

# TITAN 720

Highly efficient LED floodlight designed specifically for high mast and large area lighting.

Electronic, LED control gear driving 96 LEDs at 2.1A with asymmetrical distribution. IP67, Class I protection with 15kA Surge Protection.

Body: recyclable, extruded aluminium and powder-coated steel. Optic Enclosure: PMMA Weather-proof lenses. Reversible mounting bracket supplied, optional spigot adaptors available separately for post-top mounting.



CE LED IP67  

## Technical data

### Performance

Nominal Flux:	87,000 lm
Net Flux:	80,555 lm
Power Absorption:	705W

### Optoelectronics

LED Type:	CREE XP-L
Circuit Board:	MPCB 1.6 mm
CRI:	$70 \leq R \leq 90$
Luminous Eff Loss:	< 1% per annum
Colour Temperature:	3,000 to 5,700K
Lumen Maintenance L90:	63,000h
Lumen Maintenance L70:	> 100,000h

### Optics

Secondary Lens:	Refraction Array
System Treatment:	IP67, Anti-yellowing
Available optics:	FL / FH / SW / SM / ST
No of LEDs / module:	48
No of modules:	2

### Luminaire Body

Structure:	Stainless steel
Metal coating:	Powder painted
Heatsinks:	Extruded Aluminium
Bracket:	Central Bolt 20mm
Weight:	32 Kg
Installation height:	15m to 55m
Installation angle:	Tilt Adjustment 330°
Dimensions:	719L x 561W x 245H mm
Windage Area:	0.085 m <sup>2</sup>

### Electronics

Voltage input range:	90-305 VAC 50-60Hz
Power Factor:	0.95
Mean time to Failure:	200,000 hrs
Dimming Function:	1-10V / DALI
Surge Protection:	15kA, IEEE C62.41.2 Location Category C High
Insulation Class:	IEC Class I
IP Rating:	IP 67
Short Circuit Protection:	Auto-recovery
Over Heat Protection:	Drops output current
Rel. Humidity Range:	0% - 94%
Operating Temp:	-40°C up to +65°C

### Normative references

EN 60598-1: 2015 - Luminaires - Part 1: General requirements and tests  
EN 60598-2-5: 2015 Luminaires - Part 2-5: Particular requirements - Floodlights  
EN 62031: 2008 + A2:2015 - LED modules for general lighting - Safety specifications  
EN 60598-2-3: 2003 + A1: 2011 - Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting  
EN 62493: 2015 Assessment of lighting equipment related to human exposure to electromagnetic fields  
EN 60529: 1992 + A2: 2013 - Degrees of protection provided by enclosures (IP Code)  
IEC 60068-2-52: 1996 Environmental test - Part 2: Tests - Test Kb - Salt mist cyclic (sodium chloride solutions)  
EN 55015: 2013 + A1: 2015 - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  
EN 61547: 2009 - Equipment for general lighting purposes - EMC immunity requirements  
EN 61000-3-2: 2014 - Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)  
EN 61000-3-3: 2013 - Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection  
EN 61643-11: 2012 - Low-voltage surge protective devices. Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods  
IEEE C62.41.2-2002 - Recommended practice on characterization of surges in low-voltage AC power



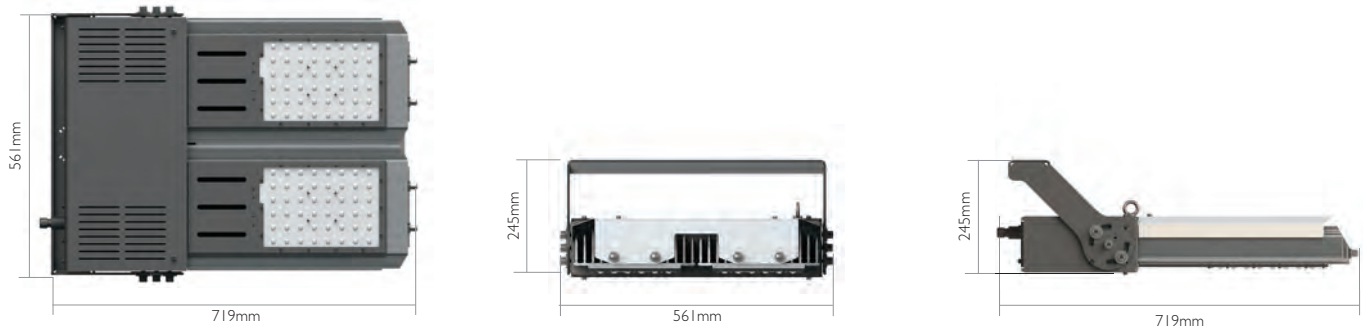
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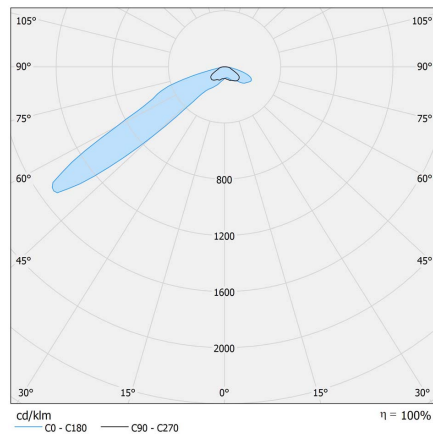
## Dimensions

## TITAN 720

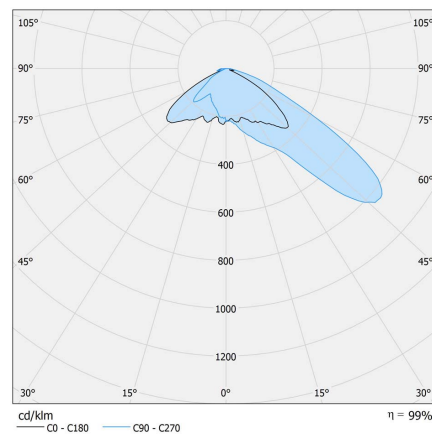


## Photometrics

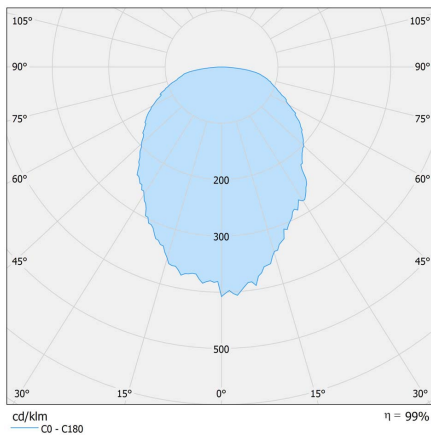
### FH Floodlight high asymmetry



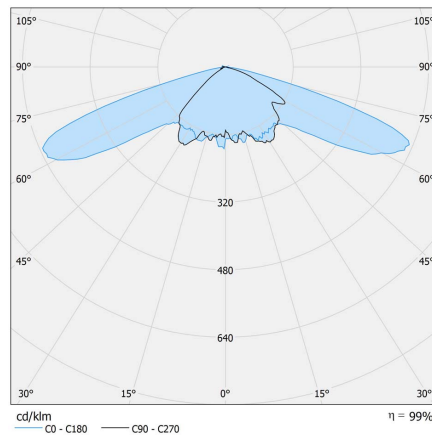
### FL Floodlight low asymmetry



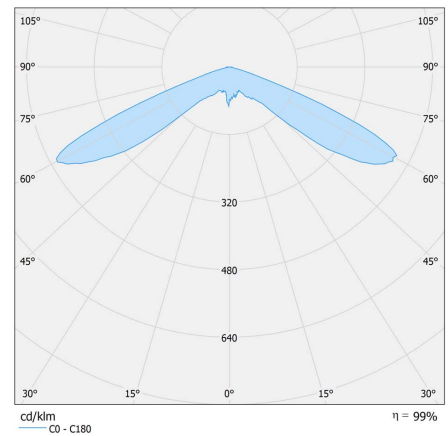
### SM symmetrical medium



### ST street optic



### SW symmetrical wide



## Ordering codes

Product Family	Power	Optic	CCT	Bracket	Control system	Body colour	Optional
T (Titan)	72	FL (Low Asymmetric)	A (5000K)	T (Flood Bracket)	I0 (I-I0V)	T (Standard)	00 (No SPD)
		FH (High Asymmetric)	B (4000K)	P (Pole Bracket)	DA (DALI)	H (High Heat)	02 (15kA SPD)
		SW (Symmetric Wide)	C (3000K)		CW (Custom Wireless )	M (Military)	
		SM (Symmetric Med)	D (5700K)		CL (Custom Line)		
		ST (Street)					

Example: T72FHATDAT02

Note: Specifications are subject to change without notice



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