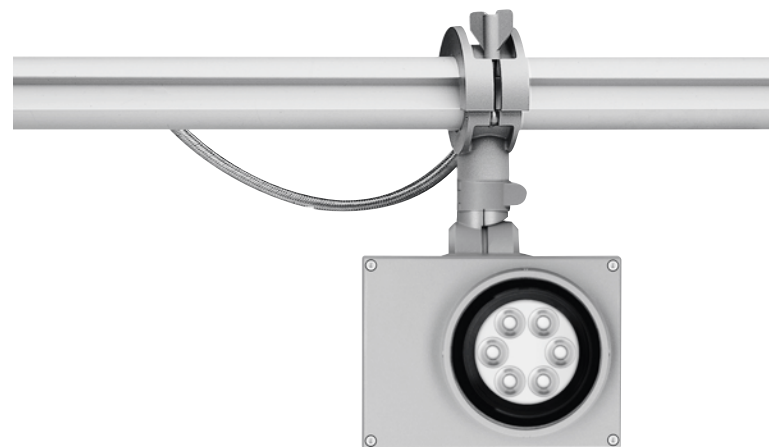150 x 195
95
355°

[B]   [M]   [EE]   [EES]

* Nominal lumen output based on LED manufacturers data at 85°C T_J. For rated lumens at 25°C T_q and latest data refer to www.we-ef.com.

FLB100 SERIES

RAIL66 floodlight, wide, medium or narrow beam distribution, bi-symmetric.

IP66, Class I. IK08. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Silicone rubber gaskets. Safety glass lens. Anodised aluminium reflector.

ECG control gear for discharge lamps, in thermally separated compartment.

Including 0.4 m of flexible cable enclosed in stainless conduit, in-line connector and mounting clamp for installation to RAIL66 mounting system.

Light source
QT 300 W
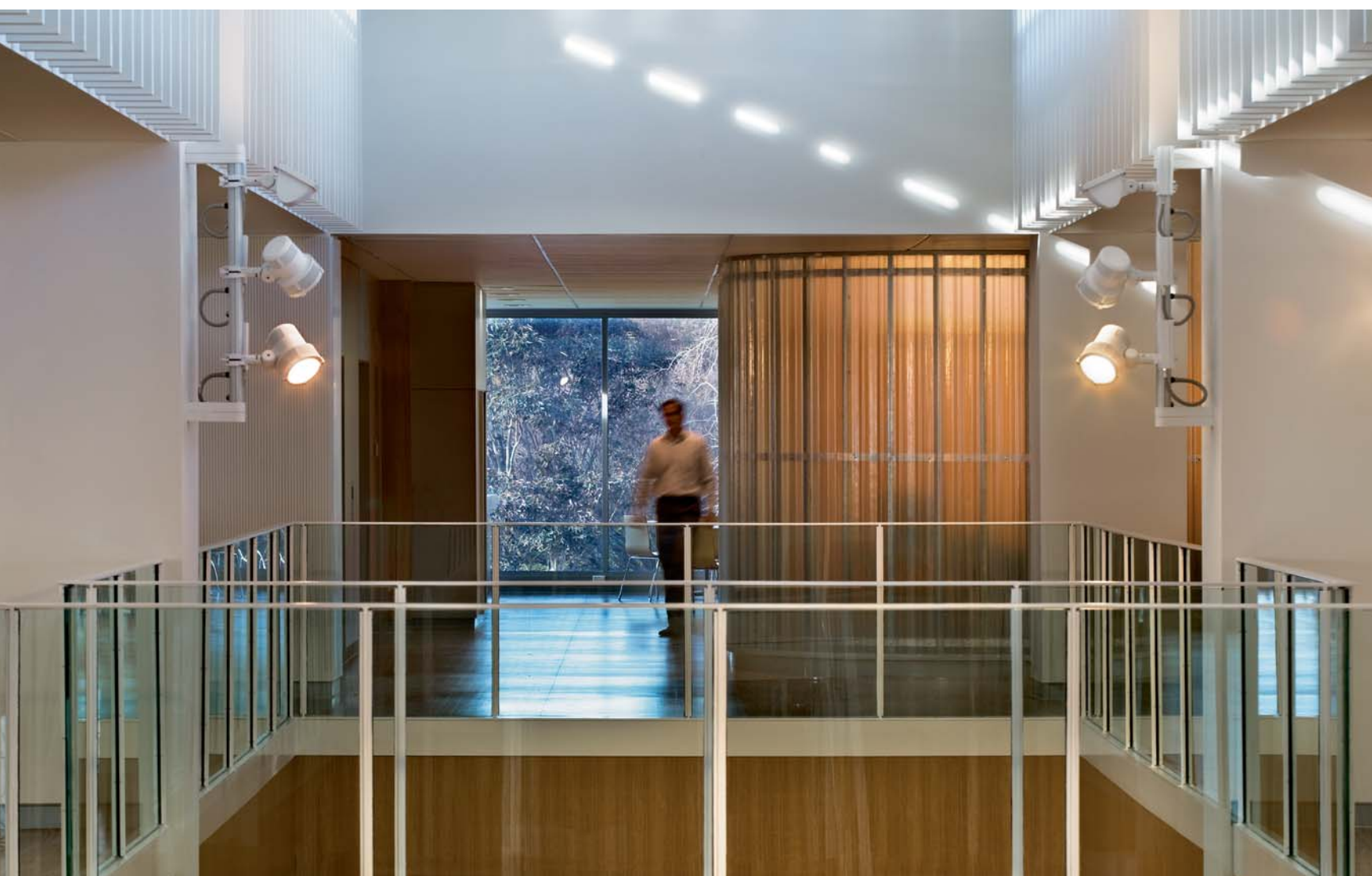**HIT 70-150 W**

Light distributions
[B] [M] [E]

Accessories
■ **RAIL66 mounting systems, page 282**
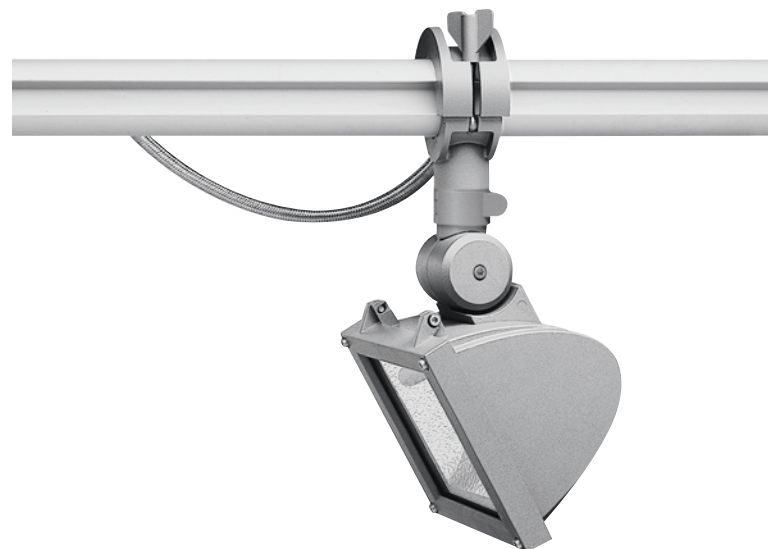■ **Optical, page 288**

ASB Fitout. Auckland (NZ). Lighting design: Richard Bracebridge, Lightworks.

[B]   [M]   [E]

[B]   Wide beam distribution, bi-symmetric

[M]   Medium beam distribution, bi-symmetric

[E]   Narrow beam distribution, bi-symmetric

[B]	Part ID	Light source	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$	kg
FLB141	161-7300	QT-DE 300W RX7s	5300	675	25°/25°	31°/31°	3.8
	161-7304 [ECG]	HIT-DE-CE 70W RX7s	6800	638	25°/25°	32°/32°	4.7
	161-7308 [ECG]	HIT-DE-CE 150W RX7s	14500	665	25°/25°	32°/32°	4.8

[M]	Part ID	Light source	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$	kg
FLB141	161-7332 [ECG]	HIT-DE-CE 70W RX7s	6800	1011	15°/15°	32°/32°	4.7
	161-7336 [ECG]	HIT-DE-CE 150W RX7s	14500	926	16°/16°	32°/32°	4.8

[E]	Part ID	Light source	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$	kg
FLB141	161-7360 [ECG]	HIT-DE-CE 70W RX7s	6800	1716	7°/7°	33°/33°	4.7
	161-7364 [ECG]	HIT-DE-CE 150W RX7s	14500	1426	9°/9°	33°/33°	4.8

190

ø 48-60

100

175 x 215

355°

175 x 215

140
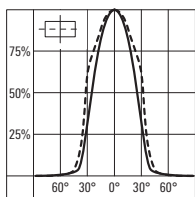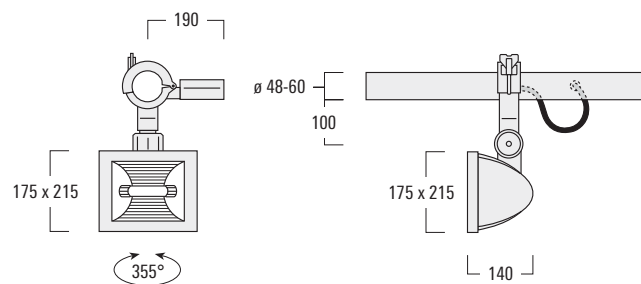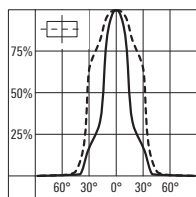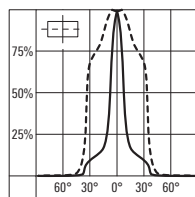
[B]   [M]   [E]

FLB100 SERIES

RAIL66 floodlight, narrow or wide beam distribution, asymmetric.

IP66, Class I. IK08. Marine-grade die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Silicone rubber gaskets. Safety glass lens. Anodised aluminium reflector.

ECG control gear for discharge lamps, in thermally separated compartment.

Including 0.4 m of flexible cable enclosed in stainless conduit, in-line connector and mounting clamp for installation to RAIL66 mounting system.

Light source
QT 300 W
HIT 70-150 W

Light distribution
[E10] [A45]

Accessories
■ **RAIL66 mounting systems, page 282**
■ **Optical, page 288**

ASB Fitout. Auckland (NZ). Lighting design: Richard Bracebridge, Lightworks.

[E10]

[A45]

[E10] Narrow beam distribution, 10° asymmetric
[A45] Wide beam distribution, 45° asymmetric

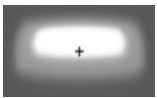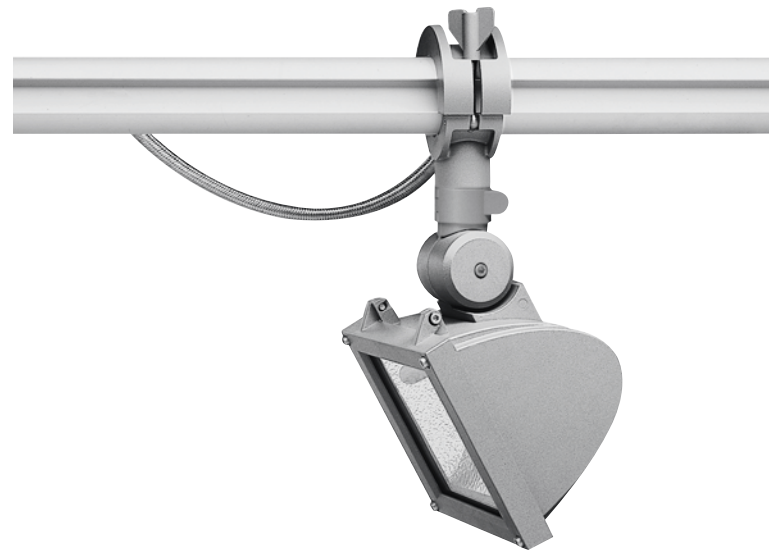| [E10]	Part ID	Light source	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$	kg
FLB141	161-7388 [ECG]	HIT-DE-CE 70W RX7s	6800	1645	5°/9°	34°/34°	4.7
	161-7392 [ECG]	HIT-DE-CE 150W RX7s	14500	1128	8°/12°	34°/34°	4.8

[A45]	Part ID	Light source	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$	kg
FLB141	161-7406	QT-DE 300W R7s	5300	408	31°/21°	38°/38°	3.9
	161-7410 [ECG]	HIT-DE-CE 70W RX7s	6800	478	30°/21°	38°/38°	4.9
	161-7414 [ECG]	HIT-DE-CE 150W RX7s	14500	442	25°/26°	40°/40°	5.0

[E10]

190

ø 48-60

100

175 x 215

175 x 215

355°

140

[A45]

190

175 x 215

355°
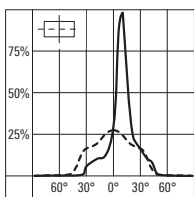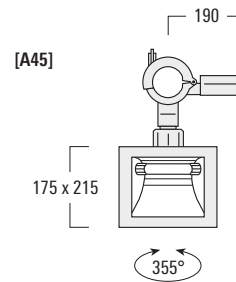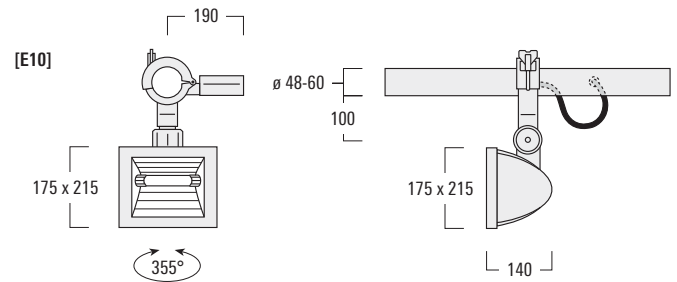
[E10]
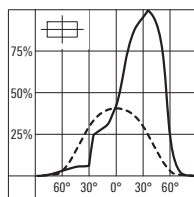
[A45]

RAIL66 UNIVERSAL

For RAIL66 projectors and floodlights.

IP66. Marine-grade all aluminium construction. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016. Anodised rail extrusion, featuring countersunk, IP rated compact mains outlets and internal wiring.

RAIL66 Universal

Suitable for installation in any desired orientation to walls, under roof and ceiling structures.

		L1	L2	kg
310-9200	for 2 projectors or floodlights	1150	1045	5.9
310-9202	for 3 projectors or floodlights	1150	1045	5.9
310-9210	for 3 projectors or floodlights	1650	1545	7.2
310-9212	for 4 projectors or floodlights	1650	1545	7.2
310-9220	for 4 projectors or floodlights	2150	2045	8.5
310-9222	for 6 projectors or floodlights	2150	2045	8.5

RAIL66 Surface Fitters (Pair)

The optional Flat Surface Fitters (pair) provide enhanced mounting surface coverage and facilitate concealing of a recessed junction box.

	L	kg
310-9290	1070 / 1570 / 2070	1.7
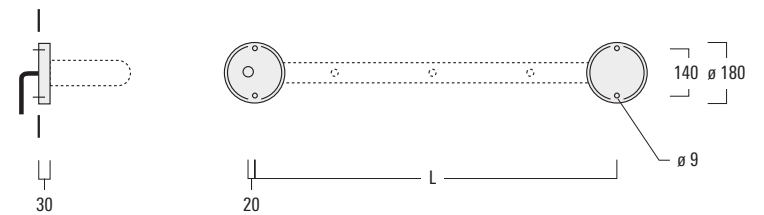
RAIL66 Column Fitters (Pair)

The optional Column Fitters (pair) allow installation to pipe structures and columns of min. 100 mm diameter.

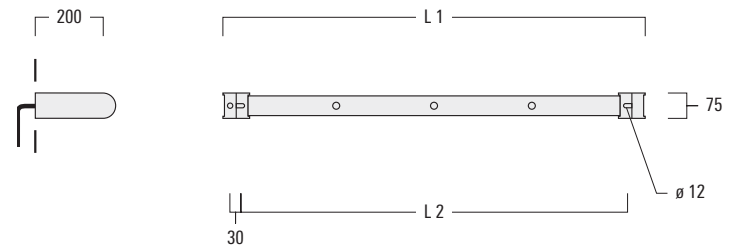|	L	kg
310-9294	1115 / 1615 / 2115	0.9
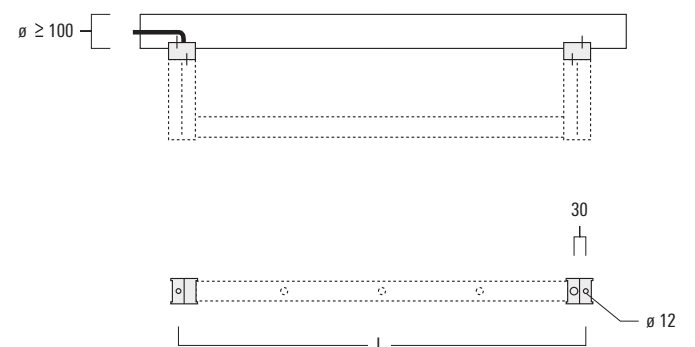
RAIL66 CANTILEVER & RAIL66 MOBILE

For RAIL66 projectors and floodlights.

IP66. Marine-grade all aluminium construction. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in RAL 9004, RAL 9006, RAL 9007 or RAL 9016 or Classic Silver. Anodised rail extrusion, featuring countersunk, IP rated compact mains outlets and internal wiring.

RAIL66 Cantilever

featuring a concealed termination chamber, has been designed for horizontal wall mounting. Particularly suitable for facade lighting applications.
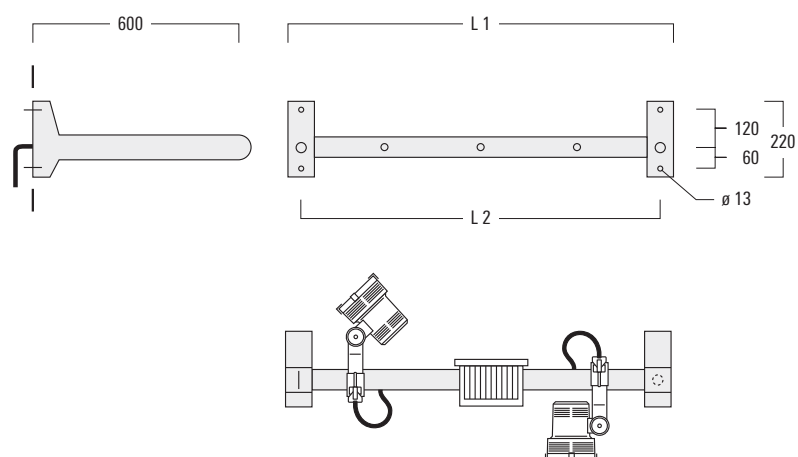
		L1	L2	kg
310-9230	for 2 projectors or floodlights	1150	1070	12.0
310-9232	for 3 projectors or floodlights	1150	1070	12.0
310-9240	for 3 projectors or floodlights	1650	1570	13.3
310-9242	for 4 projectors or floodlights	1650	1570	13.3
310-9250	for 4 projectors or floodlights	2150	2070	14.6
310-9252	for 6 projectors or floodlights	2150	2070	14.6

RAIL66 Mobile

includes 3 m of flexible cable and plug, and is particularly suitable for mobile installations at showrooms, exhibitions, outdoor events, etc.

		L	kg
310-9260	for 2 projectors or floodlights	1150	9.3
310-9264	for 3 projectors or floodlights	1150	9.3
310-9270	for 3 projectors or floodlights	1650	10.6
310-9274	for 4 projectors or floodlights	1650	10.6
310-9280	for 4 projectors or floodlights	2150	11.9
310-9284	for 6 projectors or floodlights	2150	11.9
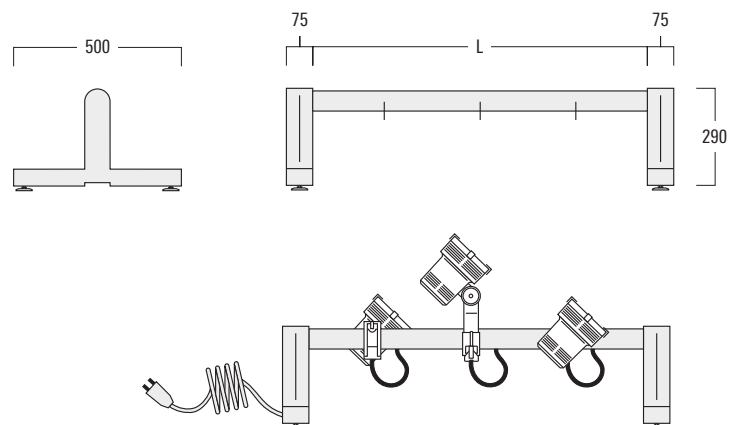
OPTICAL ACCESSORIES – FLC100 SERIES

Internal Accessories

A maximum of one internal optical accessory.

External Accessories

A maximum of one external optical accessory.

Flood lens IO-360

for FLC121	145-0142
for FLC131	146-0623
for FLC141	146-0624

Linear spread lens IO-180

for FLC121	145-0050
for FLC131	146-0418
for FLC141	146-0439

Wallwash lens IO-20*

for FLC121 [M]	145-0145
for FLC131 [M]	146-0645
for FLC141 [M]	146-0646

Honeycomb louvre IW**

for FLC121	145-0143
for FLC131	146-0625
for FLC141	146-0626

*   ideal for uniform wall washing applications

** not for [B] version

Wire guard EG

for FLC121	145-9190
for FLC131	146-0158
for FLC141	146-0231

Glare shield ES

for FLC121	145-9192
for FLC131	146-0156
for FLC141	146-0229

Snoot ET

for FLC121	145-0030
for FLC131	146-0397
for FLC141	146-0398
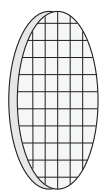
IO   IW   Frame   EG   ES   ET

OPTICAL ACCESSORIES – FLC100 SERIES ✈

Internal Accessories

A maximum of two internal optical accessories.

External Accessories

A maximum of one external optical accessory.

Flood lens IO-360

for FLC121	145-9174
for FLC131	146-0258
for FLC141	146-0122

Wire guard EG

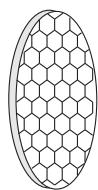|	
for FLC121	145-9190
for FLC131	146-0158
for FLC141	146-0231

Linear spread lens IO-180

for FLC121	145-9172
for FLC131	146-0257
for FLC141	146-0123

Glare shield ES

for FLC121	145-9192
for FLC131	146-0156
for FLC141	146-0229

Colour filter IF

	red	green	blue	yellow
for FLC121	145-9176	145-9178	145-9180	145-9182
for FLC131	146-0262	146-0260	146-0259	146-0261
for FLC141	146-0141	146-0135	146-0119	146-0138

Snoot ET

for FLC121	145-9194
for FLC131	146-0157
for FLC141	146-0230

Source shield IQ

for FLC121	[EE]	145-9170
for FLC131	[EE]	146-0263
for FLC141	[EE]	146-0264

IQ   IF   IO   Frame   EG   ES   ET
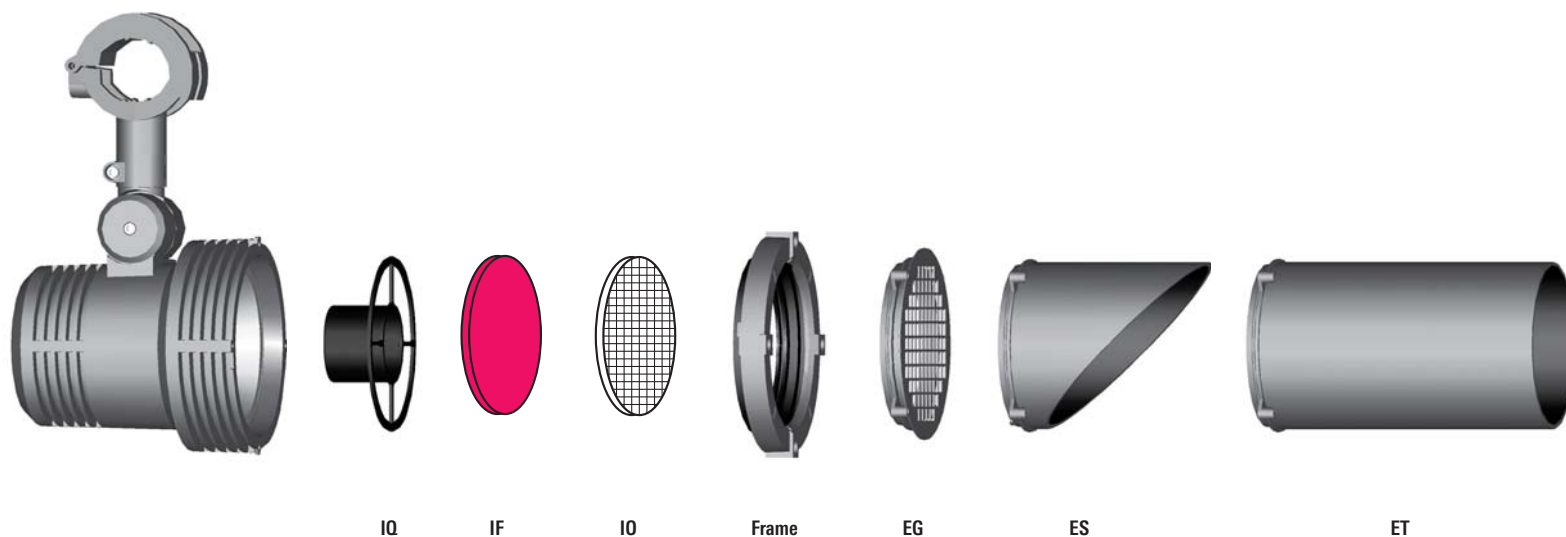
OPTICAL ACCESSORIES – FLD100 SERIES

Internal Accessories

Wallwash lens IO-20*

for FLD111 [M]	145-9846
for FLD121 [M]	145-9479
for FLD131 [M]	145-9577

* ideal for uniform wall washing applications, factory fitted only.

External Accessories

A maximum of two external optical accessories, such as glare shield or snoot, plus flood or spread lens. If a flood or spread lens is used as a 'stand alone' accessory, an optical adaptor is required – to be ordered separately.

Optical adaptor

for FLD111	145-9830
for FLD121	145-9530
for FLD131	145-9570

Flood lens EO-360

for FLD111	145-9834
for FLD121	145-9534
for FLD131	145-9574

Linear spread lens EO-180

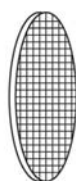|	
for FLD111	145-9833
for FLD121	145-9533
for FLD131	145-9573

Glare shield ES
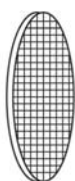
for FLD111	145-9831
for FLD121	145-9531
for FLD131	145-9571

Snoot ET

for FLD111	145-9832
for FLD121	145-9532
for FLD131	145-9572

IO   EO   EA   ES   ET

Robina Town Centre. Gold Coast, Queensland (AUS).

OPTICAL ACCESSORIES – FLB100 SERIES ✈

Internal

A maximum of two internal optical accessories. The optical adaptor IA has to be ordered separately. Refer to listing below to determine need for optical adaptor.

External

A maximum of one external optical accessory.

Flood lens IO-360*

for FLB141 [M] [E] [E10]	161-9127

Wallwash lens IO-180*

for FLB141 [M] [E] [E10]	161-9126

Colour filter IF*/**	red	green	blue	yellow
for FLB141	161-9131	161-9129	161-9128	161-9130

Horizontal louvre IL*

for FLB141 [B] [M]	161-9116
for FLB141 [E]	161-9113

Linear source shield IQ*

for FLB141 [E]	161-9117

Optical adaptor IA

for FLB141	161-9115

Wire guard EG

for FLB141	161-9118

Glare shield ES

| for FLB141 [B] [M] [E]	161-9121

Barn doors ED

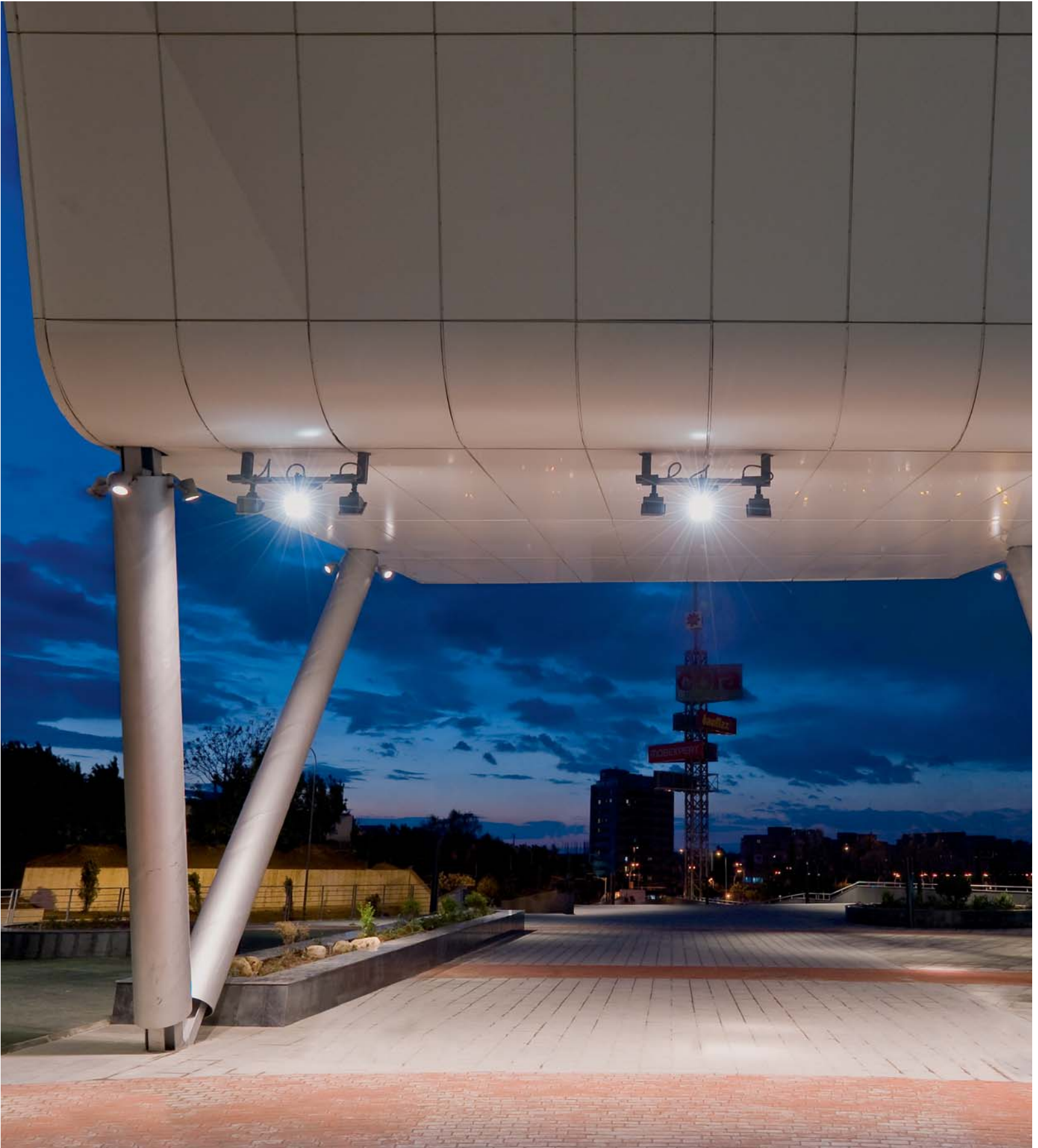| for FLB141	161-9119

 * Requires optical adaptor IA which has to be ordered separately.

** Dichroic colour filters, in combination with bi-symmetric or asymmetric reflectors, exhibit a pronounced 'rainbow effect'.
   If this is not suitable, contact your local WE-EF representative for optional absorption colour filters.

IQ

IA

IL   IF   IO   EG   ES   ED
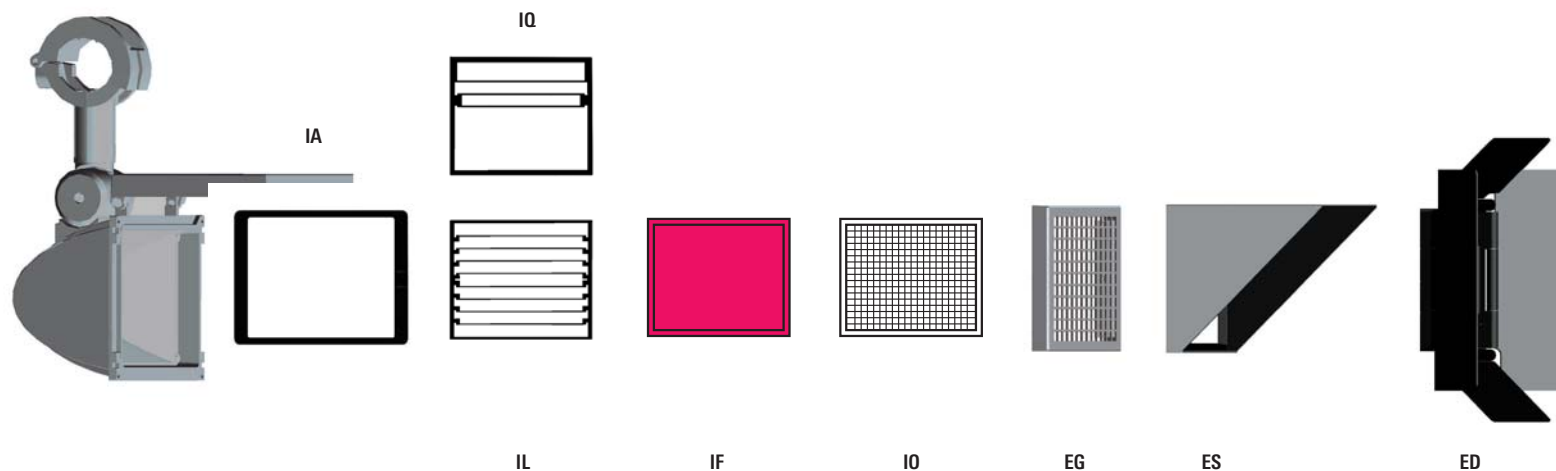
Sun Plaza Shopping Mall. Bucarest (RO). Architects: Chapman Taylor, London. Lighting design: Scott Beleuchtung, Berlin.