

**PHILIPS**

Lighting



## UniStreet

### Introduction

At relatively low initial cost, the highly efficient LED-based UniStreet luminaire offers significant cost savings compared with conventional street lighting, ensuring full payback within a short period of time. Available in a choice of lumen packages, UniStreet allows point-to-point replacement of outdated conventional light sources and luminaires. The compact, slim luminaire is made of quality recyclable materials. And being a LED solution, it requires little maintenance. Core version design for high-volume projects at relatively low initial budget. Offer limited range of optics. Performer version design for customers who are preparing big renovation projects, TCO oriented

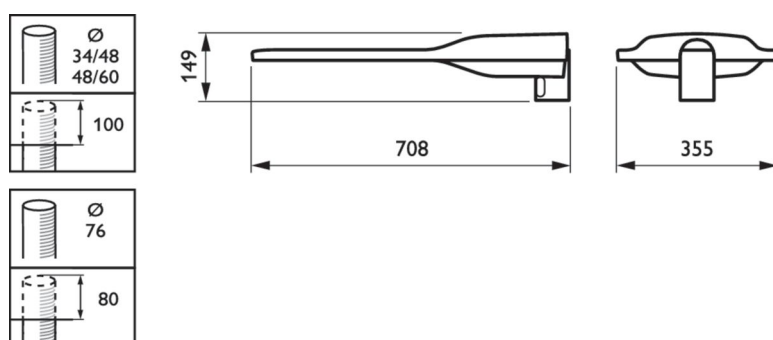
**Additional text**

910770210085 BGP204 LED160-4S/740 II DN10 D9 SRG10 48/60S

## Product Information

<b>Product Family Code</b>	BGP204
<b>Mechanical and Housing</b>	
<b>Overall width</b>	355 mm
<b>Overall height</b>	98 mm
<b>Overall length</b>	755 mm
<b>Housing Material</b>	Aluminum die cast
<b>Fixation material</b>	Aluminum
<b>Mounting device</b>	Universal for diameter 48 to 60 mm adjustable
<b>Ingress protection code</b>	IP66
<b>Mech. impact protection code</b>	IK08
<b>Corrosion resistance</b>	500 hours Salt Spray Test for standard version, 1.000 hours. Salt Spray Test optional Marine Salt Protection (MSP)
<b>Certification</b>	
<b>CE mark</b>	CE mark
<b>ENEC mark</b>	ENEC mark
<b>RoHS mark</b>	-
<b>WEEE mark</b>	-
<b>Protection class IEC</b>	II
<b>Service</b>	
<b>Warranty period</b>	5 years
<b>Serviceability</b>	Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection device, optics, front cover and mechanical parts
<b>Light source replaceable</b>	Yes
<b>Operating ambient temperature range Tamb</b>	-40 to +50 °C
<b>Performance ambient temperature (Tq)</b>	25 °C
<b>L-Value</b>	L91
<b>Lifetime</b>	100000 hours
<b>Surge protection</b>	6KV in Common or Differential mode as standard, 10KV with optional Surge Protector Device (SPD)

## Dimensional drawing(s) - mm



## Light technical Report

### Drivers

Driver	929.000.962.206 - Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt
Inrush time	300 $\mu$ s
Input Voltage	220V-240V
Inrush current	53 A
Input Frequency	50/60 Hz
Start Current	393 mA
System power (minimum)	93 W
System power (maximum)	93 W
System power (average)	93 W
Power consumption tolerance	+/-11%
Power Factor (100%)	0.97
Dimming	DALI

### Light engine

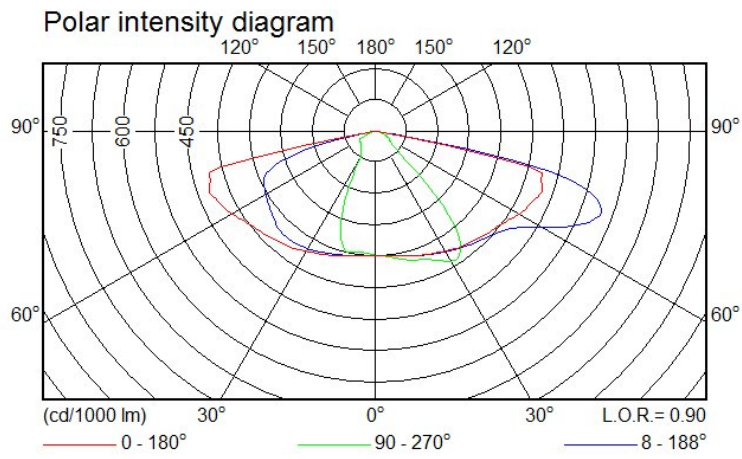
Light source engine type	LED
Number of LED	80
Number of gear units	1 unit
Initial LED luminaire efficacy (source)	172 lm/W
Initial LED luminaire efficacy (system)	154 lm/W
Light source colour	-
Init. colour Rendering Index	-
Init. Corr. colour Temperature	- K
Initial tolerance	+/- - K
End of life tolerance	+/- - K
Initial luminous flux (source)	16000 lm
Luminous flux tolerance	+/-7%

#### Additional text

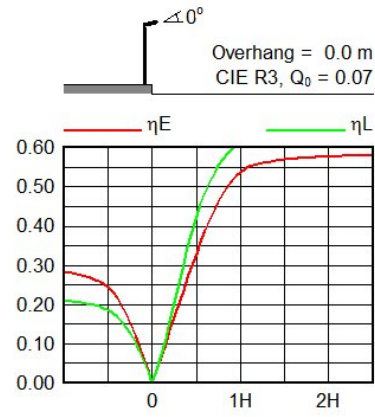
Additional surge protection device SRG10 10kV  
External DALI control connection D9

<b>Initial luminous flux (system)</b>	14368 lm
<b>Photobiological risk</b>	Risk group 0 (exempt) according to EN IEC 62471
<b>Optics</b>	
<b>Optical configuration</b>	DN10
<b>LOR</b>	0.90
<b>ULR at tilt=0°</b>	0

# Photometric Graphs



**Utilisation factor curve and luminance yield diagram**

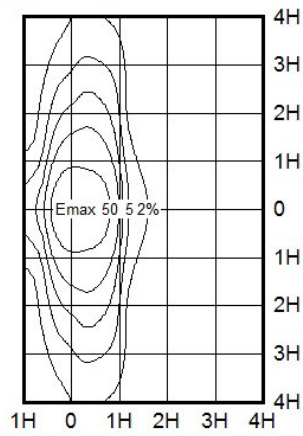


**Relative isolux diagram**

Horizontal Illuminance  $\triangleleft 0^\circ$

H	$E_{max}$
(m)	(lux)
3.0	525
3.5	386
4.0	296

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)	<input type="checkbox"/>
Yokogawa WT3000 power analyzer	<input type="checkbox"/>
Chroma 6415 programmable AC source	<input type="checkbox"/>
Agilent 6675A system DC power supply	<input type="checkbox"/>
Integrating sphere U-101-A	<input type="checkbox"/>
EM TEST NetWave3 AC/DC source	<input type="checkbox"/>
FLUKE Norma 4000 power analyzer	<input type="checkbox"/>
Sonopan L-100 luxmeter	<input type="checkbox"/>
Gigahertz X1-3 hazard lightmeter	<input type="checkbox"/>
Gigahertz XD-45-HB-4 Head	<input type="checkbox"/>
Gigahertz XD-45-HUV-4 head	<input type="checkbox"/>

## 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 deg.

**DISCLAIMER:** This photometry report is compiled based on real measurement done in Philips Lighting 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 +/- 11 % on power and +/- 7% on lumen.

Certification





# 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. Pila 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. Pila, 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- Zlotkowska

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



DYREKTOR  
POLSKIEGO CENTRUM AKREDYTACJI

LUCYNA OLBORSKA

Warszawa, 10 grudnia 2018 roku

# Intensity Table

FORMAT=PHILLUM  
VERSION=2.0  
STATUS=R  
MCOD=LVP013030C  
DATE=2018-01-26  
ORIG=WLD  
BRAND=PHILIPS  
FAMILY=Uni/LumiStreet Large  
FAMCOD=BGP204  
HOUSING=BGP204  
OPTICS=DN10  
BLID=-  
LAMP=LED-HB 16000lm-4S/-  
LAFLUX=16000  
NLPS=1  
LAMPCOL=-  
INPW=93  
INVO=230  
GEOTYPE=3  
GEOL1=0.1  
GEOL2=0.355  
GEOL3=0.705  
OPTTYPE=3  
OPTL1=0  
OPTL2=0.315  
OPTL3=0.375  
SURF76=0.029  
SURF85=0  
PTYP=C  
BANGLE=0.0  
TLME=0.0  
LUBA=1000  
CORR=1  
SYMCON=4  
SYMPANE=2  
NCON=64  
NPLA=73  
CONA= 0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 27.5 30 32.5 35 37.5 40 42.5 45 46 47 48 49 50 51 52 53 54 55 56  
57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90  
PLANA= 90 92.5 95 97.5 100 102.5 105 107.5 110 112.5 115 117.5 120 122.5 125 127.5 130 132.5 135 137.5 140  
142.5 145 147.5 150 152.5 155 157.5 160 162.5 165 167.5 170 172.5 175 177.5 180 182.5 185 187.5 190 192.5 195  
197.5 200 202.5 205 207.5 210 212.5 215 217.5 220 222.5 225 227.5 230 232.5 235 237.5 240 242.5 245 247.5 250  
252.5 255 257.5 260 262.5 265 267.5 270  
ITABLE= 295.4 296.4 298.9 302.6 307.5 312.7 317.5 321.1 324.9 330.5 337.7 347.6 358.9 361.4 350.9 328.2 290.3  
223.9 136.5 101.5 83.6 65.6 60.6 55.5 52.7 49.9 47.5 45.2 43.3 41.5 40.5 39.4 38.6 38 37.4 36.1 34.1 32.4  
30.9 29.2 27.3 25.6 24 22.4 20.8 19.2 17.5 15.8 14.2 12.5 11 9.6 8.1 6.7 5.2 4.1 3.2 2.2 1.3 0.7 0.3 0.2 0.1 0  
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27.5 25.7 24.1 22.5 20.8 19.3 17.5 15.9 14.2 12.6 11.1 9.6 8.2 6.7 5.2 4.2 3.2 2.2 1.3 0.7 0.3 0.2 0.1 0  
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27.5 25.8 24.1 22.5 20.8 19.3 17.5 15.9 14.2 12.6 11.1 9.7 8.3 6.8 5.4 4.2 3.3 2.3 1.4 0.7 0.3 0.2 0.1 0  
295.4 300.5 302.6 306 310.9 316 320.7 324.4 328.1 333.3 340.3 350 360.8 364.2 355.7 334.9 299.8 239.9 154.3  
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295.4 299.8 302.2 305.8 310.7 315.8 320.6 324.4 328 332.9 339.8 349.1 360.3 364.5 357.5 337.5 304.1 247.1  
163.3 126.2 100.6 74.9 66.9 58.8 55.2 51.7 49 46.3 44.3 42.1 40.7 39.3 38.5 37.6 36.9 36 34.7 32.9 31.1 29.5  
27.9 26 24.2 22.6 20.9 19.3 17.6 15.9 14.2 12.6 11.1 9.7 8.2 6.9 5.6 4.4 3.4 2.4 1.5 0.8 0.3 0.2 0.1 0  
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 38.8 35.3 32.1 29.2 26.7 24.3 22.1 20.3 18.6 16.9 15.2 13.3 11.7 10.2 8.5 7 5.4 4 2.6 1.6 0.8 0.4 0.2 0.1 0  
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