Acorn

Highly sustainable exterior floodlights



Engineered with a commitment to environmental responsibility, each component of the Thorlux Acorn floodlight has been carefully selected to minimise any ecological impact throughout its lifecycle.

Key features include: an IP66-rated housing manufactured from European oak; a 100% post-industrial, recycled polycarbonate gear enclosure; and a 90% recycled aluminium gear tray and mounting bracket. A highly efficient driver and PMMA lenses help ensure low running costs, reducing operational carbon.

Acorn has achieved an industry-leading TM66 score of 3.1, verified as the highest published score for any luminaire under the LIA/CIBSE certification scheme TSD-012 to date.

The 2700 K colour-temperature version of Acorn is DarkSky-approved and emits zero upward light. When used with the SmartScan External lighting control system, the impact on its immediate environment can be minimised as far as practicably possible.

Applications: car parks, amenity areas, hospital estates, and general roadway.

- Programme for the Endorsement of Forest Certification (PEFC) certified European oak body
- Industry leading TM66 score of 3.1 - LIA/CIBSE certification scheme TSD-012 verified
- DarkSky approved (2700 K versions at 0° tilt only)
- Integral high-efficiency driver
- Extremely efficient and long system life up to 100,000 hours
- Wide range of mounting options
- Photocell option
- SmartScan wireless technology removes the need for control cabling. Ideal for retrofit

Notes: Other colour temperatures available to special order

Up to IP66 **IK07** **Up to 182.8 LL/CW** SMARTSCAN **TM66 circularity score 3.1**

Specification

Mounting	**Column**	IP rating	**Up to IP66**
Impact rating	**IK07**	Max presence detection height	**8 m**

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Sustainability

TM66 circularity score	**3.1**

Lighting

Distribution	**Area** **Roadway**	Lumen output	**1,740 lm - 10,965 lm**
Efficacy	**Up to 182.8 LL/CW**	External upward light	**Zero upward light**

Power

LED power	**9 W - 55 W**	Circuit power	**11 W - 60 W**

Construction

Housing	**100% industrial recycled polycarbonate gear enclosure** **>90% recycled aluminium gear tray and mounting brackets with raw finish** **Programme for the Endorsement of Forest Certification (PEFC) certified European oak body**	Optical assembly	**High-efficiency sealed acrylic lenses**

LED characteristics

CRI	**70+**	Colour temperature	**2700 K** **4000 K**
Rated life (hours)	**100 K - L90/B10**	LED protection	**-**
Driver efficiency	**>85%**	Replaceable light source	**Yes**
Power factor	**>0.9**	MacAdam ellipse	**5 Step**
Flicker metric	**IEC TR 61547-1: PstLM ≤1.0 / SVM ≤0.4**		

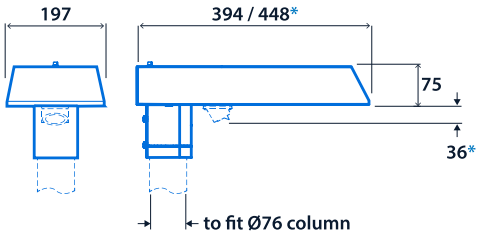
Compliance

UKCA	**Yes**	CE	**Yes**
Energy efficiency class	**This product contains a light source of energy efficiency class B**		

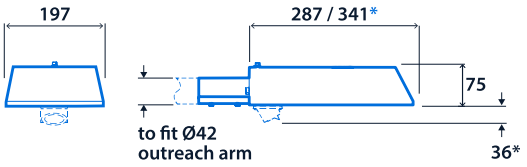
Dimensions

9W / 27W versions

Vertical pole top

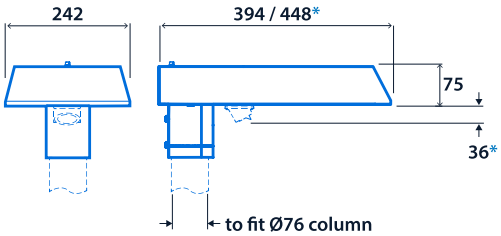


Horizontal outreach arm

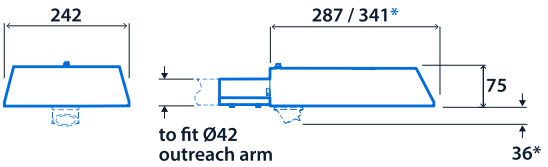


55W versions

Vertical pole top



Horizontal outreach arm



*SmartScan External version only

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Range

Product	LED power	Mounting	Distribution	Colour temperature	Lighting control system
AC Acorn	**09** 9 W **27** 27 W **55** 55 W	**V** Vertical 76 mm column top **H** Horizontal 42 mm outreach arm	**A2** Area **R5** Roadway	**2** 2700 K **4** 4000 K	**S** SmartScan External **L** Non-dimming **P** Photocell

E.g. **AC09VA22S** = 9 W / Vertical 76 mm column top / Area / 2700 K / SmartScan External

Mounting Accessories

Product code	Description	Weight
AC20630	Single outreach arm - To fit on to 76 mm dia.	-
AC20631	Single outreach arm - To fit on to 89 mm dia.	-
AC20632	Single outreach arm - To fit on to 101 mm dia.	-
AC20633	Single outreach arm - To fit on to 114 mm dia.	-
AC20635	Twin outreach arm 180° - To fit on to 76 mm dia.	-
AC20636	Twin outreach arm 180° - To fit on to 89 mm dia.	-
AC20637	Twin outreach arm 180° - To fit on to 101 mm dia.	-
AC20638	Twin outreach arm 180° - To fit on to 114 mm dia.	-
AC20640	Twin outreach arm 90° - To fit on to 76 mm dia.	-
AC20641	Twin outreach arm 90° - To fit on to 89 mm dia.	-
AC20642	Twin outreach arm 90° - To fit on to 101 mm dia.	-
AC20643	Twin outreach arm 90° - To fit on to 114 mm dia.	-
AC20644	Wall mounting bracket (horizontal mounting only)	-
POT89-76	Column adaptor - 89-76 mm - To fit on to 89 mm dia.	-
POT101-76	Column adaptor - 101-76 mm - To fit on to 101 mm dia.	-
POT114-76	Column adaptor - 114-76 mm - To fit on to 114 mm dia.	-

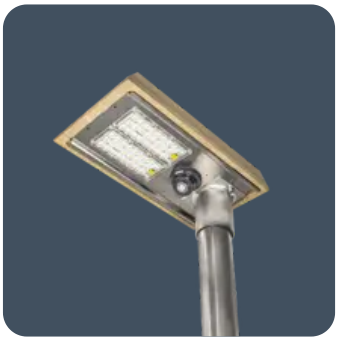
Columns

Product code	Description	Weight
FC4	4 m - Standard duty column - 76 mm shaft diameter	33 kg
FC5	5 m - Standard duty column - 76 mm shaft diameter	40 kg
FC6	6 m - Standard duty column - 76 mm shaft diameter	44 kg
FC8	8 m - Medium duty column - 114 mm shaft diameter reduced at top to 101 mm	100 kg
FC10	10 m - Medium duty column - 114 mm shaft diameter reduced at top to 101 mm	142 kg
FC12/101	12 m - Medium duty column - 140 mm shaft diameter reduced at top to 101 mm	226 kg

Accessories

Product code	Description	Weight
AC20646	Acorn front or rear baffle - 9 W and 27 W versions	-
AC20647	Acorn front or rear baffle - 55 W versions	-
AC20648	Acorn side baffle - SmartScan versions	-
AC20649	Acorn side baffle - Non-SmartScan versions	-







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Information is correct as of 10 Nov 2026, however must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.