ClearFlood large

BVP651 LED-HB/740 I OFA52 75000 lm

Introduction

ClearFlood Large is designed to meet the requirements of a wide range of floodlighting applications. It also includes all the necessary control features and interfaces to make it future-proof and even more efficient. ClearFlood Large lets you choose the exact number of lumens you need for your application. Incorporating extremely high-efficiency optics and state-of-the-art LEDs, it is a highly competitive solution offering an outstanding lux/euro ratio and energy savings of up to 50% (without the use of additional controls). The wide choice of optics ensures maximum application coverage. ClearFlood Large is easy to install − you simply plug it in and select the best option for your needs. Perfect for replacing conventional technology and enabling intelligent lighting control while retaining the same electrical installation and poles.;Tailor made solution : For tuned project solutions Philips can support with the exclusive L-Tune tool :build required flux to the best balance of life,maintained flux, energy,cost and product type.

Additional text

Optical cover: Clear tempered flat glass
ENEC+ Certificate
Service Tag - QR Code
Optics: Optiflux asymmetrical axis angle 52° (OFA52)
Connection: External connector
Net Weight (Piece): 24.000 kg
Vertical aiming from the horizontal: -90° / +90°,
Protractor scale with intervals of 5º

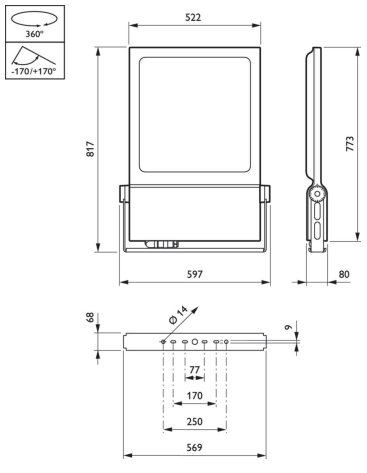
Product Information

Product Family Code	BVP651
Mechanical and Housing	
Housing Material	Aluminum die cast
Fixation material	Steel
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 mark
RoHS mark	-
WEEE mark	-
Protection class IEC	I
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	L86
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**
1.31	A++	1.58	A4+	1.75	A6+	1.42	A3+	1.42	A3+

Dimensional drawing(s) - mm



Additional text

Control gear failure rate at median useful life 100000h: 10 %
Lumen maintenance at median useful life 100000 h: L86/B10

Created Date: 13-09-2021

Light technical Report

Drivers

Description	Xi FP 330W 2:0.2-0.75A SNDAE C240 sXt
12NC	929002114806
Number of driver(s)	2
Number of luminaire per MCB 16A	7
Inrush current	13 A
Inrush time	1320 µs
Input Voltage	220V-240V
Input Frequency	50/60 Hz
Current	866 mA
System power (minimum)	495 W
System power (maximum)	495 W
System power (average)	495 W
Power consumption tolerance	+/-11%
Power Factor (100%)	0.98
Power Factor (50%)	0.93
Connectivity	No connectivity
Dimming	DALI

Light engine

Light source engine type	LED
Number of LED	184
Initial LED luminaire efficacy (source)	152 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)	75000 lm
Luminous flux tolerance	+/-7%
Initial luminous flux (system)	64863 lm
Photobiological risk	Risk group 0 (exempt) according to EN IEC 62471

Optics

Optical configuration	OFA52
LOR	0.86
ULR at tilt=0°	0.00%
G* at tilt=0°	G*5
Imax (at 90° and above)	0.2 cd/klm
CIE code	43 89 99 100 86

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	866	495	495	495	75000	64863
95	823	470	470	470	72002	62271
90	780	445	445	445	68871	59563
85	737	420	420	420	65667	56792
80	693	395	395	395	62392	53959
75	650	375	375	375	59049	51068
70	607	350	350	350	55634	48115
65	563	325	325	325	52148	45100
60	520	300	300	300	48591	42024
55	477	275	275	275	44966	38889
50	433	250	250	250	41272	35694
45	390	230	230	230	37510	32440
40	347	205	205	205	33681	29129
35	304	180	180	180	29785	25759
30	260	158	158	158	25823	22333
25	217	134	134	134	21797	18851
20	174	112	112	112	17709	15316
15	130	89	89	89	13558	11726
10	87	62	62	62	9347	8084

Maintenance factor

Maintenance factor according ISO/CIE 22012 TS (2019)

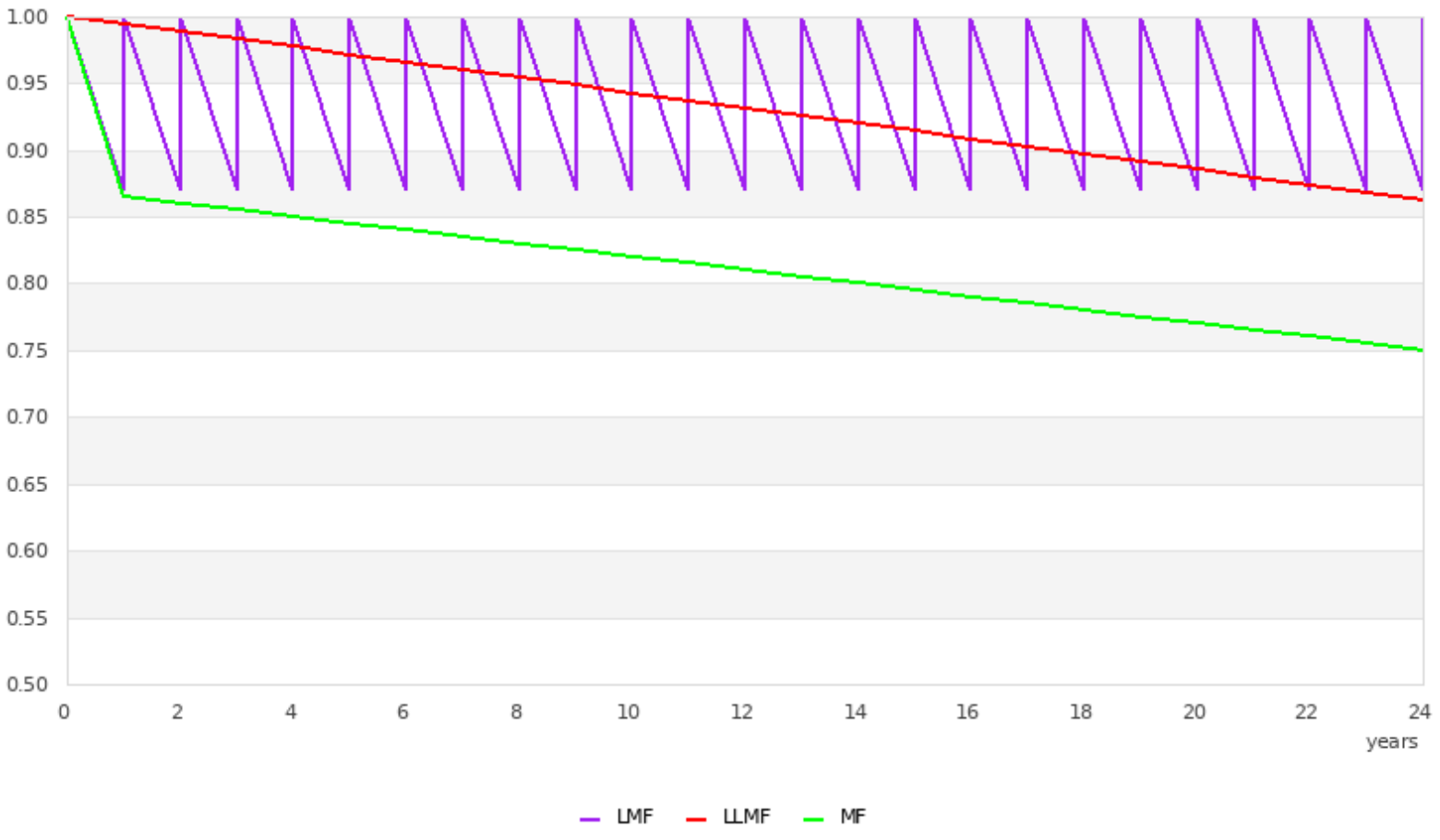
The maintenance factor MF is determined using:

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) = 0.75

With
LLMF = 0.86
LMF = 0.87
and based on a cleaning cycle of 1 years and 4100 burning hours / year



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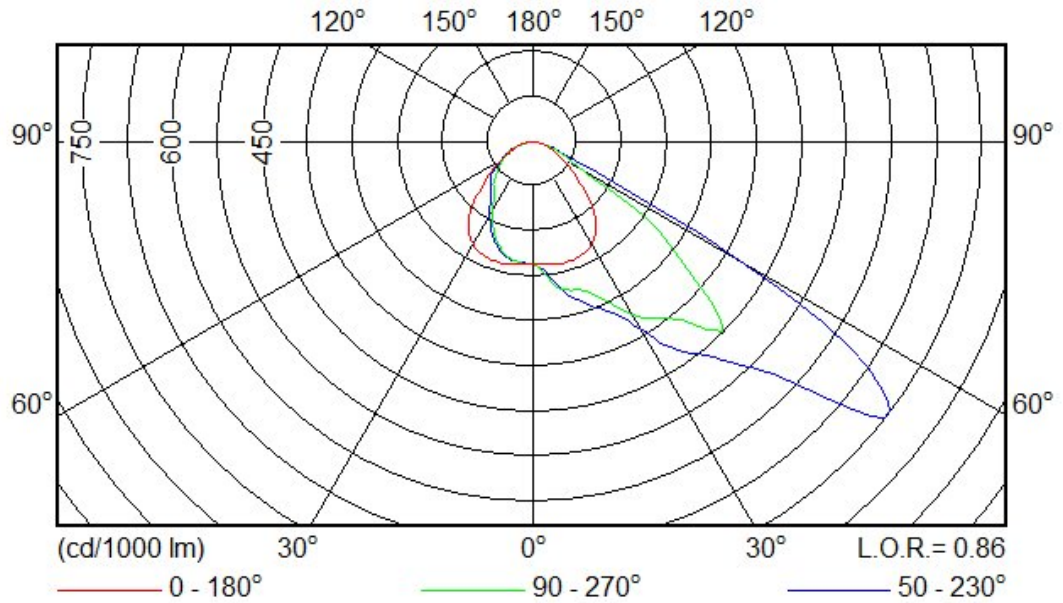
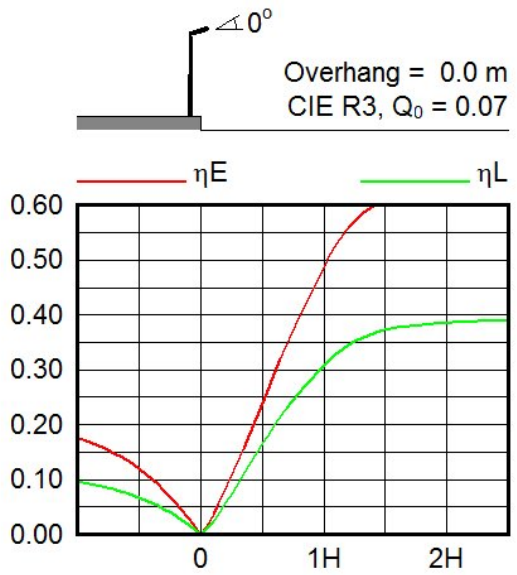
Photometric Graphs

Polar intensity diagram



Utilisation factor curve and luminance yield diagram

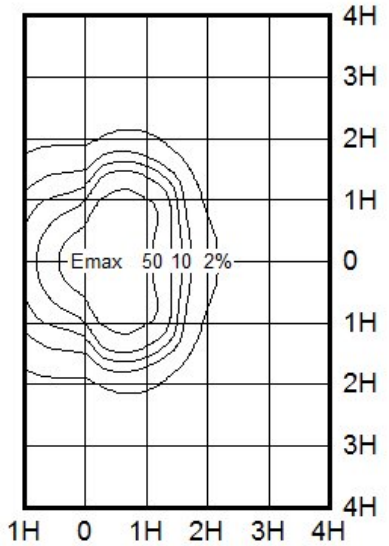


Relative isolux diagram

Horizontal Illuminance 0°

H	Emax
(m)	(lux)
4.0	1163
6.0	517
8.0	291

M.F.= 1.0



Lab Information & Certification

Lab Information

Test standards

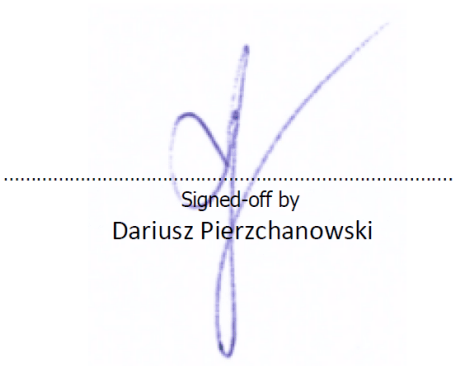
EN 13032-4:2015	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 4: LED lamps, modules and luminaires
EN 13032-1:2014	Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Part 1: Measurement and file format
IEC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



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 +/-11 % 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

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Warsaw, 2018-11-28

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

Created Date: 13-09-2021

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=LVM16A9300
DATE=2018-02-14
TXTS="L-TUNE 2021-09-13"
ORIG=WLD
BRAND=PHILIPS
FAMILY=Clearflood Large
FAMCOD=BVP651
HOUSING=BVP651 T25
OPTICS=OFA52
BLID=-
LAMP=LED-HB 75000 lm-4S L86@100kh
LAFLUX=75000
NLPS=1
LAMPCOL=740
INPW=495
INVO=230
GEOTYPE=3
GEOL1=0.08
GEOL2=0.522
GEOL3=0.773
OPTTYPE=3
OPTL1=0
OPTL2=0.5
OPTL3=0.5
SURF76=0.06
SURF85=0.022
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TLME=0.00
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NCON=68
NPLA=73
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204 207.4 216.4 231.8 246.7 257.1 265 271.2 277.7 287.4 300.7 319.5 343.8 372.3 394.2 405.8 428.9 470.6 525.5
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