



HI-LITE™ 30 | BORDER

Hi-Lite™30 Border is the standard product in the range of LED illuminated acrylic contour tube. It features white Light Emitting Diodes (LEDs) as its light source and is available in 7 standard colours to provide a consistent, efficient and effective illuminated colour.

Hi-Lite™30 Border features these outstanding benefits;

Energy efficient



All our LED contour products are ultra-efficient, with power consumption as low as 1w per metre in some configurations. All the LED chips we use feature class-leading efficacy and L70 values.

Healthy lifespan



All our products have a long lifetime compared to both traditional cold-cathode and neon alternatives. Indeed, we have sites still operating that are nearly 20 years old! We carefully select the best quality LEDs from top-line suppliers such as Osram, Nichia and Samsung. Even then we test parts in-house for extended periods to ensure that manufacturers data and lifetime predictions hold up.

Safety



Unlike neon or cold cathode tubes, Hi-Lite™30 is cool and safe to touch, perfect for public areas. Power Supply Units (PSUs) are IP67 rated for outdoor installation and are fitted with our unique Patented [EP1479271] 'Current Sense Circuit' (CSC) system as standard; the CSC constantly monitors the health of an installation and in the unlikely event of a fault being detected, the low-voltage supply will be removed. Whilst the CSC is a safety feature, it can also assist with troubleshooting and will provide information to the user on the type of fault.

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The benefits (continued)

Easy to install



All our tube products are quick and easy to install. Robust, pre-drilled clips hold sections securely in place whilst being discreetly hidden out of sight behind the tubes. Integrated connection wires, terminated with IP67 rated connectors, allow tubes to be daisy-chained into longer runs – a true plug-and-play system. The low power requirements, coupled with constant-current drive technology, minimises the number of power supplies required for each installation. This in turn reduces the time and cost for the installer when fixing and connecting the tubes.

The robust tubes come in a standard length of 2,400mm (7'9") and 1,200mm (3'9") and can be cut on site at 50mm (2") intervals. Full details of the installation process are given in our installation guide and 'Tech Talk' video clips (available on YouTube), which provide more detail about specific aspects, such as the process of cutting tubes to length, or the operation of the CSC system.

Reliability



Hi-Lite™30 tubes are factory sealed with endcaps fixed by an advanced ultrasonic welding process. They are then individually tested to ensure they are fully weatherproof and ready to provide a long, maintenance free, life. All products are covered by a 5-year warranty.

Perfect illumination










Hi-Lite™30 tubes are manufactured in the UK from recyclable materials. The impact modified PMMA (acrylic) used for the extruded profile features inherently superior UV performance when compared to polycarbonate or PVC alternatives. The colour pigments used are all rated at the maximum 8 on the blue wool scale, ensuring resistance to fading.

A standard range of vibrant colours is available, but it is also possible to match a customer's specific corporate brand design. Whether unilluminated during daylight, or lit at night, the coloured identity is maintained when using our Hi-Lite™30 Classic, Border or Duo range of products. By the careful design and specification of the LEDs inside the tube, and the use of unique diffusing additives in the extrusion itself, a consistent linear illumination effect is achieved without the localised hot spots seen on many inferior products.

The specification

Housing Material	Extruded PMMA composite
Standard tube length	2.4m (7'9") nominal
Input voltage	40V - 46V D.C.
Ingress protection	Independently tested to IP66
Operating temperature range	-30°C to +60°C
Storage temperature range	-40°C to +70°C
Connector system	JST JWPF range
Clip material	Polycarbonate (clear)
Weight - 2.4m (7'9") tube	0.67kg net
Underwriters Laboratory (UL) approved	Conforms to UL 48

Colour reference and power supply units

Colour	Colour ref.	Code	Brightness	Nominal W/m	Power Supply Units (PSU)			
					Maximum length based on wattage (W)			
					20W	40W	96W	240W
 Lime Green	PMS 368C	G9	1,700cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 Cobalt Blue	PMS 280C	B9	150cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 Lemon Yellow	PMS 116C	Y9	2,000cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 Tangerine Orange	PMS 172C	O9	650cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 Honey Yellow	PMS 7406C	H9	1,600cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 Candy Red	Candy Red	R9	300cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50
 White	White	W9	2,250cd/m ²	5.0W	4m (13' 1")	8m (26' 2")	19m (62.3")	48m (157' 5") Split 50/50

Hi-Lite™ 30 Border order codes

Order code	Length	Colour
HL3-AS-B9-240	2,400 Straight Section	Cobalt blue
HL3-AA-B9-240	2,400 Field-Adjustable Straight Section	Cobalt blue
HL3-AA-B9-120	1,200 Field-Adjustable Straight Section	Cobalt blue
HL3-AS-G9-240	2,400 Straight Section	Lime green
HL3-AA-G9-240	2,400 Field-Adjustable Straight Section	Lime green
HL3-AA-G9-120	1,200 Field-Adjustable Straight Section	Lime green
HL3-AS-O9-240	2,400 Straight Section	Tangerine orange
HL3-AA-O9-240	2,400 Field-Adjustable Straight Section	Tangerine orange
HL3-AA-O9-120	1,200 Field-Adjustable Straight Section	Tangerine orange
HL3-AS-R9-240	2,400 Straight Section	Candy red
HL3-AA-R9-240	2,400 Field-Adjustable Straight Section	Candy red
HL3-AA-R9-120	1,200 Field-Adjustable Straight Section	Candy red
HL3-AS-W9-240	2,400 Straight Section	White
HL3-AA-W9-240	2,400 Field-Adjustable Straight Section	White
HL3-AA-W9-120	1,200 Field-Adjustable Straight Section	White
HL3-AS-Y9-240	2,400 Straight Section	Lemon yellow
HL3-AA-Y9-240	2,400 Field-Adjustable Straight Section	Lemon yellow
HL3-AA-Y9-120	1,200 Field-Adjustable Straight Section	Lemon yellow
HL3-AS-H9-240	2,400 Straight Section	Honey yellow
HL3-AA-H9-240	2,400 Field-Adjustable Straight Section	Honey yellow
HL3-AA-H9-120	1,200 Field-Adjustable Straight Section	Honey yellow