



SPECIFICATION

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Factor:	0.95
Surge Protection Level:	10kV line-earth
Working Environment:	-40°C~ +50°C, 10% ~ 90% RH
CCT:	3000K-5700K
CRI:	≥70
Housing	Extrusion, Galvanized Steel
IP Rating of LED Light Engine	IP68
IP Rating of LED Driver:	IP67
Warranty	5 Years Limited
Impact Resistance	IK08

APPLICATIONS

- Public places (park, square....)
- Advertisement (wall, billboard....)

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.

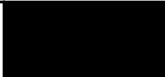
Optical

- Ergonomic and specialized lighting distributions available.

Installation

- Tilt bracket avoids light blocking by itself.
- Bracket adjustable within $\pm 90^\circ$ with steps by 15° .

FINISHING COLORS

	Gray		Black
	White		Dark Gray

PHOTOS



ORDERING INFORMATION

Example: FL12A-2-100-M8B-CA-63-2360-7040-LU-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		
12A	12A series	3	3 modules	60	60W	M8B	M8B module	C	3030	H	UL	63	63pcs
				80	80W	M16B	M16B module	B	5050	X	Others	18	18pcs
				100	100W							28	28pcs
				120	120W								
				150	150W								
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	BU	Blue
3725	25 degree	3590		90 degree	7057	Ra≥70, CCT	5700K	SS	SAMSUNG	MW	MEAN WELL	GY	Gray
3540	40 degree	3030		110x40 degree				NI	NICHIA	AD	ADAYO		
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	2212		Type II Short									
2190	90 degree	1113		Type III Short									
2211	90x40 degree	2501		60x60 degree									
2310	Lambertian type	2502		80x80 degree									
3504	80x40 degree	2503		80x50 degree									
3505	70x30 degree												

PERFORMANCE

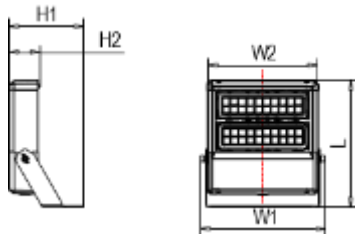
Model	Power (W)	Module M1A/M2A-VA-18		Module M8B-VC-63		Module M16B-VB-18		Module M16B-VB-28	
		Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)
FL12A-1	40	130	5200	135	5400	152	6080	168	6720
	50	122	6100	130	6500	145	7250	163	8150
	60	117	7020	122	7320	133	7980	155	9300
FL12A-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
FL12A-3	120	137	16440	140	16800	160	19200	175	21000
	150	130	19500	135	20250	150	22500	170	25500

Notes:

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

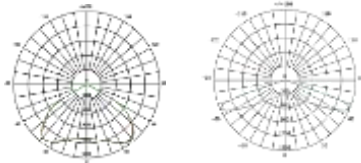
PRODUCT DIMENSIONS

Model	L(mm)	W1(mm)	W2(mm)	H1(mm)	H2(mm)	N.W.(kg)
FL12A-1	250	325	285	200	80	3.6
FL12A-2	330	320	285	200	80	5.0
FL12A-3	410	325	285	200	80	6.4



TYPICAL DISTRIBUTIONS

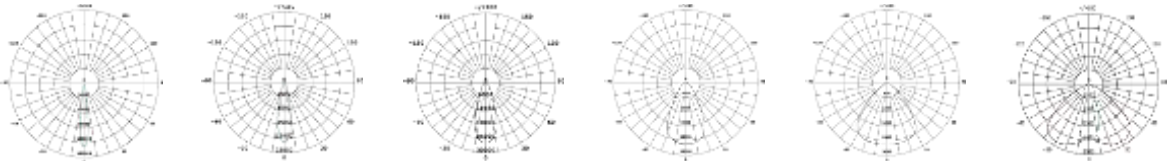
Module
M1A



110D1010

T5S3040

Module
M2A



12D1908

25D3725

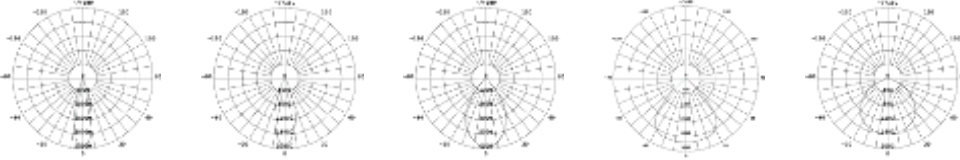
40D3540

60D3560

90D3590

110x40D3030

Module
M8B



25D1325

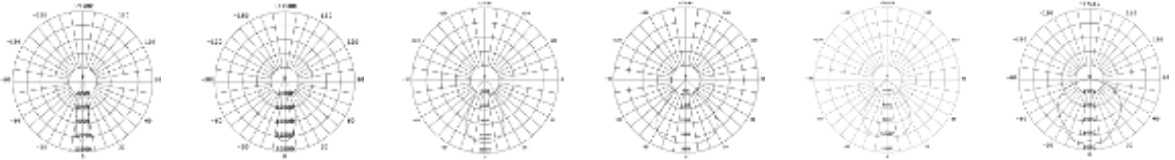
40D5340

60D2360

90D5390

LBN1310

Module
M16B



25D3125

40D3140

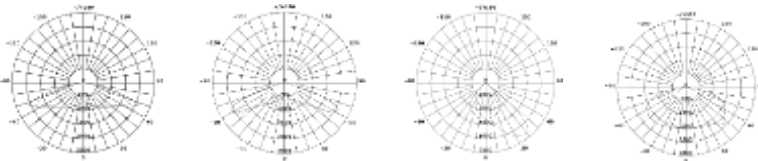
60D3160

90D2190

90Dx40D2211

LBN2310

Module
M16B



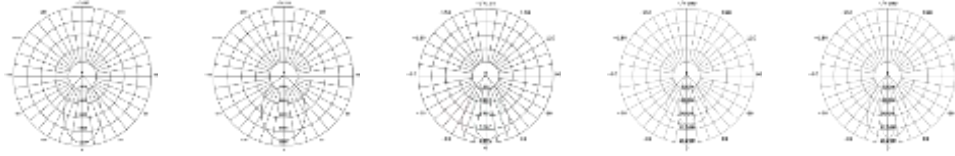
T5S2114

T5S2040

T2S2212

T3S1113

Module
M16B



60Dx60D2501

80Dx80D2502

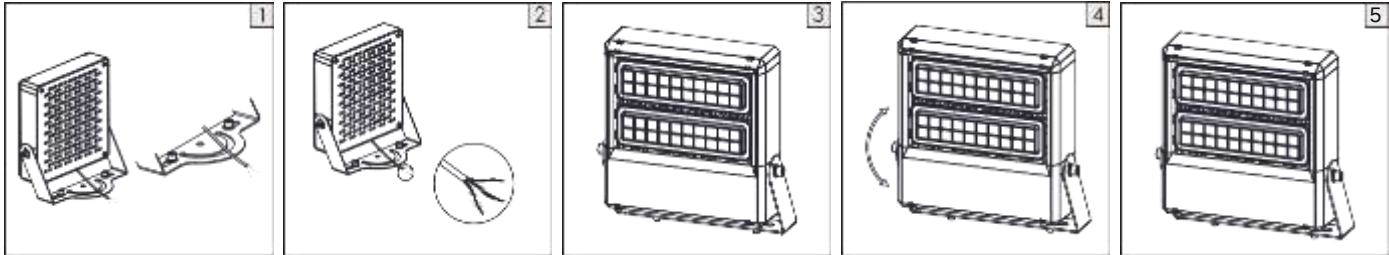
80Dx50D2503

80Dx40D3504

70Dx30D3505

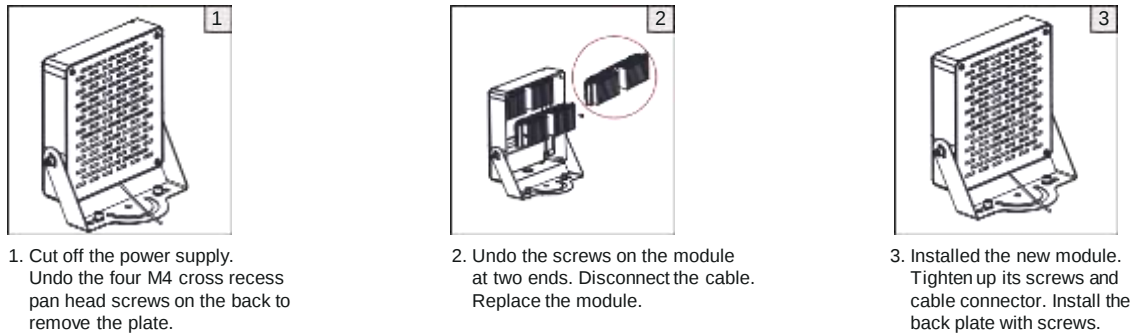
INSTALLATION AND MAINTENANCE

INSTALLATION



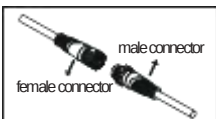
1. Mount the luminaire with M10 screws (not provided) at bracket.
2. Connect wires to L, N, and G of AC input correctly. Make sure it grounded sufficiently.
3. Loosen the M10 screws on bracket at sides.
4. Adjust the luminaire to the right angle.
5. Tighten up the screws at sides. Installation finished.

MAINTENANCE



1. Cut off the power supply. Undo the four M4 cross recess pan head screws on the back to remove the plate.
2. Undo the screws on the module at two ends. Disconnect the cable. Replace the module.
3. Installed the new module. Tighten up its screws and cable connector. Install the back plate with screws.

CABLE CONNECTION



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 the waterproof 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

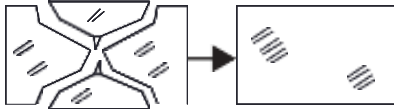
CAUTION

Disconnect or turn off power before installation, maintenance and wiring.
Cable connection must be insulated and waterproof.

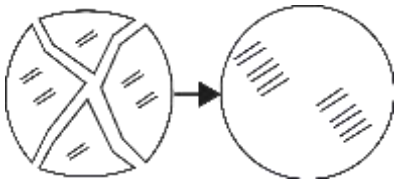
For luminaires with glass cover: the cover is made of tempered glass which shatters into small pieces without sharp edges when it breaks. Application condition: -30°C~100°C; maximum temperature rise $\Delta t \leq 60^\circ\text{C}$.

INSTALLATION AND MAINTENANCE

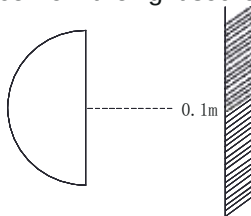
For luminaires with glass cover: The broken cover should be replaced. Rectangle.



Round



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 and elimination of tensile force there should be ensured.
- 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.