

F – 09D/POL - 1	Nr wydania: 3	Data wydania: 11.02.2020	Strona 1 / 4
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TEST PROTOCOL

LUG Light Factory Ltd ul. Gorzowska 11 65-127 Zielona Góra, POLAND KRS 0000290498 REGON 080212116 NIP PL 929-17-85-452		LUG Testing Laboratory address ul. Nowa 7 66-002 Nowy Kisielin, POLAND		TEST SPECIFICATION – STANDARDS: PN – EN 60598-1:2015	
Test Report No. BT_13_066_21		Tested by: Robert Tracz		 Nr.TSP-17025-LB-001.00	
Sample No. 512/1/21		Compiled by: Robert Tracz			
Applicant name: P.Rybski LLU DEPARTMENT LUG LIGHT FACTORY		Approved by: Robert Tracz			
Tested from: 22.12.2021		Product type:		LUMINAIRE	
Through: 27.12.2021		Model name:		TRAFFIK R LED ED 79W 12000lm 4000K	
Index:					
Power [W]:					
IP Degree:					
Ratings:		220-240V /50/60Hz			
Type of protection:		CL I			
Group:		STREET LIGHTING - OUTSIDE			
This protocol shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.					

☒ Thermal tests

1. COMPONENT LIST

No.	Component	Producer/Model/Type	Parameters	Standard/Mark
1.	LED DRIVER	OSRAM OPTOTRONIC OT 110/170-240/1A0 1DIMLT2 G1 CE	Tc=85°C; Ta=-40÷55°C; set on 525mA	ENEC10
2.	LED MODULE	LUG ML1924108W740-01A	Tc=85°C;	CE

2. POSSIBLE TEST CASE VERDITS:

Test case does not apply to the test object : N/A (Not Applicable)
 Test object does meet the requirement : P (Pass)
 Test object does not meet the requirement : F (Fail)

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3. TEST PROGRAM

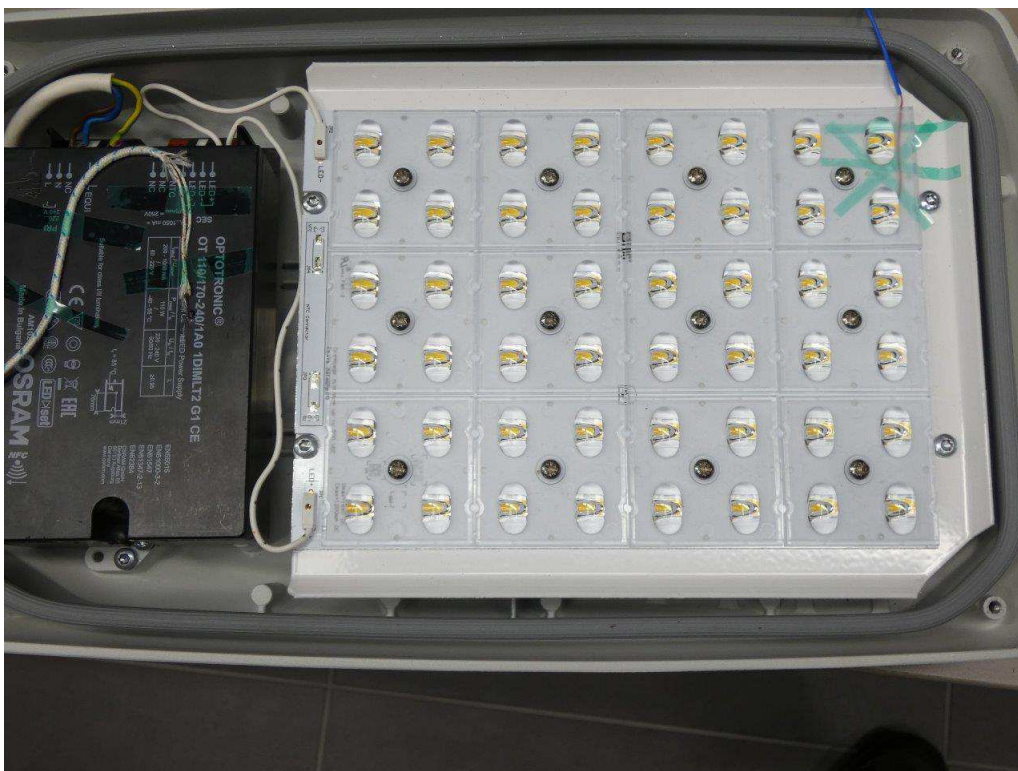
@25°C 525mA

TABLE: TEMPERATURE MEASUREMENTS, THERMAL TEST OF SECTION 12						
Type of reference:						
Lamp used:				LUG ML1924108W740--01A		
Lamp control gear used:				OSRAM OPTOTRONIC OT 110/170-240/1A0 1DIMLT2 G1 CE		
Mounting position of luminaire:				ON THE POLE		
Supply wattage (W):				76,1		
Supply current (A):				0,324		
Power factor:				0,980		
Table: measured temperatures for ta =25 °C						
- abnormal operating mode				N/A		
- test 1: rated voltage:				240V		
- test 2: 1,06 times rated voltage or 1,05 times rated wattage:				--		
- test 3: Load on wiring to socket-outlet, 1,06 voltage or 1,05 times wattage:				--		
- test 4: 1,1 times rated voltage or 1,05 times rated wattage :				--		
Through wiring or looping-in wiring loaded by a current of A during the test:				--		
Temperature measurements, (°C)						
Part tested	Clause 12.4 - normal				Clause 12.5 - abnormal	
	Test 1	Test 2	Test 3	Limit	Test 4	Limit
LED DRIVER	55,4			85		
LED MODULE	73,2			85		
SUPPLEMENTARY INFORMATION : test results meets requirements;						

4. LIST OF EQUIPMENT

SPECIFICATION OF MEASURING APPARATUS USED IN TESTS					
No.	EQUIPMENT	PRODUCER/TYPER	SERIES	MARK	USED
1.	AC PROGRAMMABLE POWER	ITECH ELECTRONIC IT73	602130010726850004	47/LAB/ZL	☒
2.	DIGITAL THERMOMETER 1	LUTRON	288855	44/LAB/TM	☒
3.	DIGITAL THERMOMETER 2	LUTRON	1.416488	49/LAB/TM	☐
4.	DIGITAL MULTIMETER	TEKTRONIX	2475006	42/LAB/DM	☐
5.	DIGITAL MULTIMETER	TEKTRONIX	2566126	43/LAB/DM	☐
6.	SYSTEM ENERGY MULTIMETER	METRA HIT ENERGY		25/LAB/MK	☐
7.	SYSTEM ENERGY MULTIMETER	EVERFINE	G118829CD1351123	53/LAB/DPM	☐
8.	THERMAL IMAGING CAMERA	FLIR E50	49037600	41/LAB/KTW	☒

5. DETAILS IMAGES (PHOTOS)





6. DETAILS IMAGES (TERMOGRAMS)

