

FL2C Series LED Flood Light



Specifications

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Supply Efficiency^[2]:	86~93%
Power Factor (PF)^[3]:	0.95
Surge Protection Level:	≥10kV line earth
Operating Environment:	-40℃~ +45℃, 10%~90%RH
Storage Environment:	-40℃~ +50℃, 10%~90%RH
Correlated Color Temperature (CCT):	3000K, 4000K, 5000K, 5700K
Color Rendering Index (CRI):	Ra≥70
IP Rating of Module:	IP68
IP Rating of Luminaire:	IP66/IP67
Main Housing:	Extruded aluminum

Features

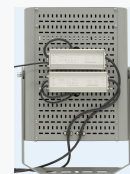
- Honeycomb and full-structure heat dissipation technology for superior cooling performance
- Dual-seal IP68 protection for reliable dust & water resistance
- Robust all-metal housing ensures long-lasting, dependable lighting
- Constant current output to significantly extend LED light source lifetime
- Ergonomic light distribution designs for uniform area illumination
- Flexible modular configuration and full power range solution
- High-quality surface treatment for premium durability & finish^[1]
- Standard angled mounting bracket to minimize light obstruction

Housing Colors

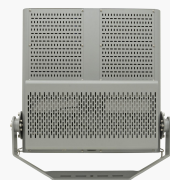
	BLACK		GRAY
	WHITE		

Photos

FL2C-1~8



FL2C-10~16



Applications

- Sports facilities (football fields, golf courses, etc.)
- Traffic hubs (airports, crossroads)
- Billboards & building facades

Note:

- [1] The product's specialized treatment allows for reliable performance in challenging conditions, including coastal and high-UV regions, and other unique environment.
 [2] Power supply efficiency is a typical value and is subject to actual measurements.
 [3] Power factor is a typical value and is subject to actual measurements.

Ordering Information

Example: FL2C-4-240- M66A -VBA-34-6534-7040-LU-MO-GY

Luminary Type	Qty. of Modules		System Power		Module Type	Installation Interface		LEDs Type		Cable Type	
FL2C	1	1 pcs	40	40W	M66A	V	V-shaped	A	3535	A	CCC+VDE
	2	2 pcs	50	50W				B	5050	H	UL
	...	...	...	...				C	3030	X	OTHER
	16	16 pcs	960	960W							

Qty. of LEDs per Module		Lens Code				CRI&CCT	
34	34 pcs	6534	25D	5535	40D	7030	Ra≥70, 3000K
90	90 pcs	6536	60D	5537	90D	7040	Ra≥70, 4000K
		6525	25D	5540	40D	7050	Ra≥70, 5000K
		6560	60D	5590	90D	7057	Ra≥70, 5700K

Brand of LEDs		Driver Brand		Housing Color	
LU	LUMILEDS	MO	MOSO	BK	Black
SN	SANAN	SS	SOSEN	WH	White
HP	HPWINNER	PH	PHILIPS	GY	Gray
XX	OTHER	IN	INVENTRONICS		
		XX	OTHER		

Note: Refer to Appendix 1 for detailed light distribution curves.

Performance

Model	Power (W)	3030 LEDs - 90 pcs		5050 LEDs - 34 pcs	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-1	40	148	5,920	173	6,920
	50	143	7,150	170	8,500
	60	138	8,280	167	10,020
FL2C-2	80	160	12,800	185	14,800
	100	155	15,500	182	18,200
	120	150	18,000	178	21,360
FL2C-3	120	160	19,200	185	22,200
	150	155	23,250	182	27,300
	180	150	27,000	178	32,040
FL2C-4	160	160	25,600	185	29,600
	200	155	31,000	182	36,400
	240	150	36,000	178	42,720
FL2C-5	200	160	32,000	185	37,000
	250	155	37,200	182	45,500
	300	150	45,000	178	53,400
FL2C-6	240	160	38,400	185	44,400
	300	155	46,500	182	54,600
	360	150	54,000	178	64,080
FL2C-7	280	160	44,800	185	51,800
	350	155	55,800	182	63,700
	420	150	63,000	178	74,760
FL2C-8	320	160	51,200	185	59,200
	400	155	62,000	182	72,800
	480	150	72,000	178	85,440

LED Flood Light

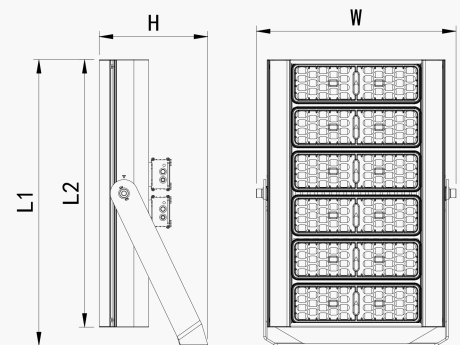
Model	Power (W)	3030 LEDs - 90 pcs		5050 LEDs - 34 pcs	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-10	400	160	64,000	185	74,000
	500	155	77,500	182	91,000
	600	150	90,000	178	106,800
FL2C-12	480	160	76,800	185	88,800
	600	155	93,000	182	10,9200
	720	150	108,000	178	128,160
FL2C-14	560	160	89,600	185	103,600
	700	155	108,500	182	127,400
	840	150	126,000	178	149,520
FL2C-16	640	160	102,400	185	118,400
	800	155	124,000	182	145,600
	960	150	144,000	178	170,880

Note: The above parameters are typical values, values shown are subject to $\pm 5\% \sim \pm 8\%$ tolerance. The luminous efficacy of a 3000K CCT is approximately 5% lower compared to a 4000K or higher CCT. The luminous efficacy of the 6534 lens (25D) is approximately 8% lower compared to other lenses.

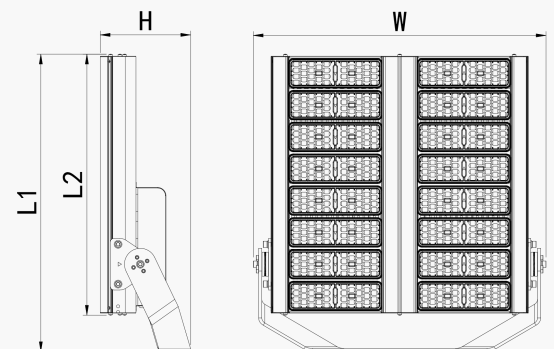
Product Dimensions

Model	L1 (mm)	L2 (mm)	W (mm)	H (mm)	N.W.(kg)
FL2C-1	180	95	360	128	3.5
FL2C-2	220	175	360	128	4.6
FL2C-3	300	255	360	128	5.9
FL2C-4	380	335	360	128	7.2
FL2C-5	480	415	360	197	9.4
FL2C-6	520	495	360	197	10.3
FL2C-7	600	575	360	197	11.8
FL2C-8	680	655	360	197	13
FL2C-10	510	420	740	230	22.3
FL2C-12	590	500	740	230	24.4
FL2C-14	670	580	740	230	26.9
FL2C-16	750	660	740	230	29.7

Note: The above parameters are typical values, with an actual measurement tolerance of 5%~8%.



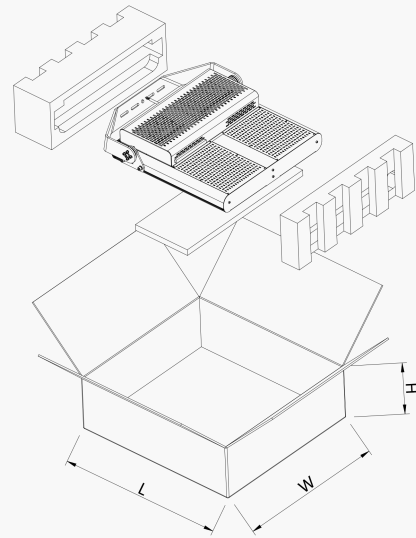
FL2C-1~8
FL2C-1~8



FL2C-10~16

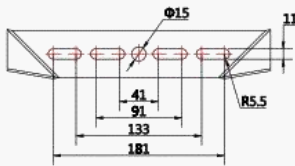
Packing Dimensions

Model	L (mm)	W (mm)	H (mm)	G.W.(kg)
FL2C-1	285	430	150	3.2
FL2C-2	285	430	230	4.5
FL2C-3	420	430	210	5.8
FL2C-4	500	430	210	7.0
FL2C-5	615	430	240	8.8
FL2C-6	660	430	240	10.4
FL2C-7	730	430	240	11.6
FL2C-8	810	430	240	12.6
FL2C-10	640	780	270	24.6
FL2C-12	720	780	270	26.9
FL2C-14	800	780	270	29.6
FL2C-16	840	780	270	32.6

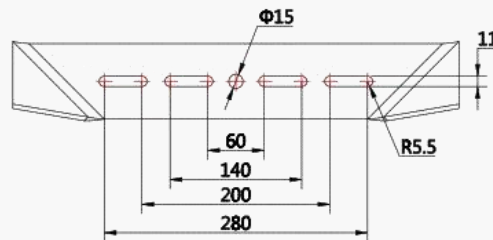


Note: The above parameters are typical values, with an actual measurement tolerance of 5%~8%.

Mounting Hole Diagram

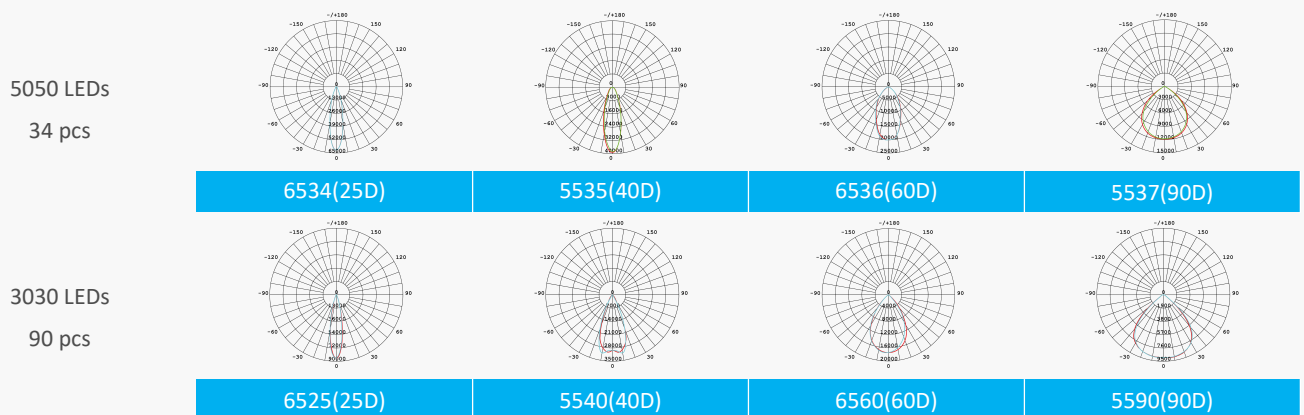


FL2C-1~8



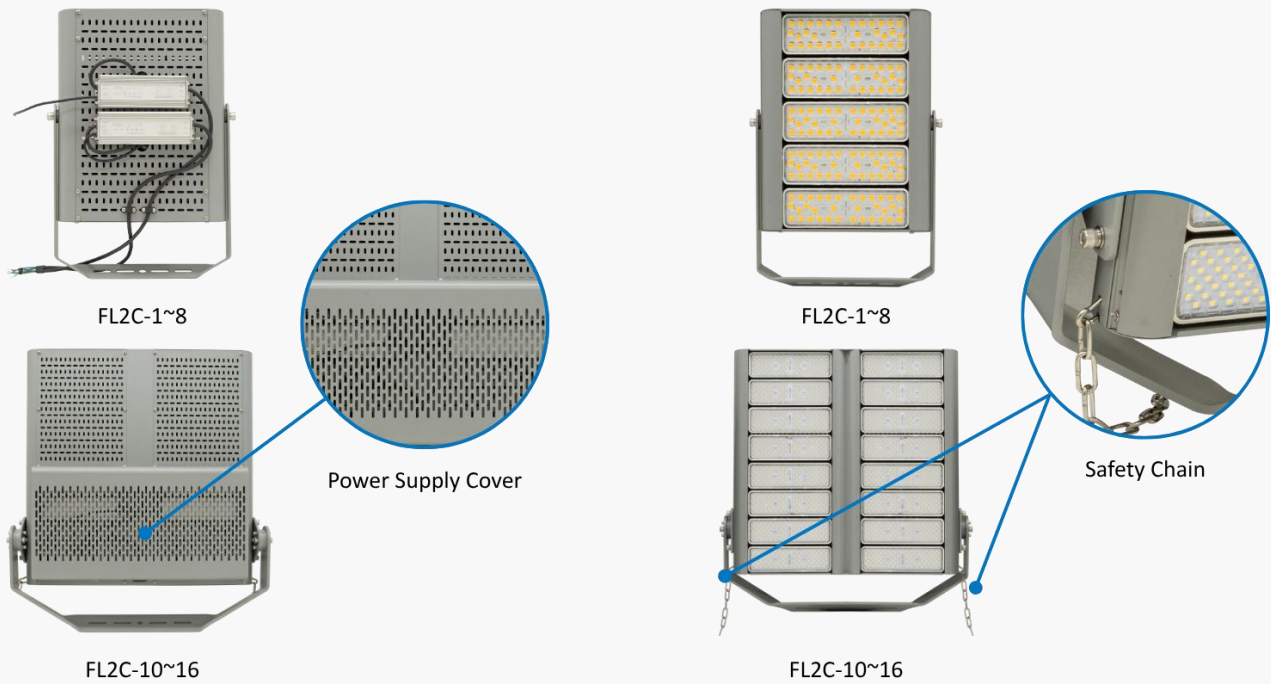
FL2C-10&12&14&16

Appendix 1: Light Distribution Curves



Appendix 2: Accessories

For FL2C-1~8, the power supply cover and the safety chain are optional; for FL2C-10~16, both are included as standard.



The data in the product specifications on the pages may be subject to change.
Please contact your dedicated account manager for the latest product details.

May, 2026