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

## CorePro LED HPI MV 15Klm 105W840E40 100D

Philips TrueForce Core LED I&R lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy efficiency and long lifetime benefits of LED to HID replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce Core LED I&R lamps and bypass the existing ballast while enhancing the lighting quality.

#### **Product data**

General Information		
Cap-Base	E40	
Nominal lifetime	25,000 hour(s)	
Switching Cycle	50,000	
Lighting Technology	LED	
Flux measurement reference	Sphere	
Light Technical		
Color Code	840 [CCT of 4000K]	
Beam Angle (Nom)	100 degree(s)	
Luminous Flux	15,000 lm	
Color Designation	Cool White (CW)	
Correlated Color Temperature (Nom)	4000 K	

Luminous Efficacy (rated) (Nom)	142 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG1
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	105 W
Lamp Current (Max)	902 mA
Lamp Current (Min)	495 mA
Starting Time (Nom)	0.5 s

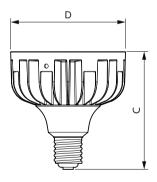
Datasheet, 2025, March 17 data subject to change

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Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	110-240 V
Ballast Compatibility	Mains
Inrush current at mains	62
Max. lamp no. on MCB B type 10A - Mains	1
Max. lamp no. on MCB B type 10A – EM ballast	-
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast with	1 -
Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	2
Max. lamp no. on MCB B type 16A – EM ballast	-
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast with	1 -
Compensation Capacitor.	
Temperature	
T-Case Maximum (Nom)	78 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Material	Plastic
Bulb Shape	T-shape
Net Weight (Piece)	1.130 kg

Approval and Application  Energy Efficiency Class  Energy Consumption kWh/1000 h  EPREL Registration Number  1745017  CE mark  Yes  EU RoHS compliant  Yes  Flickering value (PstLM) - Flickering value as per EN 61000-3-3  Stroboscopic effect visibility measure (SVM)  Ambient temperature range  -20 °C to 45 °C  Product Data  Order product name  CorePro LED HPI MV 15Klm 105W840E40 100D  Full product code  871951442123300  Order code  929003161702  Material Nr. (12NC)			
Energy Consumption kWh/1000 h 105 kWh  EPREL Registration Number 1745017  CE mark Yes  EU RoHS compliant Yes  Flickering value (PstLM) - Flickering value as per EN 61000-3-3  Stroboscopic effect visibility measure (SVM) 0.9  Ambient temperature range -20 °C to 45 °C  Product Data  Order product name CorePro LED HPI MV 15Klm 105W840E40 100D  Full product name CorePro LED HPI MV 15Klm 105W840E40 100D  Full product code 871951442123300  Order code 929003161702	Approval and Application		
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CE mark Yes  EU RoHS compliant Yes  Flickering value (PstLM) - Flickering value as per EN 61000-3-3  Stroboscopic effect visibility measure (SVM) 0.9  Ambient temperature range -20 °C to 45 °C  Product Data  Order product name CorePro LED HPI MV 15Klm 105W840E40 100D  Full product name CorePro LED HPI MV 15Klm 105W840E40 100D  Full product code 871951442123300  Order code 929003161702	Energy Consumption kWh/1000 h	105 kWh	
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	Full product code	871951442123300	
Material Nr. (12NC) 929003161702	Order code	929003161702	
525 65 16 17 2	Material Nr. (12NC)	929003161702	
Numerator - Quantity Per Pack 1	Numerator - Quantity Per Pack	1	
<b>EAN/UPC - Product/Case</b> 8719514421233	EAN/UPC - Product/Case	8719514421233	
Numerator - Packs per outer box 6	Numerator - Packs per outer box	6	
<b>EAN/UPC - Case</b> 8719514421240	EAN/UPC - Case	8719514421240	
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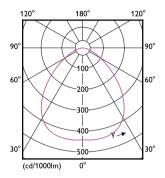
## Dimensional drawing



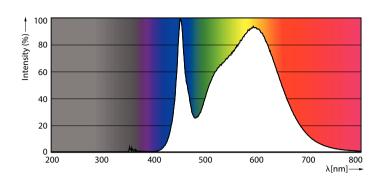
Product	D	С
CorePro LED HPI MV 15Klm 105W840E40 100D	162 mm	168 mm

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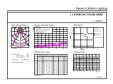
#### Photometric data



Light Distribution Diagram - CorePro LED HPI MV 15Klm 105W840E40 100D

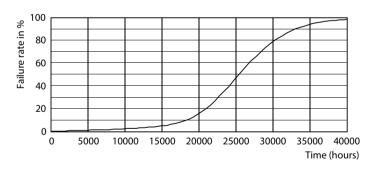


Spectral Power Distribution Colour - CorePro LED HPI MV 15Klm 105W840E40 100D



General uniform lighting - CorePro LED HPI MV 15Klm 105W840E40 100D

### Lifetime



80 90 80 70 60 000 30000 40000 50000 60000 Burning hours

Life Expectancy Diagram

Lumen Maintenance Diagram - CorePro LED HPI MV 15Klm 105W840E40 100D

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