



BGP391 | LumiStreet Pro gen2 Micro

BGP391 LED69-4S/740 II DM11 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.

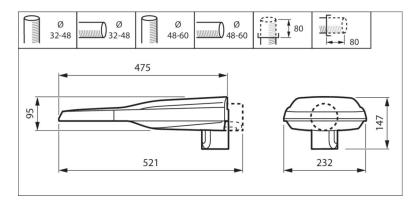
Product Information

Product Family Code	BGP391
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

Ro	oad	Large	e area	Historica	Historical centers Green areas		Cycle & pedestrian		
IPEA	Class	IPEA	Class	IPEA	Class	IPEA	Class	IPEA	Class
1.89	A7+	1.98	A8+	2.3	A12+	1.84	A7+	1.84	A7+

Dimensional drawing(s) - mm



Effective projected area	0.0235 m ²
Weight	kg

Light technical Report

Drivers

Description	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt
12NC	929002165206
Number of driver(s)	1
Number of luminaire per MCB 16A	30
Inrush current	18 A
Inrush time	280 μs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Start Current	658 mA
End Current	685 mA
System power (minimum)	42 W
System power (maximum)	44 W
System power (average)	43 W
Power consumption tolerance	+/-10%
Power Factor (100%)	0.99
Power Factor (50%)	0.96
Connectivity	No connectivity
Dimming	Dynadimmer DDF451
Light engine	
Light source engine type	LED
Number of LED	20
Initial LED luminaire efficacy (source)	157 lm/W
Initial LED luminaire efficacy (system)	138 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)	6600 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	5808 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

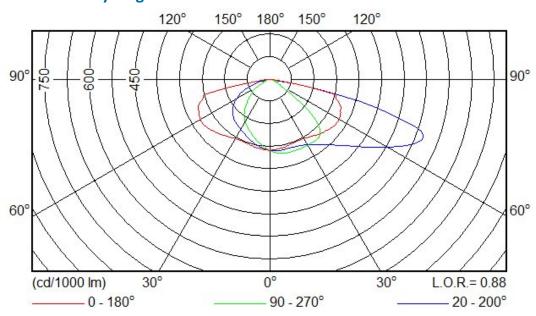
Optical configuration	DM11
LOR	0.88
ULR at tilt=0°	0.00%
G* at tilt=0°	G*2
Imax (at 90° and above)	0 cd/klm
CIE code	39 75 97 100 88

Dimming range

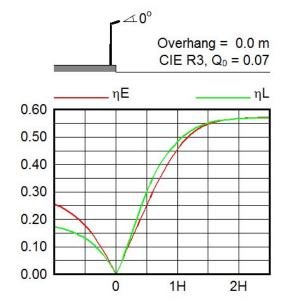
Current percentage	Current (mA)	System power (minimum) (W)	System power (maximum) (W)	System power (average) (W)	Source flux (lm)	System flux (lm)
100	658	42	44	43	6600	5808
95	626	40	41.5	41	6323	5564
90	593	38	39.5	38.5	6022	5299
85	560	36	37	36.5	5718	5089
80	527	34	35	34.5	5411	4816
75	494	32	32.5	32	5101	4540
70	461	30	30.5	30	4788	4261
65	428	27.5	28.5	28	4472	3980
60	395	25.5	26.5	26	4152	3695
55	362	23.5	24	24	3830	3409
50	329	21.5	22	22	3504	3119
45	297	19.8	20	20	3176	2827
40	264	17.8	18.2	18	2844	2531
35	231	15.8	16	15.8	2510	2234
30	198	13.8	13.8	13.8	2172	1933
25	165	12	12.2	12	1831	1630
20	132	10	10.2	10.2	1487	1323
15	99	8	8	8	1140	1015
10	66	6.2	6.2	6.2	790	711

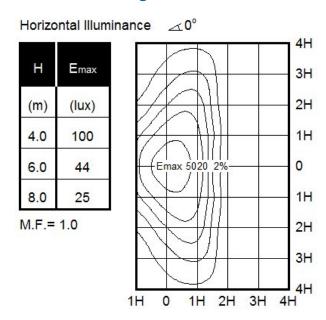
Photometric Graphs

Polar intensity diagram



Utilisation factor curve and luminance yield diagram Relative isolux diagram





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 requirement		
IES LM-79-08	IES Approved Method: Electrical and Photometric Measurements 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 %	, /
lmax	+/- 2.2 %	
Beam angle of Imax	+/- 0.1°	~ 1
Ambient temperature 0-50°C	+/- 0.1°C	()/
		Signed-off by
		Dariusz Pierzchanowski
		Λ

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.

CERTIFICATE

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-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

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, IECEE CB Scheme and national certification

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+)	(C+) 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/Ketrzyn ul. Chrobrego 8, 11-400 Ketrzyn., Poland
**) – newest edition of the standards/documents

Manager of Certification Office

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

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.





DYREKTOR POLSKIEGO CENTRUM AKREDYTACJI

Olbulua LUCYNA OLBORSKA

Warszawa, 10 grudnia 2018 roku

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