

Taking Fluorescent Lighting to the next evolution

With energy efficiency on everyone's agenda, the development team at ESL have designed a solution that is setting the benchmark. Not only do we provide a cleaner, greener solution to your lighting requirements but you get a safer working platform in which to do business. With significant reductions in electricity use, not only will the environment benefit but your bottom-line will too.



Brighten your world. Change the colour in your life...

The biggest issue that can be seen - or more precisely, not seen - is that most current warehouse lighting systems only produce a select portion of the visible spectrum. This limits your eye's ability to use the illuminance to its potential. Providing light that spans the full colour spectrum expands visual utilisation to enhance what you can see. That's a real eye opener!

Being blue, not green is the real key.

Studies have shown that adding light from the blue end of the colour spectrum increases the eye's capability to take in light. ESL NextG products utilise rare-earth tri phosphors to cover the complete colour spectrum, enhancing the light, making it more usable.

A lesson in how not to be a loser

With incandescent and High Intensity Discharge (HID) lights, a fair portion of energy is lost as radiation – both UV and purely as heat. And NextG products have been independently tested to have a power factor of 95%. Reducing loss is your biggest gain.

Benefits of NextG High Bay

- Up to 60%* cost savings
- Long life (10,000 hours)
- Low power consumption
- Very low heat produced
- Very low UV
- Instant On
- Brighter, whiter light
- High colour rendering (CRI of 83)
- High power factor (PF of 95%)



*Compared to 400W Metal Halide and associated running gear

Standard incandescent lights use only **10%** of the electricity they consume to produce light the other **90%** is lost as heat.

The Hidden Cost of HID Lighting

To start a Metal Halide or any type of High Intensity Discharge (HID) light, ballast - sometimes called a starter, igniters or running gear - is required. This ballast has a current draw of its own which is added to the rated wattage of the lamp. To drive a 400W lamp, 25W ballast may be required. Therefore, a 400W Metal Halide lamp actually requires 425W of energy to run it.

Possible Savings Comparison:

	ESL NextG High Bay	Metal Halide	Incandescent Bulb
Rated Wattage	175W	400W	1000W
Actual Wattage with Ballast	175W	425W	1000W
Electricity Cost	\$0.17/kWh	\$0.17/kWh	\$0.17/kWh
Hours Used	10,000	10,000	10,000
Total Cost	\$297.50	\$722.00	\$1700.00
Cost Saving	---	\$365.50	\$1402.50
Energy Saving	---	50%+	78%+



Possible Savings Comparison:

	ESL NextG High Bay	Metal Halide	Incandescent Bulb
Rated Wattage	150W	400W	1000W
Actual Wattage with Ballast	150W	425W	1000W
Electricity Cost	\$0.17/kWh	\$0.17/kWh	\$0.17/kWh
Hours Used	10,000	10,000	10,000
Total Cost	\$272.00	\$722.00	\$1700.00
Cost Saving	---	\$450.00	\$1428.00
Energy Saving	---	50%+	78%+



NB: As with any lighting solution, additional task lighting may be required in circumstances where illuminance on working surface is insufficient to undertake the given task.

Specification and Installation



■ HIGHBAY

■ PRODUCT DESCRIPTION

Fluorescent Highbay

■ SPECIFICATION

Input Voltage 240V

T5 Electronic Ballast

Power Factor 0.95

CRI 83

Aluminum or Poly Carb Reflector

E40 Lamp Holder

Self Ballasted Lamp, reflector and lamp holder included

■ INSTALLATION

Hooked or Jacked Chain

■ HIGHLIGHTS

Long Life 10.000 hours

Retain 80% of the lights after 6000hrs

Low UV Emissions

Low Heat

No Glare

Reduce Green House Gas Emissions

Instant On/Off

Closer to Natural Light

Easy Change Over

Installation for self ballasted globe



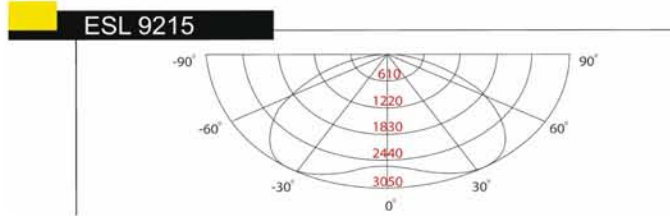
***NO:** Do not hold the glass tubes when screwing the lamp into the lamp base/reflector. See picture



***YES:** For personal safety, only hold and screw the lamp by its base to reduce risk of glass breakage. See Picture

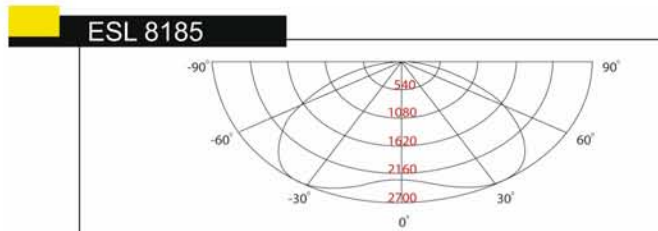
Highbay Products

ESL9215(175W)



Globe is self Ballasted & Electronic Start

ESL8185(150W)



Globe is self Ballasted & Electronic Start

*While an increasing number of lighting designers are endorsing the use of S/P ratios, this has not yet been endorsed by the Illuminating Engineering Society (IES). ESL Australia provides S/P adjusted lumen values throughout the product specification sections as reference information only and maintains no formal position on its application. Always test proposed products in application to validate results to your expectations

Model	Watts (Output)	Voltage	Current	Power Factor	Luminous Flux#	Task Modified Lumens	Colour Index	Mean Lifetime	Base Type	Dimensions (mm)	
	(W)	(V)	(A)		(Lm)		(CRI)	(Hours)		Total Length	Outside Diameter
HB170AL	175	240	0.73	0.95	14157	34650	83	10000	E40	360	137
HB15AL	150	240	0.63	0.95	11700	18610	83	10000	E40	345	137

Savings Figures

Rated Wattage	Metal Halide			Next G Highbay		
	400				150	
	Raw Watts	400			0	
Ballast	25				0	
Effective Watts	425				150	
hrs/day	Days per week (cost per year)			Days per week (savings per year)		
	5	6	7	5	6	7
8	\$150.28	\$180.34	\$210.39	\$97.24	\$116.69	\$136.14
12	\$225.42	\$270.50	\$315.59	\$145.86	\$175.03	\$204.20
16	\$300.56	\$360.67	\$420.78	\$194.48	\$233.38	\$272.27
20	\$375.70	\$450.84	\$525.95	\$243.10	\$291.72	\$340.34
24	\$450.84	\$541.01	\$631.18	\$291.72	\$350.06	\$408.41

Cost per kilowatt hour (\$) 0.17

Rated Wattage	Metal Halide			Next G Highbay		
	400				175	
	Raw Watts	400			0	
Ballast	25				0	
Effective Watts	425				175	
hrs/day	Days per week (cost per year)			Days per week (savings per year)		
	5	6	7	5	6	7
8	\$150.28	\$180.34	\$210.39	\$88.40	\$106.08	\$123.76
12	\$225.42	\$270.50	\$315.59	\$132.60	\$159.12	\$185.64
16	\$300.56	\$360.67	\$420.78	\$176.80	\$212.16	\$247.52
20	\$375.70	\$450.84	\$525.95	\$221.00	\$265.20	\$309.40
24	\$450.84	\$541.01	\$631.18	\$265.20	\$318.24	\$371.28



ESL9215



ESL8185

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