

Photometry Report

No. KE200293-1

Date: 13.02.2020

To: Marcin Bochenski
Copy: Dariusz Pierzchanowski
From: Konrad Micinski

CEE North Product Marketeer Professional Outdoor
 Quality Lab Manager
 Quality Lab Engineer - Photometry

Cause of request :

Additional information :

LUMINAIRE TECHNICAL DATA

Product name :	CoreLine Malaga LED BRP101
LED / lamp model :	MIDAS platform
Luminous flux :	see next pages
Optics :	DM/DW
Color temperature :	3000K
Electrical Class :	I / II
Ta (°C) :	25
Un (V) :	230V
Other information :	-

TEST STANDARDS

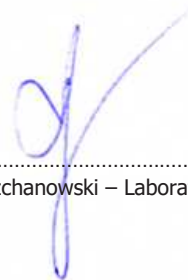
- | | |
|--|--|
| <input type="checkbox"/> EN 13032-4:2015 | <input type="checkbox"/> IES LM-79-08 |
| <input type="checkbox"/> EN 13032-1:2014 | <input type="checkbox"/> IEC / EN 62722-1:2014 |
| <input type="checkbox"/> IEC62717:2014+AMD1:2015 | <input type="checkbox"/> IEC / EN 62722-2-1:2014 |

TEST EQUIPMENT

TEST EQUIPMENT		MEASUREMENT UNCERTAINTIES	
LMT GO-DS 2000 Goniometer (C/G)	<input type="checkbox"/>	Type of test	Uncertainties
Yokogawa WT3000 power analyzer	<input type="checkbox"/>	Luminous flux	+/- 2.2 %
Chroma 6415 programmable AC source	<input type="checkbox"/>	Power	+/- 0.5 %
Agilent 6675A system DC power supply	<input type="checkbox"/>	Imax	+/- 2.2 %
Integrating sphere U-101-A	<input type="checkbox"/>	Beam angle of Imax	+/- 0.1°
EM TEST NetWave3 AC/DC source	<input type="checkbox"/>	Ambient temperature 0-50°C	+/- 0.1 deg.
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"/>		

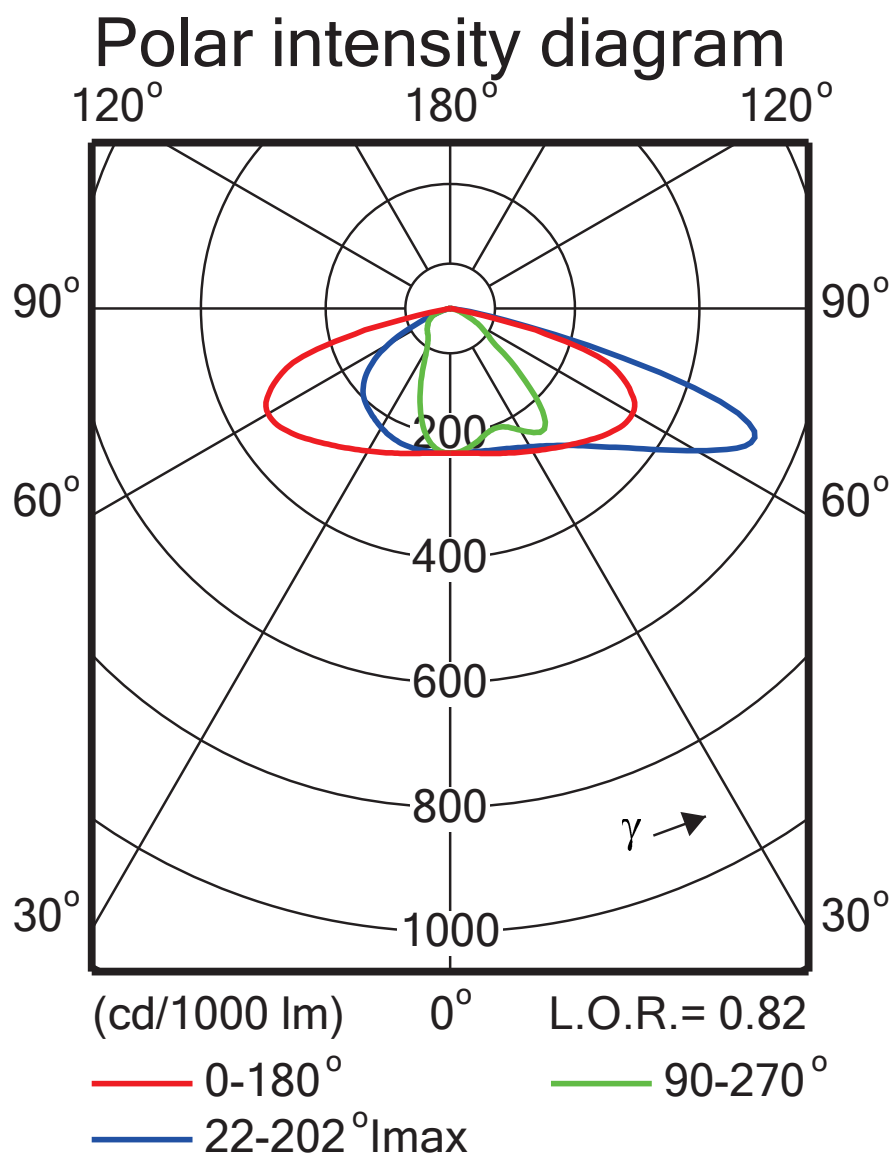


Konrad Micinski – Photometry expert



Dariusz Pierzchanowski – Laboratory manager

Luminaire : CoreLine Malaga LED PRE BRP101 T25 1xLED36/730/- NO DM
Lampflux : 1 x 3600 lm
Ballast : NO
Measurement code : LVM179530C
Measurement date : 2018-04-27
Measurement status : Preliminary
L.O.R. : 0.82



Luminaire : CoreLine Malaga LED PRE BRP101 T25 1xLED36/730/- NO DM
 Lampflux : 1 x 3600 lm
 Ballast : NO
 Measurement code : LVM179530C
 Measurement date : 2018-04-27
 Measurement status : Preliminary
 L.O.R. : 0.82

Quality figures PRE BRP101 T25 DM

Light output ratios:		
Service upward	=	0.000
Service downward	=	0.820
Total	=	0.820
Upper hemisphere		
Total	=	0.000
Lower hemisphere		
Kerb side	=	0.263
Road side	=	0.557
Total	=	0.820
Flux and efficacy		
Flux	=	2952.0 lm
Power Consumption	=	28.5 W
Luminaire efficacy	=	103.6 lm/W
Indoor:		
CIE codes:	39 75 98 100 82	
UTE Class	=	0.82AS + 0.00T
Spacing to height ratio lengthwise	=	1.5
Spacing to height ratio crosswise	=	2.5
Visual beam angle (C = 0)	=	not available
Visual beam angle (C = 180)	=	not available
Accent beam spread ($\frac{1}{2}I_{max}$)	=	2 x 76°
K Factor	=	not available
UGRcen (4Hx8H, 0.25H)	=	not available
Outdoor:		
Specific luminaire index (SLI)	=	not available
Flashed area	=	0.005 m2
Surface 85	=	not available
I80	=	18.6 candela
I88	=	0.5 candela
I _{max} 70	=	512.6 candela/1000 lumen (C = 18.0 deg)
I _{max} 80	=	57.1 candela/1000 lumen (C = 16.0 deg)
I _{max} 85	=	4.8 candela/1000 lumen (C = 22.0 deg)
I _{max} 90	=	0.0 candela/1000 lumen (C = 0.0 deg)
I _{max} 100	=	0.0 candela/1000 lumen (C = 0.0 deg)
I _{max} >90	=	0.0 candela/1000 lumen (C = 0.0 deg)
I _{max} >95	=	0.0 candela/1000 lumen (C = 0.0 deg)
I _{max} >115	=	0.0 candela/1000 lumen (C = 0.0 deg)
I _{max} 90..115	=	0.0 candela/1000 lumen (C = 0.0 deg)