

REDUCING COSTS, IMPROVING LIGHTING



UP TO
37,800
LUMENS

87-121
L_M/W

70,000
HOUR L₇₀

>70—>90
CRI

IP54

3 X
CREE LED

5 YEAR
WARRANTY



ENDURANCE LED

The powerful Endurance LED is capable of producing up to 37,800 lumens. It is available in three versions with lumen and colour rendering options to suit all performance requirements.

Developed to meet the needs of large scale interior lighting, Endurance LED is highly efficient, with ratings from 130 - 330W and achieving efficacy of up to 87 - 121 L_M/W.

The units are suitable replacements for metal halide fittings because of their high efficacy and minimal maintenance requirements, only depreciating to 70% brightness after 16 years (at 12 hours operation per day).

Manufactured in the UK from the latest and highest quality components, featuring a 5 year, unlimited use warranty.

Our LED range is eligible for the UK Enhanced Capital Allowance (ECA) scheme. This enables businesses to write off the entire cost of purchasing against their taxable profits in the same year, which can reduce the 'cash out of pocket' cost to businesses by up to 23%.

APPLICATIONS

INDUSTRIAL: Industrial, warehousing and hangar

COMMERCIAL: Sports, retail and public spaces

ULTRA: Film / TV, high end sports, colour critical industrial and museums.

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Light Source

LED's	3 x CREE High Power White LED's
Light Output & Temperatures	5000K Cool White 11,900 - 37,800 Lm
L ₇₀ *	70,000 hours
CRI	70 / 80 / 90
Beam Angles	90° Unified Glare Control 110° Ultra Wide 90° x 130° Very Wide Asymmetric 45° Medium Symmetrical 30° Narrow Asymmetric 25° Narrow
Brightness	No warm-up or re-strike time to full brightness
Flicker Free	Continuous current provides flicker-free light

Electrical

Power Supply	100 - 277 VAC, 130W / 260W / 330W max, 50 - 60Hz self adjusting PSU
Power Factor	0.94
Power Cable	1.2m captive

Physical

Finish	Silver high quality AkzoNobel Interpon architectural powder coating (custom RAL colours and screen print branding available on request)
Mounting	Suspension /Right angle /Low profile / Handle options (see Fixings, page 3)
Mounting Height	Up to 4+m to achieve a minimum 200 lux at floor level (variable by configuration). Contact Chalmor for design advice.
Dimensions	355cm W x 250cm H x 115cm D
Weight	6.3kg + Fixings: Suspension: 0.12kg / Bracket: 0.12kg /Handle: 0.40kg /Wall Bracket: 0.70kg /Double Bracket: 1.06kg

Quality and Reliability

Quality & Reliability	This product is manufactured in UK using high quality components. The units are load tested thoroughly before leaving the factory.
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Operating Conditions and Precautions

Safety	This fitting has automatic thermal management to protect from overheating. The fixture is also F Marked for mounting on normally combustible surfaces.
Temperature	-20°C - +45°C
Environment	Indoor / dry conditions up to IP54
Compliance	CE marked and compliant with RoHS directive and ECA.

Ordering Options

LED / NCE / (WATTS) / (CRI) / (B) / (MOUNTING)

See Ordering Number logic chart, page 4.

Guarantee

5 year unlimited system warranty as standard.

*LEDs do not fail in the same way as conventional light fittings. Light output gradually diminishes in an LED source unlike other luminaires where failure would occur before significant depreciation. L₇₀ is the point at which light output has fallen to 70% of its original value, an industry standard measurement and rule of thumb for LED luminaire replacement. L₈₅, the depreciation to 85% is an indicator for maintenance, at this stage a replacement driver may be required.

Disclaimer

Due to continual research and product development, this specification is subject to change without notice.





ENDURANCE LED MOUNTING OPTIONS

NCE - SUSPENSION



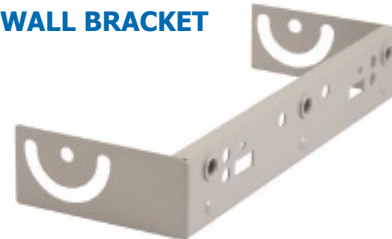
NCE - BRACKET



NCE - HANDLE



NCE - WALL BRACKET



NCE - DOUBLE BRACKET



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ENDURANCE LED PRODUCT ORDERING TABLE

ORDER CODE	WATTS	LUMENS	Lm / w (MAX)	CRI	BEAM ANGLE
LED / NCE / 130 / 70	130	15700	121	>70	1: 90° 2: 110° 3: 90°x 30° 4: 45° 5: 30° 6: 20°
LED / NCE / 165 / 70	165	18900	114		
LED / NCE / 260 / 70	260	31000	121		
LED / NCE / 330 / 70	330	37800	114		

ORDER CODE	WATTS	LUMENS	Lm / w (MAX)	CRI	BEAM ANGLE
LED / NCE / 130 / 80	130	14700	113	>80	1: 90° 2: 110° 3: 90°x 30° 4: 45° 5: 30° 6: 20°
LED / NCE / 165 / 80	165	17700	107		
LED / NCE / 260 / 80	260	29400	113		
LED / NCE / 330 / 80	330	35400	107		

ORDER CODE	WATTS	LUMENS	Lm / w (MAX)	CRI	BEAM ANGLE
LED / NCE / 130 / 90	130	11900	92	>90	1: 90° 2: 110° 3: 90°x 30° 4: 45° 5: 30° 6: 20°
LED / NCE / 165 / 90	165	14400	87		
LED / NCE / 260 / 90	260	23800	92		
LED / NCE / 330 / 90	330	28800	87		

ORDERING NUMBER	BEAM ANGLE
	See charts on page 5 for beam angle diagrams
1	90° Unified Glare Control
2	110° Ultra Wide
3	90° x 130° Very Wide Asymmetric
4	45° Medium Symmetrical
5	30° Narrow Asymmetric
6	25° Narrow

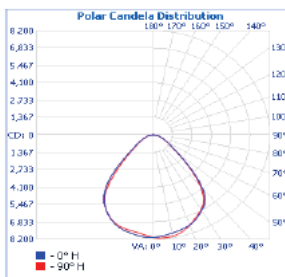




ENDURANCE LED BEAM ANGLES

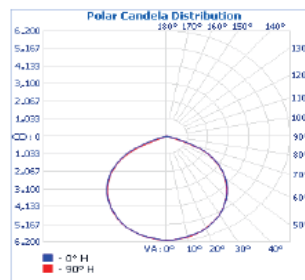
90° Unified Glare Control

- 90°
- More unified light source
- Best for: Sports, open areas, Factories, warehouses, retail, low glare.



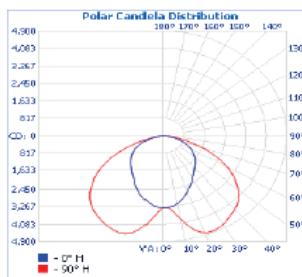
110° Ultra Wide

- 110°
- Widest symmetrical beam pattern
- Best for: Wide open spaces, open warehouses, storage, efficiency



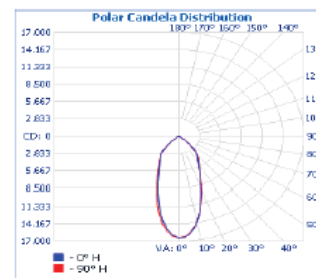
90° x 30° Very Wide Asymmetric

- 90° x 130°
- Asymmetrical, very wide
- Best for: Very wide open spaces with a small number of fixtures.



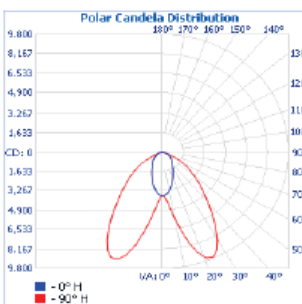
45° Medium Symmetrical

- 45°
- Medium symmetrical beam
- Best for: Particularly high warehouses / factories, aircraft hangers, sports.



30° Narrow Asymmetric

- 30° x 80°
- Narrow asymmetric beam
- Best for: Even lighting for aisles in warehouses.



25° Narrow

- 25°
- Narrowest beam angle
- Best for: Very high buildings requiring high lux levels.

