

The Alto Series



...Taking you forward



Advanced industrial lighting hardware, developed for application in marine, municipal, transport, logistics zones, or largescale internal projects

460W-920W series range - Impact, ingress, marine-grade corrosion, & vibration resistance as standard - >130lm/W family efficacy, - 15+ general purpose & task-specific optics - Advanced colour rendering capabilities - Integrated, standalone, & wireless network intelligent control options

CE, RoHS, DLC, UL, CB, international product marks



Mast, Tower, & High Bay Lights



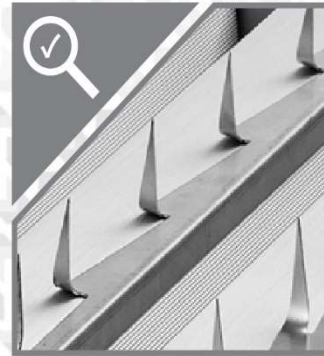
Mounting Options

Universal bracket, slip fit, wire suspension



Optional Fitting Colours

Grey RAL:7004, black RAL:9001, white RAL:9010, bronze RAL:8014, custom (subject to MOQ)



Special Features

Integrated spirit level, Wago internal quick-connectors, safety wire & carabiner secondary securing system, 3G vibration tolerance as per ANSI C136.31-2010, bird spikes



Environmental Protection

IP67, copper-free aluminium chassis & modules c/w corrosion-resistant powder coat & anodisation finishes - Salt spray testing reports available - 304 stainless steel exposed fixtures



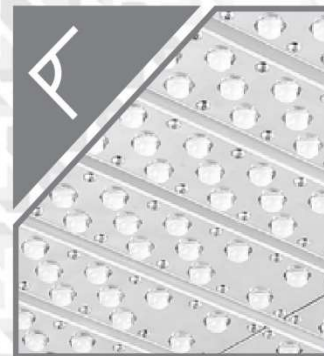
Impact Protection

IK09 rated



Windage

460W model 0.072m²
610W model 0.079m²
770W model 0.089m²
920W model 0.096m²



Distribution

>15no. optic variants are available for general & task-specific applications - Optional back-spill guards available



Driver Protocols

Non-dimming, 0-10V, DALI



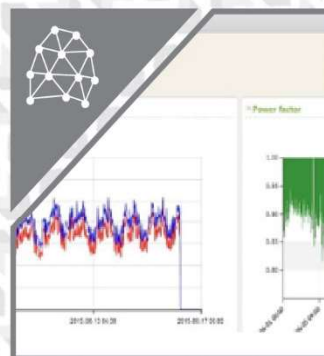
Sensor(s)

Integrated, standalone (single or multiple luminaires per sensor options)



Sensor Functions

Occupancy, multi-step dimming, photocell, daylight harvesting



Advanced Controls

System energy reporting, data monitoring, IoT (wireless/wired) networks



Electrical Protection

10KA, 20KA, integrated surge protection device

Nominal Power / Product Class	460W	610W	770W	920W
Nominal Efficacy	139lm/W	137lm/W	136lm/W	138lm/W
Nominal Output	64,344lm	83,799lm	104,531lm	127,635lm
Light Engine & Model	CREE XPG-3	CREE XPG-3	CREE XPG-3	CREE XPG-3
Lumen Maintenance (TM21)	L85 ≥60,000Hrs	L85 ≥60,000Hrs	L85 ≥60,000Hrs	L85 ≥60,000Hrs
LM79 Test Conditions (Abrid.)	Maintained 25°C	Maintained 25°C	Maintained 25°C	Maintained 25°C
CCT	5000K, Custom	5000K, Custom	5000K, Custom	5000K, Custom
CRI	≥70Ra, ≥80Ra,	≥70Ra, ≥80Ra,	≥70Ra, ≥80Ra,	≥70Ra, ≥80Ra,
UGR	Contact Office	Contact Office	Contact Office	Contact Office
Lens(es)	Clear	Clear	Clear	Clear
Symmetric Distribution	10°, 25°, 40°, 60°, 90°, 120°	10°, 25°, 40°, 60°, 90°, 120°	10°, 25°, 40°, 60°, 90°, 120°	10°, 25°, 40°, 60°, 90°, 120°
Asymmetric Distribution (IESNA)	I, II, III, IV (+ Variants)	I, II, III, IV (+ Variants)	I, II, III, IV (+ Variants)	I, II, III, IV (+ Variants)
Ingress Rating	IP67	IP67	IP67	IP67
Impact Resistance	IK08	IK08	IK08	IK08
Ambient Usage Tolerance	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C
Ambient Storage Tolerance	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C
Ambient Humidity Tolerance	Contact Office	Contact Office	Contact Office	Contact Office
PSU Manufacturer	Philips	Philips	Philips	Philips
PSU Advanced Data	Contact Office	Contact Office	Contact Office	Contact Office
Input Voltage	120-277V, 347-480V	120-277V, 347-480V	120-277V, 347-480V	120-277V, 347-480V
Input Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Power Factor	≥0.95	≥0.95	≥0.95	≥0.95
THD	<20%	<20%	<20%	<20%
Product Dimensions (LxWxH)	765 x 635 x 83mm	885 x 635 x 83mm	1065 x 635 x 83mm	1185 x 635 x 83mm
Cable Dimensions (L)	Terminal Block	Terminal Block	Terminal Block	Terminal Block
Fixture Weight	19.63kg	23.21kg	27.45kg	30.72kg
Fixture Primary Materials (s)	Aluminium	Aluminium	Aluminium	Aluminium
Fixture Finish	Powder Coat	Powder Coat	Powder Coat	Powder Coat
Lens(es) Materials	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Product Warranty	5 (10 Ext.) Years	5 (10 Ext.) Years	5 (10 Ext.) Years	5 (10 Ext.) Years