PHILIPS

Lighting

TrueForce LED Industrial and retail Mains (Highbay – HPI/SON/HPL)

TForce HB 140W E40 840 NB GM

MASTER, LED Highbay, Highbay, EM/Mains, 110-277 V, 140 W, HPI 400W, E40, 4000 K, 20000 lm, CRI 80, 50000 hour(s)

MASTER, LED Highbay, Highbay, EM/Mains, 110-277 V, 140 W, LED alternative to HPI 400W, E40, 4000 K, 20000 lm, CRI 80, 50000 hour(s), 92 lm/W, EEL F, PF 0.9, Beam angle 60 degree(s), Plastic, RG1, IP40, SVM 0.4, PstLM 1

Product data

General Information	
Cap-Base	E40
Nominal lifetime	50,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED Highbay
Flux measurement reference	Narrow Cone
Warranty period	5 years

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	60 degree(s)
Luminous Flux	20,000 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	92 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Luminous Flux in 90° Cone (Rated)	13,000 lm
Photobiological safety according to EN 62471	RG1

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz

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Power Consumption	140 W
Lamp Current (Nom)	1,450 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	110-277 V
Inrush current at mains	55
Max. lamp no. on MCB B type 10A - Mains	5
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	5
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A - Mains	9
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	9
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	-
Wattage Equivalent (LED HID only)	HPI 400W
Ballast Compatibility	EM/Mains

Temperature

T-Case Maximum (Nom)	57 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Clear
Bulb Material	Plastic
Bulb Shape	Highbay
Net Weight (Piece)	1.100 kg

Approval and Application

Energy Efficiency Class	F
Energy Saving Product	Yes
Energy Consumption kWh/1000 h	140 kWh
EPREL Registration Number	1745006
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

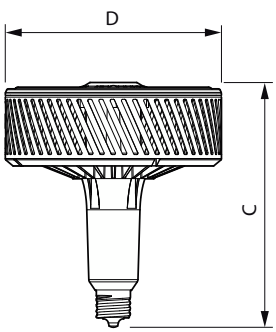
Application Conditions

can it be used in closed luminaires	No
Wireless Technology	Not applicable

Product Data

Order product name	TForce HB 140W E40 840 NB GM
Full product name	TForce HB 140W E40 840 NB GM
Full product code	871869973286800
Order code	929002281608
Material Nr. (12NC)	929002281608
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699732868
Numerator - Packs per outer box	4
EAN/UPC - Case	8718699732875

Dimensional drawing



Product	D	C
TForce HB 140W E40 840 NB GM	250 mm	290 mm

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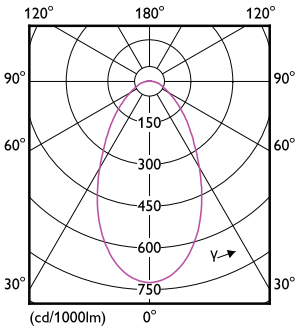
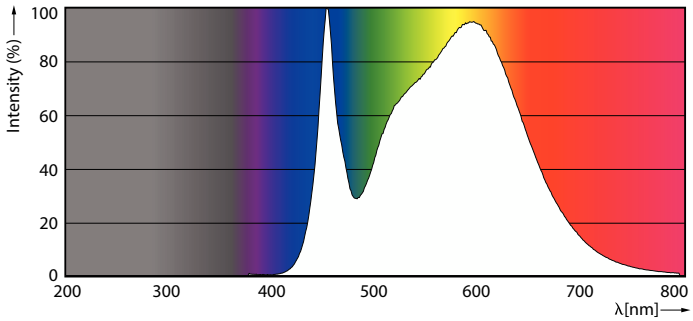
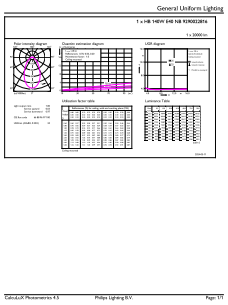
Photometric data



Light Distribution Diagram - TForce HB 140W E40 840 NB GM

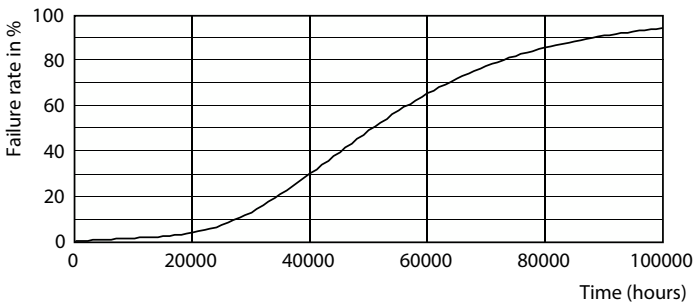


Spectral Power Distribution Colour - TForce HB 140W E40 840 NB GM

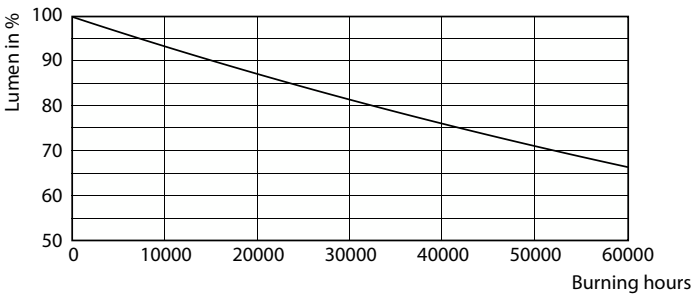


General uniform lighting - TForce HB 140W E40 840 NB GM

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce HB 140W E40 840 NB GM

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2023, April 15 - data subject to change