



Kingfisher
Lighting

Eurogarages, Site off A5156
Holt Road, Wrexham

Kingfisherlighting.com

STREET • AMENITY • ARCHITECTURAL • AREA

FAO Tom Ashton

Express Electrical (Stockport)
Unit 9b Bankside Business Park
Coronation Street
Off Sandy Lane
Stockport
Cheshire
SK5 7PG

Wednesday 12 May 2021

RE – Eurogarages, Site off A5156 Holt Road, Wrexham

Dear Tom,

The design has been done to cover the access road to provide a 10 lux average / 0.25 uniformity as well as to car parking areas to provide a 20 lux average / 0.25 uniformity and even 50 lux average / 0.4 uniformity for Drive Thru's in accordance with BS 5489. The Auriga 2.0 Luminaire has been selected in keeping with the previous designs done for the Eurogarages sites we have done. A 6m column has been selected as the site will accommodate passenger vehicles. 8m columns have also been used on the access road due to the strong probability of HGVs passing through. Luminaire mounting heights and tilt angles are shown next to each individual luminaire on the design to aid with the installation of each fitting.

We trust that the above information is satisfactory. If you have any further questions, please don't hesitate to contact me on either 01623 415 911 or projectdesign@kingfisherlighting.com

Yours sincerely,

Lewis Clarke

Lighting Applications Engineer

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Access Road	illumiance	Lux	14.69	37	4	0.27	0.11
Car Park	illumiance	Lux	22.73	75	6	0.26	0.08
Coffee Drive Thru	illumiance	Lux	50.37	78	23	0.46	0.29
Restaurant Drive Thru	illumiance	Lux	57.87	77	27	0.47	0.35

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	LLF	Description
	14	A	SINGLE	0.900	60w LED 4000k Auriga 2_0 780mA post top or side entry with T4A Optic column mounted at 6m
	6	A (8m)	SINGLE	0.900	60w LED 4000k Auriga 2_0 780mA post top or side entry with T4A Optic column mounted at 8m
	2	A2	BACK-BACK	0.900	2 x 60w LED 4000k Auriga 2_0 780mA post top or side entry with T4A Optic column mounted at 6m

Kingfisher Lighting

Part of the Luceco PLC group of companies

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	Lot#	LOR	Luminaire Lumens	ULOR	Upward Lmns	RA	ART Hrs per Day	CO ² Calculation for year
												CO ² [Tonnes] Kwh/year
24	Auricle 2.0 FFD	60w LED T4A	7500	60	155 60	100.0%	98000	0.6%	720	30	12	1.46 430230

Total Installation Lumens	180000.00	Total ULR	0.40%
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Table 1 compliance	
Environmental zone	E3

Source Intensity (candelas)				
Pre curfew	10,000			Pass
Post curfew	1,000			Pass
Light Trespass into windows (Lux)				
Pre curfew	10			Pass
Post curfew	2			Pass
Buildings Luminance (cd/m²)				
	50			

Compliance Status:		
Pol 04	Reduction of night time light pollution	Pass
Ene 03	Energy efficient external lighting	Pass
Hea 03	Internal and external lighting levels	Pass

Note - H&A01 in this report only applies to exterior lighting

Total COP per year (Tonnes)	1.46
Total Electrical consumption (Kw)	1.44
Total Electrical consumption per year (Kwh)	6,387.28
Average luminaires lumens per circuit Watt	125.00

Kingfisher Lighting Ltd
Ratcliff Way, Crown Farm Business Park
Mansfield, Nottinghamshire
NG19 0FS

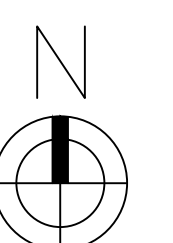
T: +44 (0)1623 415900
E: sales@kingfisherlighting.com
W: www.kingfisherlighting.com

Part of the Luceco plc group of companies

VAT No. 509145848 Company No. 2236337



express electrical



Eurogarages, Site off A5156 Holt Road, Wrexham

Scale	Project Number
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Date	Drawing No.
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Lighting Designer : L Clarke



For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.



**Kingfisher
Lighting**

Datasheet

Auriga 2.0 Series



Specification Text

The luminaire shall be manufactured from high pressure die-cast aluminium. It shall have an LED efficacy of up to 136 luminaire lm/W and will be capable of producing up to 7950 luminaire lumens at 4000K with a CRI >70. It shall be rated at IP66 and IK08.

Specification

Weight: 9.5 - 13.5 kg
Windage: 0.15m²
Material: Die-cast Aluminium
Paint Finish: Anthracite Grey

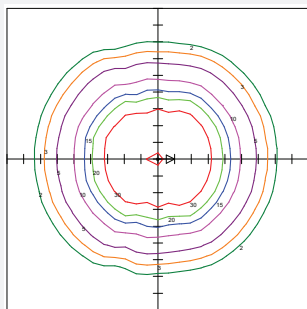
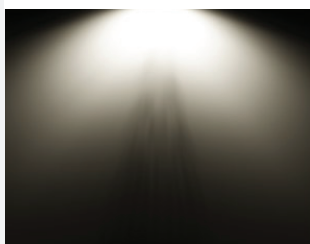
Key Features

- 22W - 60W
- 2,992 - 7,950 Luminaire Lumens
- Efficacy up to 136 lm/W
- 4000K, CRI >70
- Lifetime >70,000hr
- Symmetrical - Stirrup
- Asymmetrical - Post top/ side entry
- Post Top/ side entry 60mm

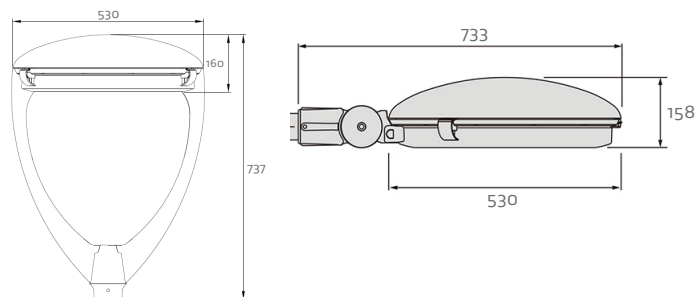


Optics

Auriga 2.0



Dimensions



All measurements in mm

Code	Power	Light Source	Luminaire Lumens	Optic	CCT(K)	IP	IK	Weight (kg)	Paint Finish
AURPS22T3AF	22W	LED	2992	Asymmetrical Street Optic Wide	4000	IP66	IK08	9.5	Anthracite Grey
AURPS40T3AF	40W	LED	5400		4000	IP66	IK08	9.5	Anthracite Grey
AURPS60T3AF	60W	LED	7950		4000	IP66	IK08	9.5	Anthracite Grey
AURST22T1F	22W	LED	2992	Symmetrical 90° Optic	4000	IP66	IK08	13.5	Anthracite Grey
AURST40T1F	40W	LED	5400		4000	IP66	IK08	13.5	Anthracite Grey
AURST60T1F	60W	LED	7950		4000	IP66	IK08	13.5	Anthracite Grey



Accessories / Options

- DALI Dimmable
- Photocell options

Mounting Options

- Post Top 60mm



7. Warranty

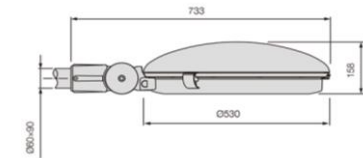
Kingfisher Lighting Ltd offer a 5-year warranty on all LED luminaires on the basis that they are installed and operated in accordance with the manufacturer's instructions and within all thermal, electrical and environmental limitations. Any modifications made to the product by the customer will invalidate the warranty. Kingfisher Lighting Ltd reserve the right to repair or replace products at their discretion. Replacement of products does not include costs associated with installation. Terms and conditions apply.

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www.kingfisherlighting.com

Auriga 2.0

Please read instructions before installing!



1. Intended use.

The luminaire is intended external lighting applications. Any deviation from its intended use will not be covered by warranty.

2. General Safety

This luminaire is classified under EXEMPT GROUP according to photobiological safety standard IEC/EN 62471.

NO RISK for the operators and end users.



Caution risk of electric shock!

This unit must be fitted by a competent and qualified electrician.

Before carrying out maintenance and installation on the luminaire, disconnect from the mains supply and ensure that all power is switched off.

- Do not operate luminaires with damaged or missing safety glass.
- When installing, IEE wiring regulations and current building regulations must be observed.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

3. Specification

Depending upon model

Voltage: 220-240V ~ 50/60Hz

Wattage: 22 – 60W

IP: 66

Weight: 11kg

Min mounting height: 2.8M

4. Information symbols



This is a class 1 product and must be earthed.



In accordance with EU Directive WEEE (Waste Electrical and Electronic Equipment), luminaires must not be disposed of with other household waste. At the end of their life, luminaires must be taken to the appropriate local facility available for the disposal or recycling of electronic products.

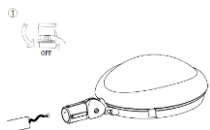


Replace any cracked protective shield

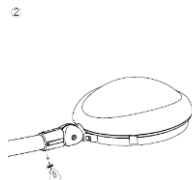


Do not stare into the light source.

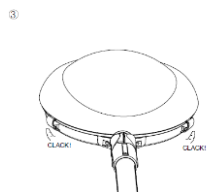
5. Installation instruction Stirrup mount



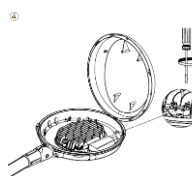
Ensure Power is disconnected. Root wiring through base of the unit.



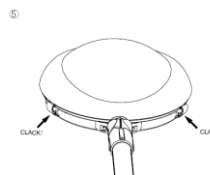
Tighten unit to the column via grub screws at the base.



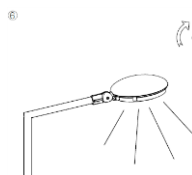
Open top of the unit by releasing the head retaining clips.



Wire cabling as per the wiring instructions



Re-fasten top of the unit.



7. Wiring instructions



Warning ensure power is disconnected before attempting any wiring!

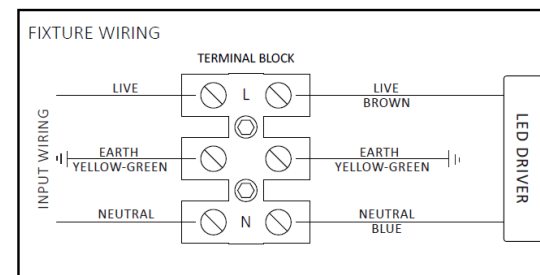
STEP 1:

Make the following Electrical Connections:

- Connect **INPUT EARTH** conductor to **YELLOW-GREEN WIRE** position of the terminal block, marked ⊕.
- Connect **INPUT VOLTAGE** conductor to **BROWN WIRE** position of the terminal block, marked L.
- Connect **INPUT NEUTRAL** conductor to **BLUE WIRE** position of the terminal block, marked N.

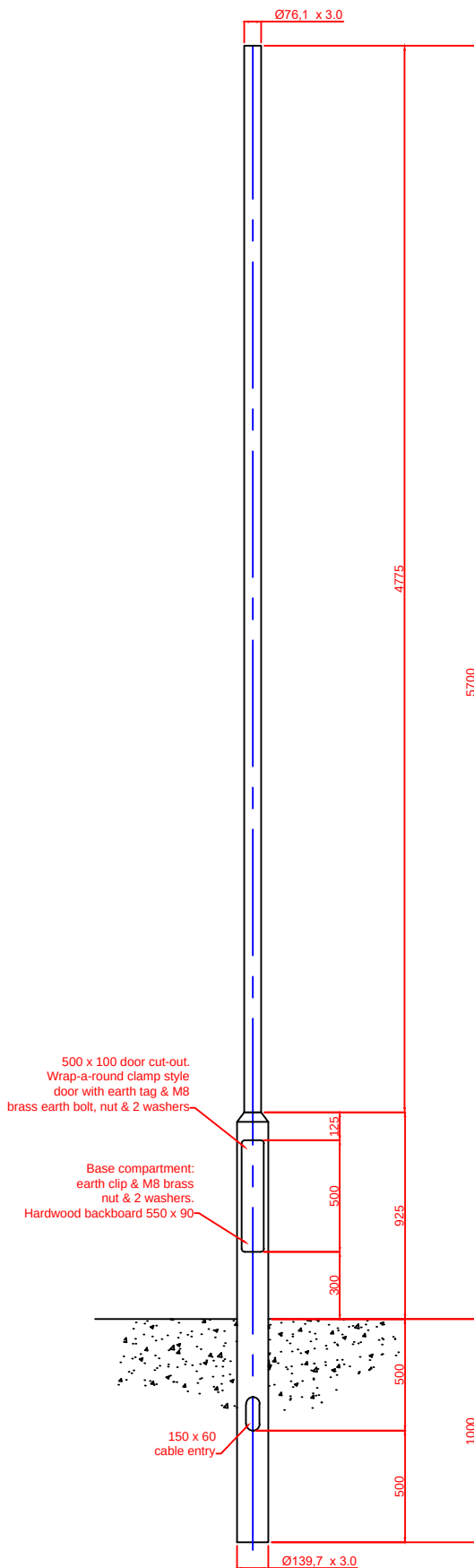
STEP 2:

Make sure all excess input wires are inserted into terminals and screws are tightened.

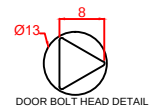


Input cable should be at least H05RN-F 3x1.0mm² (SJTW 18AWG) or outdoor grade cable with rubber sheath (not supplied). The cable must have a minimum cross-sectional area of 1.0mm² (18AWG).

When installing luminaires with an integral photo cell fitted care should be taken not to mount the luminaire in such a position that the photo cell can see another external light source as this could cause nuisance switching of the luminaire.



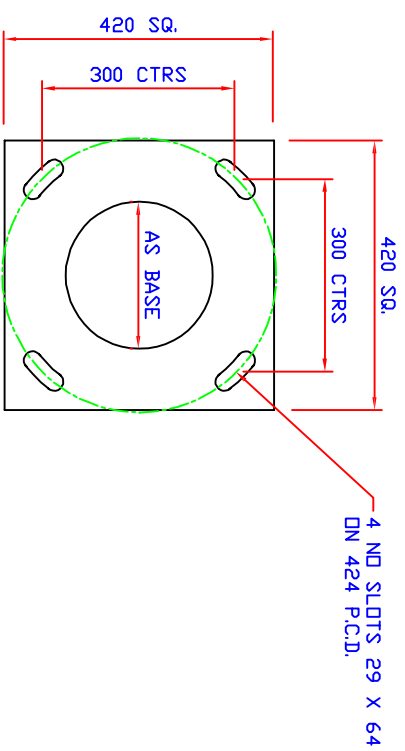
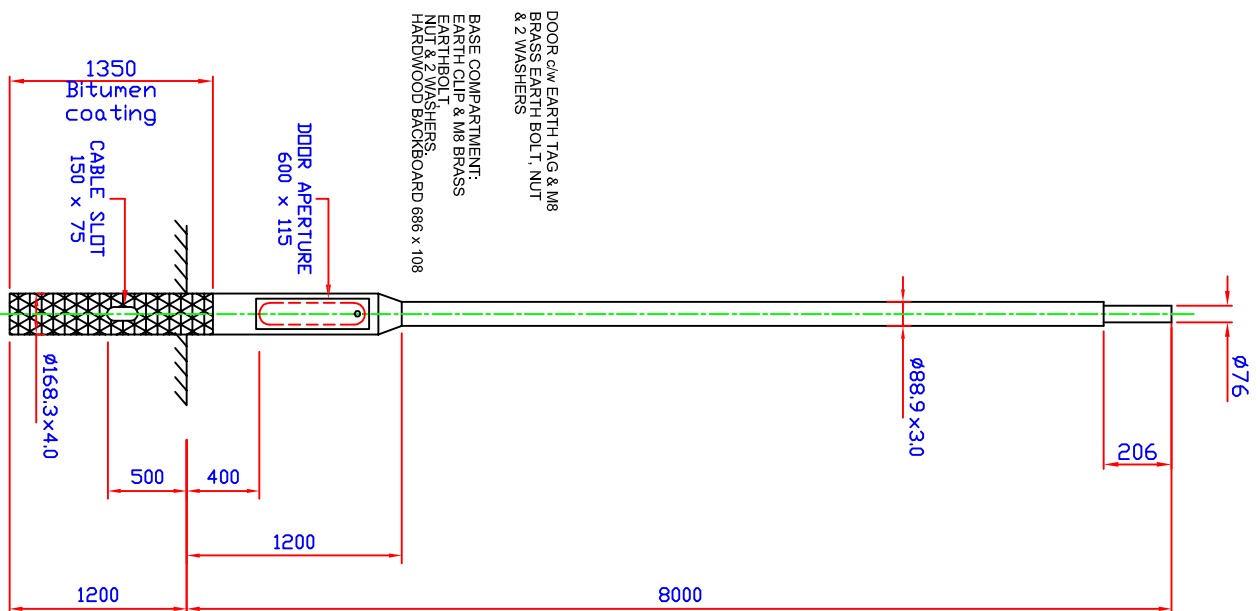
Material: BS EN 10219 or equivalent
 Design: BS EN 40
 Finish: Galvanise to BS EN 1461:1999
 Welding: In accordance with BS 5135
 Procedures to BS EN 288
 Welders qualified to BS EN 287



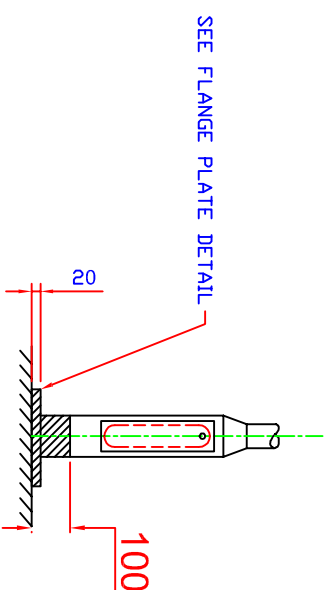
Detail of change:	C 4775 was 5075, 5700 was 6000 RH 10-6-15
Detail of change:	B 6000 was 5700, 5075 was 4775 30-03-2010 RH
Detail of change:	Updated template RH 30/01/07
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Title:	6CT76 Lighting Column		
Drawn:	RJH	Drawing No:	KL 3173
Date:	30/01/2007	Issue:	D
Material:	BS EN 10219 or equivalent		
All dimensions in mm(unless otherwise stated)			



FLANGE PLATE DETAIL



	Detail of change:	D	88.9 x 3.0 was 88.9 x 4.0	14-10-2009	RH
	Detail of change:	C	Material thickness & spec aded	20-05-2008	RH
	Detail of change:	B	Updated to current spec	30-09-2008	RH
	Detail of change:	E	Flange plate thickness was 25mm	30-04-2010	RH
© ALL RIGHTS RESERVED KINGFISHER LIGHTING LTD 2008					
 1988 - 2008 20 YEARS OF Kingfisher Lighting KINGFISHER LIGHTING LTD MANFIELD WYVERN ROAD CROWN POND INDUSTRIAL PARK NG19 9ES NOTTINGHAMSHIRE					
Title:	8CT89 Column				
Drawn:	RJH	Drawing No:	KL 3176		
Date:	30/09/2008		Issue:	F	
Material:	S355 (Q345) mild steel				
All dimensions in mm (unless otherwise stated)					