

Quantum

Made in the UK

Quantum is a new generation of street lighting luminaire combining advanced features, world class components, quality materials, and light weight with the best of UK manufacturing.

Performance & Reliability

The product is made from LM6 marine grade cast Aluminium and can be installed in any arduous environment. Featuring Philips Xitanium drivers reliability is guaranteed with surge protection of at least 8kV provided. The latest Lumileds LED chips provide class leading efficacy, and optical control via PMMA lenses optimise distribution.

Feature Laden

High technology features such as part night dimming and constant light output are provided as standard. The product can be fitted with 7 Pin NEMA, mini photocell, or mini NEMA socket providing stand alone controls, compatibility with leading CMS systems, and the ability to gather and relay data.

Installer Friendly

Weighing less than 2kg the product falls below the manual handling risk assessment limit, and can be installed on any column without structural concern. Compact dimensions mean that many more can be carried in vehicles, and less storage is required in depots.



Applications

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

Standard Power Options

- 10W
- 15W
- 20W
- 25W
- 30W
- 35W
- 40W

Optional Extras

- 76mm post top adaptor
- Mini photocell
- Mini NEMA socket
- 10kV surge protection
- Pre wired for column

Features & Benefits

- Programmable driver
- Part night dimming
- Constant light output
- Less than 2kg weight
- Windage 0.016m²
- 4000K
- CRI >70

Quantum

Power Consumption (W)	10	15	20	25	30	35	40
Total Flux (kilolumens)	1.4	2.1	2.8	3.5	4.2	4.9	5.6
Drive Current (mA)	<1000mA						
Weight (kg)	1.75						

Specification

CCT	3000K / 4000K
CRI	≥70
Operating Temperature	-20° to +40°C
Aerodynamic Resistance	0.016m²
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	Lumileds LEDs
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



Quantum +

World Beating

Quantum+ offers a world beating combination of low weight, compact dimensions, world class efficiency and value.

UK Manufacture

Compact dimensions allow Quantum+ to make use of advanced thin wall casting techniques pioneered in the UK with the result that the product weighs less than 4kg and thereby offers installer benefits, compatibility with every type of column, and best value. The product is cast, and assembled in the UK meaning it has a low carbon footprint, as well as offering long term pricing stability and guaranteed availability regardless of currency or political fluctuation.

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 XPG3 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

Manufactured from LM6 marine grade aluminium, offering a minimum 8kV surge protection and using world class components from CREE and Philips means that a 10 year extendable warranty is offered and lumen depreciation / colour shift can be guaranteed.

Easy Installation

Low weight means the product falls below the manual handling risk assessment weight limit, and also means that it can be installed on any column, bracket or pole without structural concern. The product is ready to install on either post top, or side arm configurations.



Applications

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

Standard Power Options

- 10W
- 20W
- 30W
- 40W
- 50W
- 60W
- 70W
- 80W

Optional Extras

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

Features & Benefits

- Programmable driver
- Part night dimming
- Constant light output
- Less than 5kg weight
- Windage 0.03m²
- CRI >70

Quantum +

Power Consumption (W)	10	20	30	40	50	60	70	80
Total Flux (kilolumens)	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.2
Drive Current (mA)	300	530	590	530	690	710	740	800
Weight (kg)	4.5							

Specification

CCT	3000K / 4000K
CRI	≥70
Operating Temperature	-20° to +40°C
Aerodynamic Resistance	0.03m²
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 XPG3
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



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

Quantum Pro

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
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