HIGH MAST FLOOD LIGHTING
MODEL : FL- 2C

APPLICATIONS

- Sports facilities (stadium, football field, golf course....)
- Traffic arteries (airport, crossroad….)
- Advertisement (wall, billboard….)

SPECIFICATION

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Factor:	0.95
Surge Protection Level:	10kV line-earth
Working Environment:	-40℃~ +50℃, 10% ~ 90%
CCT:	3000K-5700K
CRI:	≥70
Housing	Extrusion, Galvanized Steel
IP Rating of LED Engine	IP68
IP Rating of LED Driver	IP67
Warranty	5 Years Limited
Impact Resistance	IK09

FEATURES

Construction

- Unique patented IP68 LED light engines.
- Whole structure heating dissipation design with best thermal conduction and radiation and convection.
- 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.

PHOTOS

FL2C-1/ 2/ 3/ 4/ 5/ 6/ 7/ 8

FL2C-10/ 12/ 14/ 16

FINISHING COLORS

	Gray		Black
	White		Blue

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177 Park Ave, #200, San Jose CA 95113

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ORDERING INFORMATION

Example: FL2C-4-240-M16B-BA-28-3160-7040-CM-MO-GY

Luminaire Type	Module Qty	System Power	LED Module	LED Package	Cable Standard	LED Qty per Module
FL Flood light	**1** 1 module	**40** 40W	**M1A** M1A module	**A** 3535	**A** CCC+VDE	**18** 18pcs
	2 2 modules	**50** 50W	**M2A** M2A module		**C** PSE	
2C 2C series	**8** 8 modules	**60** 60W	**M8B** M8B module	**C** 3030	**H** UL	**63** 63pcs
	10 10 modules	**300** 300W			**X** Others	
	12 12 modules		**M16B** M16B module	**B** 5050		**18** 18pcs
	14 14 modules	**600** 600W				**28** 28pcs
	16 16 modules	**960** 960W				

Lens Code				CRI & CCT	Brand of LEDs	Driver Brand	Housing Color
1010 110degree				**7030** Ra≥70, CCT 3000K	**LU** LUMILEDS	**IN** INVENTRONICS	**BK** Black
3040 Type Vs Short				**7040** Ra≥70, CCT 4000K	**CM** LUMILEDS	**MO** MOSO	**WH** White
1908 12 degree	**3560** 60 degree			**7050** Ra≥70, CCT 5000K	Customized	**PH** PHILIPS	
3725 25 degree	**3590** 90 degree			**7057** Ra≥70, CCT 5700K	**SS** SAMSUNG	**MW** MEAN WELL	**BU** Blue
3540 40 degree	**3030** 110x40 degree				**NI** NICHIA	**AD** ADAYO	**GY** Gray
1325 25 degree	**5390** 90 degree				**CR** CREE	**XX** Others	
5340 40 degree	**1310** Lambertian type				**LN** LUMINUS		
2360 60 degree					**XX** Others		
3125 25 degree	**2114** Type V Short						
3140 40 degree	**2040** Type V Short						
3160 60 degree	**1113** Type III Short						
2190 90 degree	**2212** Sport lighting						
2211 90x40 degree	**2501** 60x60 degree						
2310 Lambertian type	**2502** 80x80 degree						
3504 80x40 degree	**2503** 80x50 degree						
3505 70x30 degree							

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PERFORMANCE

Model	Power (W)	Module M1A/M2A-VA-18		Module M8B-VC-63		Module M16B-VB-18		Module M16B-VB-28	
		Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)
FL2C-1	40	130	5200	135	5400	152	6080	168	6720
	50	122	6100	130	6500	145	7250	163	8150
	60	117	7020	122	7320	133	7980	155	9300
FL2C-2	80	137	10960	140	11200	160	12800	175	14000
	100	130	13000	135	13500	150	15000	170	17000
	120	122	14640	127	15240	140	16800	163	19560
FL2C-3	120	137	16440	140	16800	160	19200	175	21000
	150	130	19500	135	20250	150	22500	170	25500
	180	122	21960	127	22860	140	25200	163	29340
FL2C-4	160	137	21920	140	22400	160	25600	175	28000
	200	130	26000	135	27000	150	30000	170	34000
	240	122	29280	127	30480	140	33600	163	39120
FL2C-5	200	137	27400	140	28000	160	32000	175	35000
	250	130	32500	135	33750	150	37500	170	42500
	300	122	36600	127	38100	140	42000	163	48900
FL2C-6	240	137	32880	140	33600	160	38400	175	42000
	300	130	39000	135	40500	150	45000	170	51000
	360	122	43920	127	45720	140	50400	163	58680
FL2C-7	280	137	38360	140	39200	160	44800	175	49000
	350	130	45500	135	47250	150	52500	170	59500
	420	122	51240	127	53340	140	58800	163	68460
FL2C-8	320	137	43840	140	44800	160	51200	175	56000
	400	130	52000	135	54000	150	60000	170	68000
	480	122	58560	127	60960	140	67200	163	78240

Model	Power (W)	Module Efficacy (lm/W)	M1A/M2A Flux (lm)	Modu le M8B Efficacy (lm/W)	Flux (lm)	Module Efficacy (lm/W)	16B-VB-18 Flux (lm)	Module M16B-VB-28 Efficacy (lm/W)	Flux (lm)
FL2C-10	400	137	54800	140	56000	160	64000	175	70000
	500	130	65000	135	67500	150	75000	170	85000
	600	122	73200	127	76200	140	84000	163	97800
FL2C-12	480	137	65760	140	67200	160	76800	175	84000
	600	130	78000	135	81000	150	90000	170	102000
	720	122	87840	127	91440	140	100800	163	117360
FL2C-14	560	137	76720	140	78400	160	89600	175	98000
	700	130	91000	135	94500	150	105000	170	119000
	840	122	102480	127	106680	140	117600	163	136920
FL2C-16	640	137	87680	140	89600	160	102400	175	112000
	800	130	104000	135	108000	150	120000	170	136000
	960	122	117120	127	121920	140	134400	163	156480

Notes:

1. Values shown are subject to ±5%~±8% tolerance.
2. Efficacy of Ra70 3000K is 5% lower than other CCT≥4000K.

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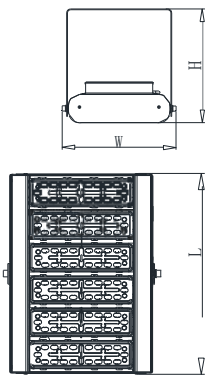
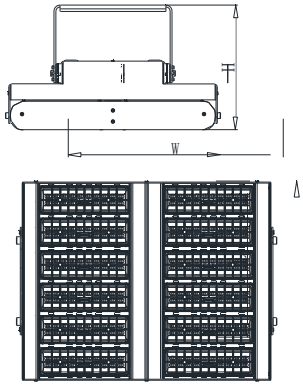
PRODUCT DIMENSIONS

Modal	L	W	H	N.W
FL2C-1	430	265	150	4.1
FL2C-2	430	265	230	5.4
FL2C-3	430	335	330	7.0
FL2C-4	475	430	210	8.5
FL2C-5	615	430	240	11.0
FL2C-6	660	430	240	12.0
FL2C-7	695	430	240	13.5
FL2C-8	785	430	260	14.8
FL2C-10	770	510	335	31.9
FL2C-12	770	590	335	34.8
FL2C-14	770	670	335	38.2
FL2C-16	770	750	335	40.7

FL2C-1/ 2/ 3/ 4/ 5/ 6/ 7/ 8



FL2C-10/ 12/ 14/ 16



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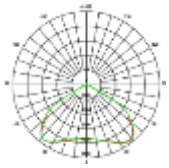
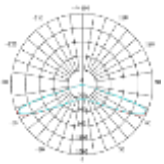
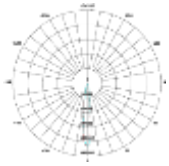
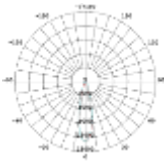
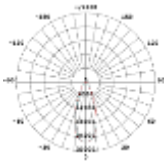
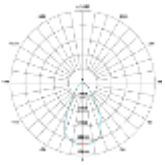
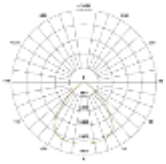
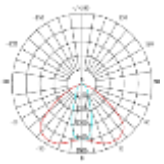
TYPICAL DISTRIBUTIONS

Module M1A

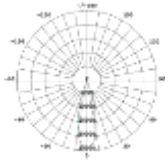
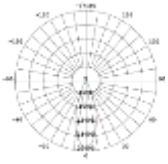
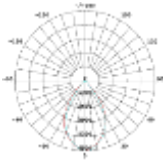
110D1010	T5S3040

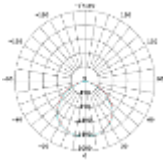
Module M2A

12D1908	25D3725	40D3540	60D3560	90D3590	110x40D3030

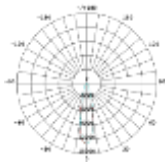
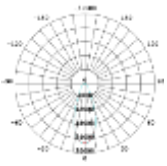
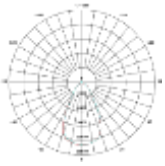
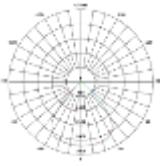
Module M8B

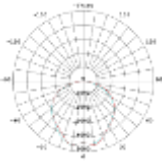






25D1325	40D5340	60D2360	90D5390	LBN1310

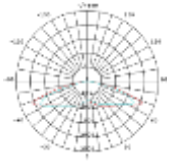
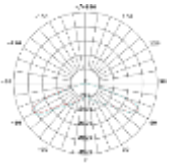
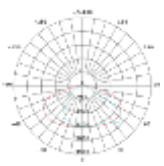
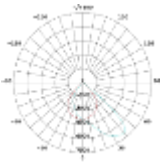
Module M16B



25D3125	40D3140	60D3160	90D2190	90Dx40D2211	LBN2310

Module M16B

T5S2114	T5S2040	T3S1113	Sport lighting 2212

Module M16B





60Dx60D2501	80Dx80D2502	80Dx50D2503	80Dx40D3504	70Dx30D3505

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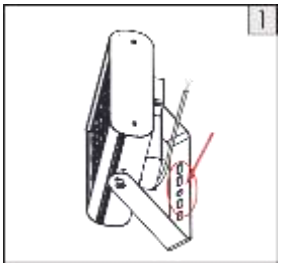
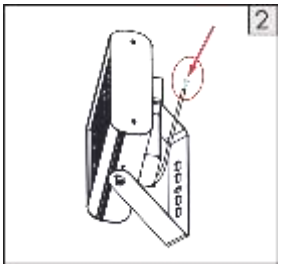
INSTALLATION AND MAINTENANCE

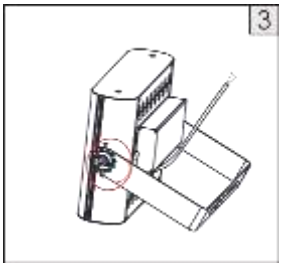
INSTALLATION (1-8 SERIES)



1. Mount the fixture to the mounting surface.(recommend M10 screws)

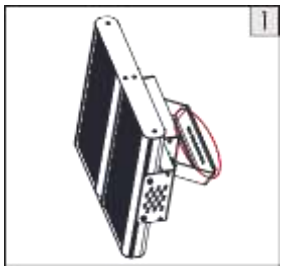


2. Connect the wires to AC input. Make sure it sufficiently grounded.

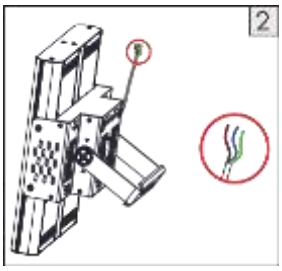


3. Loosen the screws on the sides. Adjust the body to a right angle. Tighten up the screws.

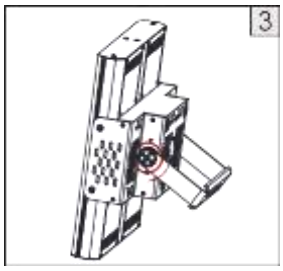
INSTALLATION (4-16 SERIES)



1. Mount the fixture to the mounting surface.(recommend M12 screws)

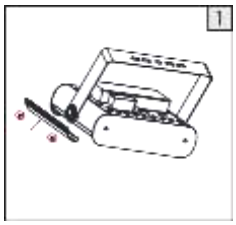


2. Connect the wires to AC input. Make sure it sufficiently grounded.

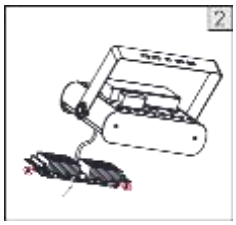


3. Loosen the screws on the sides. Adjust the body to a right angle. Tighten up the screws.

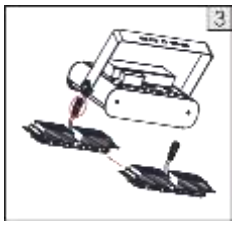
MAINTENANCE (1-8 SERIES)



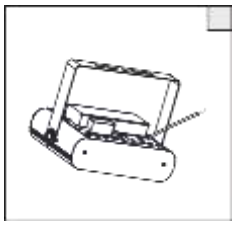
1. Undo the two screws on the side boards to remove the boards.



2. Undo the the two screws on the ends of the module. Take out the module.



3. Disconnect the cable connector. Replace with a new module.



4. Install the new module and fixate the side boards back.

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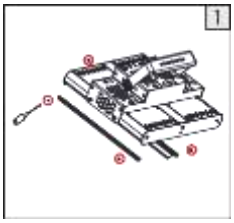
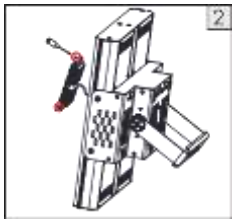
INSTALLATION AND MAINTENANCE

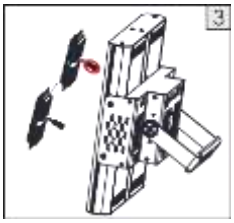
MAINTENANCE (4-16 SERIES)



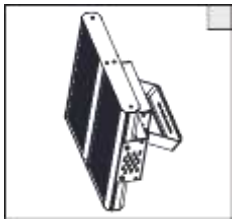
1. Undo the two screws on the side boards to remove the boards.



2. Undo the the two screws on the ends of the module. Take out the module.

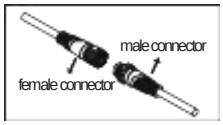


3. Disconnect the cable connector. Replace with a new module.

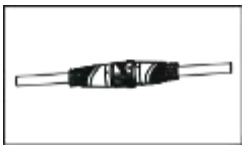


4. Install the new module and fixate the side boards back.

CABLE CONNECTORS



1. Connect the male and female connectors by aligning the indicative arrow on them.



2. Hold the nut on one terminal still, meanwhile, rotating clockwise till the one on the other terminals is tightened up.Otherwise thewaterproof performance might be affected.

WIRING

Power Supply End	Earth wire	Neutral wire	Live wire
Fixture End	Yellow-green lead	Blue lead	Brown lead
	Green lead	White lead	Black lead

CAUTION

Disconnect or turn off power before installation, maintenance and wiring.

Cable connection must be insulated and waterproof.
For luminaires with glass cover: the cover is made of tempered glass which shatters into small pieces without sharp edges when it breaks. Application condition: -30°C~100°C; maximum temperature rise ∆t60°C.

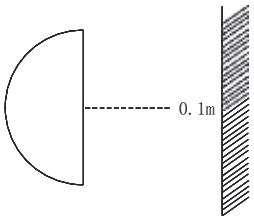
INSTALLATION AND MAINTENANCE

Warning: Danger! Electric shock risk!

(via IEC 60417-6042（2011-11）)

For luminaires with glass cover: The broken cover should be replaced. Rectangle

Minimum distance from the light source to the illuminated object: 0.1m.



The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use.
the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling

REMARKS:

1.This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint andelimination of tensile force there should be ensured.ufficient.
2.This luminaire uses type Z attachment: the external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.
3.Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
4.The luminaire can be mounted onto ordinary combustible surfaces.

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