



# Instant retrofit, instant savings

## LED Highbay

Philips LED high bay lamps are a direct replacement for 250W to 400W metal halide lamps which will deliver substantial energy savings. Philips LED HighBays delivers bright, clean light for a fraction of the energy used by conventional HID.

### Benefits

- Energy savings of >50%
- Direct lamp replacement without a ballast or fixture change (UL Type A)
- Operates on 400W, 320W and 250W ballasts

### Features

- Standard EX39 base to replace metal halide lamps
- Works on probe and pulse start ballasts (Type A only)
- Available with 1000 lumens of "up-light" to fully illuminate fixtures (Type A only)
- Upto 5-year limited warranty
- Two beam options, wide or narrow available
- Surge 6KV

### Application

- Warehouses, Industrial & Retail
- Gymnasiums

# LED Highbay

## Versions

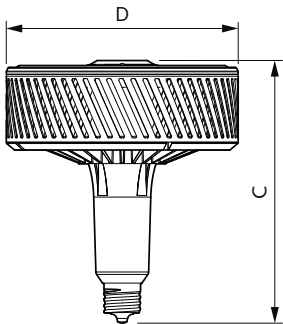
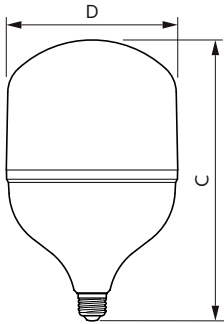


LEDTrueForce HB Accessory



LEDTrueForce E26 120-240V 45HB

## Dimensional drawing



Product	D	C
45HB/LED/850/ND FB 6/1	160 mm	264 mm

Product	D	C
145HB/LED/840/D NB DL BB G2 4/1	250 mm	285 mm
145HB/LED/840/D WB UDL BB G2 4/1	250 mm	295 mm
145HB/LED/850/D NB DL BB G2 4/1	250 mm	285 mm
145HB/LED/850/D WB UDL BB G2 4/1	250 mm	295 mm
165HB/LED/840/D NB DL BB G2 4/1	250 mm	285 mm
165HB/LED/840/D WB UDL BB G2 4/1	250 mm	295 mm
165HB/LED/850/D NB DL BB G2 4/1	250 mm	285 mm
165HB/LED/850/D WB UDL BB G2 4/1	250 mm	295 mm

### Temperature

Ambient temperature range -20 °C to 45 °C

## General Information

Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime
929002497104	LED highbay sensor accessory	-	-	50,000 hour(s)
929001990204	45HB/LED/850/ND FB 6/1	E26	50,000	25,000 hour(s)

Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime
929002496004	145HB/LED/840/D NB DL BB G2 4/1	EX39	50,000	50,000 hour(s)
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	EX39	50,000	50,000 hour(s)

## LED Highbay

Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime
929002496204	145HB/LED/850/D NB DL BB G2 4/1	EX39	50,000	50,000 hour(s)
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	EX39	50,000	50,000 hour(s)
929002496404	165HB/LED/840/D NB DL BB G2 4/1	EX39	50,000	50,000 hour(s)

Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	EX39	50,000	50,000 hour(s)
929002496604	165HB/LED/850/D NB DL BB G2 4/1	EX39	50,000	50,000 hour(s)
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	EX39	50,000	50,000 hour(s)

### Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color	Color rendering	LLMF At End Of Nominal		
			Temperature (Nom)	index (CRI)	Color Code	Lifetime (Nom)	Luminous Flux
929002497104	LED highbay sensor accessory	-	-	-	-	-	-
929001990204	45HB/LED/850/ND FB 6/1	200 degree(s)	5000 K	80	850	70 %	4,800 lumen
929002496004	145HB/LED/840/D NB DL BB G2 4/1	60 degree(s)	4000 K	80	840	70 %	20,000 lumen
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	120 degree(s)	4000 K	80	840	70 %	20,000 lumen
929002496204	145HB/LED/850/D NB DL BB G2 4/1	60 degree(s)	5000 K	80	850	70 %	20,000 lumen
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	120 degree(s)	5000 K	80	850	70 %	20,000 lumen
929002496404	165HB/LED/840/D NB DL BB G2 4/1	60 degree(s)	4000 K	80	840	70 %	25,000 lumen
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	120 degree(s)	4000 K	80	840	70 %	25,000 lumen
929002496604	165HB/LED/850/D NB DL BB G2 4/1	60 degree(s)	5000 K	80	850	70 %	25,000 lumen
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	120 degree(s)	5000 K	80	850	70 %	25,000 lumen

### Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time (Nom)	Wattage Equivalent
929002497104	LED highbay sensor accessory	- Hz	- Hz	-	-	-
929001990204	45HB/LED/850/ND FB 6/1	50 to 60 Hz	50 to 60 Hz	45 W	0.5 s	100 W
929002496004	145HB/LED/840/D NB DL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	145 W	0.5 s	250 W
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	145 W	0.5 s	250 W
929002496204	145HB/LED/850/D NB DL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	145 W	0.5 s	250 W
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	145 W	0.5 s	250 W
929002496404	165HB/LED/840/D NB DL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	165 W	0.5 s	400 W
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	165 W	0.5 s	400 W
929002496604	165HB/LED/850/D NB DL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	165 W	0.5 s	400 W
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	50 to 60 Hz	50 to 60 Hz	165 W	0.5 s	400 W

### Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002497104	LED highbay sensor accessory	-
929001990204	45HB/LED/850/ND FB 6/1	64.5 °C
929002496004	145HB/LED/840/D NB DL BB G2 4/1	60 °C
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	60 °C
929002496204	145HB/LED/850/D NB DL BB G2 4/1	60 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	60 °C
929002496404	165HB/LED/840/D NB DL BB G2 4/1	58 °C
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	58 °C
929002496604	165HB/LED/850/D NB DL BB G2 4/1	58 °C
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	58 °C

### Controls and Dimming

Order Code	Full Product Name	Dimmable
929002497104	LED highbay sensor accessory	No
929001990204	45HB/LED/850/ND FB 6/1	No

Order Code	Full Product Name	Dimmable
929002496004	145HB/LED/840/D NB DL BB G2 4/1	Only with specific dimmers
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	Only with specific dimmers

# LED Highbay

Order Code	Full Product Name	Dimmable
929002496204	145HB/LED/850/D NB DL BB G2 4/1	Only with specific dimmers
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	Only with specific dimmers
929002496404	165HB/LED/840/D NB DL BB G2 4/1	Only with specific dimmers

Order Code	Full Product Name	Dimmable
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	Only with specific dimmers
929002496604	165HB/LED/850/D NB DL BB G2 4/1	Only with specific dimmers
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	Only with specific dimmers

## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929002497104	LED highbay sensor accessory	-	-
929001990204	45HB/LED/850/ND FB 6/1	Frosted	T-shape
929002496004	145HB/LED/840/D NB DL BB G2 4/1	Clear	Others
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	Clear	Others
929002496204	145HB/LED/850/D NB DL BB G2 4/1	Clear	Others

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	Clear	Others
929002496404	165HB/LED/840/D NB DL BB G2 4/1	Clear	Others
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	Clear	Others
929002496604	165HB/LED/850/D NB DL BB G2 4/1	Clear	Others
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	Clear	Others

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929002497104	LED highbay sensor accessory	-
929001990204	45HB/LED/850/ND FB 6/1	- kWh
929002496004	145HB/LED/840/D NB DL BB G2 4/1	-
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	-
929002496204	145HB/LED/850/D NB DL BB G2 4/1	-
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	-
929002496404	165HB/LED/840/D NB DL BB G2 4/1	-
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	-
929002496604	165HB/LED/850/D NB DL BB G2 4/1	-
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	-

