

PHILIPS

LED

TrueForce high
lumen lamps

For high bay and post top
lighting applications



Save energy
**retain your
uniqueness**

Direct replacement for high bay and post top lighting applications



TrueForce post top lamp



Philips TrueForce LED high lumen post top lamp makes it easy to upgrade to long lasting, energy saving LED technology without sacrificing your site's unique outdoor character. Save yourself the hassle of replacing your entire luminaire, and retrofit with the Philips TrueForce LED high lumen lamp.



TrueForce high bay lamp



Philips TrueForce LED high lumen lamp for high bay lighting is a direct replacement for 400W Metal Halide lamps which will deliver substantial energy savings.

Benefits – simply upgrade your lighting to LED and benefit from instant savings and low initial cost

- Fast payback – less than two years
- Easy adoption – no need to change the fixture or gear. Typical saving between 50%-90% of the installation time
- High compatibility – true 400W metal halide replacement for high bay applications and, save up to 75% in energy consumption
- Sustainability – low energy consumption when compared to conventional technologies
- 5 year warranty with 50,000 hour life vs a typical 20,000 hour life for metal halide lamps
- Instant on. No warm up time compared to HID lamps

Design highlights - 2.5X improvement in lamp life (50,000 hours), up to 75% energy savings, and no new fixture needed. Uses mogul base and most popular ballasts.



LEDs placed to match light output from HPS lamp

10kV surge protection



Works on both probe and pulse start fixtures

Up lighting provides lighting above the lamp, providing a sparkling effect

Standard EX39 base



Easy retrofit installation – take advantage of current fixtures and ballasts for an easy install with immediate energy savings

Right light distribution

With multiple beam angle option (narrow and wide) and up/down light versions, TrueForce LED delivers the right light distribution. The Color Rendering Index of CRI 70/80+ ensures it is of the highest quality to enhance comfort, safety and productivity. Powerful reasons to switch to LED.

Low investment, long lifetime

With a low initial investment and fast payback time, TrueForce is the number one choice for anyone looking to upgrade to LED. A simple switch for instant savings, the TrueForce range also offers up to a reliable 50,000 LED lifetime (hrs). It's light on maintenance, and has a five year warranty. So you can look forward to long term savings too.

TrueForce high bay energy savings solution

Estimated lighting costs using a standard 400W MH400/U Metal halide lamp

Present Wattage	458	W
× Annual operating hours	4,000	hrs
	=	1,832,000
		Watt-Hours
÷ 1,000	=	1,832
		kWh per year
× kWh rate of \$0.11	=	\$201.52
		per year
× 100 lamps		\$20,152.00
		annual energy cost per space

Estimated lighting costs using a Philips LED High bay replacement lamp

Present Wattage	200	W
× Annual operating hours	4,000	hrs
	=	800,000
		Watt-Hours
÷ 1,000	=	800
		kWh per year
× kWh rate of \$0.11	=	\$88.00
		per year
× 100 lamps		\$8,800.00
		annual energy cost per space

Total estimated annual savings[‡] \$11,352.00

[‡] Based on 100 lamps per space operating at 4,000 hours per year

TrueForce post top energy savings solution

Estimated lighting costs using a 100W HPS lamp on an ANSI S54 ballast

Present Wattage	130	W
× Annual operating hours	4,000	hrs
	=	520,000
		Watt-Hours
÷ 1,000	=	520
		kWh per year
× kWh rate of \$0.11	=	\$57.20
		per year
× 100 lamps		\$5,720.00
		annual energy cost per space

Estimated Lighting Costs Using a Philips LED High lumen post top lamp

Present Wattage	40	W
× Annual operating hours	4,000	hrs
	=	160,000
		Watt-Hours
÷ 1,000	=	160
		kWh per year
× kWh rate of \$0.11	=	\$17.60
		per year
× 100 lamps		\$1,760.00
		annual energy cost per space

Total estimated annual savings[‡] \$3,960.00

[‡] Based on 100 lamps per space operating at 4,000 hours per year



This example shows an application of 100 165W LED metal halide replacement lamps operating on an M59 ballast, operating 4,000 hours per year at a cost of \$0.11 per kWh. Replacing 100 standard 400W MH400/U metal halide lamps with the Philips LED replacement lamps can provide significant energy cost savings of \$11,352.00 per year. Your actual savings may vary depending on the energy costs in your geographic location.



This example shows an application of 100 lamps accenting a space, operating 4,000 hours per year at a cost of \$0.11 per kWh. Your actual savings may vary depending on the energy costs in your geographic location.



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Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008