

FL2C

LED Flood Light



Specifications

Input Voltage:	200 ~ 480Vac
Input Frequency:	50/60Hz
Power Factor (PF):	0.95
Power Efficiency:	86%~93%
Surge Protection Level:	≥10kV line-earth
Operating Environment:	-40℃~+45℃, 10% ~ 90% RH
Color Temperature (CCT):	3000K, 4000K, 5000K, 5700K
Color Rendering Index (CRI):	≥70 ≥80 ≥90
Housing:	Aluminum
IP Rating of LED Light Engine:	IP68
IP Rating of Luminaire:	IP66/IP67
Dimming control options:	1-10V DALI

*Power efficiency is a typical value and is subject to actual measurements.

*Power factor is a typical value and is subject to actual measurements.

Applications

- Roadway lighting
(Urban roads, residential areas, overpasses...)
- Public areas lighting
(Theme parks, squares, parking lots...)

Features

Construction

- Whole structure heating dissipation design with efficient thermal conduction, radiation and convection
- Unique patented IP68 LED light engines
- Tool-less onsite replacement of light engines greatly reduces maintenance cost

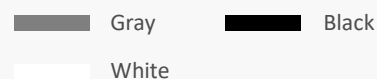
Electrical

- Flexible to reach desired power consumption up to 960W by choosing appropriate light engines

Optical

- Ergonomic and specialized lighting distributions available for various area lighting

Finishing Colors



FL2C

LED Street Light

Ordering Information

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

Luminary Type	Module Qty.	System Power	Module Type	Module Interface Type	LED Package	Cable Standard	LED Qty. per module
FL2C Flood Light	1 1 PCS	40 40W	M66A M66A module	V V-shaped	A 3030	A CCC+VDE	34 34pcs
	2 2 PCS	50 50W			B 5050	H UL	90 90pcs
						X OTHER	
	14 14 PCS	1000 1000W					
	16 16 PCS						
Lens Code		CRI & CCT		Brand of LEDs		Driver Brand	Housing Colors
6534 25D	5535 40D	7030 Ra≥70, 3000K		LU LUMILEDS	MO MOSO	BK Black	
6536 60D	5537 90D	7040 Ra≥70, 4000K		SN SANAN	SS SOSEN	WH White	
6525 25D	5540 40D	7050 Ra≥70, 5000K		HP HPWINNER	PH PHILIPS	GY Gray	
6560 60D	5590 90D	9057 Ra≥90, 5700K		XX OTHER	IN INVENTRONICS		
					XX OTHER		

Performance 3030LED

Model	Power (W)	CRI70,		CRI80,		CRI90,	
		3000K/4000K/5000K/5700K		3000K/4000K/5000K/5700K		3000K/4000K/5000K/5700K	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-1	40	148	5920	133	5320	127	5080
	50	143	7150	127	6350	121	6050
	60	138	8280	121	7260	115	6900
FL2C-2	80	160	12800	146	11680	138	11040
	100	155	15500	139	13900	131	13100
	120	150	18000	132	15840	125	15000
FL2C-3	120	160	19200	146	17520	138	16560
	150	155	23250	139	20850	131	19650
	180	150	27000	132	23760	125	22500
FL2C-4	160	160	25600	146	23360	138	22080
	200	155	31000	139	27800	131	26200
	240	150	36000	132	31680	125	30000
FL2C-5	200	160	32000	146	29200	138	27600
	250	155	37200	139	34750	131	32750
	300	150	45000	132	39600	125	37500
FL2C-6	240	160	38400	146	35040	138	33120
	300	155	46500	139	41700	131	39300
	360	150	54000	132	47520	125	45000
FL2C-7	280	160	44800	146	40880	138	38640
	350	155	55800	139	48650	131	45850
	420	150	63000	132	55440	125	52500
FL2C-8	320	160	51200	146	46720	138	44160
	400	155	62000	139	55600	131	52400
	480	150	72000	132	63360	125	60000

*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

*Values shown are subject to ±5%~±8% tolerance.

*6534 lens (25D) is about 8% less efficient than other 5050 lenses.

FL2C

LED Street Light

(Continued from the table above)

Model	Power (W)	CRI70,		CRI80,		CRI90,	
		3000/4000/5000/5700K		3000/4000/5000/5700K		3000/4000/5000/5700K	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-10	400	160	64000	146	58400	138	55200
	500	155	77500	139	69500	131	65500
	600	150	90000	132	79200	125	75000
FL2C-12	480	160	76800	146	70080	138	66240
	600	155	93000	139	83400	131	78600
	720	150	108000	132	95040	125	90000
FL2C-14	560	160	89600	146	81760	138	77280
	700	155	108500	139	97300	131	91700
	840	150	126000	132	110880	125	105000
FL2C-16	640	160	102400	146	93440	138	88320
	800	155	124000	139	111200	131	104800
	1000	144	144000	132	132000	125	125000

*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

*Values shown are subject to $\pm 5\%$ ~ $\pm 8\%$ tolerance.

*6534 lens (25D) is about 8% less efficient than other 5050 lenses.

5050LED

Model	Power (W)	CRI70,		CRI80,		CRI90,	
		3000K/4000K/5000K/5700K		3000K/4000K/5000K/5700K		4000K/5000K/5700K	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-1	40	173	6920	155	6200	147	5880
	50	170	8500	147	7350	140	7000
	60	167	10020	140	8400	133	7980
FL2C-2	80	185	14800	170	13600	157	12560
	100	182	18200	161	16100	150	15000
	120	178	21360	153	18360	145	17400
FL2C-3	120	185	22200	170	20400	157	18840
	150	182	27300	161	24150	150	22500
	180	178	32040	153	27540	145	26100
FL2C-4	160	185	29600	170	27200	157	25120
	200	182	36400	161	32200	150	30000
	240	178	42720	153	36720	145	34800
FL2C-5	200	185	37000	170	34000	157	31400
	250	182	45500	161	40250	150	37500
	300	178	53400	153	45900	145	43500
FL2C-6	240	185	44400	170	40800	157	37680
	300	182	54600	161	48300	150	45000
	360	178	64080	153	55080	145	52200

FL2C

LED Street Light

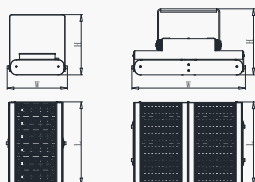
(Continued from the table above)

Model	Power (W)	CRI70,		CRI80,		CRI90,	
		3000K/4000K/5000K/5700K		3000K/4000K/5000K/5700K		4000K/5000K/5700K	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
FL2C-7	280	185	51800	170	47600	157	43960
	350	182	63700	161	56350	150	52500
	420	178	74760	153	64260	145	60900
FL2C-8	320	185	59200	170	54400	157	50240
	400	182	72800	161	64400	150	60000
	480	178	85440	153	73440	145	69600
FL2C-10	400	185	74000	170	68000	157	62800
	500	182	91000	161	80500	150	75000
	600	178	106800	153	91800	145	87000
FL2C-12	480	185	88800	170	81600	157	75360
	600	182	109200	161	96600	150	90000
	720	178	128160	153	110160	145	104400
FL2C-14	560	185	103600	170	95200	157	87920
	700	182	127400	161	112700	150	105000
	840	178	149520	153	128520	145	121800
FL2C-16	640	185	118400	170	108800	157	100480
	800	182	145600	161	128800	150	120000
	1000	170	170000	153	153000	145	145000

Dimensions

Model	L (mm)	W (mm)	H (mm)	N.W.* (kg)
FL2C-1	95	360	200	3.5
FL2C-2	175	360	200	4.6
FL2C-3	255	360	260	5.9
FL2C-4	335	360	260	7.2
FL2C-5	415	360	360	9.4
FL2C-6	495	360	360	10.3
FL2C-7	575	360	360	11.8
FL2C-8	655	360	360	13
FL2C-10	415	680	395	28.8
FL2C-12	495	680	395	31.2
FL2C-14	575	680	395	34.2
FL2C-16	655	680	395	36.3

* Values shown are subject to ±5% tolerance.



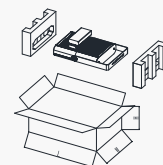
1~8 modules

10/12/14/16 modules

Package Information

Model	L (mm)	W (mm)	H (mm)	G.W.* (kg)
FL2C-1	285	430	150	4.1
FL2C-2	295	430	185	5.3
FL2C-3	395	430	185	6.7
FL2C-4	430	430	185	8.2
FL2C-5	570	430	220	10.8
FL2C-6	625	430	220	11.8
FL2C-7	655	430	220	13.3
FL2C-8	705	430	220	14.6
FL2C-10	770	510	335	31.8
FL2C-12	770	590	335	34.7
FL2C-14	770	670	335	38.1
FL2C-16	770	750	335	40.6

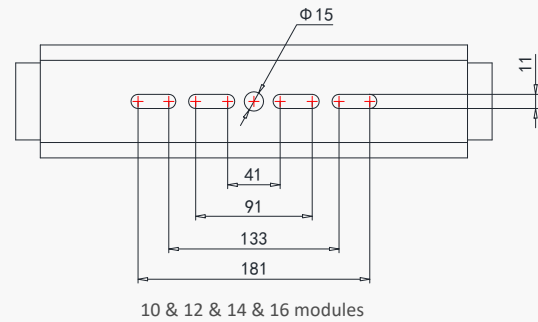
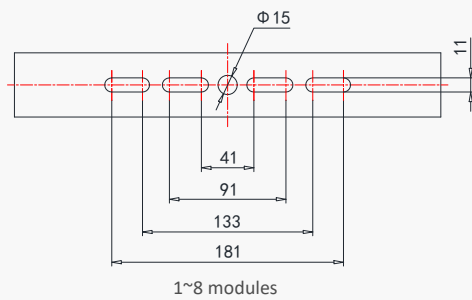
* Values shown are subject to ±5% tolerance.



FL2C

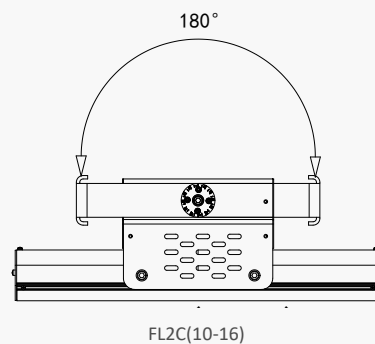
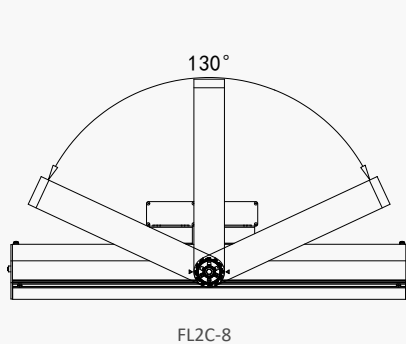
LED Street Light

Hole Mounting Diagram



Product Information

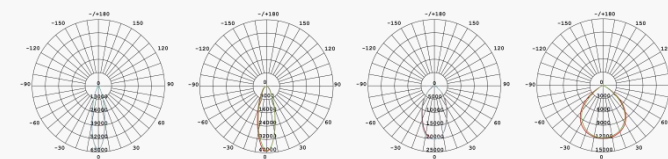
Angle Adjustment Diagram



*The installation angle range for 1~7 modules is 360 °

Distributions

5050 LEDs
34pcs



3030 LEDs
90pcs

