TITAN 160

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

Electronic, LED control gear driving 36 LEDs at 1.4A 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.



C€LED IP67 ⊕ 🕸

Technical data

Performance	••••••			
Nominal Flux:	19,573 lm			
Net Flux:	18,203 lm			
Power Absorption:	167W			
	••••••			
Optoelectronics	••••••			
LED Type:	CREE XP-G3			
Circuit Board:	MPCB 1.6mm			
CRI:	70 ≤ R ≤ 90			
Luminous Eff Loss:	< 1% per annum			
ColourTemperature:	3,000K to 5,700K			
Lumen Maintenance L90:	74,000h			
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:	36			
No of modules:				
Luminaire Body	••••••			
Structure:	Stainless steel			
Metal coating:	Powder Painted			
Heatsinks:	Extruded Aluminium			
Bracket:	Central Bolt 20mm			
Weight:	12.5kg			
Installation height:	10m to 30m			
Installation angle:	Tilt Adjustment 360°			
Dimensions:	541L × 348W × 245H mm			
Windage Area:	0.038m ²			
•••••				

Electronics			
Voltage input range:	90-305 VAC 50-60Hz		
Power Factor:	0.95		
Mean time to Failure:	200,000 hrs		
Dimming Function:	DALI / I-I0V		
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 +55°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





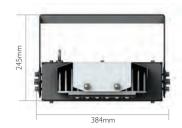




Dimensions

TITAN 160

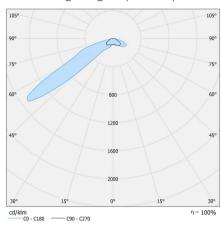




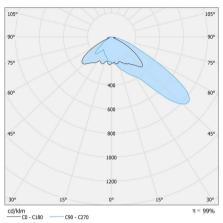


Photometrics

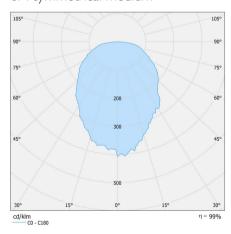
FH Floodlight high asymmetry



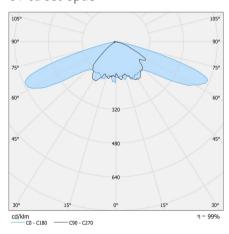
FL Floodlight low asymmetry



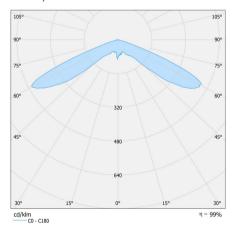
SM symmetrical medium



ST street optic



SW symmetrical wide



Ordering codes

Product Family	Power	Optic	CCT	Bracket	Control system	Body colour	Optional
T (Titan)	16	FL (Low Asymmetric)	A (5000K)	T (Flood Bracket)	10 (1-10V)	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: T16FHATDAT02

Note: Specifications are subject to change without notice



