Quality Laboratory Kętrzyn

Ketrzyn LAB

Photometry Report

No. KE190719

Date: 18.04.2019

To: Tvrtko Cavar — Sales Support Officer - Prof Trade & VAP Adriatic
Copy: Dariusz Pierzchanowski — Quality Lab Manager
From: Konrad Micinski — Quality Lab Engineer - Photometry

Cause of request :

Additional information :

LUMINAIRE TECHNICAL DATA

Product name :	ClearWay gen2
LED / lamp model :	4S platform
Luminous flux :	See next pages
Optics :	DM12
Color temperature :	3000K
Electrical Class :	I and II
Ta (°C) :	25
Un (V) :	230V
Other information :	-

TEST STANDARDS

☐ EN 13032-4:2015
☐ EN 13032-1:2014
☐ IEC62717:2014+AMD1:2015
☐ IES LM-79-08
☐ IEC / EN 62722-1:2014
☐ IEC / EN 62722-2-1:2014

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

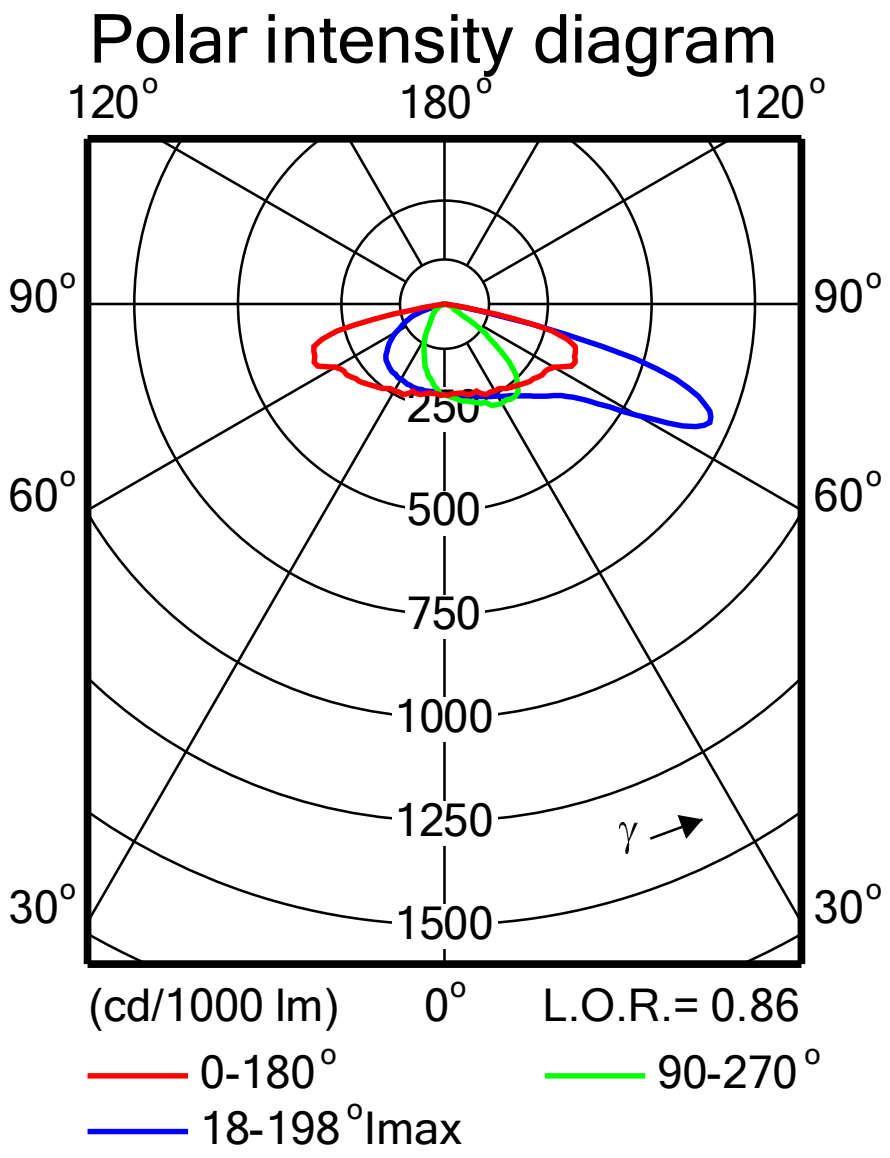
Type of test	Uncertainties
Luminous flux	+/- 2.2 %
Power	+/- 0.5 %
Imax	+/- 2.2 %
Beam angle of Imax	+/- 0.1°
Ambient temperature 0-50°C	+/- 0.1 deg.

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, butnot more than +/-11 % on power and +/- 7% on lumen.

Konrad Miciński – Photometry expert

Dariusz Pierzchanowski – Laboratory manager

Luminaire	: ClearWay Gen2 BGP307 T25 1xLED99-4S/830/830 - DM12
Lampflux	: 1 x 10000 lm
Ballast	: -
Measurement code	: LVE169120I
Measurement date	: 2018-03-06
Measurement status	: Released
L.O.R.	: 0.86



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Quality figures BGP307 T25 DM12

Light output ratios:

Service upward	= 0.000
Service downward	= 0.860
Total	= 0.860
Upper hemisphere	
Total	= 0.000
Lower hemisphere	
Kerb side	= 0.246
Road side	= 0.614
Total	= 0.860

Flux and efficacy

Flux	= 8600.0	lm
Power Consumption	= 76.0	W
Luminaire efficacy	= 113.2	lm/W

Indoor:

CIE codes: 39 75 97 100 86

UTE Class	= not available
Spacing to height ratio lengthwise	= not available
Spacing to height ratio crosswise	= not available
Visual beam angle (C = 0)	= not available
Visual beam angle (C = 180)	= not available
Accent beam spread ($^{1}/_{2}$Imax)	= 2 x 79 °
K Factor	= not available
UGRcen (4Hx8H, 0.25H)	= not available

Outdoor:

Specific luminaire index (SLI)	= not available	
Flashed area	= 0.010	m2
Surface 85	= 0.000	m2
I80	= 78.9	candela
I88	= 0.4	candela
Imax70	= 666.0	candela/1000 lumen (C = 15.0 deg)
Imax80	= 78.9	candela/1000 lumen (C = 0.0 deg)
Imax85	= 3.5	candela/1000 lumen (C = 25.0 deg)
Imax90	= 0.0	candela/1000 lumen (C = 0.0 deg)
Imax100	= 0.0	candela/1000 lumen (C = 0.0 deg)
Imax>90	= 0.0	candela/1000 lumen (C = 0.0 deg)
Imax>95	= 0.0	candela/1000 lumen (C = 0.0 deg)
Imax>115	= 0.0	candela/1000 lumen (C = 0.0 deg)
Imax90..115	= 0.0	candela/1000 lumen (C = 0.0 deg)