



# Instant retrofit with immediate energy savings

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**

- 50,000 hour LED lifetime<sup>1</sup> vs a typical 20,000 hour rated average life for metal halide lamps
- Energy saving over 50%<sup>2</sup>
- Easy to install –works on existing ballasts
- Direct LED replacement solution without changing the fixture
- Instant on. No warm up time compared to Metal Halide

#### **Features**

- Standard EX39 base to replace E and O rated 400W metal halide lamps
- Works on Probe (M59) and pulse start (M135, M155) ballasts
- UL Type A installation existing ballasts
- Watts: 165, Lumens: 20,000, Color (K): 4000
- · LED lifetime: 50,000 hours1
- $\cdot$  Pleasant white light with 70 and 80 CRI options
- 5-year limited warranty depending upon operating hours<sup>†</sup>

# Philips TrueForce LED high lumen lamp

### Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Model Number	Order Code	Nom. Watts	Replacement Watts	Volts	Lamp Type	Base	LED Lifetime <sup>1</sup> (hrs.)	Approx Lumens	Color Temp (K)	CRI	Dim
46560-9	929001264804	165HB/LED/740/ND NB DL 2/1	165	400	N/A	N/A	EX39	50,000	20,000	4000	70	No
46562-5	929001265004	165HB/LED/740/ND WB DL 2/1	165	400	N/A	N/A	EX39	50,000	20,000	4000	70	No
46565-8	929001265304	165HB/LED/840/ND NB UDL 2/1	165	400	N/A	N/A	EX39	50,000	19,000	4000	80	No
46567-4	929001265504	165HB/LED/840/ND WB UDL 2/1	165	400	N/A	N/A	EX39	50,000	19,000	4000	80	No

# **Energy Saving 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

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.

#### Footnotes from front:

- † For details, please visit http://www.usa.lighting.philips.com/ support/support/warranty
- LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50,L70).
- 2. LED system watts of 200W compared to 458W system watts for an

# Shipping Data (Subject to change without notice)

Product	SKU UPC	Outer	Case	Case	Case	Pallet	SKUs	Layers	SKU	Case	Pallet
Number		Bar Code	Qty.	Weight	Volume	Qty.	per	High	Dimensions	Dimensions	Dimensions
	(0-46677)	(5-00-46677)		(lbs.)	(cu.ft.)		Layer		(L x W x H) (In.)	(L x W x H) (In.)	(L x W x H) (In.)
46560-9	465605	465600	2	9.05	1.41	64	16	4	9.6 x 9.6 x 11.0	19.8 x 10.2 x 12.0	48.0 x 40.9 x 54.1
46562-5	465629	465624	2	9.05	1.41	64	16	4	9.6 x 9.6 x 11.0	19.8 x 10.2 x 12.0	48.0 x 40.9 x 54.1
46565-8	465650	465655	2	9.05	1.41	64	16	4	9.6 x 9.6 x 11.0	19.8 x 10.2 x 12.0	48.0 x 40.9 x 54.1
46567-4	465674	465679	2	9.05	1.41	64	16	4	9.6 x 9.6 x 11.0	19.8 x 10.2 x 12.0	48.0 x 40.9 x 54.1

#### WARNINGS AND CAUTIONS

Risk of property damage or personal injury — The weight of the lamp is within the UL weight specification of a mogul (E39) base. However, before installing the lamp please ensure that the lamp holder (or socket) is not damaged or loose. The lamp holder (or socket) must be secured firmly to the fixture. If the lamp holder is damaged, corroded, charred or blackened, it must be replaced.

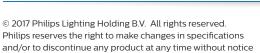
**CAUTION**: Risk of electric shock— do not use where directly exposed to water.

**NOTES**: This device complies with Part 15 of the FCC rule. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-005. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This lamp is suitable for dry and/or damp locations (indoor & outdoor applications). Suitable for use in outdoor luminaires as these luminaires provide a damp location for the lamp.











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

resulting from the use of this publication.

or obligation and will not be liable for any consequences