



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:	≥60, ≥70
Housing	Extrusion, Galvanized Steel
IP Rating of LED Light Engine	IP68
IP Rating of LED Light Engine Compartment	IP66
IP Rating of LED Light Electrical Compartment	IP66
Warranty	5 Years Limited

FINISHING COLORS

	Gray		Black
	White		Blue

APPLICATIONS

- Large outdoor space lighting (stadium, airport, parking lot....)
- High-mast lighting

FEATURES

Construction

- High reliable structure specialized in airport parking apron lighting, and general flood lighting.
- Integrated die-cast aluminum housing for high efficient thermal management.
- Unique patented IP68 LED light engines.
- Tempered glass cover good for protection and cleaning.
- IP66 driver box for protection and flexible installation.

Electrical

- Compatible for general flood lighting.

Optical

- Airport-parking-apron-lighting oriented lighting distribution

Installation

- Bracket adjustable within 360° with steps by 7.5°.
- Stainless steel bracket by option for harsh environment.
- Laser sight available by option for precise targeting.

PHOTOS



8 separate lenses for possibility of various lighting distributions



Heat-sink integrated structure mounted with IP66 driver box



Adjustable bracket with a dial

ORDERING INFORMATION

Example: FL18A-N8-500-BA-24-2225-7040-CM-IN-GY

Luminaire Type		Module Qty		System Power		LED Package	Cable Standard	LED Qty per Module
FL	Flood light	N8	8 Optical set	320	320W	A 3535 LEDs	A CCC+VDE	24 24pcs
18A	18A series			400 500	400W 500W	B 5050 LEDs	C PSE H UL X OTHER	
Lens Code		CRI & CCT		Brand of LEDs		Driver Brand	Housing Color	
2012	12 degree	6023	Ra≥60, 2300K	LU LUMILEDS		IN INVENTRONICS	BK Black	
2318	Sports lighting	7030	Ra≥70, 3000K	CM LUMILEDS Customized		XX OTHERS	WH White	
2225	25 degree	7040 7050 7057	Ra≥70, 4000K Ra≥70, 5000K Ra≥70, 5700K	XX OTHERS			BU Blue GY Gray	

PERFORMANCE

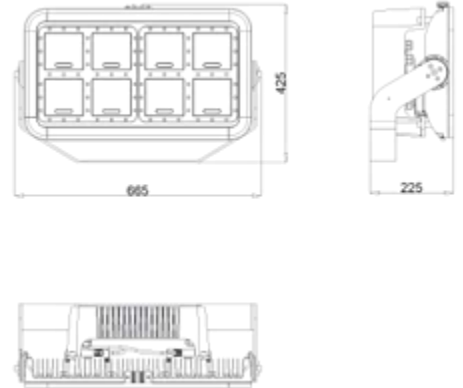
Model	Power (W)	Luxeon TX (3535) LEDs		Lumileds Customized (5050) LEDs		CRI	CCT
		Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)		
FL18A	320	121	38,720	147	47,040	≥ 70	4000
	400	117	46,800	140	56,000		5000
	500	112	56,000	135	67,500		5700

Notes:

- Values shown are subject to ±5%~±8% tolerance, based on 90% transmittance through tempered glass
- Efficacy of Ra60 2300K is 10% lower than CCT≥4000K. Efficacy of Ra70 3000K is 5% lower than other CCT≥4000K.

PRODUCT DIMENSIONS

Power	L (mm)	W (mm)	H (mm)	N.W. 1* (kg)	N.W. 2* (kg)
320W	665	425	225	16.3	21.2
400W					21.7
500W					22.8

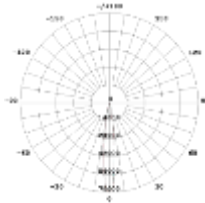


Notes:

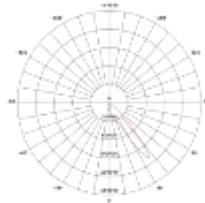
1. Typical values above subject to tolerance of 5%.
2. N.W. 1 refers to the main fixture; N.W. 2 refers to the main fixture plus the driver box. The driver box can be installed on the main body or separated by option.

TYPICAL DISTRIBUTIONS

3535 LEDs

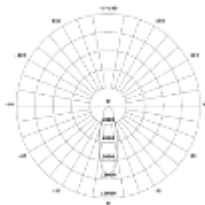


12D2012



Sport Lighting 2318

5050 LEDs



25D2225

INSTALLATION AND MAINTENANCE

INSTALLATION



1. Mount the luminaire. Fixate the bracket with fastened screws.



2. Loosen the biggest screw in the middle on the sides of bracket. Adjust to a proper angle. Fasten the screws.

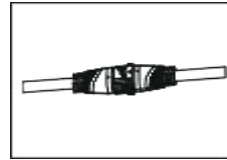


3. Connect the wires with power supply input correctly. Keep the connection junction waterproof. Installation finished.

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 luminaries 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 $\Delta t 60^{\circ}\text{C}$.

The light source of this luminaries is not replaceable. When the light source's lifetime comes to an end, it is the whole luminaries that should be replaced.

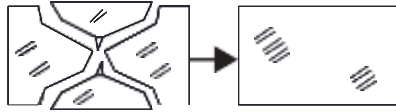
INSTALLATION AND MAINTENANCE

Warning: Danger! Electric shock risk!

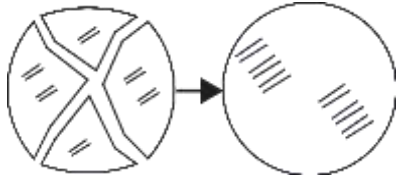
(via IEC 60417-6042 (2011-11))



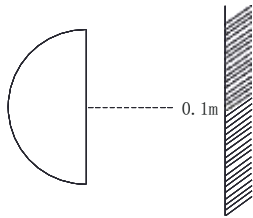
For luminaires with glass cover: The broken cover should be replaced. Rectangle



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. Efficient.
- 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.
- 5.The type of insulation between LV power supply and conductor control are listed as follows. The insulation maintenance can also rely on other external components(product) that connected to the same control bus. It is the responsibility of the control system designer, but not the luminaire manufacturer.
 - FELV control signal and LV power supply: basic insulation.
 - SELV control signal and LV power supply: reinforced insulation or double insulation.