

we-ef

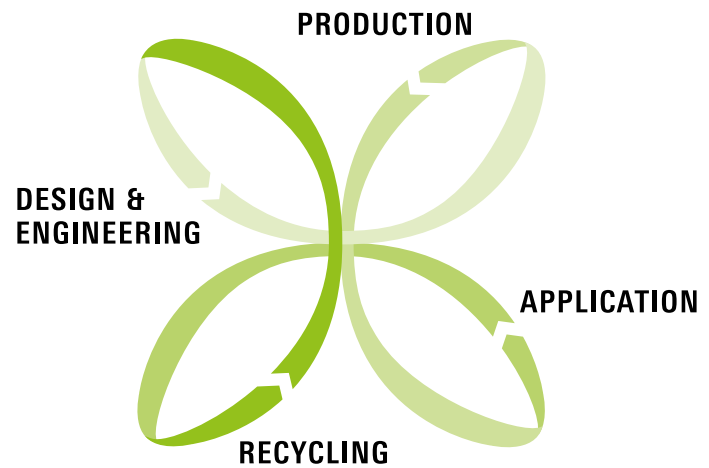
WE-EF LIGHTING USA

Projectors

FLC200 LED Series

2018





WE-EF is a global manufacturer of high-performance exterior luminaires renowned for outstanding engineering design and innovative optical systems. Established in 1950 in Germany, WE-EF is recognized worldwide as a leading exterior lighting specialist that provides professional lighting solutions for various applications, ranging from urban spaces to architectural projects.

As a pioneer and innovator of a wide range of application-specific modular LED lens technologies, WE-EF develops optical systems that deliver photometric efficiency together with high visual comfort.

WE-EF is dedicated to the philosophy of combining form and function, resulting in striking and timeless product designs.

Precision in the design process, careful consideration of material selection and high-quality manufacturing processes ensure that WE-EF luminaires are considered to be a benchmark of product performance, reliability and longevity as well as ease of installation.

Responsible resource management is practiced across all areas of operation, from product life-cycle assessments to sustainable business procedures.

FLC200 LED SERIES

Symmetrical Floodlight. Wide, medium, narrow, very narrow or very narrow sharp cut-off beam distributions.

IP66, Class I. IK07. Marine-grade, die-cast aluminum alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey metallic RAL 9007, white RAL 9016 or dark bronze RAL 8019. CCG® (Controlled Compression Gasket) technology. Safety glass lens. One cable gland. Second gland for through wiring on request.

Factory installed LED circuit board. LED boards and LED lenses can be removed for upgrading. Optical grade, UV stabilized PMMA LED lenses.

Thermally separated driver.

0-10V, 120 - 277V standard.

Light source
LED 12-155 W, 3000 K,
for 4000 K refer to www.we-ef.com

2400 - 5000K available on request.

Light distributions
[W] [M] [N] [VN] [VNS]





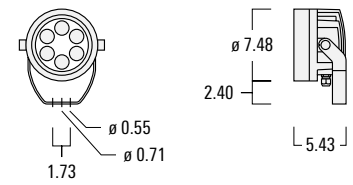
[W]

[W] Wide beam distribution, symmetric

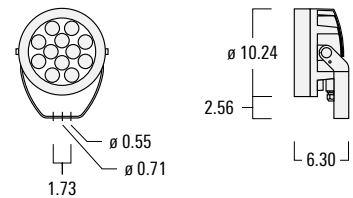


[W]	Part ID	Light source	K	lm*	cd/klm	C-C ₁₈₀	lbs
FLC220	667-7422	6 LED 12W / 700 mA	3000	1629	997	28.6°/28.6°	9.5
	667-7424	6 LED 18W / 1050 mA	3000	2340	997	28.6°/28.6°	9.5
	667-7426	6 LED 26W / 1400 mA	3000	2993	968	28.6°/28.6°	9.5
FLC230	667-3420	12 LED 24W / 700 mA	3000	3257	981	29.7°/29.7°	16.8
	667-3423	12 LED 36W / 1050 mA	3000	4680	981	29.7°/29.7°	16.8
	667-3432	12 LED 52W / 1400 mA	3000	5986	948	29.7°/29.7°	16.8
FLC240	667-4420	24 LED 48W / 700 mA	3000	6515	981	29.7°/29.7°	27.8
	667-4421	24 LED 72W / 1050 mA	3000	9360	981	29.7°/29.7°	27.8
	667-4422	24 LED 104W / 1400 mA	3000	11971	948	29.7°/29.7°	27.8
FLC260	667-6420	36 LED 72W / 700 mA	3000	9772	981	29.7°/29.7°	35.6
	667-6421	36 LED 108W / 1050 mA	3000	14040	981	29.7°/29.7°	35.6
	667-6422	36 LED 155W / 1400 mA	3000	17957	948	29.7°/29.7°	35.6

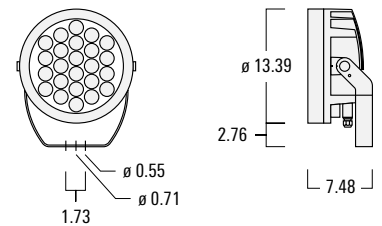
FLC220



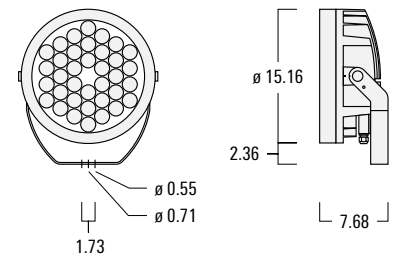
FLC230



FLC240



FLC260



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



[M] [N]

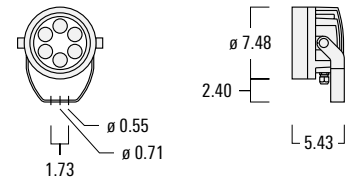
[M] Medium beam distribution, symmetric

[N] Narrow beam distribution, symmetric

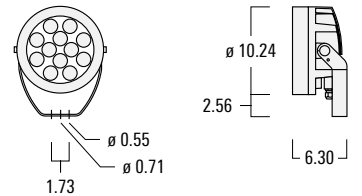
[M]	Part ID	Light source	K	lm*	cd/klm	C:C ₁₀₀	lbs
FLC220	667-7322	6 LED 12W / 700 mA	3000	1629	3175	14.7°/14.7°	9.5
	667-7324	6 LED 18W / 1050 mA	3000	2340	3175	14.7°/14.7°	9.5
	667-7326	6 LED 26W / 1400 mA	3000	2993	3079	14.7°/14.7°	9.5
FLC230	667-3320	12 LED 24W / 700 mA	3000	3257	3039	15.3°/15.3°	16.8
	667-3321	12 LED 36W / 1050 mA	3000	4680	3039	15.3°/15.3°	16.8
	667-3322	12 LED 52W / 1400 mA	3000	5986	2922	15.3°/15.3°	16.8
FLC240	667-4320	24 LED 48W / 700 mA	3000	6515	3039	15.3°/15.3°	27.8
	667-4321	24 LED 72W / 1050 mA	3000	9360	3039	15.3°/15.3°	27.8
	667-4322	24 LED 104W / 1400 mA	3000	11971	2922	15.3°/15.3°	27.8
FLC260	667-6320	36 LED 72W / 700 mA	3000	9772	3039	15.3°/15.3°	35.6
	667-6321	36 LED 108W / 1050 mA	3000	14040	3039	15.3°/15.3°	35.6
	667-6322	36 LED 155W / 1400 mA	3000	17957	2922	15.3°/15.3°	35.6

[N]	Part ID	Light source	K	lm*	cd/klm	C:C ₁₀₀	lbs
FLC220	667-7022	6 LED 12W / 700 mA	3000	1629	7984	7.0°/7.0°	9.5
	667-7024	6 LED 18W / 1050 mA	3000	2340	7984	7.0°/7.0°	9.5
	667-7026	6 LED 26W / 1400 mA	3000	2993	7745	7.0°/7.0°	9.5
FLC230	667-3120	12 LED 24W / 700 mA	3000	3257	8202	7.3°/7.3°	16.8
	667-3121	12 LED 36W / 1050 mA	3000	4680	8202	7.3°/7.3°	16.8
	667-3122	12 LED 52W / 1400 mA	3000	5986	7892	7.3°/7.3°	16.8
FLC240	667-4120	24 LED 48W / 700 mA	3000	6515	8202	7.3°/7.3°	27.8
	667-4121	24 LED 72W / 1050 mA	3000	9360	8202	7.3°/7.3°	27.8
	667-4122	24 LED 104W / 1400 mA	3000	11971	7892	7.3°/7.3°	27.8
FLC260	667-6120	36 LED 72W / 700 mA	3000	9772	8202	7.3°/7.3°	35.6
	667-6121	36 LED 108W / 1050 mA	3000	14040	8202	7.3°/7.3°	35.6
	667-6122	36 LED 155W / 1400 mA	3000	17957	7892	7.3°/7.3°	35.6

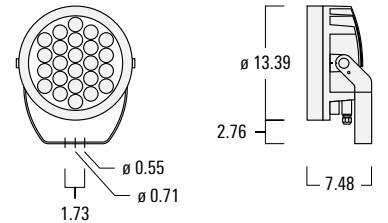
FLC220



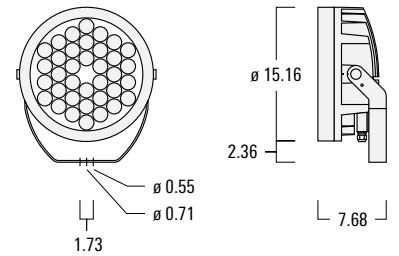
FLC230



FLC240



FLC260



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



[VN]

[VNS]

[VN] Very narrow beam distribution, symmetric

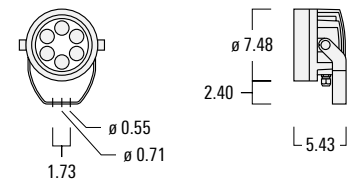
[VNS] Very narrow beam distribution, symmetric 'sharp cut-off'



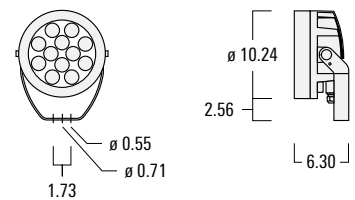
[VN]	Part ID	Light source	K	lm*	cd/klm	C-C ₁₈₀	lbs
FLC220	667-7122	6 LED 12W / 700 mA	3000	1629	36435	4.0°/4.0°	9.5
	667-7124	6 LED 18W / 1050 mA	3000	2340	36435	4.0°/4.0°	9.5
	667-7126	6 LED 26W / 1400 mA	3000	2993	35341	4.0°/4.0°	9.5
FLC230	667-3220	12 LED 24W / 700 mA	3000	3257	34566	4.1°/4.1°	16.8
	667-3221	12 LED 36W / 1050 mA	3000	4680	34566	4.1°/4.1°	16.8
	667-3222	12 LED 52W / 1400 mA	3000	5986	33874	4.1°/4.1°	16.8
FLC240	667-4220	24 LED 48W / 700 mA	3000	6515	34566	4.1°/4.1°	27.8
	667-4221	24 LED 72W / 1050 mA	3000	9360	34566	4.1°/4.1°	27.8
	667-4222	24 LED 104W / 1400 mA	3000	11971	33874	4.1°/4.1°	27.8
FLC260	667-6220	36 LED 72W / 700 mA	3000	9772	34566	4.1°/4.1°	35.6
	667-6221	36 LED 108W / 1050 mA	3000	14040	34566	4.1°/4.1°	35.6
	667-6222	36 LED 155W / 1400 mA	3000	17957	33874	4.1°/4.1°	35.6

[VNS]	Part ID	Light source	K	lm*	cd/klm	C-C ₁₈₀	lbs
FLC220	667-7222	6 LED 12W / 700 mA	3000	1378	63895	2.7°/2.7°	9.5
	667-7224	6 LED 18W / 1050 mA	3000	1980	63895	2.7°/2.7°	9.5
	667-7226	6 LED 26W / 1400 mA	3000	2532	61978	2.7°/2.7°	9.5
FLC230	667-3226	12 LED 24W / 700 mA	3000	2756	61491	2.9°/2.9°	16.8
	667-3227	12 LED 36W / 1050 mA	3000	3960	61491	2.9°/2.9°	16.8
	667-3228	12 LED 52W / 1400 mA	3000	5065	59646	2.9°/2.9°	16.8
FLC240	667-4226	24 LED 48W / 700 mA	3000	5512	61491	2.9°/2.9°	27.8
	667-4227	24 LED 72W / 1050 mA	3000	7920	61491	2.9°/2.9°	27.8
	667-4228	24 LED 104W / 1400 mA	3000	10130	59646	2.9°/2.9°	27.8
FLC260	667-6226	36 LED 72W / 700 mA	3000	8268	61491	2.9°/2.9°	35.6
	667-6227	36 LED 108W / 1050 mA	3000	11880	61491	2.9°/2.9°	35.6
	667-6228	36 LED 155W / 1400 mA	3000	15195	59646	2.9°/2.9°	35.6

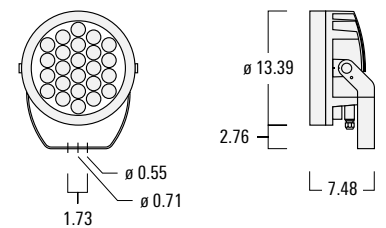
FLC220



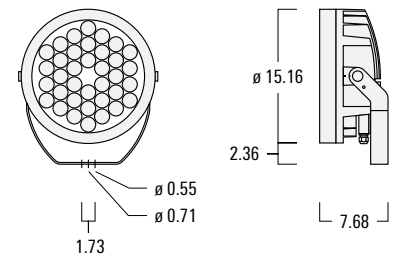
FLC230



FLC240



FLC260



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

FEATURES FLC200 LED

IP classification:	IP66
Electrical protection:	Class I
Impact protection:	IK07
Housing:	Marine-grade, die-cast aluminum alloy 5CE Superior Corrosion Protection
Hardware:	PCS Hardware (Polymer Coated Stainless Steel)
Main lens:	Safety glass lens
Gasket:	CCG® (Controlled Compression Gasket) technology
Ballast:	EC electronic converter, thermally separated Integrated surge protection 6/6kV, SP10 (10/10kV) optional 0-10V, 120 - 277V Universal Driver
LED:	6, 12, 24 or 36 LEDs, 3000 K or 4000 K. 2400 - 5000 K available on request, may impact CRI.
Optic:	PMMA LED lens [W] [M] [N] [VN] [VNS] beam distributions



CAD-optimized symmetric lens system for 'Projected Light' applications. WE-EF's high-precision lenses for symmetric light distribution are designed to take utmost advantage of high power LEDs by leading manufacturers. While these LEDs feature a host of state-of-the-art performance data, it is the combination of these criteria that poses great challenges for the design of a 'perfect optical lens'.

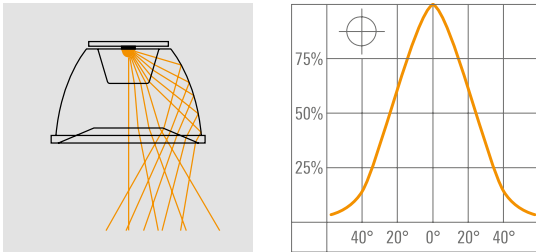
Main features of WE-EF's symmetric lens system

- CAD-engineered and precision manufactured lenses and lens arrays deliver tightly controlled light distribution while limiting light spillage to an absolute minimum.
- High efficiency within the 50% 'half beam' angle, combined with minimum light spillage beyond the 10% 'field' angle.
- Optimized light color mixing within the entire beam, for highest aesthetic performance when illuminating critical architectural features and surfaces.



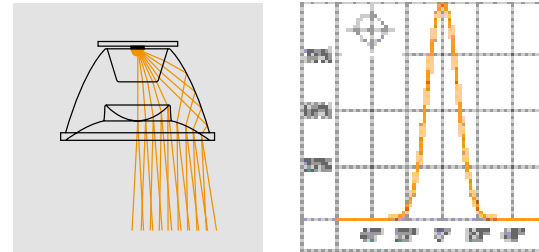
[W] Lens – Main Features *

- Symmetric distribution, wide beam
- 50% 'Half beam' angle typically within 20.5°/20.5° to 30°/30°
- 10% 'Field' angle typically within 45°/45°



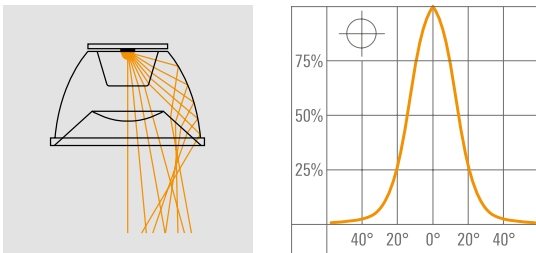
[N] Lens – Main Features *

- Symmetric distribution, narrow beam
- 50% 'Half beam' angle typically within 7.5°/7.5° to 10°/10°
- 10% 'Field' angle typically within 20°/20°



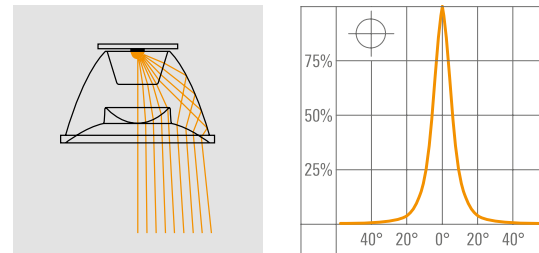
[M] Lens – Main Features *

- Symmetric distribution, medium beam
- 50% 'Half beam' angle typically within 10.5°/10.5° to 20°/20°
- 10% 'Field' angle typically within 30°/30°



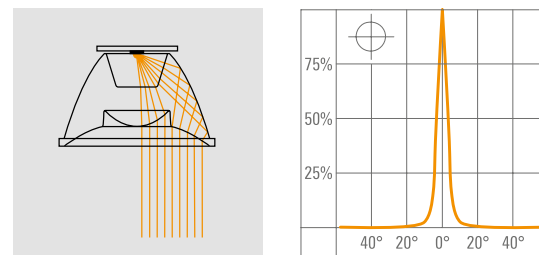
[VN] Lens – Main Features *

- Symmetric distribution, very narrow beam
- 50% 'Half beam' angle typically within 5.5°/5.5° to 7°/7°
- 10% 'Field' angle typically within 15°/15°



[VNS] Lens – Main Features *

- Symmetric distribution, very narrow beam, sharp cut-off
- 50% 'Half beam' angle typically within 5°/5°
- 10% 'Field' angle typically within 10°/10°



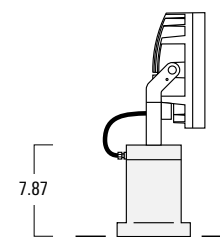
* The illustrations and diagrams shown here represent WE-EF proprietary optics; details may vary depending on luminaire model.

MOUNTING ACCESSORIES – FLC200 SERIES

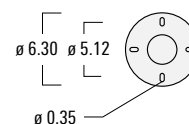
Marine-grade aluminum construction. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey metallic RAL 9007, white RAL 9016 or dark bronze RAL 8019.

Short post				lbs
for FLC200 Series	667-9301	EM1-M16	Short post	4.85

Matching planted root to be ordered separately.

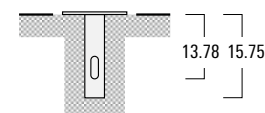


Short post EM1



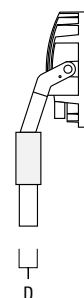
Planted root for short post – Galvanised steel				lbs
for FLC200 Series	665-9302	ESV4	Planted root	9.70

Must be ordered in conjunction with EM short post.



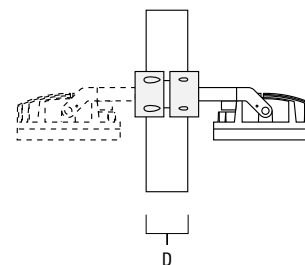
Planted root ESV4

Pole top caps			Pole top tenon	lbs
for (1) FLC240	669-9331	KF16-60/M16	2.36	2.0
	669-9332	KF16-76/M16	3.00	2.0
	669-9333	KF16-89/M16	3.50	2.0
	669-9334	KF16-108/M16	4.25	2.0



Pole top caps

Pole clamps TS Series				D	lbs
for FLC200 Series	667-9320	TS1-2/M12	Pole clamp	Ø 3"-3.5"	3.31
	667-9321	TS1-2/M12	Pole clamp	Ø 4.0"-4.5"	3.31
	667-9322	TS1-2/M12	Pole clamp	Ø 4.5"-5.25"	3.75
	667-9323	TS2-2/M16	Pole clamp	Ø 4.5"-5.25"	3.53
	667-9348	TS2-2/M16	Pole clamp	Ø 3"-3.5"	3.09
	667-9349	TS2-2/M16	Pole clamp	Ø 4.0"-4.5"	3.31



Pole clamps TS1/TS2

Wall, pole and pole top mounting brackets for FLC200 series yoke mounted projectors. WMB and PMB brackets in marine-grade, die-cast aluminum alloy. TA brackets in hot dipped galvanized steel. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey metallic RAL 9007, white RAL 9016 or dark bronze RAL 8019. Specify finish. Consult WE-EF color chart for other color options.

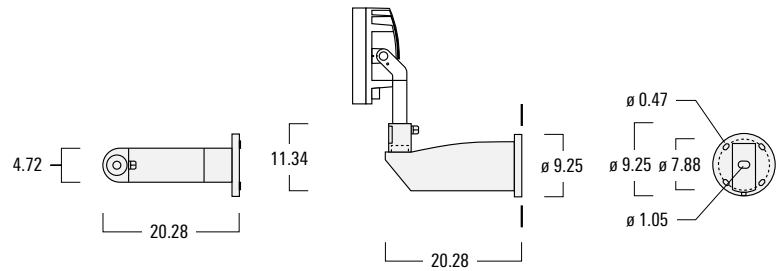
Wall mounting brackets			lbs
for FLC200	667-9339	WMB20	20.0

Assembly includes horizontal bracket, yoke mounting fitter, and wall mount canopy.
Suitable for wall mounting over a recessed junction box.

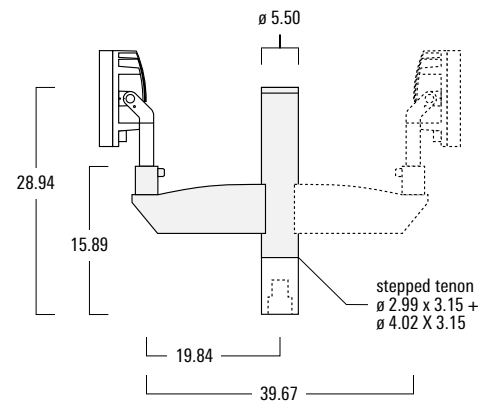
Pole mounting brackets			lbs
for (1) FLC200	667-9341	PMB200-1	38.0
for (2) FLC200	667-9342	PMB200-2	57.0

Assembly includes one or two horizontal brackets, yoke mounting fitter, and vertical pole extension.
Suitable for pole top mounting of one or two projectors.

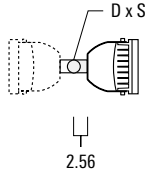
Pole mounting brackets			tenon	lbs
for (1) FLC200	667-9310	TA1-76	∅ 3.00 x 7.87 long	4.2
for (2) FLC200	667-9311	TA2-76	∅ 3.00 x 7.87 long	4.2
for (2) FLC200	667-9312	TA2-L-76	∅ 3.00 x 7.87 long	35.5
for (3) FLC200	667-9313	TA3-89	∅ 3.50 x 7.87 long	45.9
for (4) FLC200	667-9314	TA4-89	∅ 3.50 x 7.87 long	45.9
for (1) FLC200	667-9315	TA1-108	∅ 4.25 x 7.87 long	4.2
for (2) FLC200	667-9316	TA2-108	∅ 4.25 x 7.87 long	4.2
for (2) FLC200	667-9317	TA2-L-108	∅ 4.25 x 7.87 long	35.5
for (3) FLC240	667-9318	TA3-108	∅ 4.25 x 7.87 long	45.9
for (4) FLC240	667-9319	TA4-108	∅ 4.25 x 7.87 long	45.9



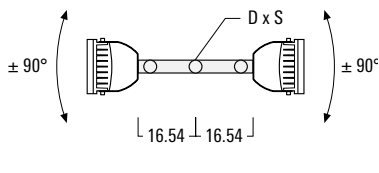
Wall mount bracket WMB



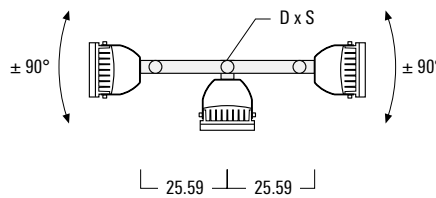
Pole mounted bracket PMB-1/PMB-2



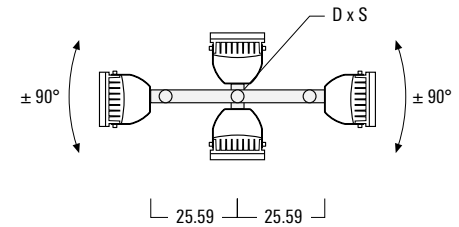
Mounting brackets TA1/TA2



Mounting brackets TA2-L



Mounting brackets TA3



Mounting brackets TA4

OPTICAL ACCESSORIES – FLC200 SERIES

Internal Accessories

A maximum of one internal optical accessory.

	for FLC220	for FLC230	for FLC240	for FLC260
Flood lens IO-360	667-8129	667-8120	667-8123	667-8126
Linear spread lens IO-180	667-8128	667-8119	667-8122	667-8125
Wallwash lens IO-20*	667-8127	667-8118	667-8121	667-8124
Honeycomb louvre IW	667-8209	667-8210	667-8211	667-8212

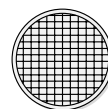
* ideal for uniform wall washing applications.

External Accessories**

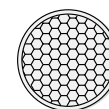
A maximum of one external optical accessory.

	for FLC220	for FLC230	for FLC240	for FLC260
Glare shield ES	667-9219	667-9221	667-9244	667-9264
Snoot ET	667-9220	667-9222	667-9245	667-9265

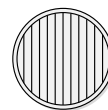
** External accessory must be specified during order placement.



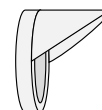
IO-360 Flood lens



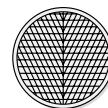
IW Honeycomb louvre



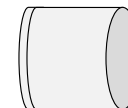
IO-180 Linear spread lens



ES Glare shield



IO-20 Wallwash lens



ET Snoot

WE-EF LIGHTING USA LLC

410 D Keystone Drive

Warrendale, PA 15086

U.S.A.

Tel +1 724 742 0030

Fax +1 724 742 0035

info.usa@we-ef.com

www.we-ef.com