

PHILIPS

LED

TrueForce high
lumen lamp

For high bay
lighting applications



Instant retrofit with immediate energy savings

Philips TrueForce LED high lumen lamp for high bay lighting is a direct replacement for 400W and 250W metal halide lamps which will deliver substantial energy savings.

Benefits

- 50,000 hour LED lifetime² vs a typical 20,000 hour rated average life for metal halide lamps
- Energy saving over 50%³
- 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
- Lamp will operate on 400W, 350W, 320W and 250W¹ ballasts

Features

- Standard EX39 base to replace E and O rated metal halide lamps
- Works on probe and pulse start ballasts¹
- 80 CRI version provides uplight to illuminate transparent reflectors
- Watts: 165, Lumens: 20,000, Color (K): 4000
- LED lifetime: 50,000 hours²
- Pleasant white light with 70 and 80 CRI options
- 5-year limited warranty depending upon operating hours[†]
- Narrow and wide beam options to ensure uniform light distribution in application

Philips TrueForce LED high lumen lamp

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

Product Number	Grainger Number	Order Code	Nom. Watts	Replacement Watts	Volts	Lamp Type	Base	LED Lifetime ² (hrs.)	Approx Lumens	Color Temp (K)	CRI	Dim
465609	53XF99	165HB/LED/740/ND	105	250	N/A	N/A	EX39	50,000	14,000	4000	70	No
465625	53XG01	165HB/LED/740/ND	105	250	N/A	N/A	EX39	50,000	14,000	4000	70	No
465658	53XG02	165HB/LED/840/ND	105	250	N/A	N/A	EX39	50,000	13,000	4000	80	No
465674	53XG03	165HB/LED/840/ND	105	250	N/A	N/A	EX39	50,000	13,000	4000	80	No
465609	53XF99	165HB/LED/740/ND	165	400	N/A	N/A	EX39	50,000	20,000	4000	70	No
465625	53XG01	165HB/LED/740/ND	165	400	N/A	N/A	EX39	50,000	20,000	4000	70	No
465658	53XG02	165HB/LED/840/ND	165	400	N/A	N/A	EX39	50,000	19,000	4000	80	No
465674	53XG03	165HB/LED/840/ND	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>

1. Please refer to philips.com/trueforce for most up to date compatibility guide.

2. 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).

3. LED system watts of 200W compared to 458W system watts for an MH400/U.

Shipping Data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Volume (cu.ft.)	Pallet Qty.	SKUs per Layer	Layers High	SKU Dimensions (L x W x H) (In.)	Case Dimensions (L x W x H) (In.)	Pallet Dimensions (L x W x H) (In.)
465609	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
465625	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
465658	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
465674	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.



For more information, contact your Grainger Representative or visit www.grainger.com

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