

PHILIPS

Lighting



TOWNTUNE CENTRAL POST-TOP

BDP260 LED-HB/740 II DS50 8000 lm

Introduction

As a luminaire family prepared for existing and scalable urban spaces, TownTune offers all the recent lighting innovations in terms of performance, quality of light and connectivity. The Philips TownTune family consists of three members: a central post top, an asymmetric spigot version and a version using an extending lyre post top bracket. Each of these three can be customized with a choice of different shapes for housing and an optional of decorative ring which comes in two colors. By having these options available you can create your very own lighting signature and give distinctive identity to districts and cities. The luminaire family is also equipped with the QR code-based Philips Service tag, which supports installation and maintenance work and enables you to create your digital library of lighting assets and spare parts. TownTune also makes use of the Philips Ledgine optimized lighting platform ensuring that you always have the right amount and direction of light on your street. Furthermore, thanks to being SR (System Ready), TownTune is also future-proof and is ready to be paired with both standalone and advanced control and lighting software applications such as Interact City.

Additional text

Optical cover: Polycarbonate

Service Tag - QR Code

Optics: Distribution symmetrical 50 (DS50) / Light distribution around the vertical central axis of the luminaire: 360°

A central post top luminaire, without aiming

Horizontal section - Round luminaire

Surge Protector Device (SPD): Luminaire surge protection level 10kV

Upward Light Ratio at tilt=0° - 0.00%

Universal for diameter 48 to 62 mm / 62 to 76 mm - pillar

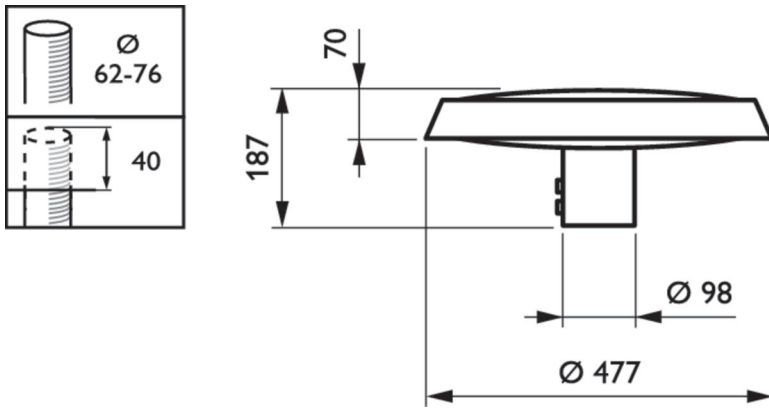
Product Information

Product Family Code	BDP260
Mechanical and Housing	
Housing Material	Aluminum die cast
Fixation material	Aluminum
Ingress protection code	IP66
Mech. impact protection code	IK10
Corrosion resistance	500 hours Salt Spray Test for standard version, 1.000 hours. Salt Spray Test optional Marine Salt Protection (MSP)
Certification	
CE mark	CE mark
ENEC mark	ENEC mark
RoHS mark	-
WEEE mark	-
Protection class IEC	II
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
L-Value	L90
Lifetime	100000 h
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
1.65	A5+	1.72	A6+	2.01	A9+	1.61	A5+	1.61	A5+

Dimensional drawing(s) - mm



Additional text

*Control gear failure rate at median useful life 100000h: 10 %
Lumen maintenance at median useful life 100000 h: L90/B10*

Light technical Report

Drivers

Description	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt
12NC	929002101406
Number of driver(s)	1
Number of luminaire per MCB 16A	10
Inrush current	43 A
Inrush time	260 µs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Current	390 mA
System power (minimum)	48 W
System power (maximum)	48 W
System power (average)	48 W
Power consumption tolerance	+/-11%
Power Factor (100%)	0.98
Power Factor (50%)	0.94
Connectivity	No connectivity
Dimming	No dimming

Light engine

Light source engine type	LED
Number of LED	40
Initial LED luminaire efficacy (source)	167 lm/W
Initial LED luminaire efficacy (system)	121 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)	8000 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	5788 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

Optical configuration	DS50
LOR	0.72
ULR at tilt=0°	0.00%
G* at tilt=0°	G*4
Imax (at 90° and above)	0 cd/klm
CIE code	18 48 92 100 72

Maintenance factor

Maintenance factor according ISO/CIE 22012 TS (2019)

The maintenance factor MF is determined using:

$$MF = LLMF \cdot SF \cdot LMF \cdot SMF$$

where

LLMF is the luminous flux factor

SF is the survival factor (=1 due to spot replacement regime)

LMF is the luminaire maintenance factor

SMF is the surface maintenance factor (=1 for outdoor lighting)

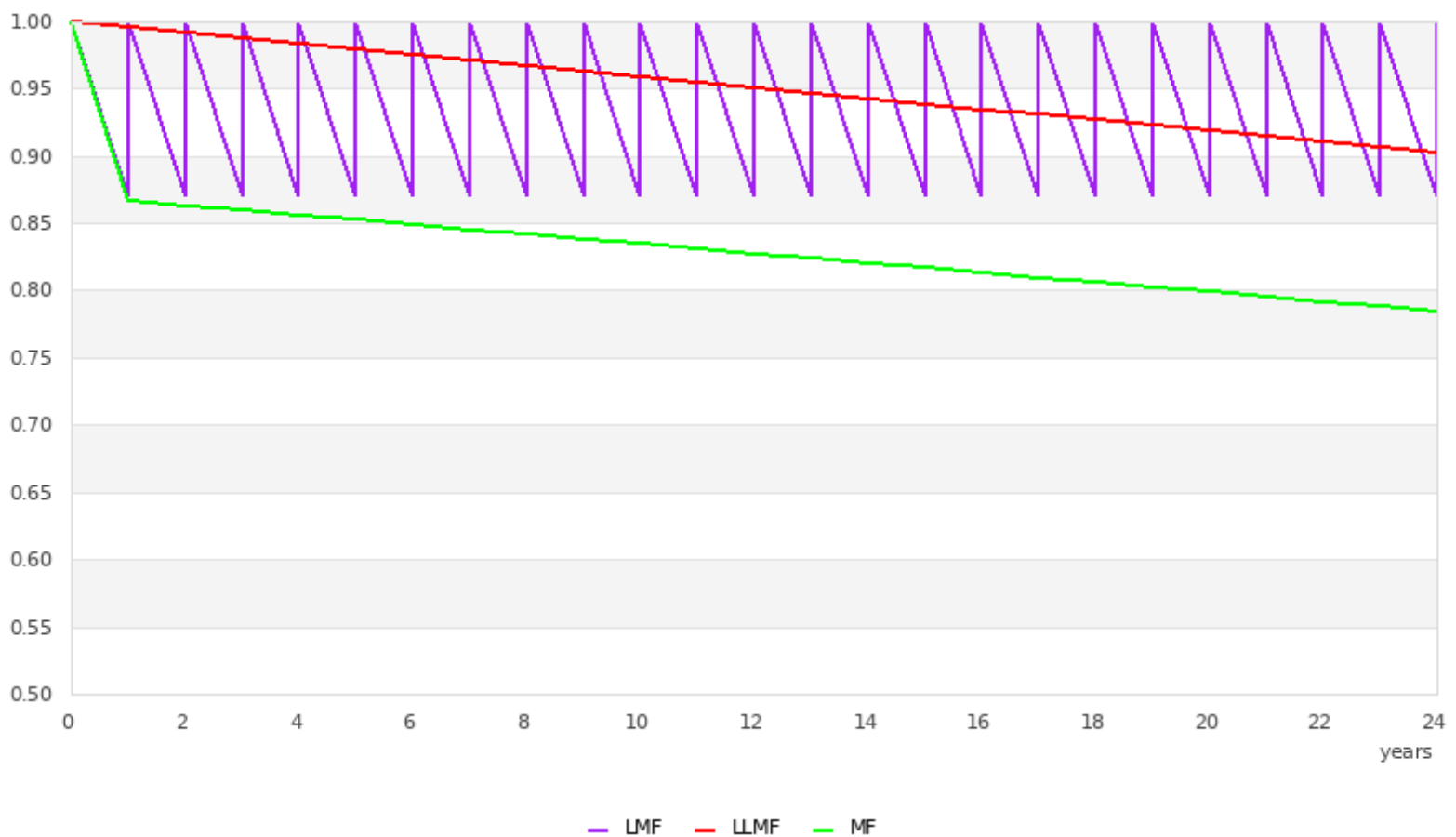
MF for 100000 hours (24.4 years) = 0.78

With

LLMF = 0.9

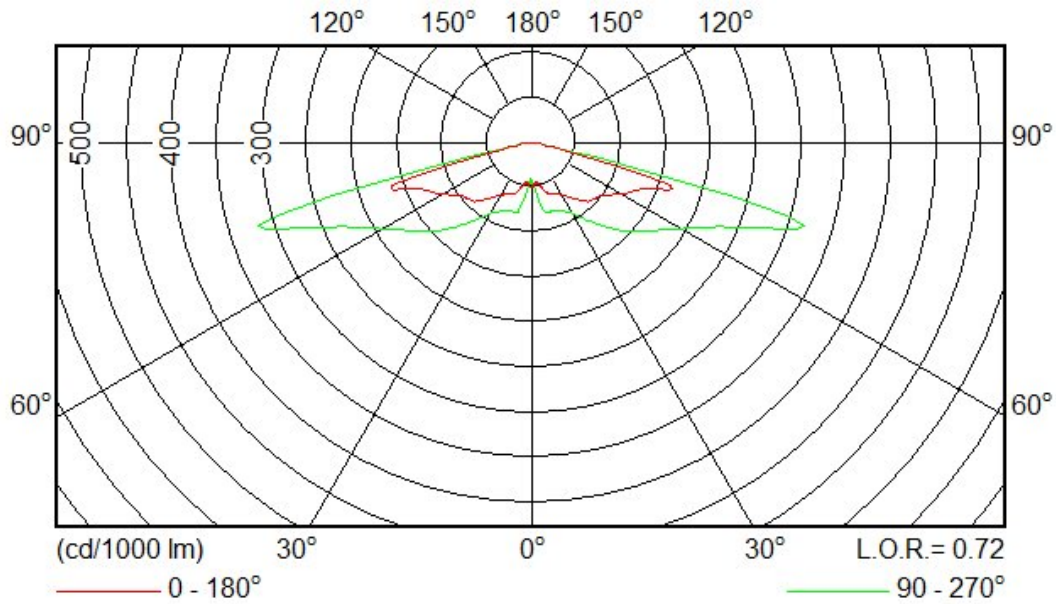
LMF = 0.87

and based on a cleaning cycle of 1 years and 4100 burning hours / year

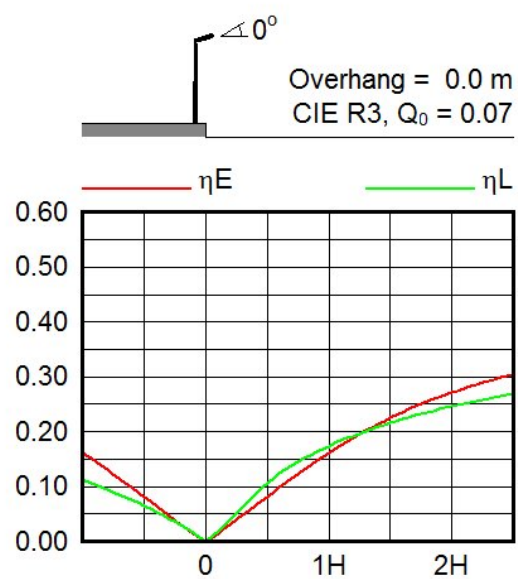


Photometric Graphs

Polar intensity diagram



Utilisation factor curve and luminance yield diagram Relative isolux diagram



Horizontal Illuminance $\angle 0^\circ$

H (m)	E_{max} (lux)
4.0	37
6.0	16
8.0	9

M.F. = 1.0

