

PHILIPS

Lighting

TOWNTUNE ASYMMETRIC

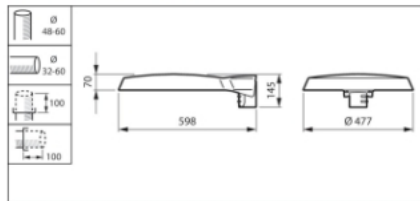
BDP265 LED-HB/740 I DX52 1979 lm



Introduction

Designed to enhance existing and scalable urban spaces, the Philips TownTune family offers all the latest lighting innovations in terms of performance, quality of light and connectivity. The family consists of four solutions: a Central Post Top (CPT), an Asymmetric Spigot Post Top / Side Entry version (ASY), a version with an extending Lyre post top bracket (Lyre), and a Central Post Top with a Conical Comfort Bowl (CCB). Each TownTune luminaire can be customized with a choice of different shapes on top of the housing, plus there's the option to add a decorative ring, which comes in two colors (excluding CCB). Design options that enable you to create your very own lighting signature and bring a distinctive identity to districts and cities. In addition, every luminaire in the TownTune family is uniquely identifiable, thanks to the Signify Service tag app. By simply scanning a QR code, placed inside the door of the mast or directly on the luminaire, you can instantly access the configuration of the luminaire. This makes maintenance and programming operations faster and easier and enables you to create your digital library of lighting assets and spare parts. TownTune also uses the Philips LEDGINE-O lighting platform, ensuring you always have the right amount and direction of light on your street. Furthermore, thanks to being system ready (SR), TownTune is also future proof. A solution that's ready to be paired with both standalone and advanced control and lighting software applications such as Interact City.

Dimensional drawing(s) - mm



Effective projected area

0.033 m²

Weight

6.800 kg

Light technical Report

Drivers

Description	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt
12NC	929002179006
Number of driver(s)	1
Number of luminaire per MCB 16A	21
Inrush current	21 A
Inrush time	300 µs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Current	179 mA
System power (minimum)	12.8 W
System power (maximum)	12.8 W
System power (average)	12.8 W
Power consumption tolerance	+/-10%
Power Factor (100%)	0.9
Power Factor (50%)	0.78
Connectivity	System Ready
Dimming	Dynadimmer 2A

Light engine

Light source engine type	LED
Number of LED	20
Initial LED luminaire efficacy (source)	155 lm/W
Initial LED luminaire efficacy (system)	131 lm/W
Light source colour	740 (Neutral White)
Init. Colour Rendering Index	70
Init. CRI tolerance	+/-2
Init. Corr. Colour Temperature	4000 K
Initial tolerance	+/- 180 K (5 SDCM)
End of life tolerance	+/- 255 K
Initial luminous flux (source)	1979 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	1677 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Lab Information & Certification

Lab Information

Test standards

EN 13032-4:2015	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 4: LED lamps, modules and luminaires
EN 13032-1:2014	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 1: Measurement and file format
IEC 62717:2014+AMD1:2015	LED modules for general lighting - performance requirements
IES LM-79-08	IES Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products
IEC / EN 62722-1:2014	Luminaire performance - Part 1: General requirements
IEC / EN 62722-2-1:2014	Luminaire performance - Part 2-1: Particular requirements for LED luminaires

Test equipment

LMT GO-DS 2000 Goniometer (C/G)	☐
Yokogawa WT3000 power analyzer	☐
Chroma 6415 programmable AC source	☐
Agilent 6675A system DC power supply	☐
Integrating sphere U-101-A	☐
EM TEST NetWave3 AC/DC source	☐
FLUKE Norma 4000 power analyzer	☐
Sonopan L-100 luxmeter	☐
Gigahertz X1-3 hazard lightmeter	☐
Gigahertz XD-45-HB-4 Head	☐
Gigahertz XD-45-HUV-4 head	☐

MEASUREMENT UNCERTAINTIES

Type of test	Uncertainties
Luminous flux	+/- 2.2 %
Power	+/- 0.5 %
Imax	+/- 2.2 %
Beam angle of Imax	+/- 0.1°
Ambient temperature 0-50°C	+/- 0.1°C

Signed-off by
Dariusz Pierzchanowski

DISCLAIMER: This photometry report is compiled based on real measurement done in Signify Laboratories during development and release of new products and calculation data pulled from PPS web-based tool and internal data. The values present in this report may differ from real values measured for specific product, but not more than +/-10 % on power and +/- 7% on lumen.

Product Information

Product Family Code	BDP265
Mechanical and Housing	
Housing Material	Aluminum die cast
Optic Material	Polymethyl methacrylate
Optical cover material	Polymethyl methacrylate
Fixation material	Aluminum
Ingress protection code	IP66
Mech. impact protection code	IK09
Corrosion resistance	500 hours Salt Spray Test for standard version, 1.000 hours. Salt Spray Test optional Marine Salt Protection (MSP)

Certification

CE mark	Yes
ENEC mark	ENEC mark
RoHS mark	-
WEEE mark	-
Protection class IEC	I

Service

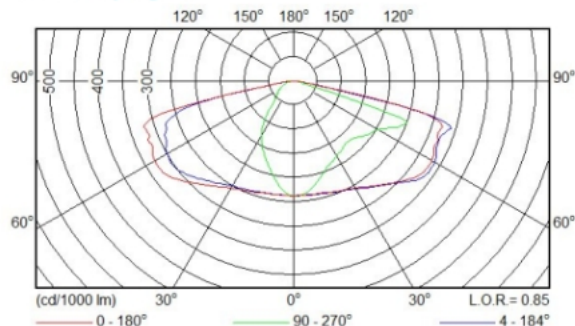
Warranty period	5 years
Serviceability	-
Light source replaceable	Yes
Operating ambient temperature range Tamb	-40 to +50 °C
Performance ambient temperature (Tq)	25 °C
Lumen maintenance	L98
Lifetime	100000 h
Control gear failure rate at median useful life 100000h	10%
Surge protection	6KV in Common or Differential mode as standard, 10KV with optional Surge Protector Device (SPD)

IPEA - Energy classification

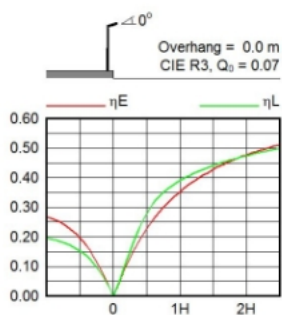
Road		Large area		Historical centers		Green areas		Cycle & pedestrian	
IPEA	Class	IPEA	Class	IPEA	Class	IPEA	Class	IPEA	Class
1.79	A6+	1.87	A7+	2.18	A10+	1.75	A6+	1.75	A6+

Photometric Graphs

Polar intensity diagram



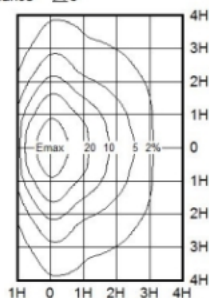
Utilisation factor curve and luminance yield diagram Relative isolux diagram



Horizontal Illuminance $\angle 0^\circ$

H	E_{max}
(m)	(lux)
4.0	29
6.0	13
8.0	7

M.F. = 1.0



Telescopic Street Lamp

