



BGP392 | LumiStreet Pro gen2 Mini

BGP392 LED180-4S/740 II DM12 CLO

Introduction

Increasing numbers of municipalities are having to upgrade large-scale conventional street lighting installations with energy efficient LED technology. But they are having to do this with smaller and smaller budgets. That's why the new generation of LumiStreet has been upgraded and designed to provide a solution to this challenge, it is the ideal solution for performing point-to-point replacement of conventional lighting. LumiStreet gen2 achieves this by offering high efficiency, low Total Cost of Ownership, and ease of installation and maintenance. The ease of installation and maintenance is enabled by the Philips Service tag. Moreover, 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.

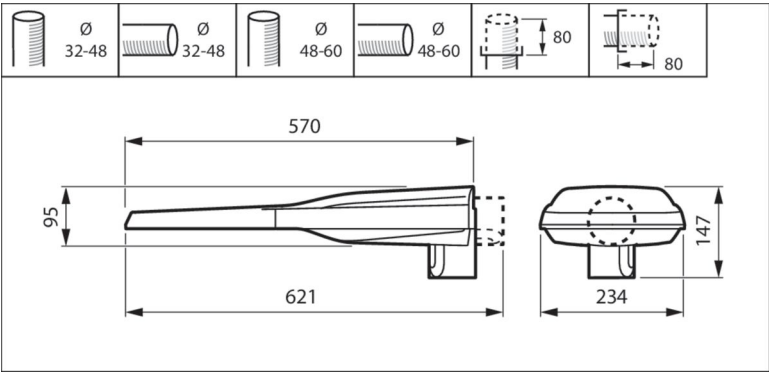
Product Information

Product Family Code	BGP392
Mechanical and Housing	
Housing Material	Aluminum die cast
Optic Material	Polymethyl methacrylate
Optical cover material	Glass
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	Yes
ENEC mark	ENEC plus mark
RoHS mark	-
WEEE mark	-
Protection class IEC	II
Service	
Warranty period	5 years
Serviceability	-
Light source replaceable	Yes
Operating ambient temperature range Tamb	-
Performance ambient temperature (Tq)	25 °C
Lumen maintenance	1
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
1.58	A4+	1.87	A7+	2.01	A9+	1.54	A4+	1.54	A4+

Dimensional drawing(s) - mm



Effective projected area	0.0251 m ²
Weight	kg

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
Start Current	860 mA
End Current	925 mA
System power (minimum)	106 W
System power (maximum)	114 W
System power (average)	110 W
Power consumption tolerance	+/-10%
Power Factor (100%)	0.99
Power Factor (50%)	0.99
Connectivity	No connectivity
Dimming	Dynadimmer DDF82

Light engine

Light source engine type	LED
Number of LED	40
Initial LED luminaire efficacy (source)	156 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)	16500 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	13860 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

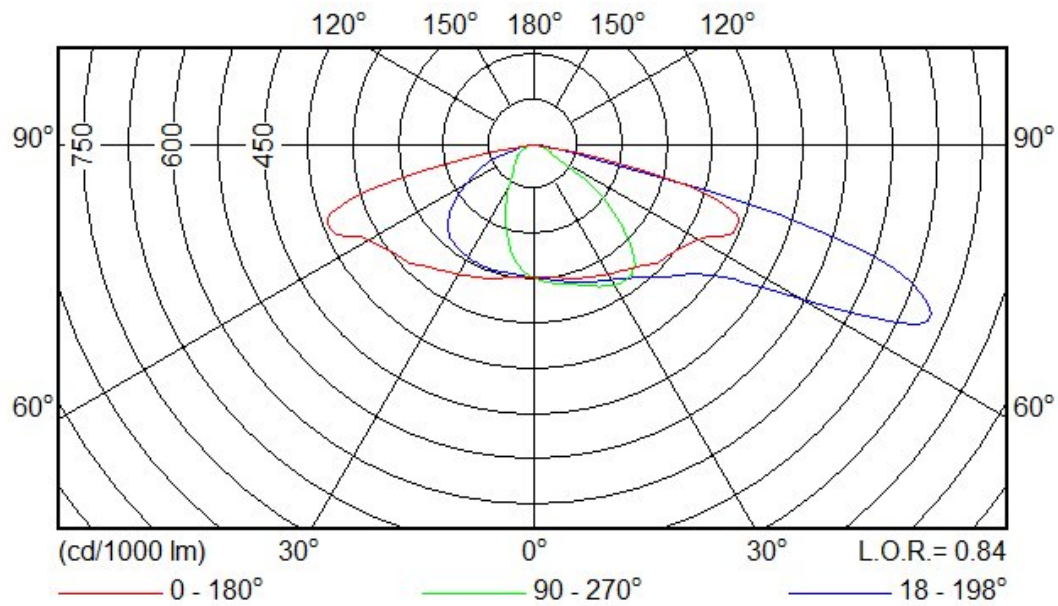
Optical configuration	DM12
LOR	0.84
ULR at tilt=0°	0.00%
G* at tilt=0°	G*3
Imax (at 90° and above)	0 cd/klm
CIE code	39 75 98 100 84

Dimming range

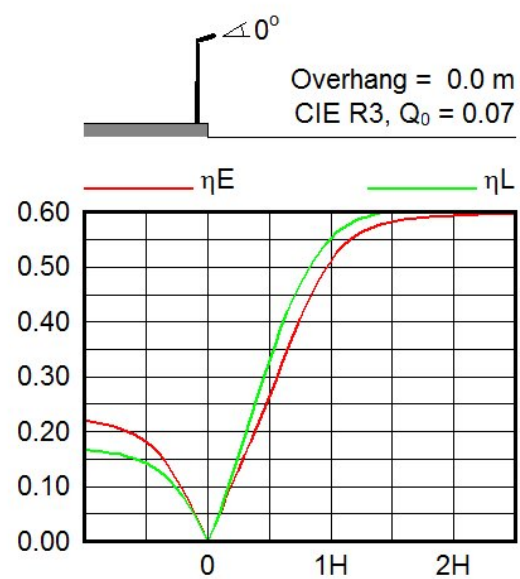
Current percentage	Current (mA)	System power (minimum) (W)	System power (maximum) (W)	System power (average) (W)	Source flux (lm)	System flux (lm)
100	860	106	114	110	16500	13860
95	817	102	108	104	16010	13609
90	774	96	102	99	15271	12980
85	731	91	96	93	14520	12487
80	688	85	90	87	13759	11833
75	645	80	84	82	12988	11300
70	602	75	78	76	12206	10619
65	559	70	72	71	11414	10044
60	516	64	67	65	10611	9338
55	474	59	61	60	9798	8622
50	430	54	56	55	8975	7988
45	387	49	50	49.5	8141	7245
40	344	43.5	44.5	44	7296	6493
35	301	38.5	39.5	39	6441	5797
30	258	33.5	34	34	5575	5018
25	215	28.5	29	28.5	4699	4229
20	172	23.5	24	24	3813	3432
15	129	18.8	18.8	18.8	2916	2624
10	86	13.4	13.6	13.6	2008	1807

Photometric Graphs

Polar intensity diagram



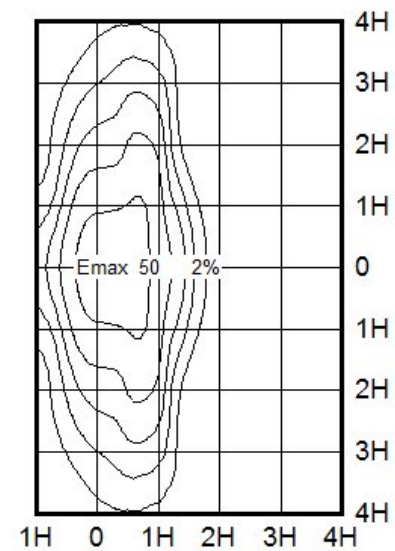
Utilisation factor curve and luminance yield diagram Relative isolux diagram



Horizontal Illuminance $\angle 0^\circ$

H	E_{max}
(m)	(lux)
4.0	233
6.0	104
8.0	58

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

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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.

F-123/1/21

C E R T I F I C A T E

Ref.No.CTF-3/E-CTF-3/0001/4/2021

Customer's Testing Facility CTF - Stage 3 / E-CTF - Stage 3

It is hereby confirmed that the laboratory

**Laboratory of Quality
Signify Poland Sp. z o.o. O/Kętrzyn
ul. Chrobrego 8, 11-400 Kętrzyn
POLAND**

is authorized by Łukasiewicz- IMiF PREDOM Division to perform testing
for the certification body Łukasiewicz- IMiF PREDOM Division
in the framework of
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 032

The technical competence of the laboratory
has been checked according to
EN ISO/IEC 17025:2017

the proof has been given in the assessment carried out by Łukasiewicz- IMiF 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

Joanna Walczak-Ziótkowska



Manager of Certification Office

Filip Walczak



Leader of the Łukasiewicz- IMiF
PREDOM Division

Warsaw, 2021-11-30



Łukasiewicz
Instytut
Mikroelektroniki
i Fotoniki

Łukasiewicz- Instytut Mikroelektroniki i Fotoniki Oddział PREDOM
Łukasiewicz- Institute of Microelectronics and Photonics PREDOM Division
ul. Krakowiaków 53, 02-255 WARSZAWA, POLSKA - POLAND

APPENDIX TO CERTIFICATE

Ref.No.CTF-3/E-CTF-3/0001/4/2021

Customer's Testing Facility CTF - Stage 3 / E-CTF - Stage 3

List of products and standards

for which the Laboratory of Quality Signify Poland Sp. z o.o. O/Kętrzyn
is authorized to perform testing

for the certification body Łukasiewicz- IMiF PREDOM Division
in the framework of

ENEC, ENEC+, CCA agreements, IEC CB Scheme and national certification

CATEGORY	PRODUCTS*)	STANDARDS**)		
		For ENEC and CCA	For IEC 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
HOR	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	IEC 62262	EN 62262

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

**) – newest edition of the standards/documents

Joanna Walczak-Złotkowska

Manager of Certification Office

Filip Walczak

Leader of the Łukasiewicz- IMiF
PREDOM Division

Warsaw, 2021-11-30



Łukasiewicz- Instytut Mikroelektroniki i Fotoniki Oddział PREDOM
Łukasiewicz- Institute of Microelectronics and Photonics 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



DYREKTOR
POLSKIEGO CENTRUM AKREDYTACJI


LUCYNA OLBORSKA

Warszawa, 10 grudnia 2018 roku

