



ToughLED™

High performance LED anti-corrosive

- ToughLED™ Eco version
- Up to 50% energy savings
- High efficiency, up to 93 lpcW
- Quick and easy installation

Advanced LED lighting

ToughLED™ 5 year extended warranty. ToughLED™ Eco 3 year extended warranty.
Requires online registration. Visit jcc.co.uk/warranty to register your product.





ToughLED

WE BELIEVE THAT A MANUFACTURERS' WARRANTY IS YOUR ASSURANCE OF QUALITY.

This is why we have always provided ToughLED™ with an industry leading five year extended warranty.

All of our products comply to the latest lighting standards.



ToughLED Eco

ToughLED™ Eco is provided with a 3 year extended warranty.

TO REGISTER YOUR WARRANTY, SIMPLY GO TO:

jcc.co.uk/warranty

SERVICE & SUPPORT

If you have any questions about the ToughLED™ range, please contact a member of our team.

CUSTOMER SERVICES

01243 838999

TECHNICAL SUPPORT

01243 838986

EMAIL

sales@jcc.co.uk



Zero maintenance, no need to relamp

ToughLED™ provides a true fit-and-forget lighting solution that eliminates the high costs associated with relamping.

Unlike traditional fluorescent, ToughLED's lifespan is not affected by frequent on/off switching. This makes ToughLED™ ideal for use with control systems to further improve energy savings.



Instant start, flicker free performance

Unlike fluorescent lighting, the ToughLED™ range achieves full illumination as soon as they are switched on and provide a smooth, flicker free performance.



Suitable for the harshest environments

ToughLED™ products deliver maximum durability. All products provide IP65 protection against dust and moisture as well as holding an impact rating of IK09. This ensures that ToughLED™ is suitable for the harshest of environments.



Ultra long life

ToughLED™ advanced LED technology provides an L70 rating of 50,000 hours. In contrast, at 3,000 hours 75% of T8 fluorescent lamps would have failed.

ToughLED™ is backed by our industry leading 5 year commercial warranty for complete assurance of reliability.

ToughLED Eco ToughLED



The direct 36W & 58W T8 fluorescent replacement

- Up to 50% energy saving against T8 fluorescent
- Ultra slim profile
- IP65, ideal for use in industrial applications
- Ultra efficient 93 lumens per circuit Watt
- Ideal retrofit solution
- Smooth, even light distribution

20W - 4FT SINGLE > REPLACES 36W T8 FLUORESCENT
1,800 Lumens

30W - 5FT SINGLE > REPLACES 58W T8 FLUORESCENT
2,800 Lumens

50% ENERGY SAVING
50%

93 LUMENS PER CIRCUIT WATT
Up to 93 lpcW

IK09 IK RATING
IK09

IP65 IP RATING
IP65

Outperforms linear fluorescent light output

- Up to 30% greater light output T8 fluorescent
- Quick and easy point for point installation
- Polycarbonate diffuser and body
- Stainless steel anti-tamper clips

49W - 5FT SINGLE > REPLACES 58W T8 FLUORESCENT
4,500 Lumens

98W - 5FT TWIN > REPLACES 2X58W T8 FLUORESCENT
9,000 Lumens

59W - 6FT SINGLE > REPLACES 70W T8 FLUORESCENT
5,400 Lumens

118W - 6FT TWIN > REPLACES 2X70W T8 FLUORESCENT
10,800 Lumens

50% ENERGY SAVING
Up to 30%

92 LUMENS PER CIRCUIT WATT
Up to 92 lpcW

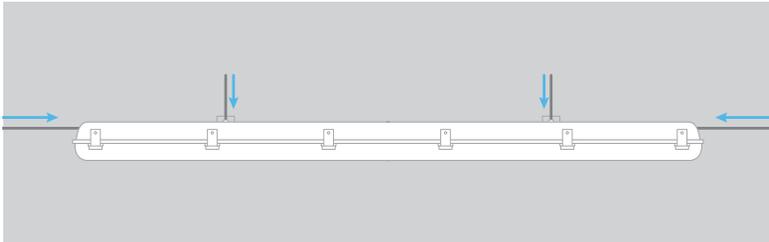
IK09 IK RATING
IK09

IP65 IP RATING
IP65

Quick & easy installation

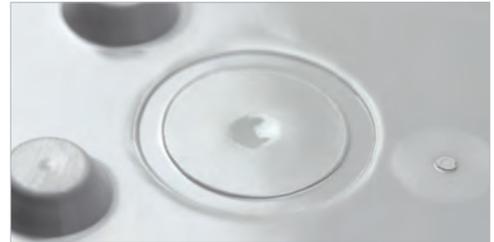
In addition to eliminating maintenance costs ToughLED™ is quick and easy to install, meaning new-builds go up quicker and retrofits suffer less downtime.

- Detachable LED gear tray with retainer clips for quick access to the inside of the fitting
- ToughLED™ is available with 1.5m chain suspension kit option (JC71525 single & JC71526 twin)



MULTIPLE CONDUIT ENTRY OPTIONS

Knockouts at the back and ends of the fitting, plus conduit entry provide multiple wiring options covering all installations.



REAR WIRING ACCESS

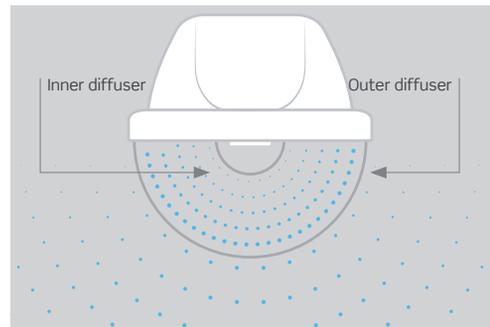
Conduit entries on the back of ToughLED™ allow for easy wiring access.

Wide beam light distribution

TOUGHLED'S DUAL DIFFUSER SYSTEM PROVIDES LIGHT DISTRIBUTION THAT IS DIRECTLY COMPARABLE TO TRADITIONAL FLUORESCENT

With similar dimensions to fluorescent fittings, ToughLED™ can easily be used as a direct like-for-like replacement. This means that the number of fittings and their spacing doesn't have to change, but areas appear brighter and more evenly lit, while also helping to significantly reduce electricity costs.

With over 90 lumens per circuit Watt, ToughLED™ is fully compliant with all building regulations. It's outstanding levels of efficiency also significantly contribute towards the reduction in a building's carbon footprint, further helping businesses to meet government guidelines and targets.



The LED chips are protected by a thin inner diffuser designed to reduce glare but maximise efficiency, while the rugged polycarbonate outer diffuser provides a super-wide beam angle.

ToughLED™ lasts over 15x longer compared to fluorescent lamps with frequent on/off switching

Frequent on/off switching will reduce the lifespan of a T8 fluorescent lamp by up to 75% and ultimately fail after an average of 3,000 hours. ToughLED's 50,000 hour lifespan is not shortened by frequent on/off switching.

✓ NO NEED TO RELAMP

✓ ZERO MAINTENANCE COSTS

✓ ENSURES MAXIMUM SAFETY

TOUGHLED™ + MICROWAVE ON/OFF = 50,000hrs

T8 FLUORESCENT + MICROWAVE ON/OFF = 3,000hrs

High quality, durable construction

ToughLED™ sturdy construction makes it ideal for car parks, warehouses, cold stores & food preparation areas

WIRING ENTRY POINT

Entry points are located on the back and ends of ToughLED™.

STAINLESS STEEL ANTI-TAMPER CLIPS

Stainless steel clips ensure that the diffuser remains connected during installation and for increased durability features screw fit tamper proof clips.

ONE PIECE INNER DIFFUSER

The inner diffuser removes any harsh glare from the LED chips that could be dangerous in industrial environments.

HIGH SPECIFICATION LED ARRAY

Using a linear LED configuration, ToughLED™ provides crisp, clean light with a cool 4000K colour temperature, designed to make areas appear brighter and provide increased sense of security.

POLYCARBONATE DIFFUSER

Corrosion and impact resistant base and diffuser for durable, maintenance free operation.

UNIQUE CONNECTION STRAP

The unique strap connects the back to the body, ensuring easy installation.



ToughLED™ Eco 4ft

DIRECT 36W T8 FLUORESCENT REPLACEMENT



1800 Lumens
4000K



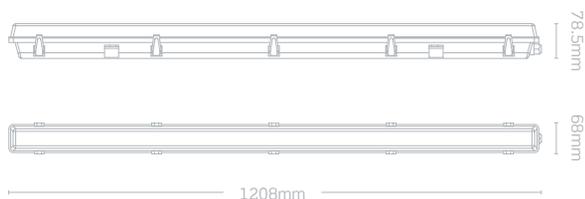
20W LED
TOTAL WATTAGE



90 LpcW
LUMENS PER CIRCUIT WATT

- Ultra efficient 90 lumens per circuit Watt
- 45% energy saving
- Ideal retrofit solution
- Zero maintenance, no need to relamp
- Smooth, even light distribution
- IP65, ideal for use in industrial and external applications
- Ultra slim profile
- Instant start up, flicker-free performance
- Polycarbonate diffuser and body
- NEW available in emergency

✓ JC71541



CODE	DESCRIPTION	COLOUR TEMP.	LED	LUMENS	LPCW	IP
JC71541	ToughLED™ Eco 4ft single	4000K	20W	1800	90	IP65
JC71541EM	ToughLED™ Eco 4ft single emergency	4000K	20W	1800	90	IP65
JC71527	Stainless steel clip accessory for ToughLED™ Eco 4ft	-	-	-	-	-

ToughLED™ Eco 5ft

DIRECT 58W T8 FLUORESCENT REPLACEMENT



2800 Lumens
4000K



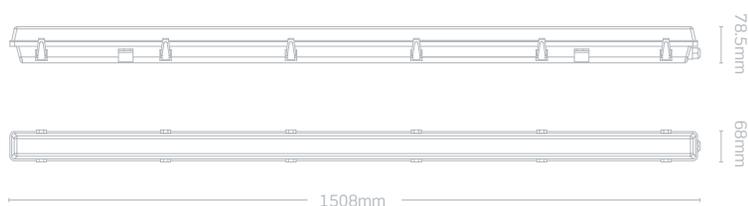
30W LED
TOTAL WATTAGE



93 LpcW
LUMENS PER CIRCUIT WATT

- Ultra efficient 93 lumens per circuit Watt
- 49% energy saving
- Ideal retrofit solution
- Zero maintenance, no need to relamp
- Smooth, even light distribution
- IP65, ideal for use in industrial and external applications
- Ultra slim profile
- Instant start up, flicker-free performance
- Polycarbonate diffuser and body
- NEW available in emergency

✓ JC71542



CODE	DESCRIPTION	COLOUR TEMP.	LED	LUMENS	LPCW	IP
JC71542	ToughLED™ Eco 5ft single	4000K	30W	2800	93	IP65
JC71542EM	ToughLED™ Eco 5ft single emergency	4000K	30W	2800	93	IP65
JC71528	Stainless steel clip accessory for ToughLED™ Eco 5ft	-	-	-	-	-

ToughLED™ 5ft

THE DIRECT 5FT T8 FLUORESCENT REPLACEMENT

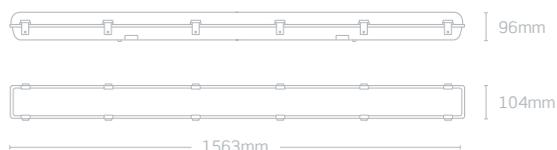
- Outperforms linear fluorescent light output
- Up to 30% energy saving against linear fluorescent
- Instant start up, flicker free
- Quick and easy point for point installation
- Polycarbonate diffuser and body, suitable for food preparation areas
- Stainless steel anti-tamper clips
- Product life not affected by on/off switching
- Microwave and dimmable options available

✓ JC71501 | 5ft Single



✓ JC71503 | 5ft Twin

5FT SINGLE



5FT TWIN



CODE	DESCRIPTION	COLOUR TEMP	LED	LUMENS	LPCW	IP
JC71501	ToughLED™ 5ft single	4000K	49W	4500	92	IP65
JC71509	ToughLED™ 5ft single microwave on/off	4000K	49W	4500	92	IP65
JC71509SD	ToughLED™ 5ft single microwave dimming	4000K	49W	4500	92	IP65
JC71505	ToughLED™ 5ft single emergency	4000K	49W	4500	92	IP65
JC71503	ToughLED™ 5ft twin	4000K	98W	9000	92	IP65
JC71511	ToughLED™ 5ft twin microwave on/off	4000K	98W	9000	92	IP65
JC71511SD	ToughLED™ 5ft twin microwave dimming	4000K	98W	9000	92	IP65
JC71507	ToughLED™ 5ft twin emergency	4000K	98W	9000	92	IP65
JC71525	ToughLED™ 1.5M chain suspension kit (single)	-	-	-	-	-
JC71526	ToughLED™ 1.5M double chain suspension kit (twin)	-	-	-	-	-

For 1-10V, DSI and DALI variants, add as suffix to code

ToughLED™ 6ft

THE DIRECT 6FT T8 FLUORESCENT REPLACEMENT

- Outperforms linear fluorescent light output
- Up to 30% energy saving against linear fluorescent
- Instant start up, flicker free
- Quick and easy point for point installation
- Polycarbonate diffuser and body, suitable for food preparation areas
- Stainless steel anti-tamper clips
- Product life not affected by on/off switching
- Microwave and dimmable options available

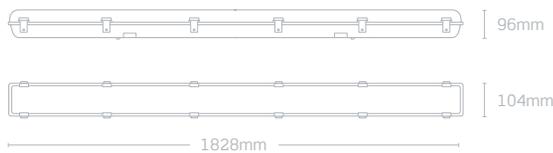
✓ JC71502 | 6ft Single



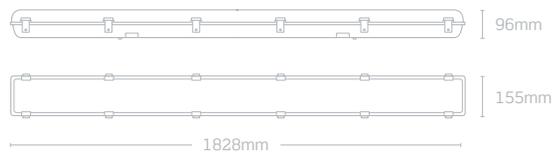
✓ JC71504 | 6ft Twin



6FT SINGLE



6FT TWIN



CODE	DESCRIPTION	COLOUR TEMP	LED	LUMENS	LPCW	IP
JC71502	ToughLED™ 6ft single	4000K	59W	5400	92	IP65
JC71506	ToughLED™ 6ft single emergency	4000K	59W	5400	92	IP65
JC71510	ToughLED™ 6ft single microwave on/off	4000K	59W	5400	92	IP65
JC71504	ToughLED™ 6ft twin	4000K	118W	10,800	92	IP65
JC71508	ToughLED™ 6ft twin emergency	4000K	118W	10,800	92	IP65
JC71512	ToughLED™ 6ft twin microwave on/off	4000K	118W	10,800	92	IP65
JC71525	ToughLED™ 1.5M chain suspension kit (single)	-	-	-	-	-
JC71526	ToughLED™ 1.5M double chain suspension kit (twin)	-	-	-	-	-



Provides outstanding cost savings

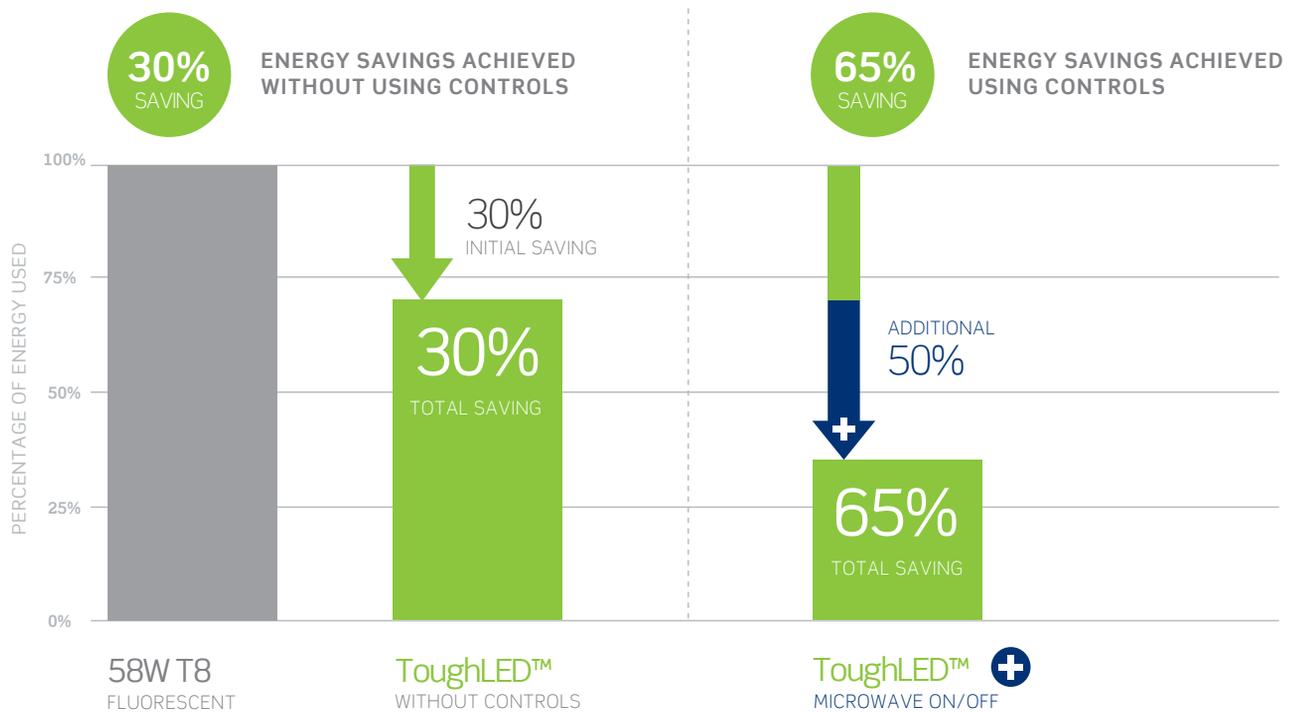
 ANNUAL COST SAVING £2,146.20	 LIFETIME COST SAVING £10,731.00	 LIFETIME CO₂ REDUCTION 28.6T/CO₂e	 EXTENDED WARRANTY 5 years
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Based on **50 ToughLED™ 6ft Twin** vs **50 2x70W traditional fluorescent fittings**.
Annual usage of 12 hours per day, 365 days per year over 5 years. Energy tariff £0.15 per kWh.

Reduce your energy use by up to 65%

Microwave sensing option provides additional energy savings

For an increased energy saving, ToughLED™ (standard fitting) is available with an external microwave sensor which is activated by both movement and daylight (photocell). This ensures that ToughLED™ remains on only when required and switches off when no motion is detected.



When combining ToughLED™ with occupancy on/off sensing, an astonishing 65% energy savings can be achieved against 58W T8 fluorescent without compromising safety in the workplace.

* Microwave sensor available for ToughLED™ products (excluding Eco).

Wide detection range for precision control



8M WIDE DETECTION RANGE

The wide 8m detection range allows installers to control specific high footfall and low footfall areas using both on/off and step dimming sensing. The detection range can be adjusted up to 25% by using the dip switches.



UP TO 6M MOUNTING HEIGHT

The Leviton® microwave sensor is suitable for mounting heights up to 6m making it the ideal solution for higher ceilings.

ToughLED Eco

CODE	DESCRIPTION	COLOUR TEMP.	LED	LUMENS	LPCW	IP
JC71541	ToughLED™ Eco 4ft single	4000K	20W	1800	90	IP65
JC71541EM	ToughLED™ Eco 4ft single emergency	4000K	20W	1800	90	IP65
JC71542	ToughLED™ Eco 5ft single	4000K	30W	2800	93	IP65
JC71542EM	ToughLED™ Eco 5ft single emergency	4000K	30W	2800	93	IP65

ToughLED 5ft

CODE	DESCRIPTION	COLOUR TEMP	LED	LUMENS	LPCW	IP
JC71501	ToughLED™ 5ft single	4000K	49W	4500	92	IP65
JC71509	ToughLED™ 5ft single microwave on/off	4000K	49W	4500	92	IP65
JC71509SD	ToughLED™ 5ft single microwave dimming	4000K	49W	4500	92	IP65
JC71505	ToughLED™ 5ft single emergency	4000K	49W	4500	92	IP65
JC71503	ToughLED™ 5ft twin	4000K	98W	9000	92	IP65
JC71511	ToughLED™ 5ft twin microwave on/off	4000K	98W	9000	92	IP65
JC71511SD	ToughLED™ 5ft twin microwave dimming	4000K	98W	9000	92	IP65
JC71507	ToughLED™ 5ft twin emergency	4000K	98W	9000	92	IP65
JC71525	ToughLED™ 1.5M chain suspension kit (single)	-	-	-	-	-
JC71526	ToughLED™ 1.5M double chain suspension kit (twin)	-	-	-	-	-

For 1-10V, DSI and DALI variants, add as suffix to code

ToughLED 6ft

CODE	DESCRIPTION	COLOUR TEMP	LED	LUMENS	LPCW	IP
JC71502	ToughLED™ 6ft single	4000K	59W	5400	92	IP65
JC71506	ToughLED™ 6ft single emergency	4000K	59W	5400	92	IP65
JC71510	ToughLED™ 6ft single microwave on/off	4000K	59W	5400	92	IP65
JC71504	ToughLED™ 6ft twin	4000K	118W	10,800	92	IP65
JC71508	ToughLED™ 6ft twin emergency	4000K	118W	10,800	92	IP65
JC71512	ToughLED™ 6ft twin microwave on/off	4000K	118W	10,800	92	IP65
JC71525	ToughLED™ 1.5M chain suspension kit (single)	-	-	-	-	-
JC71526	ToughLED™ 1.5M double chain suspension kit (twin)	-	-	-	-	-

ToughLED Accessories

CODE	DESCRIPTION	COLOUR TEMP.	LED	LUMENS	LPCW	IP
JC71525	ToughLED™ 1.5m chain suspension kit (single)	-	-	-	-	-
JC71526	ToughLED™ 1.5m double chain suspension kit (twin)	-	-	-	-	-
JC71527	Stainless steel clip accessory for ToughLED™ Eco 4ft (JC71541)	-	-	-	-	-
JC71528	Stainless steel clip accessory for ToughLED™ Eco 5ft (JC71542)	-	-	-	-	-

Calculate your own cost saving

DOWNLOAD OUR COST SAVING CALCULATOR

Download JCC's free cost saving app to see how much money you could save by using any ToughLED™ fitting. Simply enter the number of fittings that you require and see your precise energy reduction and cost savings.



JCC's cost saving app is available for free on both iOS & Android devices.

