



# MASTER - LED HID HPI

## TForce LED HPI UN 140W E40 840 NB

Philips MASTER - LED HID HPI Highbay Universal lamps give you a quick and easy payback solution to replace HID alternatives in high-bay applications. MASTER – LED HID HPI UN solutions give you the LED benefits of energy efficiency and a long lifetime with a retrofit solution. The design of MASTER – LED HID HPI UN enables the direct retrofit of HID lamps without changing the fixtures or gear. The MASTER – LED HID HPI UN lamp is compatible with both 250W and 400W EM gears to maximize the feasibility of such retrofits. Ignitor smart logic eliminates ignitor failure and continued ignition, which may generate overheating and EMI risks. Multiple beam angle options and a high color rendering index enhance the lighting distribution in medium and high-bay applications while creating a comfortable, safe, and highly productive environment.

### Warnings and Safety

• Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

### Product data

General Information		Color Designation	
Cap-Base	E40	Color Designation	Cool White (CW)
Nominal lifetime	50,000 hour(s)	Correlated Color Temperature (Nom)	4000 K
Switching Cycle	50,000	Luminous Efficacy (rated) (Nom)	92 lm/W
Lighting Technology	LED	Color Consistency	<6
Flux measurement reference	Narrow Cone	Color rendering index (CRI)	80
Light Technical		LLMF At End Of Nominal Lifetime (Nom)	70 %
Color Code	840 [CCT of 4000K]	Luminous Flux in 90° Cone (Rated)	13,000 lm
Beam Angle (Nom)	60 degree(s)	Photobiological safety according to EN 62471	RG1
Luminous Flux	20,000 lm	Operating and Electrical	
		Line Frequency	50 Hz

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Input Frequency	50 Hz
Power Consumption	140 W
Lamp Current (Nom)	740 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	1 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Ballast Compatibility	EM (ignitor & capacitor should not be removed)/Mains
Inrush current at mains	11.4
Max. lamp no. on MCB B type 10A - Mains	3
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	1
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	3
Max. lamp no. on MCB B type 16A - Mains	5
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	2
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	5

## Temperature

T-Case Maximum (Nom)	63 °C
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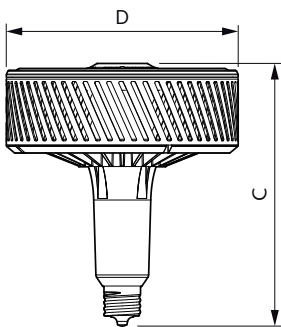
## Controls and Dimming

Dimmable	No
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## Mechanical and Housing

Bulb Finish	Clear
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## Dimensional drawing



Bulb Shape	Others
Net Weight (Piece)	1.150 kg

## Approval and Application

Energy Efficiency Class	F
Energy Consumption kWh/1000 h	140 kWh
EPREL Registration Number	1858674
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 to +45 °C

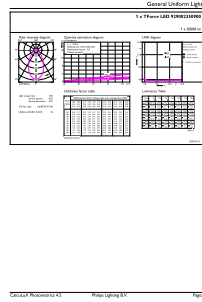
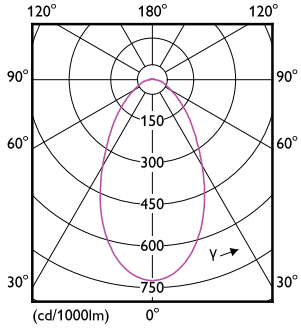
## Product Data

Order product name	TForce LED HPI UN 140W E40 840 NB
Full product name	TForce LED HPI UN 140W E40 840 NB
Full product code	871869975371900
Order code	929002350902
Material Nr. (12NC)	929002350902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699753719
Numerator - Packs per outer box	3
EAN/UPC - Case	8718699753726

Product	D	C
TForce LED HPI UN 140W E40 840 NB	250 mm	290 mm

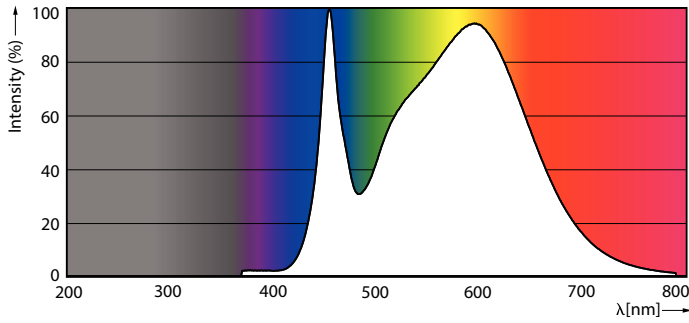
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## Photometric data



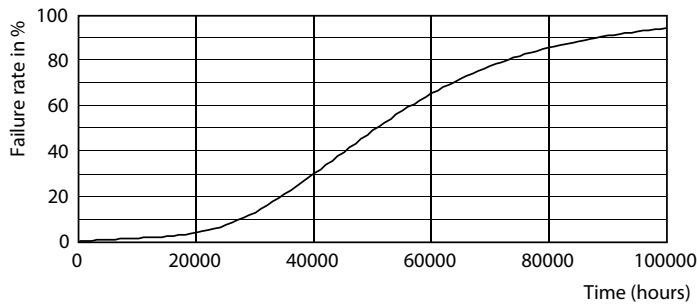
Light Distribution Diagram - TForce LED HPI UN 140W E40 840 NB

General uniform lighting - TForce LED HPI UN 140W E40 840 NB

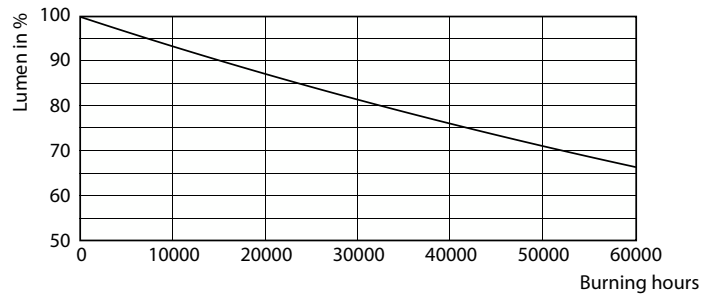


Spectral Power Distribution Colour - TForce LED HPI UN 140W E40 840 NB

## Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce LED HPI UN 140W E40 840 NB

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