



# 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

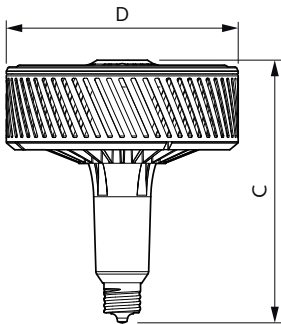
# LED Highbay

## Versions



LEDTForce HB Accessory

## Dimensional drawing



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

### General Information

Nominal lifetime 50,000 hour(s)

### Approval and Application

Ambient temperature range -20 °C to 45 °C

## General Information

Order Code	Full Product Name	Cap-Base	Switching Cycle
929002497104	LED highbay sensor accessory	-	-
929002496004	145HB/LED/840/D NB DL BB G2 4/1	EX39	50,000
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	EX39	50,000
929002496204	145HB/LED/850/D NB DL BB G2 4/1	EX39	50,000
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	EX39	50,000

Order Code	Full Product Name	Cap-Base	Switching Cycle
929002496404	165HB/LED/840/D NB DL BB G2 4/1	EX39	50,000
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	EX39	50,000
929002496604	165HB/LED/850/D NB DL BB G2 4/1	EX39	50,000
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	EX39	50,000

## Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		Color rendering index (CRI)	LLMF At End Of Nominal		
			Temperature (Nom)	Color Code		Lifetime (Nom)	Luminous Flux	
929002497104	LED highbay sensor accessory	-	-	-	-	-	-	-
929002496004	145HB/LED/840/D NB DL BB G2 4/1	60 degree(s)	4000 K	80	840	70 %	20,000 lm	
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	120 degree(s)	4000 K	80	840	70 %	20,000 lm	
929002496204	145HB/LED/850/D NB DL BB G2 4/1	60 degree(s)	5000 K	80	850	70 %	20,000 lm	

## LED Highbay

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		Color rendering index (CRI)	LLMF At End Of Nominal	
			Temperature (Nom)	Color Code		Lifetime (Nom)	Luminous Flux
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	120 degree(s)	5000 K	80	850	70 %	20,000 lm
929002496404	165HB/LED/840/D NB DL BB G2 4/1	60 degree(s)	4000 K	80	840	70 %	25,000 lm
929002496504	165HB/LED/840/D WB UDL BB G2 4/1	120 degree(s)	4000 K	80	840	70 %	25,000 lm
929002496604	165HB/LED/850/D NB DL BB G2 4/1	60 degree(s)	5000 K	80	850	70 %	25,000 lm
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	120 degree(s)	5000 K	80	850	70 %	25,000 lm

### Operating and Electrical

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

### Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)	Order Code	Full Product Name	T-Case Maximum (Nom)
929002497104	LED highbay sensor accessory	-	929002496404	165HB/LED/840/D NB DL BB G2 4/1	58 °C
929002496004	145HB/LED/840/D NB DL BB G2 4/1	60 °C	929002496504	165HB/LED/840/D WB UDL BB G2 4/1	58 °C
929002496104	145HB/LED/840/D WB UDL BB G2 4/1	60 °C	929002496604	165HB/LED/850/D NB DL BB G2 4/1	58 °C
929002496204	145HB/LED/850/D NB DL BB G2 4/1	60 °C	929002496704	165HB/LED/850/D WB UDL BB G2 4/1	58 °C
929002496304	145HB/LED/850/D WB UDL BB G2 4/1	60 °C			

### Controls and Dimming

Order Code	Full Product Name	Dimmable	Order Code	Full Product Name	Dimmable
929002497104	LED highbay sensor accessory	No	929002496404	165HB/LED/840/D NB DL BB G2 4/1	Only with specific dimmers
929002496004	145HB/LED/840/D NB DL BB G2 4/1	Only with specific dimmers	929002496504	165HB/LED/840/D WB UDL BB G2 4/1	Only with specific dimmers
929002496104	145HB/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
929002496204	145HB/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
929002496304	145HB/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	Order Code	Full Product Name	Bulb Finish	Bulb Shape
929002497104	LED highbay sensor accessory	-	-	929002496104	145HB/LED/840/D WB UDL BB G2 4/1	Clear	Highbay
929002496004	145HB/LED/840/D NB DL BB G2 4/1	Clear	Highbay	929002496204	145HB/LED/850/D NB DL BB G2 4/1	Clear	Highbay

# LED Highway

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

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929002496604	165HB/LED/850/D NB DL BB G2 4/1	Clear	Highbay
929002496704	165HB/LED/850/D WB UDL BB G2 4/1	Clear	Highbay

## Approval and Application

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

