



Excellent
TM66 circularity
score of
3.1

OAKEN

Sustainable Lighting



IP66
Ingress Protection



IK10 Body
IK07 Lens



2.5-5.1kg Weight



Electrical Class I



0.021m² - 0.035m² Wind Area



-20 to 35°C Ambient



LED Light Source

SPECIFICATION

- ✓ Industry-leading 'excellent' TM66 product circularity score of 3.1
- ✓ 97% reduction¹ in 'Cradle to Gate' embodied carbon
- ✓ 50% reduction² in embodied carbon
- ✓ TM65 embodied carbon is 34kg CO₂e
- ✓ LED colour temperature PC-Amber*, 2700K, 3000K or 4000K
- ✓ Colour rendering index >70 (*>55)
- ✓ Projected L90 after 100,000 hours
- ✓ Power factor >0.95 at full load
- ✓ Driver efficiency up to 92%
- ✓ Up to 191.7lm/W system efficacy
- ✓ PEFC certified European oak
- ✓ High recycled content polycarbonate gear housing and aluminium sheet metal chassis
- ✓ High efficiency PMMA and PC lens options
- ✓ 0% ULOR
- ✓ Colour coded lens identifier
- ✓ CLO available
- ✓ PowerSet NFC feature integrated as standard (field adjustable power output)
- ✓ Lumi-LinQ compatible
- ✓ Controls - NEMA 7, Zhaga Book 18 socket (top and bottom)
- ✓ Part Night Dimming (PND)
- ✓ DALI-2 and D4i certified control gear for use with CMS and external sensors/devices
- ✓ Designed for easy end of life disassembly for recycling
- ✓ UMSUG codes available for full product range



International Dark-Sky Association approved. Compliant when using a colour temperature of 3000K or below at zero degree tilt.

¹Compared to aluminium cast alloy body baseline. ²Compared to Aspect Mini baseline.

Type	System Power	Road & Path Optics	Area Optics	Lumen Output	CCT	CRI
Oaken 12	5-30W	✓	✓	Up to 4,633lm	PC-Amber*, 2700K, 3000K or 4000K	>70 (*>55)
Oaken 24	5-30W	✓	✓	Up to 5,568lm	2700K, 3000K or 4000K	>70
Oaken 48	30-60W	✓	✓	Up to 11,198lm	2700K, 3000K or 4000K	>70

ELECTRICAL CHARACTERISTICS	Oaken 12	Oaken 24	Oaken 48
System Power	5-30W	5-30W	30-60W
LED CCT	PC-Amber*, 2700K, 3000K or 4000K	2700K, 3000K or 4000K	
LED CRI	>70 (*>55)	>70	
Lumen Output	Up to 4,633lm	Up to 5,568lm	Up to 11,198lm
Lumen Maintenance	Projected L90 after 100,000 hours		
Driver Current	95-800mA	68-630mA	308-626mA
Driver Output	Constant current (with AM dimming)		
Power Factor (Full Load/Half Load)	0.95/0.90		
Driver Efficiency (230V, 50Hz, Full Load)	91%		92%
Operational Voltage	220-240VAC rms		
Operating Frequency	50/60Hz		
Inrush Current (Apk/50%-µS)	25A/236µS		32A/355µS
Running Current (Max)	0.13A		0.25A
Surge Protection (COM/DIF)	10kV/6kV		
Lighting Controls Options	Lumi-LinQ, NEMA 7, Zhaga Book 18 (SR) socket (top and bottom) and PND		
Dimming Protocols	DALI		

MECHANICAL CHARACTERISTICS	
Housing Material	European oak and aluminium
Lens Material	PMMA and PC options
Housing Finish	Natural
Ingress Protection Rating	IP66
Weight	2.5-4.2kg (12 & 24 LED Versions) 2.9-5.1kg (48 LED Version)
Wind Area	0.021m ² (12 & 24 LED Versions) 0.035m ² (48 LED Version)
Impact Resistance Rating	IK10 (body)/IK07 (lens)
Mounting Methods	Post top 76mm or side entry 42mm
Mounting Inclination	Post top: 0° or +5° Side entry: 0° or -5°

ACCESSORIES	
Front/Rear Shield (12 & 24 LED Versions)	83KIT73150
Front/Rear Shield (48 LED Version)	83KIT73151
Side Shield (12, 24 & 48 LED Versions without Lumi-LinQ)	83KIT73152
Side Shield (12 & 24 LED Versions with Lumi-LinQ)	83KIT73186
Side Shield (48 LED Version with Lumi-LinQ)	83KIT73187
35/18 Lux NEMA Cell	66PC1489
20/20 Lux Zhaga Book 18 Cell	66PC1562



FOR MORE INFORMATION

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All information detailed within this datasheet is accurate at the date of issue. The information provided is subject to change at our discretion. If any questions arise or extra information is required, please contact TRT Lighting directly. Oaken Datasheet issue March 2024.