UNISTREET GEN2 MINI

BGP282 LED-HB/740 II DN11 16000 lm

Introduction

Designed for large-scale ledification projects, the UniStreet gen2 is the ideal 1:1 luminaire replacement for municipalities. Thanks to its high efficiency and low initial cost, the UniStreet gen2 luminaire enables a fast payback and significant savings in terms of energy consumption within a short period of time. The ease of installation and maintenance is enabled by the Philips Service tag and the Philips SR (System Ready) socket makes it future-ready and you can pair this luminaire with lighting control and software applications such as Interact City.Available with a number of different optics and lumen packages that can even be tuned further to fit exact project requirements, UniStreet gen2 is a true point-to-point replacement solution for conventional light sources. The compact luminaire, using high-quality materials is also easy to dismantle and recycle at the end of its lifetime.

Additional text

Optics: Distribution Narrow 11 – DN11(medium wide asymmetric optics)
Universal for diameter 48 - 60 mm
Surge Protector Device(SPD): Luminaire surge protection level 10kV
Service Tag – QR/Bar code
Optical cover: Flat tempered glass
ENEC certificate

Created Date: 16-02-2022

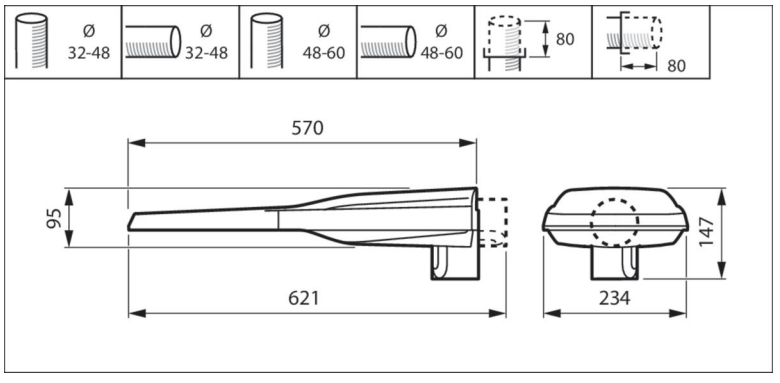
Product Information

Product Family Code	BGP282
Mechanical and Housing	
Housing Material	Aluminum die cast
Fixation material	Aluminum
Ingress protection code	IP66
Mech. impact protection code	IK08
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 plus mark
RoHS mark	-
WEEE mark	-
Protection class IEC	II
Service	
Warranty period	5 years
Serviceability	Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection device, optics, front cover and mechanical parts
Light source replaceable	Yes
Operating ambient temperature range Tamb	-40 to +50 °C
Performance ambient temperature (Tq)	25 °C
L-Value	L80
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**
1.6	A5+	1.9	A8+	2.05	A9+	1.56	A4+	1.56	A4+

Dimensional drawing(s) - mm



Light technical Report

Drivers

Description	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt
12NC	929002873206
Number of driver(s)	1
Number of luminaire per MCB 16A	10
Inrush current	47 A
Inrush time	250 µs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Current	877 mA
System power (minimum)	108 W
System power (maximum)	108 W
System power (average)	108 W
Power consumption tolerance	+/-10%
Power Factor (100%)	0.99
Power Factor (50%)	0.99
Connectivity	No connectivity
Dimming	No dimming

Light engine

Light source engine type	LED
Number of LED	40
Initial LED luminaire efficacy (source)	148 lm/W
Initial LED luminaire efficacy (system)	133 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)	16000 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	14366 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

Optical configuration	DN11
LOR	0.90
ULR at tilt=0°	0.00%
G* at tilt=0°	G*3
Imax (at 90° and above)	0 cd/klm
CIE code	44 75 97 100 90

Dimming range

Current percentage	Current (mA)	System power (minimum) (W)	System power (maximum) (W)	System power (average) (W)	Source flux (lm)	System flux (lm)
100	877	108	108	108	16000	14366
95	834	104	104	104	15419	13844
90	790	98	98	98	14800	13288
85	746	92	92	92	14159	12713
80	702	87	87	87	13494	12116
75	658	82	82	82	12807	11499
70	614	76	76	76	12097	10862
65	571	71	71	71	11366	10205
60	527	66	66	66	10613	9529
55	483	60	60	60	9840	8835
50	439	55	55	55	9047	8123
45	395	50	50	50	8235	7394
40	351	44.5	44.5	44.5	7404	6648
35	307	39.5	39.5	39.5	6555	5886
30	264	34.5	34.5	34.5	5688	5107
25	220	29	29	29	4805	4314
20	176	24	24	24	3905	3506
15	132	19	19	19	2991	2686
10	88	13.6	13.6	13.6	2062	1851

Maintenance factor

Maintenance factor according ISO/CIE 22012 TS (2019)

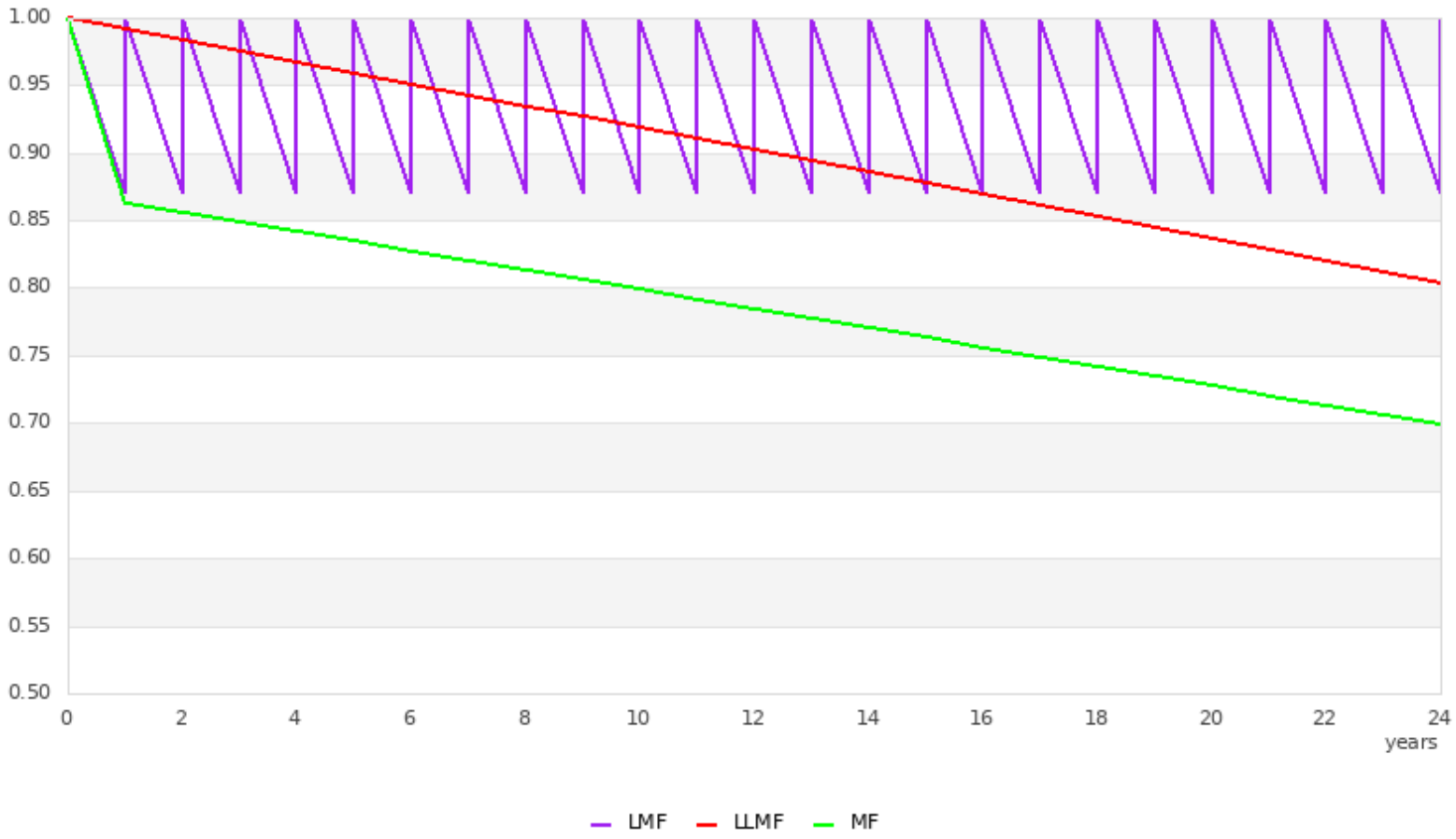
The maintenance factor MF is determined using:

MF = LLMF . SF . LMF . 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) = 0.7

With
LLMF = 0.8
LMF = 0.87
and based on a cleaning cycle of 1 years and 4100 burning hours / year



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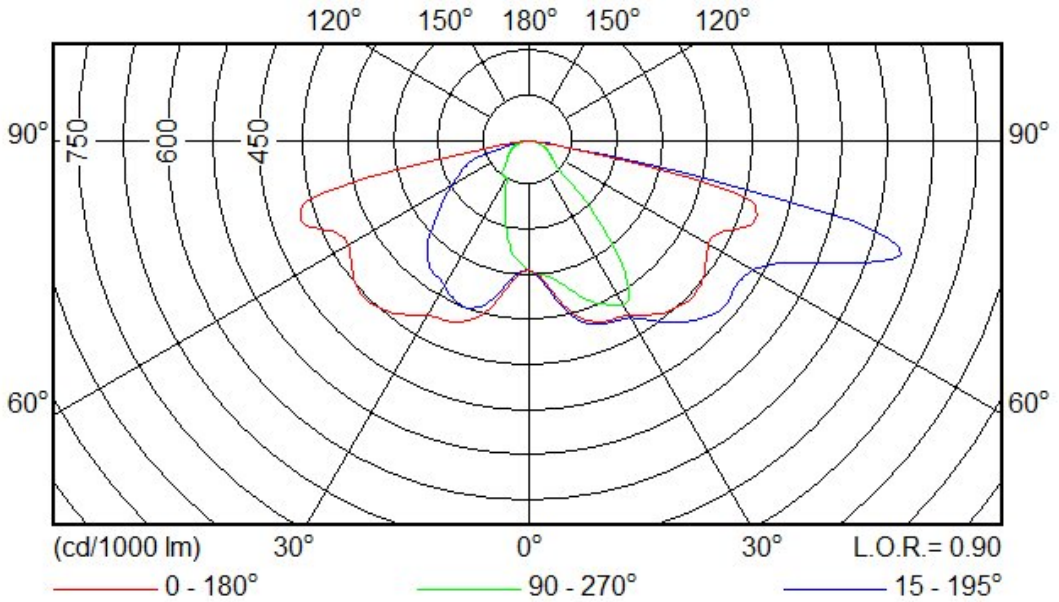
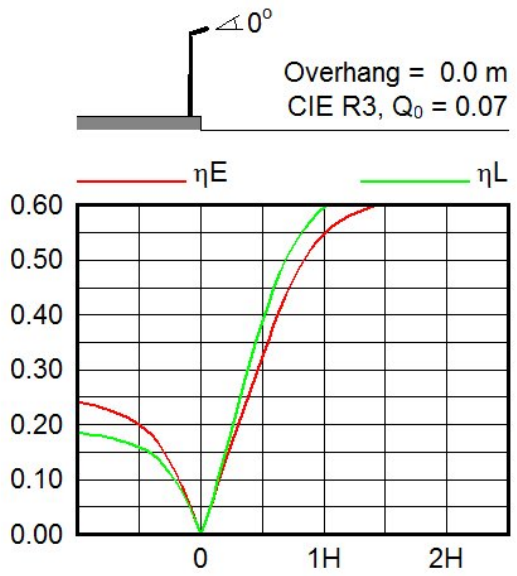
Photometric Graphs

Polar intensity diagram



Utilisation factor curve and luminance yield diagram



Relative isolux diagram

Horizontal Illuminance 0°

H	Emax
(m)	(lux)
4.0	277
6.0	123
8.0	69

M.F.= 1.0