

FL2C

LED Flood Light



Specifications

Input Voltage:	100 ~ 240Vac
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:	Extrusion, Galvanized Steel
IP Rating of LED Light Engine:	IP68
IP Rating of Luminaire:	IP66/IP67

*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



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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 B 5050	A CCC+VDE H UL X OTHER	34 34pcs
	2 2 PCS	50 50W					90 90pcs
	...	...					
	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.

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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

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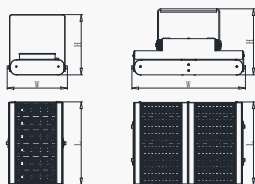
(Continued from the table above)

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.



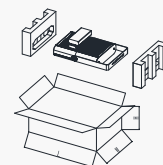
1~8 modules

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

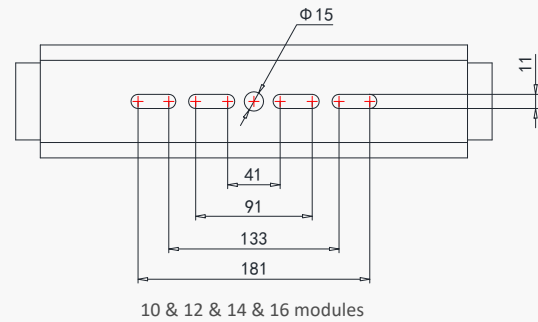
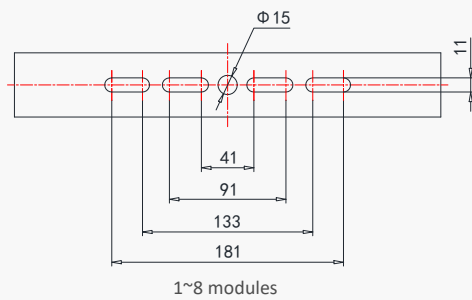
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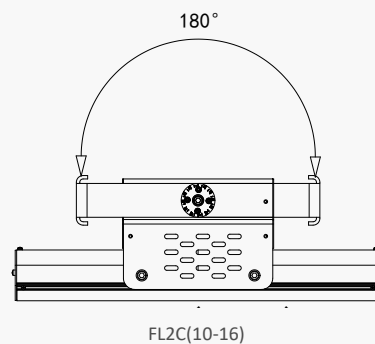
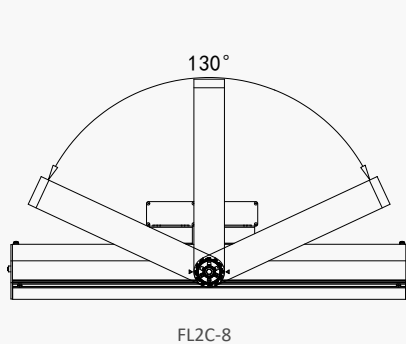
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Hole Mounting Diagram



Product Information

Angle Adjustment Diagram



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

Distributions

