UNISTREET GEN2 MINI

BGP282 LED-HB/740 II DM32 9100 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.

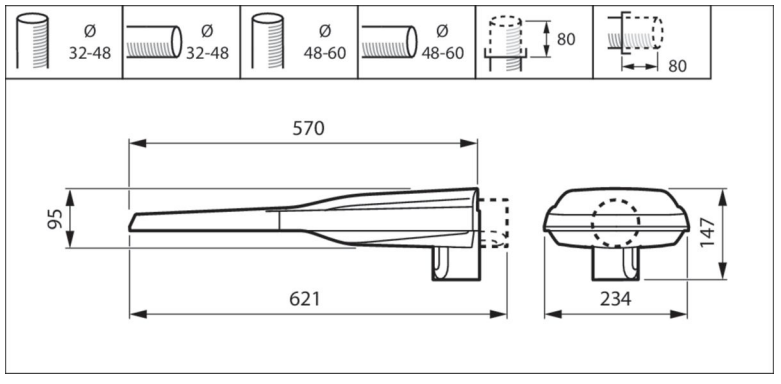
Product Information

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	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**
1.96	A8+	2.05	A9+	2.39	A12+	1.91	A8+	1.91	A8+

Dimensional drawing(s) - mm



Additional text

Optical cover/lens material: Tempered glass

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Light technical Report

Drivers

Description	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt
12NC	929002873106
Number of driver(s)	1
Number of driver per MCB 16A	10
Inrush current	47 A
Inrush time	250 µs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Current	612 mA
System power (minimum)	58 W
System power (maximum)	58 W
System power (average)	58 W
Power consumption tolerance	+/-10%
Power Factor (100%)	0.99
Power Factor (50%)	0.96
Connectivity	No connectivity
Dimming	No dimming

Light engine

Light source engine type	LED
Number of LED	30
Initial LED luminaire efficacy (source)	157 lm/W
Initial LED luminaire efficacy (system)	143 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)	9100 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	8304 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

Optical configuration	DM32
LOR	0.91
ULR at tilt=0°	0.00%
G* at tilt=0°	G*4
Imax (at 90° and above)	0 cd/klm
CIE code	37 77 99 100 91

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	612	58	58	58	9100	8304
95	582	55	55	55	8719	7956
90	551	52	52	52	8323	7595
85	521	49	49	49	7920	7227
80	490	46	46	46	7510	6853
75	459	43.5	43.5	43.5	7093	6473
70	429	40.5	40.5	40.5	6669	6086
65	398	38	38	38	6239	5693
60	368	35	35	35	5803	5295
55	337	32	32	32	5360	4891
50	306	29.5	29.5	29.5	4912	4482
45	276	27	27	27	4457	4067
40	245	24	24	24	3996	3647
35	215	21	21	21	3530	3221
30	184	18.6	18.6	18.6	3059	2791
25	153	16	16	16	2582	2356
20	123	13.2	13.2	13.2	2099	1915
15	92	10.4	10.4	10.4	1612	1471
10	62	7.6	7.6	7.6	1120	1022

Maintenance factor

Maintenance factor according ISO/CIE 22012 TS (2019)

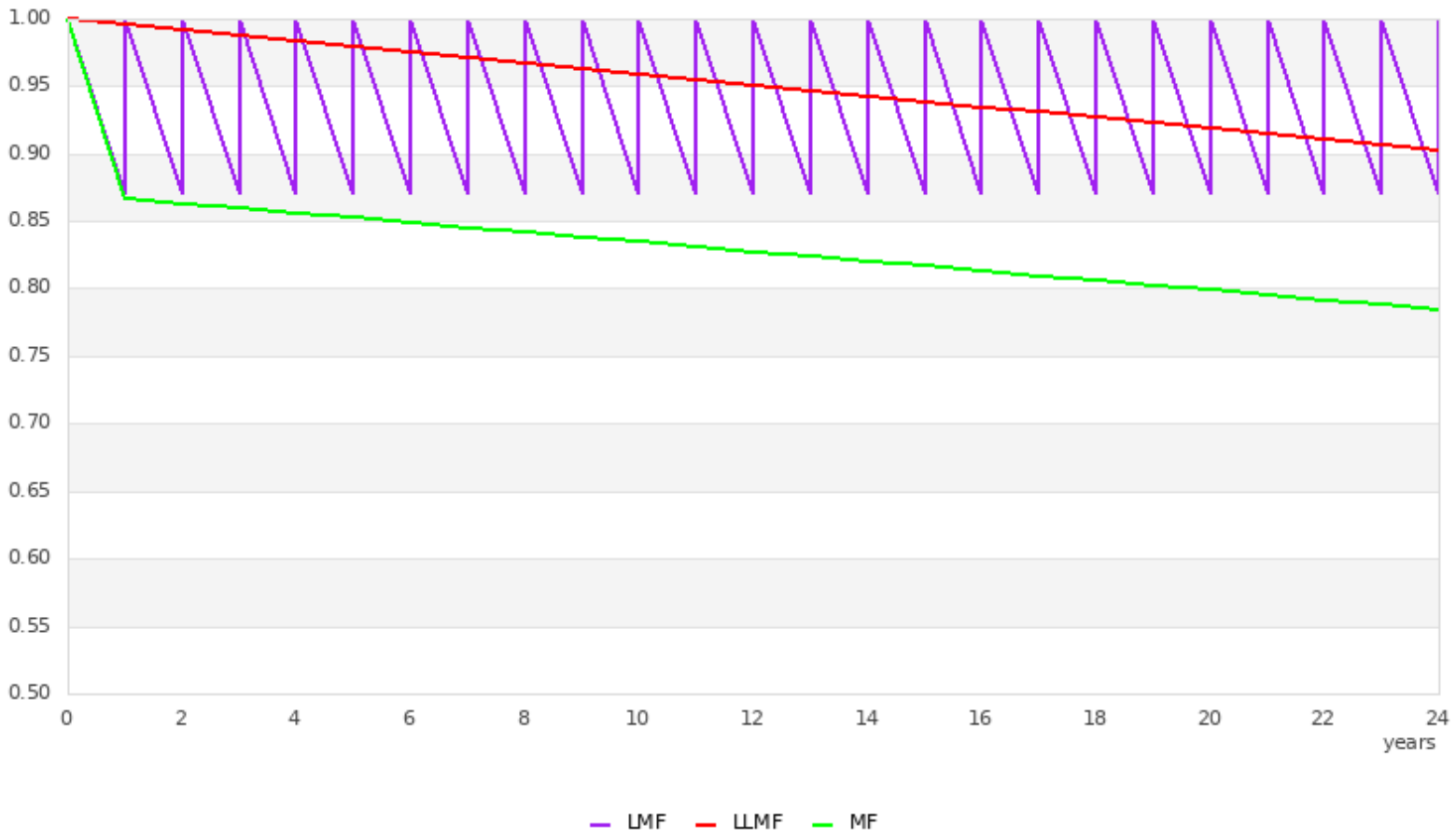
The maintenance factor MF is determined using:

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) = 0.78

With
LLMF = 0.9
LMF = 0.87
and based on a cleaning cycle of 1 years and 4100 burning hours / year



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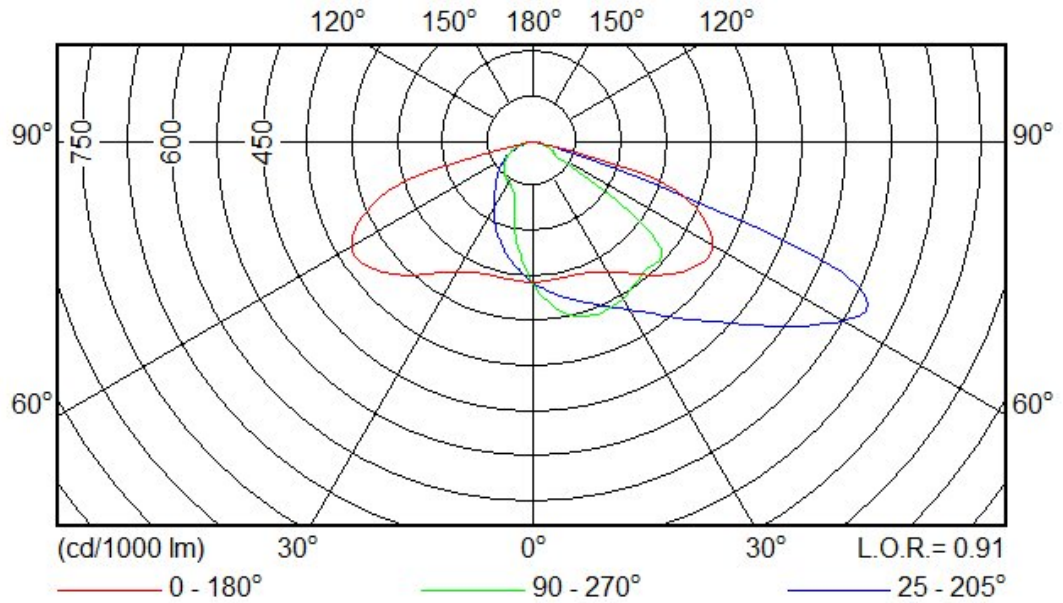
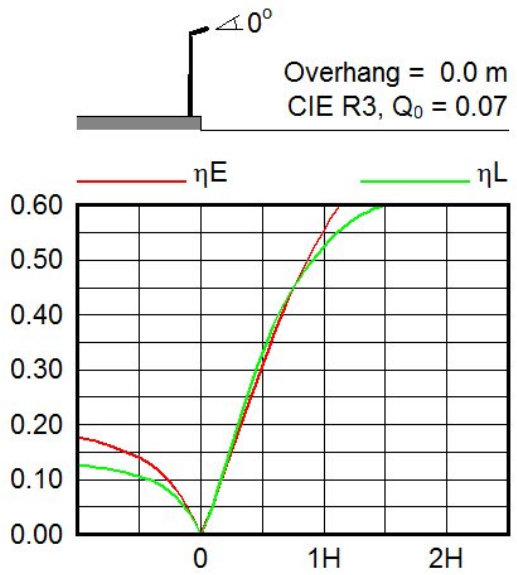
Photometric Graphs

Polar intensity diagram



Utilisation factor curve and luminance yield diagram

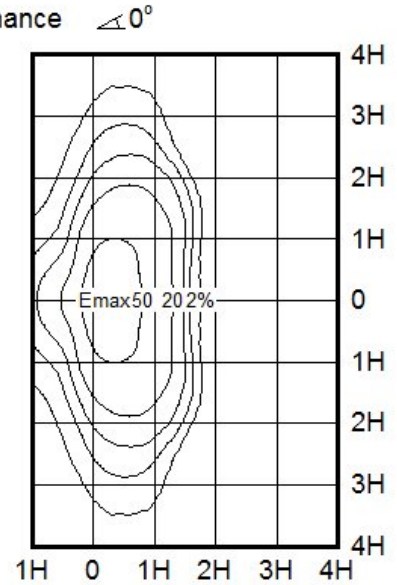


Relative isolux diagram

Horizontal Illuminance 0°

H	Emax
(m)	(lux)
4.0	156
6.0	69
8.0	39

M.F.= 1.0



Lab Information & Certification

Lab Information

Test standards

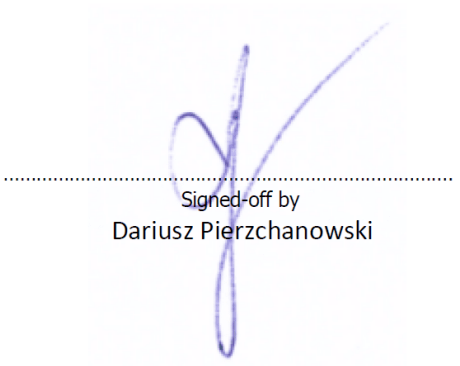
EN 13032-4:2015	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 4: LED lamps, modules and luminaires
EN 13032-1:2014	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 1: Measurement and file format
IEC 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.*

Certification

CERTIFICATE

Ref.No. SMT/CTF-3/0001/3/2018

Supervised Manufacturers' Testing
SMT
Customer's Testing Facility
CTF - Stage 3

It is hereby confirmed that the laboratory

Laboratory of Quality
Philips Lighting Poland Sp. z o.o. Piła
O/Kętrzyn, ul. Chrobrego 8, 11-400 Kętrzyn
POLAND

is authorized by ITE PREDOM Division to perform testing
for the certified body ITE PREDOM Division in the framework ENEC, ENEC+,
CCA agreements, IECEE CB Scheme and national certification
for the products and standards as referred in the Appendix to this certificate and
under conditions as mentioned in the Contract No. SMT/01/12 dated 10.10.2012
This procedure is fully in accordance with the following operational documents
IECEE OD-2048
OD ECS 035

The technical competence of the laboratory
has been checked according to
EN ISO/IEC 17025:2005

the proof has been given in the assessment carried out by ITE PREDOM Division
This certificate is valid if the laboratory observes the requirements of the above mentioned standard and Operational Documents
and under conditions of the Contract No. No. SMT/01/12 dated 10.10.2012

Manager of Certification Office
ITE PREDOM Division
Joanna Wałczak- Złotkowska

Deputy Director of ITE PREDOM Division
Aleksander Piotrowski

Warsaw, 2018-11-28

PREDOM

Instytut Technologii Elektronowej Oddział PREDOM
Institute of Electron Technology PREDOM Division
ul. Krakowiaków 53, 02-255 WARSZAWA, POLSKA - POLAND

APPENDIX TO CERTIFICATE

SMT/CTF-3/0001/3/2018

Supervised Manufacturers' Testing SMT
Customer's Testing Facility CTF - Stage 3

List of products

for which the Laboratory of Quality Philips Lighting Poland Sp. z o.o. Piła O/Kętrzyn
is authorized to perform testing
for ITE PREDOM Division as a certification body in the framework
ENEC an CCA agreements and IECEE CB Scheme

CATEGORY	PRODUCTS*)	STANDARDS**)		
		For ENEC and CCA	For IECEE CB Scheme	For national certification
LITE	Fixed general purpose luminaires	EN 60598-1 EN 60598-2-1	IEC 60598-1 IEC 60598-2-1	EN 60598-1 EN 60598-2-1
LITE	Recessed luminaires	EN 60598-1 EN 60598-2-2	IEC 60598-1 IEC 60598-2-2	EN 60598-1 EN 60598-2-2
LITE	Luminaires for road and street lighting	EN 60598-1 EN 60598-2-3	IEC 60598-1 IEC 60598-2-3	EN 60598-1 EN 60598-2-3
LITE	Floodlights	EN 60598-1 EN 60598-2-5	IEC 60598-1 IEC 60598-2-5	EN 60598-1 EN 60598-2-5
LITE	Luminaires for emergency lighting	EN 60598-1 EN 60598-2-22	IEC 60598-1 IEC 60598-2-22	EN 60598-1 EN 60598-2-22
LITE	Luminaires with limited surface temperatures	EN 60598-1 EN 60598-2-24	IEC 60598-1 IEC 60598-2-24	EN 60598-1 EN 60598-2-24
LITE	LED modules for general lighting	EN 62031	IEC 62031	EN 62031
LITE (ENEC+)	LED modules for general lighting	EPRS 001/ IEC 62717	-	-
LITE (ENEC+)	Luminaires	EPRS 002 / IEC 62722-1	-	-
LITE (ENEC+)	LED Luminaires	EPRS 003/ IEC 62722-2-1	-	-
LITE	Lamp and luminaires	-	-	EN 13032-1
LITE	Lamp and luminaires	-	-	EN 13032-2
LITE	Lamp and luminaires	-	-	EN 13032-3
LITE	LED lamps, modules and luminaires	-	-	EN 13032-4
LITE	Solid-State Lighting Products	-	-	LM-79

**) – Name and address of manufacturing place of the products: Philips Lighting Poland Sp. z o.o. Piła, ul. Kossaka 150, O/Kętrzyn ul. Chrobrego 8, 11-400 Kętrzyn., Poland*

***) – newest edition of the standards/documents*

Manager of Certification Office
ITE PREDOM Division

Joanna Walczak- Złotkowska

Deputy Director of ITE PREDOM Division

Aleksander Piotrowski

Warsaw, 2018-11-28

Instytut Technologii Elektronowej Oddział PREDOM
Institute of Electron Technology PREDOM Division
ul. Krakowiaków 53, 02-255 WARSZAWA, POLSKA - POLAND

POLSKIE CENTRUM AKREDYTACJI

POLISH CENTRE FOR ACCREDITATION

Sygnatariusz EA MLA
EA MLA Signatory

CERTYFIKAT AKREDYTACJI

LABORATORIUM BADAWCZEGO

ACCREDITATION CERTIFICATE OF TESTING LABORATORY

Nr AB 003

Potwierdza się, że: / This is to confirm that:

INSTYTUT TECHNOLOGII ELEKTRONOWEJ
Al. Lotników 32/46, 02-668 Warszawa
INSTYTUT TECHNOLOGII ELEKTRONOWEJ ODDZIAŁ PREDOM
LABORATORIUM BADAWCZE
ul. Krakowiaków 53, 02-255 Warszawa

spełnia wymagania normy PN-EN ISO/IEC 17025:2005
meets requirements of the PN-EN ISO/IEC 17025:2005 standard

Akredytowana działalność jest określona w Zakresie Akredytacji Nr AB 003
Accredited activity is defined in the Scope of Accreditation No AB 003

Akredytacja pozostaje w mocy pod warunkiem przestrzegania wymagań jednostki akredytującej określonych w kontrakcie Nr AB 003
This accreditation remains in force provided the Laboratory observes the requirements of Accreditation Body defined in the Contract No AB 003

Akredytacji udzielono dnia 27.04.1993 r.
Accreditation was granted on 27.04.1993

015127

POLSKIE CENTRUM AKREDYTACJI • 1 •

DYREKTOR
POLSKIEGO CENTRUM AKREDYTACJI

LUCYNA OLBORSKA

Warszawa, 10 grudnia 2018 roku

Intensity Table

```
FORMAT=PHILLUM
VERSION=2.0
STATUS=R
MCOD=LVE170908C
DATE=2018-01-26
TXTS="L-TUNE 2022-10-05"
ORIG=WLD
BRAND=PHILIPS
FAMILY=UniStreet gen2 Mini
FAMCOD=BGP282
HOUSING=BGP282 T25
OPTICS=DM32
BLID=-
LAMP=LED-HB 9100 lm-4S L90@100kh
LAFLUX=9100
NLPS=1
LAMPCOL=740
INPW=58
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GEOTYPE=3
GEOL1=0.095
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GEOL3=0.62
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