

Quantum Pro

High Performance

Quantum Pro is a specialist luminaire providing solutions for scenarios where optical performance, glare and thermal management are required.

Optimised Column Spacing, Power and Glare

Quantum Pro features three patent protected features relating to thermal management which means that this compact, light weight product can provide solutions up to 190W, and over 24000lm output. Optional circuit board positions mean that the luminaire cut off can be varied allowing customers to choose between high glare classification and optimised column spacing. Manufactured from LM6 marine grade aluminium, and 316 grade stainless steel this product offers world class quality, and performance for M class, and high mast applications.

Future Proofed

Compatible with all Smart City systems, and featuring downward facing sensor locations for future applications the product is ready for " Internet of Things " applications. At LED chip level the product features CREE XTE HE LEDs offering over 140 luminaire lm/W, and L90B10 beyond 100000 hours. The new Zhaga Sensor Ready socket is offered as an option which protects photocells and sensors from surge and allows advanced sensing options to be incorporated.

Warranty

Featuring world class components in the form of Philips Xitanium drivers, and CREE XTE HE LEDs means that lifetime and failure rates are well known and allows Low Carbon Lighting to offer ten year extendable warranties on the Quantum Pro.



Applications

- Road lighting
- Pedestrian routes
- Cycle routes
- Recreational areas
- Outdoor area lighting
- Car parks

Standard Power Options

- 80W
- 100W
- 120W
- 140W
- 160W
- 180W
- 190W

Optional Extras

- Mini photocell
- Mini NEMA socket
- 10kV surge protection
- Pre wired for column

Features & Benefits

- Programmable driver
- Part night dimming
- Constant light output
- Windage 0.06m²
- CRI >70

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Power Consumption (W)	80	100	120	140	160	180	190
Total Flux (kilolumens)	9.2	11.4	15.1	16.6	18.5	21.1	24.0
Drive Current (mA)	740	720	600	660	700	800	900
Weight (kg)	8.5	8.5	8.5	8.5	8.5	8.5	8.5

Specification

CCT	3000K / 4000K
CRI	≥70
Operating Temperature	-20° to +40°C
Aerodynamic Resistance	0.06m²
S/P Ratio	1.6
Rated Chromacity Value	0.38, 0.38
Photometric Code	840.349
Risk Group	RG1
Electrical Class	Class 1
Input Voltage	220-240Vac
Input Frequency	45-63Hz
Power Factor at 230V 50HZ	≥0.95

Features

Light Source	CREE XTE HE
Optics	Optimised lens array
Ingress Protection	IP66 to EN60598
Impact Resistance	IK08

Material

Casing	LM6 grade cast aluminium
Lenses	PMMA
Cover	Polycarbonate (UV Stabilised)
PCB Board	IMS
Gasket	Silicon gasket
Fixings	316 Stainless steel

Other

LED lifetime (L90/B10)	> 100,000hrs
Warranty	10 year (extendable)
Design standard	EN60598-1 & EN60598-1-2-3

