

**PHILIPS**

Industry and  
Retail lighting

TrueForce



**NEW!**

# Low expectations or **high performance?**

Real professionals count on **Philips TrueForce Highbay** – the first Plug and Play LED lamp alternative for Industrial and Retail Highbay lighting

**REAL  
PROs**  
**REAL  
QUALITY**

# TrueForce Industrial and Retail.

Save energy and provide the perfect light for every space.

Introducing the first direct, Plug and Play alternative for traditional lamps operated in high bay applications. **TrueForce Industrial and Retail** is a cost-effective LED lamp that makes it easy to upgrade existing fixtures with LED. It replaces HPI/HQI, SON/HPS, HPL/HQL lamps in high bay lighting in industrial and large-scale retail applications and is fully compatible with BHL and BSN 250W and 400W gear. TrueForce delivers the right light distribution thanks to a choice of narrow and wide beam angle. Its improved colour rendering index (CRI 80) enhances industrial safety and productivity, and improves merchandise displays and customer experiences in retail. TrueForce Industrial and Retail is the simplest way to upgrade to LED and keep your initial investment low.



Upgrade your industrial lighting to LED and benefit from **instant saving and low initial costs**

- **Plug and Play** - hassle-free installation
- **Fast payback** within 2 years
- Easy adoption – safer and faster – **no need to replace or change existing fixture**
- Sustainability – **low energy consumption**
- Enhance **comfort, safety** and **productivity**
- **Low heat dissipation** - provide a cooler environment and reduce air-conditioning cost (especially retail and air-conditioned warehouses/factories)

## Easy Plug & Play installation



HPL 250W

LED 88W

HPI 250W

LED 88W

SON 250W

LED 88W

HPL 400W

LED 145W

HPI 400W

LED 145W

SON 400W

LED 145W



## TrueForce benefits. Powerful reasons to switch to LED.



**Energy saving**  
of 65% vs existing  
conventional  
systems



**Plug and Play** – great  
electrical compatibility,  
no need to replace or  
modify the fixture



**Reliable lifetime**  
up to 50.000  
hours



**Optically efficient,**  
emits light towards  
usage direction



Pleasant white light  
and CRI80 for **higher  
safety and better  
productivity**

### Save on industrial and retail lighting

TrueForce LED lamps are high quality alternatives for conventional lamps used in existing functional high bay applications. The low initial investment – lower than other LED solutions – and energy saving up to 65% add up to a payback typically within two years. It's also easy to install. Being a genuine direct alternative with plug and play installation, installers spend less time working at height, meaning installation is both safe and fast.

### Right light distribution

With a choice of a narrow or wide beam and total of 11000 lumen (250W) and 20000 lumen (400W), TrueForce Retail and Industrial lamps distribute light to exactly where it's needed. The CRI 80 and a 4000K color temperature give a crispy white light to enhance comfort, safety and productivity. It combines the right lumen package with high system efficacy to provide the simplest LED solution for instant savings.

### Low investment, long lifetime

With a low initial investment and fast payback time, TrueForce is the number one choice for anyone looking of up to 50,000 hours. Ignitor comfort logic by mimicking conventional lamp operation ensures that the ignitor will not function in existing installation. Whereas continuous ignition could affect lamp performance. These ensures low maintenance needs and has a five-year warranty. So you can look forward to long-term savings too.

# Calculate energy savings


	HPI/HPL/SON 400W	>	TrueForce Industrial & Retail 145W	
Energy savings	64%		400W	145W
Energy savings / year				<b>13,403 €</b>
				Energy savings / year
	HPI/HPL/SON 250W	>	TrueForce Industrial & Retail 88W	
Energy savings	65%		250W	88W
Energy savings / year				<b>8,515 €</b>
				Energy savings / year
Longer lifetime	12,000 Hrs	>	50,000 Hrs	

Number of lamps	100
Burning hours per year	4380 Hrs <sup>1</sup>
Energy costs	0,12Euro/kWh <sup>2</sup>

<sup>1</sup> Energy use. Based on 12h burning per day, 365 days per year  
<sup>2</sup> Energy price. Based on the European average of 12 cent/kWh  
<sup>3</sup> System losses same for both solutions - not considered for energy saving calculation



## Technical specifications



### TrueForce high-bay



Product type	LED	Replacement wattage	Lumen output (useful)	Lumen output (total)	Efficacy	Voltage	Energy class	EOC
	W	W	lm		lm/W	V	(EU only)	8718696
TForce LED HPI ND 110-88W E40 840 60D	88	250	8000 <sup>1</sup>	11000	125	100-145	A <sup>+</sup>	71378500
TForce LED HPI ND 110-88W E40 840 120D	88	250	10000 <sup>2</sup>	11000	125	100-145	A <sup>+</sup>	71382200
TForce LED HPI ND 200-145W E40 840 60D	145	400	14 000 <sup>1</sup>	20000	138	100-145	A <sup>+</sup>	71386000
TForce LED HPI ND 200-145W E40 840 120D	145	400	16 000 <sup>2</sup>	20000	138	100-145	A <sup>+</sup>	71388400

<sup>1</sup> Measured in 90° cone  
<sup>2</sup> Measured in 120° cone

# Design highlights



\*The TrueForce LED does not need an ignitor to start functioning. However in a system where ignitor is already installed, when starting the LED lamp, the ignitor will function anyway. The "ignitor comfort logic" mimics conventional lamp operation and as a result ignitor stops working. This feature also allows that a system with a failed ignitor or without an ignitor can continue working.



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