



# Ideal for HPI/SON/HPL LED replacement in Highbay application

## TrueForce LED Industrial and Retail (Highbay – HPI/SON/HPL)

Philips TrueForce LED Industrial and Retail lamps give you a quick and easy payback solution to replace HID lamps in Highbay application. The solution gives you the LED benefits of energy-efficiency and long-lifetime, plus they come for a low initial investment. With unique lamp design and compatibility, you can directly retrofit HID lamps with TrueForce LED lamps without changing the fixtures or gear. Multiple beam angle options and high colour rendering index enhance the lighting distribution while creating a comfortable, safe and high productivity environment.

### Benefits

- Instant upgrade and easy to install - less time consuming and safer working at height
- Great payback (<2 years) and extended energy savings of 65% vs. existing conventional systems
- Low initial investment

### Features

- Direct lamp replacement solution without changing the fixture or gear
- High energy efficiency with directional light
- Long lifetime 50,000hrs for operation efficiency
- Crisp white light 4000K, CRI80 for better visual colour
- Product weight < 1,3kg

### Application

- Industrial - factories, warehouses, distribution centres
- Retail - hyper markets, shopping malls
- Others - transportation hubs, convention centres, sport/city halls

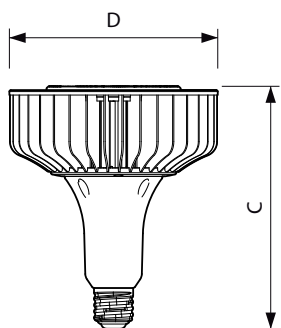
# TrueForce LED Industrial and Retail (Highbay – HPI/SON/HPL)

## Versions



E40 Others

## Dimensional drawing



Product	D	C
TrueForce LED HPI ND 110-88W E40 840 60D	210 mm	250 mm
TrueForce LED HPI ND 200-145W E40 840 120D	210 mm	250 mm
TrueForce LED HPI ND 200-145W E40 840 60D	210 mm	250 mm
TrueForce LED HPI ND 110-88W E40 840 120D	210 mm	250 mm

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## Approval and Application

Energy Efficiency Label (EEL)	A+
<b>Controls and Dimming</b>	
Dimmable	No
<b>Operating and Electrical</b>	
Input Frequency	50 Hz
Voltage (Nom)	100-145 V
<b>General Information</b>	
Cap-Base	E40
Nominal Lifetime (Nom)	50000 h
Rated Lifetime (Hours)	50000 h
Switching Cycle	50000X
<b>Light Technical</b>	
Color Code	840
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Nom)	80
Lmf At End Of Nominal Lifetime (Nom)	70 %
<b>Mechanical and Housing</b>	
Bulb Shape	Others

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001356802	TrueForce LED HPI ND 110-88W E40 840 60D	97 kWh
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	97 kWh
929001357002	TrueForce LED HPI ND 200-145W E40 840 60D	160 kWh
929001357102	TrueForce LED HPI ND 200-145W E40 840 120D	160 kWh

## Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
929001356802	TrueForce LED HPI ND 110-88W E40 840 60D	250 W	88 W	1.2 s
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	250 W	88 W	1.2 s

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
929001357002	TrueForce LED HPI ND 200-145W E40 840 60D	400 W	145 W	0.7 s
929001357102	TrueForce LED HPI ND 200-145W E40 840 120D	400 W	145 W	0.7 s

## Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
929001356802	TrueForce LED HPI ND 110-88W E40 840 60D	60 °	11000 lm	11000 lm
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	120 °	11000 lm	11000 lm

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
929001357002	TrueForce LED HPI ND 200-145W E40 840 60D	60 °	20000 lm	20000 lm
929001357102	TrueForce LED HPI ND 200-145W E40 840 120D	120 °	20000 lm	20000 lm

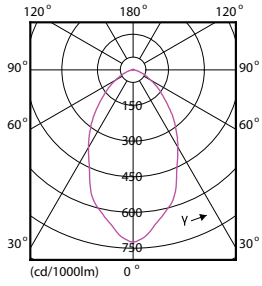
## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001356802	TrueForce LED HPI ND 110-88W E40 840 60D	90 °C
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	90 °C

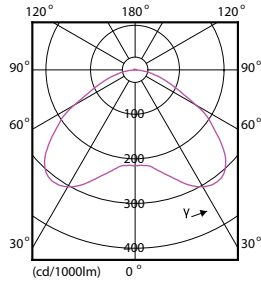
Order Code	Full Product Name	T-Case Maximum (Nom)
929001357002	TrueForce LED HPI ND 200-145W E40 840 60D	95 °C
929001357102	TrueForce LED HPI ND 200-145W E40 840 120D	95 °C

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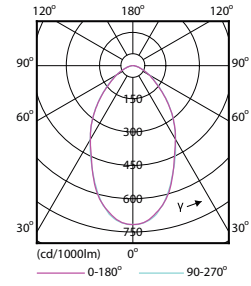
## Light Distribution Diagrams



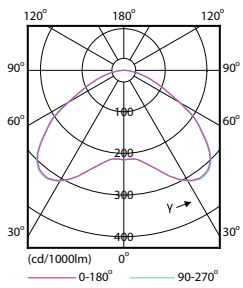
TrueForce LEDHIL HPI 250W E40 840 60D



TrueForce LEDHIL HPI 250W E40 840 120D



400W E40 Others ND 60D 840 4000K



400W E40 Others ND 120D 840 4000K

