



Brand: Signify, Philips



ClearWay gen2

BGP307 LED84-4S/730 II DM10

Introduzione

ClearWay gen2 permette a tutti di beneficiare dei vantaggi della tecnologia LED, grazie alla sua semplicità ed efficienza. Questa seconda generazione di ClearWay si basa sui punti di forza del suo predecessore ed è progettata per ridurre ulteriormente il costo totale di proprietà. ClearWay gen2 migliora, in modo significativo, la qualità dell'illuminazione stradale rispetto alle lampade convenzionali a scarica. Ideale sia per nuovi impianti che per progetti di rinnovamento ed efficientamento di impianti esistenti, questa gamma di apparecchi a LED combina alta qualità a notevoli risparmi energetici e manutentivi, in una soluzione economica e dal design pulito. ClearWay gen2 è sinonimo di luce di qualità con tutti i vantaggi della tecnologia a LED: risparmio energetico e lunga durata. facilità di installazione e design essenziale.

Report illuminotecnico

Driver

Descrizione	LCO 90/200-1050/165 o4a NF C EXC3
12NC	875007170000
Numero di driver	1
Numero di driver per MCB 16A	10
Corrente di spunto	41.6 A
Intervallo di spunto	238 μ s
Tensione di ingresso	220V-240V
Frequenza di ingresso	50/60 Hz
Corrente	414 mA
Potenza sistema (minima)	50 W
Potenza sistema (massima)	50 W
Potenza sistema (media)	50 W
Tolleranza potenza assorbita	+/-10%
Fattore di potenza (100%)	0.96
Fattore di potenza (50%)	0.88
Connettività	No connectivity
Regolazione	Dynadimmer DDF2

Modulo LED

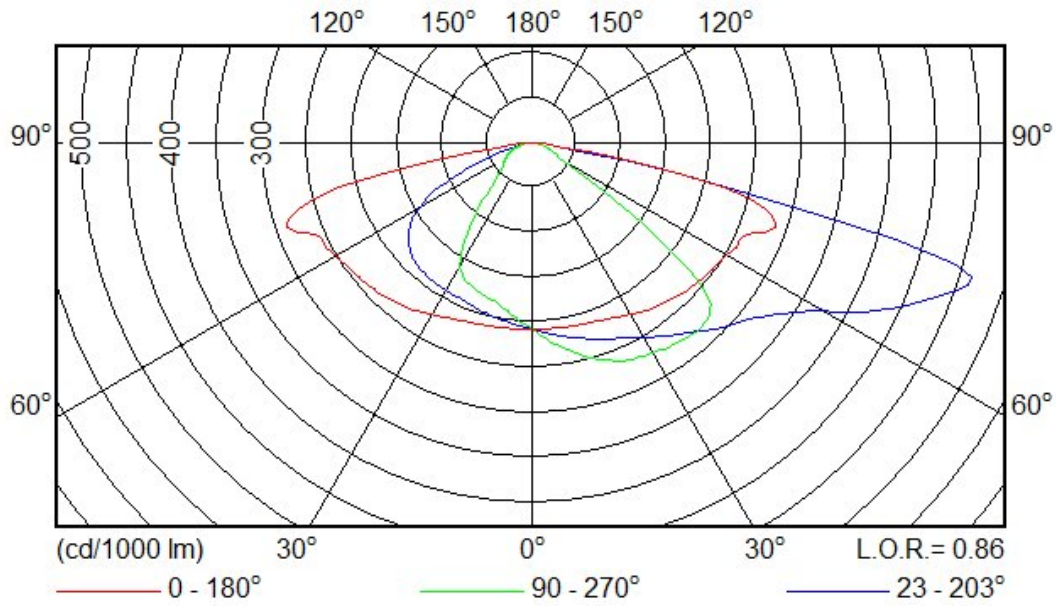
Modulo LED tipo	LED
Numero di LED	40
Efficienza iniziale LED (sorgente)	168 lm/W
Efficienza iniziale apparecchio LED (sistema)	144 lm/W
Colorazione sorgente	730 (Warm White)
Indice resa cromatica (CRI) iniziale	70
Tolleranza CRI iniziale	+/-2
Temperatura di colore correl. Iniziale	3000 K
Tolleranza iniziale	+/- 120 K (5 SDCM)
Tolleranza a fine vita	+/- 165 K
Flusso luminoso iniziale (sorgente)	8400 lm
Tolleranza sul flusso luminoso	+/-7%
Flusso luminoso iniziale (sistema)	7224 lm
Rischio fotobiologico	Gruppo di rischio 0 (esente) in accordo a EN IEC 62471

Ottiche

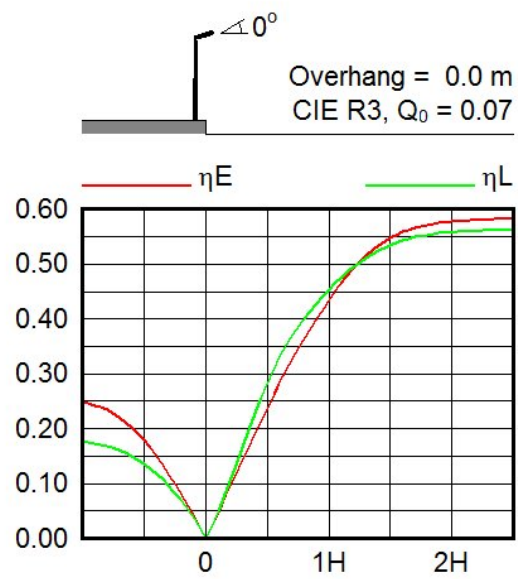
Configurazione ottica	DM10
LOR	0.86
ULR a tilt=0°	0.00%
G* a tilt=0°	G*2
Imax (a 90° e superiore)	0 cd/klm
Codice CIE	39 73 97 100 86

Grafico fotometrico

Polar intensity diagram



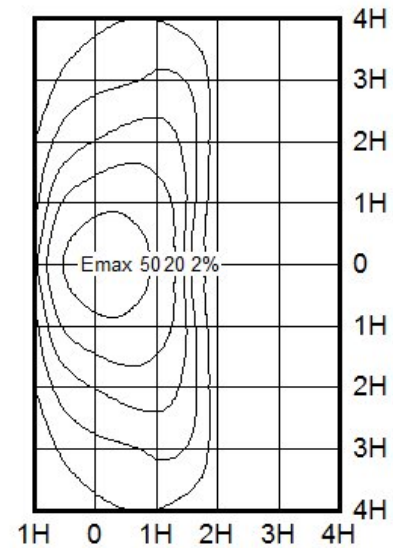
Utilisation factor curve and luminance yield diagram Relative isolux diagram



Horizontal Illuminance $\triangle 0^\circ$

H (m)	E_{max} (lux)
4.0	117
6.0	52
8.0	29

M.F. = 1.0



Informazioni e certificazioni laboratorio

Informazioni laboratorio

Test standards

EN 13032-4:2015	Luce e illuminazione. Misurazione e presentazione dei dati fotometrici di lampade e apparecchi di illuminazione. Parte 4: Lampade LED, moduli e apparecchi.
EN 13032-1:2014	Luce e illuminazione. Misurazione e presentazione dei dati fotometrici di lampade e apparecchi di illuminazione. Parte 1: Misurazione e formato di file.
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

Strumenti di misura

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"/>

INCERTEZZA DI MISURA

Tipo di test	Errore di misura
Flusso luminoso	+/- 2.2 %
Potenza	+/- 0.5 %
Imax	+/- 2.2 %
Angolo di Imax	+/- 0.1°
Temperatura ambiente 0-50°C	+/- 0.1°C

.....
Signed-off by
Dariusz Pierzchanowski

DICHIARAZIONE: Questo rapporto fotometrico è compilato sulla base di misurazioni reali eseguite nei laboratori Signify durante lo sviluppo e rilascio di nuovi prodotti, dati di calcolo estratti dal database PPS basato sul web e da dati interni.



Łukasiewicz – IMiF Oddział PREDOM
Centrum Badań i Certyfikacji
02-255 Warszawa, ul. Krakowiaków 53



CERTIFICATE OF ACCEPTANCE
Customer's Testing Facility
CTF-Stage 3 / E-CTF – Stage 3

Ref. No. 1/CTF/01/25

It is hereby confirmed that the
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 to the CTF Assessment Report
No. IECEE-AA /113/Ł-IMiF PREDOM Division 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 Contract No. SMT/01/12 dated 10.10.2012

This certificate is valid until: **2026-06-26**

Signed by /
Podpisano przez:

Paweł Andrzej
Oziębło

Date / Data: 2025-
06-26 10:06

Manager of Certification Office



Warsaw, 2025.06.26

IECEE CTF Program

This Certificate Of Acceptance confirms the participation of the above mentioned laboratory in the CTF program of IECEE and does not authorize the manufacturer to use any certification mark of Łukasiewicz-IMiF Oddział PREDOM or IECEE.



Łukasiewicz – IMiF Oddział PREDOM
Centrum Badań i Certyfikacji
02-255 Warszawa, ul. Krakowiaków 53



APPENDIX TO CERTIFICATE

Ref. No. 1/CTF/01/25

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	General requirements and tests	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022	IEC 60598-1:2020	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022
LITE	Fixed general purpose luminaires	EN IEC 60598-2-1:2021	IEC 60598-2-1:2020	EN IEC 60598-2-1:2021
LITE	Recessed luminaires	EN IEC 60598-2-2:2024	IEC 60598-2-2:2023	EN IEC 60598-2-2:2024
LITE	Luminaires for road and street lighting	EN 60598-2-3:2003 EN60598-2-3:2003/A1:2011	IEC 60598-2-3:2002 IEC 60598-2-3:2002/AMD1:2011	EN 60598-2-3:2003 EN60598-2-3:2003/A1:2011
LITE	Floodlights	EN 60598-2-5:2015	IEC 60598-2-5:2015	EN 60598-2-5:2015
LITE	Luminaires for emergency lighting	EN IEC 60598-2-22:2022	IEC 60598-2-22:2021	EN IEC 60598-2-22:2022
LITE	Luminaires with limited surface temperatures	EN 60598-2-24:2013	IEC 60598-2-24:2013	EN 60598-2-24:2013
LITE (ENEC+)	Luminaires	EPRS 002:2018-05 (based on EN 62722-1:2016)	-	-
LITE (ENEC+)	LED Luminaires	EPRS 003: 2018-05 (based on EN 62722-2-1:2016)	-	-
LITE	Lamp and luminaires	-	-	EN 13032-1:2004+A1:2012
LITE	Lamp and luminaires	-	-	EN 13032-2:2017
LITE	Lamp and luminaires	-	-	EN 13032-3:2021
LITE	LED lamps, modules and luminaires	-	-	EN 13032-4:2015+A1:2019
LITE	Solid-State Lighting Products	-	-	LM-79-08
HOR	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262:2002 EN 62262:2002/A1:2021	IEC 62262:2002 IEC 62262:2002/AMD1:2021	EN 62262:2002 EN 62262:2002/A1:2021

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

Signed by /
Podpisano przez:

Paweł Andrzej
Oziębło
Date / Data: 2025-
06-26 10:08
Manager of Certification Office



AENOR



Testing Facilities CTF STAGE 3

E02/000009

AENOR recognizes that the testing facilities of the organization

SIGNIFY B.V.

registered office I.B.R.S./C.C.R.I. N° 10461
5600 VB EINDHOVEN (The Netherlands)

have been accepted for the **Application of procedure CUSTOMER'S TESTING FACILITIES (CTF) - STAGE 3**

in conformity with international documents IECCE OD-2048 / ETICS OD-ECS 032

Name of testing facility Signify Manufacturing Spain
Address of testing facility Crta. de las Arcas Reales, s/n
47008 Valladolid - Spain

See annex for more information.

Certification scheme This recognition has been issued pursuant to international documents IECCE OD-2048 / ETICS OD-ECS 032 for performing the testing in accordance with standard(s) as detailed in annex.

This certificate is valid unless it is cancelled or withdrawn upon AENOR's written notification and for the particular conditions laid down in the agreement signed by both parties.

This certificate supersedes E02/000009, dated 2024-03-13

First issued on 2018-10-23
Modified on 2024-03-19
Validity 2027-10-23

Rafael GARCÍA MEIRO
CEO

AENOR CONFÍA, S.A.U.
Génova, 6. 28004 Madrid. España
Tel. +34 91 432 60 00 - www.aenor.com



Testing Facilities CTF STAGE 3

E02/000009

Annex to Certificate

Name of testing facility Signify Manufacturing Spain
Address of testing facility Crta. de las Arcas Reales, s/n
47008 Valladolid - Spain

Category	Standards	Clauses
-	EN 60529:1991 + A1:2000 + A2:2013	All clauses
LITE	EN 60598-2-2:2012	All clauses
LITE	EN 60598-2-24:2013	All clauses
LITE	EN 60598-2-3:2003 + A1:2011	All clauses
LITE	EN 60598-2-5:2015	All clauses
-	EN 62262:2002 + A1:2021	All clauses
LITE	EN 62471:2008	All clauses
LITE	EN IEC 60598-1:2021 + A11:2022	All clauses except 9.2.10 and 9.2.11
LITE	EN IEC 60598-2-1:2021	All clauses
LITE	EN IEC 62031:2020 + A11:2021	All clauses
LITE	EN IEC 62722-2-1:2023	All clauses
-	IEC 60529:1989 + A1:1999 + A2:2013	All clauses
LITE	IEC 60598-1:2020	All clauses except 9.2.10 and 9.2.11
LITE	IEC 60598-2-1:2020	All clauses
LITE	IEC 60598-2-2:2023	All clauses
LITE	IEC 60598-2-24:2013	All clauses
LITE	IEC 60598-2-3:2002 + AMD1:2011	All clauses
LITE	IEC 60598-2-5:2015	All clauses
LITE	IEC 62031:2018	All clauses
-	IEC 62262:2002 + AMD1:2021	All clauses
LITE	IEC 62471:2006, IEC TR 62778:2014	All clauses
LITE	IEC 62717:2014 + AMD1:2015 + AMD2:2019	All clauses
LITE	IEC 62722-2-1:2023	All clauses
LITE	PD EPRS 001:2018-05	All clauses
LITE	PD EPRS 003:2018-05	All clauses

First issued on 2018-10-23
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