

## Photometry Report

No. KE200293-2

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

<b>Product name :</b>	CoreLine Malaga LED BRP102
<b>LED / lamp model :</b>	MIDAS platform
<b>Luminous flux :</b>	see next pages
<b>Optics :</b>	DM/DW
<b>Color temperature :</b>	3000K
<b>Electrical Class :</b>	I / II
<b>Ta (°C) :</b>	25
<b>Un (V) :</b>	230V
<b>Other information :</b>	-

## TEST STANDARDS

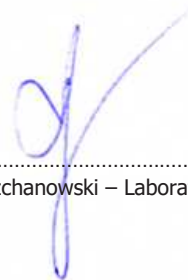
- |  |  |
|--|--|
| <input type="checkbox"/> EN 13032-4:2015         | <input type="checkbox"/> IES LM-79-08            |
| <input type="checkbox"/> EN 13032-1:2014         | <input type="checkbox"/> IEC / EN 62722-1:2014   |
| <input type="checkbox"/> IEC62717:2014+AMD1:2015 | <input type="checkbox"/>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

## TEST EQUIPMENT

TEST EQUIPMENT		MEASUREMENT UNCERTAINTIES	
LMT GO-DS 2000 Goniometer (C/G)	<input type="checkbox"/>	<b>Type of test</b>	<b>Uncertainties</b>
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"/>		

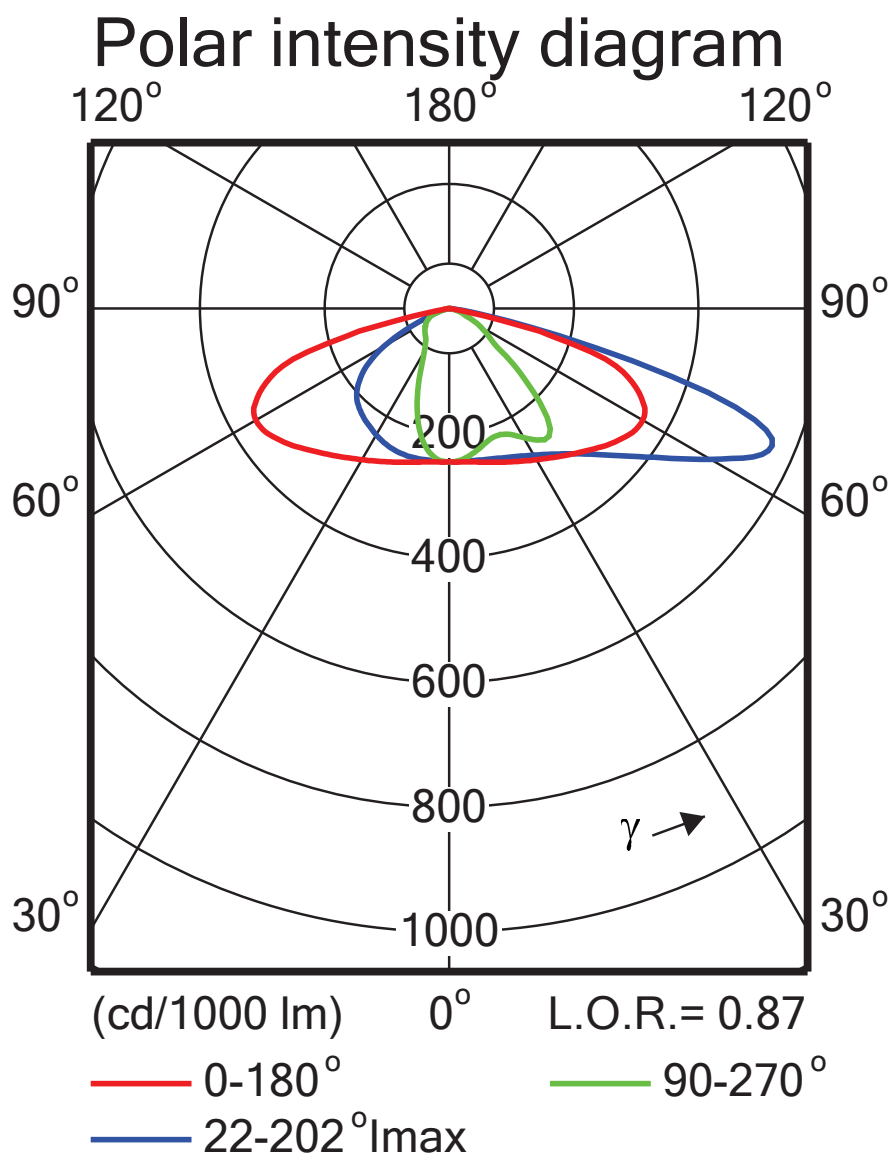


Konrad Micinski – Photometry expert



Dariusz Pierzchanowski – Laboratory manager

Luminaire : CoreLine Malaga LED PRE BRP102 T25 1xLED54/730/- NO DM  
Lampflux : 1 x 5400 lm  
Ballast : NO  
Measurement code : LVM179530C  
Measurement date : 2018-04-27  
Measurement status : Preliminary  
L.O.R. : 0.87



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## Quality figures PRE BRP102 T25 DM

### Light output ratios:

Service upward = 0.000  
 Service downward = 0.870  
 Total = 0.870

Upper hemisphere  
 Total = 0.000

Lower hemisphere  
 Kerb side = 0.279  
 Road side = 0.591  
 Total = 0.870

### Flux and efficacy

Flux = 4698.0 lm  
 Power Consumption = 39.5 W  
 Luminaire efficacy = 118.9 lm/W

### Indoor:

CIE codes: 39 75 98 100 87

UTE Class = 0.87AS + 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 ( $\frac{1}{2}I_{max}$ ) =  $2 \times 76^\circ$   
 K Factor = not available  
 UGRcen (4Hx8H, 0.25H) = not available

### Outdoor:

Specific luminaire index (SLI) = not available  
 Flashed area = 0.005 m<sup>2</sup>  
 Surface 85 = not available

I80 = 19.7 candela  
 I88 = 0.5 candela

I<sub>max</sub>70 = 543.9 candela/1000 lumen (C = 18.0 deg)  
 I<sub>max</sub>80 = 60.6 candela/1000 lumen (C = 16.0 deg)  
 I<sub>max</sub>85 = 5.1 candela/1000 lumen (C = 22.0 deg)  
 I<sub>max</sub>90 = 0.0 candela/1000 lumen (C = 0.0 deg)  
 I<sub>max</sub>100 = 0.0 candela/1000 lumen (C = 0.0 deg)  
 I<sub>max</sub>>90 = 0.0 candela/1000 lumen (C = 0.0 deg)  
 I<sub>max</sub>>95 = 0.0 candela/1000 lumen (C = 0.0 deg)  
 I<sub>max</sub>>115 = 0.0 candela/1000 lumen (C = 0.0 deg)  
 I<sub>max</sub>90..115 = 0.0 candela/1000 lumen (C = 0.0 deg)