

To : Mateusz Mieczkowski DG Engineer
Copy : Dariusz Pierzchanowski Quality Lab Manager
From : Piotr Jakubiec Quality Lab Technician

Cause of request :**Additional informations :** Malaga LED + Photocell Test IPX5

TECHNICAL DATA OF LUMINAIRE

Designation luminaire: Street and road lighting luminaire
Family code : BRP102
Family name : Malaga LED
Led/Lamp Module : n/a
Driver / Ballast : n/a
Electrical Class : n/a
IP classification : 65
IK Classification : n/a
Luminaire installation : Post top/Arm
Ta (°C) : n/a
Un (V) : n/a
Revised/Relased component (12NC) :
Deliver of component :

IP TEST ACCORDING TO :
Choose

EN 60598-1:2015 Luminaires - Part 1: General requirements and tests + EN 60598-1:2015/AC:2015 + EN 60598-1:2015/AC:2016	<input checked="" type="checkbox"/>
EN 60598-2-1:1989 Luminaires - Part 2: Particular requirements - Section 1: Fixed general purpose	<input type="checkbox"/>
EN 60598-2-2:2012 Luminaires - Part 2-2: Particular requirements - Recessed luminaires	<input type="checkbox"/>
EN 60598-2-3:2003 Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting +EN 60598-2-3:2003/A1:2011 + EN 60598-2-3:2003/AC:2005	<input checked="" type="checkbox"/>
EN 60598-2-5:2015 Luminaires - Part 2-5: Particular requirements - Floodlights	<input type="checkbox"/>

The test results are only applicable to products subject to the laboratory and as defined in this document.

After testing, the products are returned or destroyed as indicated in the application test. The signed original test report will be archived in the case of the corresponding product

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EN 60598-2-22:2014 Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting + EN 60598-2-22:2014/AC:2015	<input type="checkbox"/>
EN 60598-2-24:2013 Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures	<input type="checkbox"/>

EQUIPMENTS :	Choose
Measuring device : PTL Dr. Grabenhorst GmbH type P03.26PL, Nozzle- IP X5	<input checked="" type="checkbox"/>
Measuring device : PTL Dr. Grabenhorst GmbH type P03.28PL, Nozzle- IP X6	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst GmbH type P14.21 S/N 5001488, Dust chamber IP 5,6X	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P01.18PL, Rainfall - IP X 1,2	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P02.27PL, Water spray aparatur - IP X 3,4	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P10.24, , Sphere, IEC 60529 ,UP057 - IP 1X	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P10.14, ,Standard test finger UP030 - IP 2X	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P10.26, $\phi 2,5_{mm}$,Wire testing, UP034 - IP3X	<input type="checkbox"/>
Measuring device: PTL Dr. Grabenhorst, P10.27, $\phi 1,0_{mm}$ PTL Dr. Grabenhorst , Wire testing, UP033 - IP4X	<input type="checkbox"/>

<input checked="" type="checkbox"/> IP test before endurance	
<input type="checkbox"/> IP test after endurance*	N°

* please note N° of Endurance test report

Test for ingress of water, dust or solid objects		P	F	NA
Environment temperature (15~ 35°C)	21°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relative humidity (25 ~ 75%)	47%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atm. pressure (860 ~1060 mbar)	980mbar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solid object. Probe IP2X force	10 N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Solid object. Probe IP3X force	3±10% N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Solid object. Probe IP4X force	1±10% N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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BRP101

Requested IP value	IP	X	X
Optical system	IP	X	5
Complete luminaire	IP	X	5

Obtained IP value	IP	X	X
Optical system	IP	X	5
Complete luminaire	IP	X	5

	YES	NO
The luminaire tested fulfils with the required IP?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Test result	<i>PASS</i>	<i>FAIL</i>	<i>N/A</i>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Edition 1, REV.A

	<p>Comments</p>
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CONCLUSION : Luminaire pass the test IPX5.

Tested 10.05.2018 by Piotr Jakubiec

Validate 10.05.2018 by Dariusz Pierzchanowski

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