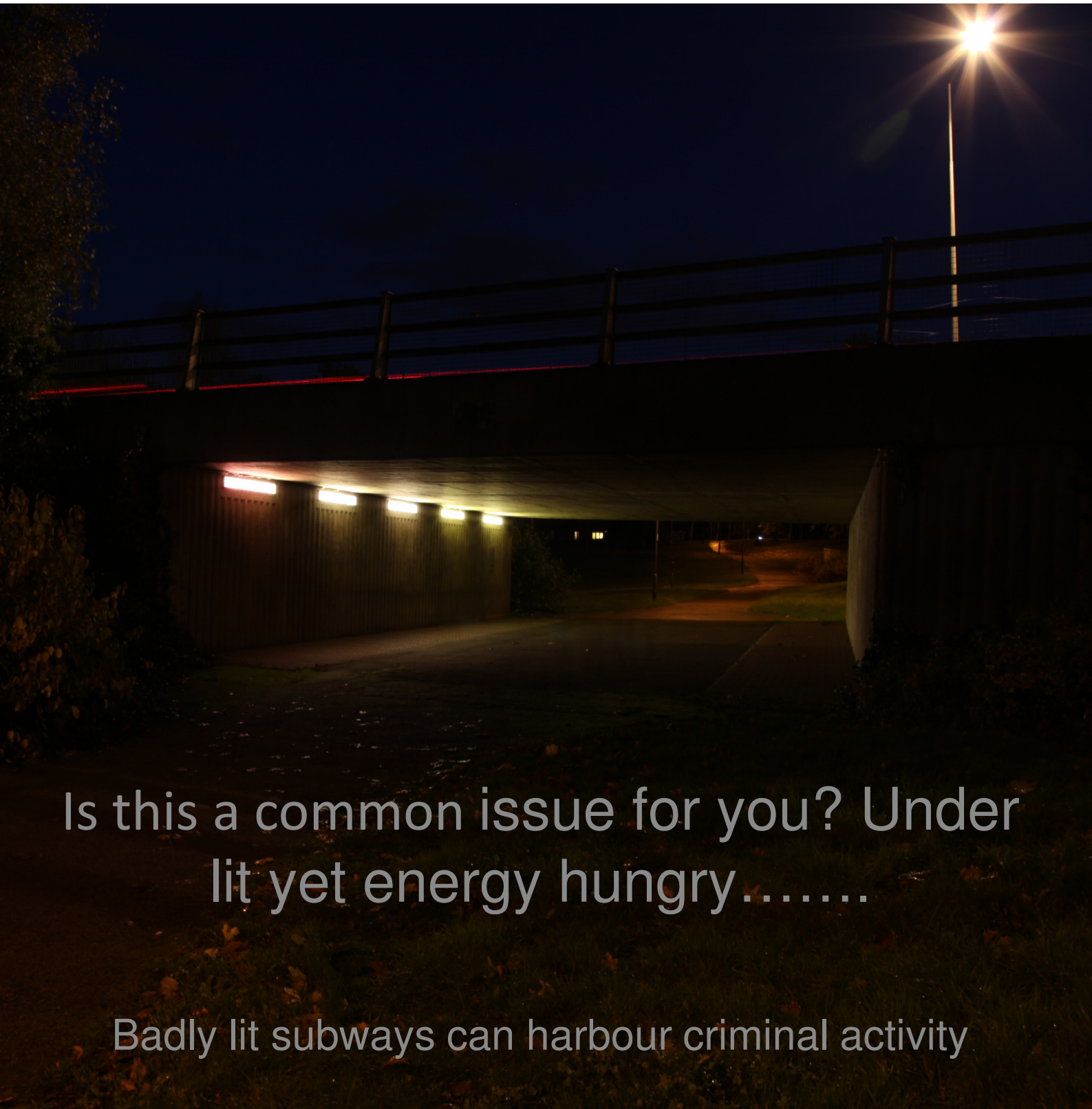




# Underpasses and Subways



Is this a common issue for you? Under lit yet energy hungry.....

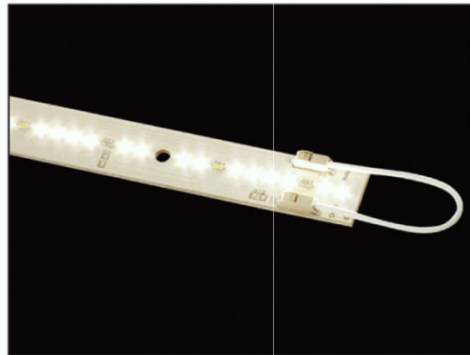
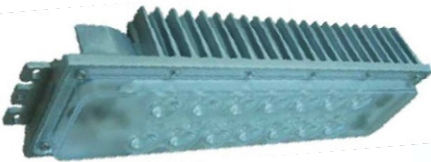
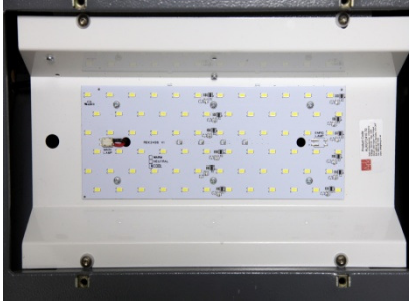
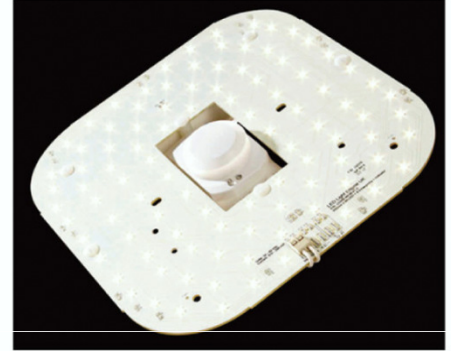
Badly lit subways can harbour criminal activity



# Simple Retro fit LED solutions.....

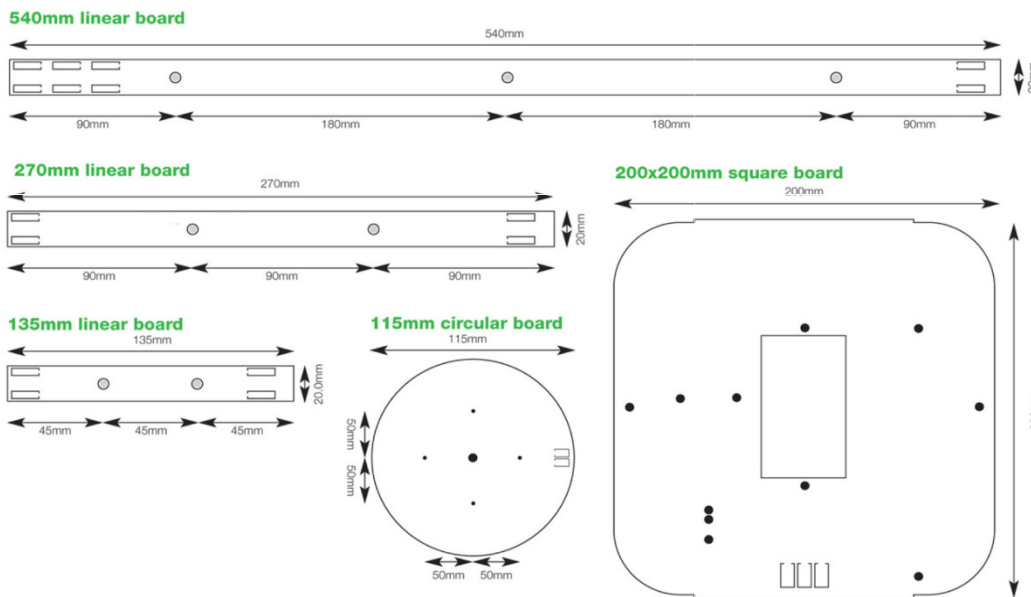
LED Light Engines are made in the UK to the highest standards with the best selected LEDs.

- Use high quality Nichia LEDs
- 130 lumens per watt
- No heat sink required
- On-board emergency solution
- FR board for standard output
- Aluminium board for high output



- Easy to install into new fittings or retrofit
- Wago push-wire connectors
- Dimming, sensor and emergency compatible
- Designed for industry standard LED drivers
- Various colour temperatures available
- 5 year warranty - 50,000 hours
- CRI Ra 80

## Product drawings



Install in minutes....

Reduce energy dramatically

Improve lighting

Light engine	Standard output			High output
	500mA	700mA	1050mA	700mA
135mm linear board	200lm 1.5W	280lm 2.1W	420lm 3.2W	540lm 4.2W
270mm linear board	400lm 3.1W	560lm 4.3W	840lm 6.5W	1040lm 8.0W
540mm linear board	786lm 6.1W	1100lm 8.6W	1650lm 12.9W	2100lm 16.0W
200x 200mm area board	1200lm 9.3W	1680lm 13.0W	2520lm 19.5W	3100lm 24.5W
115mm Ø circular board	960lm 7.7W	1350lm 10.8W	2000lm 16.2W	2500lm 20.3W

Lumen outputs based on 5000K



The results speak for themselves.....





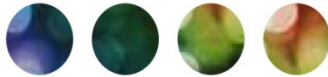
## Case Study – Milton Keynes

In Milton Keynes, Ark Lighting have been commissioned to design and develop a lighting solution for use in local subways that will save energy and will reduce carbon and maintenance requirements. They have developed a solution that will replace T5 and T8 Fluorescent tubes, 2D Fluorescent bulkheads and 70w SON Bulkhead fittings with retro fit LED products. These custom designed LED products are easy and quick to place, reducing maintenance costs significantly, energy consumption and carbon emissions by 65%\*.

Further benefits for Milton Keynes will include:

- 1) - Lifetime savings of £1.8m\*.
- 2) - Annual savings of £145k\*.
- 3) - Annual Carbon savings of 65% (329,000kg)\*.
- 4) - Annual maintenance savings of £82\*k.
- 5) - Payback of only 14 months\*.

Steve Lain, Interim Street Lighting Manager comments, “It was refreshing to work with Ark Lighting to find an energy saving solution for our pedestrian subway lighting installations. We needed a company with experience and above all solutions to be able to deliver the level of energy savings that will see the capital cost repaid in under 5 years. Working with our term contractor, Ark had the right products including the production of a special tray that would replace the existing light tray and gear with a simple to install LED light tray along with other LED solutions that will transform Milton Keynes for years ahead”.



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