

MONDOLUX™

HIGH
EFFICACY
160lm/W
at CRI90*



Hartley HE

Leading the way in sustainable lighting

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Introducing new Hartley HE, our highly efficient spotlight that leads the way in sustainable lighting. Delivering class-leading system efficacy 160lm/W* and premium light quality.

This compact spotlight uses specially designed laser-cut reflectors, an integral driver and leading innovation, high efficiency COB LED, Hartley HE is considered and minimal. The head has a rotation angle up to 350°, which can illuminate display bays and entrances beautifully. An ideal, economical solution for all retail and commercial applications.

Key Features

- Performance: delivering class-leading system efficacy up to 160lm/W at CRI90* and premium light quality
- Photometric excellence: CRI90, CQS 90 and TM-30 90 with impressive colour consistency of 2-Step MacAdam Ellipse
- Durability: improved life expectancy due to reduced drive current with lumen maintenance (L70) 64,000 hours
- Optic: specially designed high efficiency laser-cut reflector
- Packaging: With reduced packaging and no plastic, Hartley HE uses recycled paper stuffing to protect the fitting along with sustainable bulk packaging made from recycled paper to reduce wastage
- Smart design: going green doesn't mean sacrificing style with its compact size, Hartley HE is considered and minimal. Housing is aluminium die-cast with recycled content complying with the requirements of JIS H5302:2006 (Test Method JIS H1305:2005), LBC **Red List Free**

* Test data used for sample with 4000K and a spot beam angle.

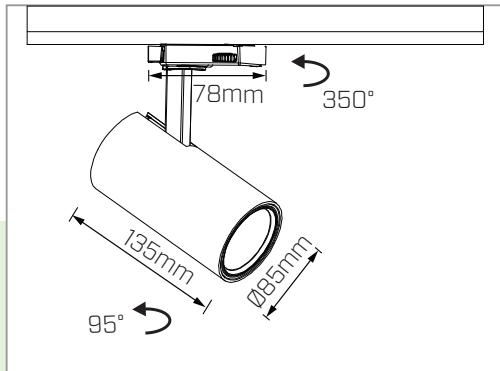
Standard LED Spotlight vs. Hartley HE

Lighting can consume up to 40% of energy in commercial premises, depending on the nature of the business and type of lighting used. In Australia, the power sector emits 656.4 grams of carbon dioxide per kilowatt-hour (gCO₂/kWh) of electricity generated in 2020. Australia is the world's 14th highest emitter, contributing just over 1 per cent of global emissions. It's no secret that combatting global warming is one of the biggest

and most important challenges of the 21st century. Within the lighting industry there is an increasing demand for environmentally conscious partners. Advances in LED lighting technology provide the easiest pathway to reduce carbon and greenhouse gas emissions generated in the built environment, however Hartley HE reaches the goal to offer an impressive luminaire with the smallest footprint.

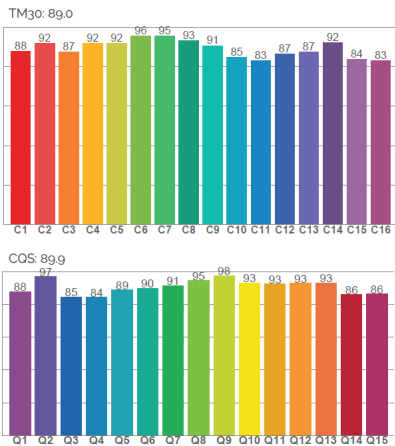
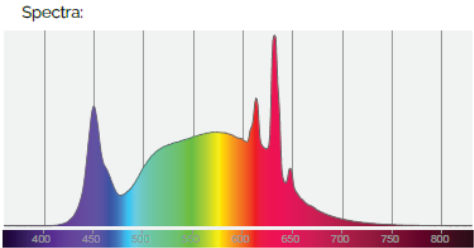
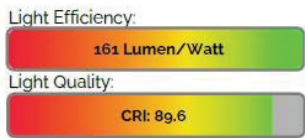
Available Options

- Lumen Output: Up to 4500lm (optimum 3000lm)
- System Power: Up to 32W (optimum 18W)
- Reflector Option: 18°, 28°, 36°, 55°
- Control Type: On/Off (DALI, Phase-cut and CASAMBI)
- Body/Trim Finish: White, Black
- Colour Temperature (CCT): 3000K, 3500K, 4000K and pure white
- Colour Rendering Index (CRI): CRI90
- MacAdam Ellipse: 2-Step
- Driver: 50,000 hrs Tridonic driver



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Hartley HE Photometric Values



Spotlight Comparison

Standard LED Spotlight CRI90	
Quantity	100 (average quantity for a retail store)
System Power (W)	35W
Luminous Efficacy (Lm/W)	80lm/W
Total lumen per luminaire	2,800
Total kW	3.5 kW
kWh (p.a)	12,740

Mondolux Hartley HE Spotlight CRI90	
Quantity	100 (average quantity for a retail store)
System Power (W)	17.5W
Luminous Efficacy (Lm/W)	160lm/W*
Total lumen per luminaire	2,800
Total kW	1.75 kW
kWh (p.a)	6,370

When compared to a Standard LED Spotlight using the example above, Hartley HE generates:



6,370 kWh (p.a) total power savings



Reducing 6,816 kg of carbon dioxide equivalent (tCO₂e) (p.a) green house gas emissions



Saving 2,525 kg of coal burned



The equivalent of 73 Blue Mallee Eucalyptus tree seedlings grown for 14 years (p.a)



The equivalent of 549,132 smartphones charged

* Test data used for sample with 4000K and a spot beam angle.

Resources:

For further information on the energy savings and return of investment analysis, please contact us.

<https://www.energy.gov.au/business/equipment-and-technology-guides/lighting>
<https://www.statista.com/statistics/1190081/carbon-intensity-outlook-of-australia/>
<https://www.csiro.au/en/research/environmental-impacts/climate-change/climate-change-qa/sources-of-ghg-gases>
<https://researchrepository.murdoch.edu.au/id/eprint/50274/1/Firth2019.pdf>
<https://www.co2australia.com.au/how-much-carbon-does-a-tree-offset-which-tree-is-best/>
<https://www.powershop.com.au/carbon-calculator/>
<https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references#seedlings>

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