



## TEST REPORT

### COMPULSORY SPECIFICATION FOR ENERGY EFFICIENCY AND FUNCTIONAL PERFORMANCE REQUIREMENTS OF GENERAL SERVICE LAMPS (GSLs) -VC 9109

Self-ballasted LED lamps for general lighting services with supply  
voltages > 50 V - Performance requirements- IEC 62612

<b>Report Reference No.</b> .....	AOC250808030ER
Compiled by (print+ signature).....	Bill Hu <i>Bill Hu</i>
Approved by (print+ signature).....	Robin Liu <i>Robin Liu</i>
	Lab Supervisor
Date of issue.....	2025-09-25
<b>Testing Laboratory</b> .....	Shenzhen AOCE Electronic Technology Service Co., Ltd
Address.....	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Testing location/address.....	Same as above
<b>Applicant's name</b> .....	Major Tech (Pty) Ltd
Address.....	T9 Industrial Village, 7 Sam Green Rd, Elandsfontein, South Africa
<b>Manufacturer name</b> .....	Jiangxi Lepeng Electric Appliance Co., LTD.
Address.....	Changjiang Electronic Information Industry Park Changjiang District 333000 Jingdezhen City, Jiangxi Province
Test Object.....	LED BULBS
Trade Mark.....	MAJOR-TECH
Model / Type reference.....	LH2P-5N
Rated voltage (V).....	220-240 V~
Rated frequency (Hz).....	50/60 Hz
Rated Power (W).....	4.5 W
Rated luminous (lm).....	495 lm
Rated color temperature (CCT).....	4000K
Rated color tendering (CRI).....	80
Rated life (h).....	25000
<b>Test specification:</b>	
Standard .....	COMPULSORY SPECIFICATION FOR ENERGY EFFICIENCY AND FUNCTIONAL PERFORMANCE REQUIREMENTS OF GENERAL SERVICE LAMPS (GSLs) -VC 9109 Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements- IEC 62612
Test procedure.....	Test report
Non-standard test method.....	N/A
<b>Test Report Form No.</b> .....	IECEE TRF No. VC 9109
Test Report Form(s) Originator .....	AOCE
Master TRF.....	2019-11-30

Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
The sample(s) tested complies with the requirements of VC 9109 When determining the test conclusion. The Measurement Uncertainty of test has be enconsidered.	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Normative References:	
Standard reference	Describe
IEC / SANS 62612	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements
CIE S 025/E:2015	Test Method for LED Lamps, LED Luminaires and LED Modules
IEC 63103:2020	Lighting equipment - Non-active mode power measurement
CIE 13.3	Method of Measuring and Specifying Colour Rendering Properties of Light Sources
CIE 84:1989	Measurement of Luminous Flux (1st Edition).
IEC TR 61547-1:2020	Equipment for general lighting purposes - EMC immunity requirements -Part 1: Objective light flickermeter and voltage fluctuation immunity test method
IEC TR 63158:2018	Equipment for general lighting purposes - Objective test method for stroboscopic effects of lighting equipment
Copy of Marking Plate:	
N/A	

Type of light source:			
Product type.....	<input checked="" type="checkbox"/> Light source	<input type="checkbox"/> Separate control gears	
Lighting technology used.....	<input checked="" type="checkbox"/> LED	<input type="checkbox"/> OLED	<input type="checkbox"/> Other
Non-directional or directional.....	<input type="checkbox"/> DLS (Directional)	<input checked="" type="checkbox"/> NDLS (Non-directional)	
Use of lamp.....	<input checked="" type="checkbox"/> Indoor	<input type="checkbox"/> Outdoor	<input type="checkbox"/> Industry
Light source cap-type (or other electric interface).....	GU10		
Mains or non-mains.....	<input checked="" type="checkbox"/> MLS (mains light source)	<input type="checkbox"/> NMLS (non-mains light source)	
Connected light source (CLS).....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Colour-tuneable light source.....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Envelope.....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
High luminance light source.....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Anti-glare shield.....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Dimmable.....	<input type="checkbox"/> Yes	<input type="checkbox"/> only with specific dimmers	<input checked="" type="checkbox"/> No
Product parameters			
Parameter.....	220-240 V~, 50/60 Hz, 4.5 W		
Energy consumption in on-mode (KWh/1000h).....	4.5		
Energy efficiency class.....	See table 7		
Beam angle correspondence.....	See table 3		
Correlated colour temperature (K).....	See table 2		
On-mode power (W).....	See table 1		
Standby power (W).....	See table 1		
Networked standby power for CLS (W).....	See table 1		
Colour rendering index.....	See table 2		
Colour rendering index range (Minimum).....	See table 2		
Colour rendering index range (Maximum).....	See table 2		
Claim of equivalent power.....	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Equivalent power (W).....	/		
Chromaticity coordinate (x).....	See table 2		
Chromaticity coordinate (y).....	See table 2		
PARAMETERS FOR DIRECTIONAL LIGHT SOURCES			
Peak luminous intensity (cd).....	See table 3		
Beam angle (degrees).....	See table 3		
Beam angle range (Minimum) (degrees).....	See table 3		
Beam angle range (Maximum) (degrees).....	See table 3		
PARAMETERS FOR LED AND OLED LIGHT SOURCES			
R9 Colour rendering index.....	See table 2		
Survival factor.....	See table 3		
Lumen maintenance factor.....	See table 3		
PARAMETERS FOR LED AND OLED MAINS LIGHT SOURCES			

Displacement factor.....	See table 1
Colour consistency in McAdam ellipses.....	See table 2
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N.A
Replacement claim (W).....	/
Flicker metric (W).....	See table 4
Stroboscopic effect metric (W).....	See table 4
Outer dimensions (Millimetre).....	Ø50xH54
Spectral power distribution in the range 250 nm to 800 nm, at full-load.....	See table 5
<b>Possible Test Case Verdicts:</b>	
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)
Name and address of factory.....	Jiangxi Lepeng Electric Appliance Co., LTD. Changjiang Electronic Information Industry Park Changjiang District 333000 Jingdezhen City, Jiangxi Province
<b>Testing:</b>	
Ambient temperature of tested .....	25.0 °C
Test inputs.....	230 V~
Sample size for tested .....	10 pcs
Date of receipt of test item.....	2024-12-16
Date (s) of performance of tests.....	2024-12-16 to 2025-08-12
<b>General Remarks:</b>	
Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Shenzhen AOCE Electronic Technology Service Co., Ltd	
<b>Note:</b>	
N/A	

VC 9109																									
Clause	Requirement + Test	Result – Remark	Verdict																						
4	EFFICIENCY REQUIREMENTS		-																						
a)	GSLs shall comply with the luminous efficacy requirements in Table 1 or Table 2, as relevant:		P																						
	<table><tr><td colspan="2">Table 1: Minimum luminous efficacy, phase 1</td></tr><tr><td>Product Type</td><td>Phase 1 Minimum luminous efficacy (lm/W)</td></tr><tr><td>General Service Lamp</td><td>90</td></tr></table>	Table 1: Minimum luminous efficacy, phase 1		Product Type	Phase 1 Minimum luminous efficacy (lm/W)	General Service Lamp	90		P																
Table 1: Minimum luminous efficacy, phase 1																									
Product Type	Phase 1 Minimum luminous efficacy (lm/W)																								
General Service Lamp	90																								
	<table><tr><td colspan="2">Table 2: Minimum luminous efficacy, phase 2</td></tr><tr><td>Product Type</td><td>Phase 2 Minimum luminous efficacy (lm/W)</td></tr><tr><td>General Service Lamp</td><td>105</td></tr></table>	Table 2: Minimum luminous efficacy, phase 2		Product Type	Phase 2 Minimum luminous efficacy (lm/W)	General Service Lamp	105		P																
Table 2: Minimum luminous efficacy, phase 2																									
Product Type	Phase 2 Minimum luminous efficacy (lm/W)																								
General Service Lamp	105																								
b)	Depending on the lamp characteristics, the minimum luminous efficacy values may be decreased by the following correction factors (C):		P																						
	<table><tr><td colspan="2">Table 3: Correction factors</td></tr><tr><td>Lamp Characteristics</td><td>C</td></tr><tr><td>Luminous flux Φ (lm) below 400 lm</td><td>-10%</td></tr><tr><td>Directional lamps</td><td>-15%</td></tr><tr><td>Colour-tuneable lamps (CTL)</td><td>-10%</td></tr><tr><td>Connected LED Lamps – rated luminous flux Φ (lm):</td><td></td></tr><tr><td>60 lm ≤ Φ ≤ 300 lm</td><td>-15%</td></tr><tr><td>300 lm &lt; Φ ≤ 650 lm</td><td>-10%</td></tr><tr><td>650 lm &lt; Φ ≤ 1200 lm</td><td>-7.5%</td></tr><tr><td>1200 lm &lt; Φ ≤ 2000 lm</td><td>-5.0%</td></tr><tr><td>2000 lm &lt; Φ ≤ 3300 lm</td><td>-2.5%</td></tr></table>	Table 3: Correction factors		Lamp Characteristics	C	Luminous flux Φ (lm) below 400 lm	-10%	Directional lamps	-15%	Colour-tuneable lamps (CTL)	-10%	Connected LED Lamps – rated luminous flux Φ (lm):		60 lm ≤ Φ ≤ 300 lm	-15%	300 lm < Φ ≤ 650 lm	-10%	650 lm < Φ ≤ 1200 lm	-7.5%	1200 lm < Φ ≤ 2000 lm	-5.0%	2000 lm < Φ ≤ 3300 lm	-2.5%		N/A
Table 3: Correction factors																									
Lamp Characteristics	C																								
Luminous flux Φ (lm) below 400 lm	-10%																								
Directional lamps	-15%																								
Colour-tuneable lamps (CTL)	-10%																								
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1200 lm < Φ ≤ 2000 lm	-5.0%																								
2000 lm < Φ ≤ 3300 lm	-2.5%																								
4.2	Displacement Factor		P																						
	Lamp displacement factor (Df) with integrated control gear and integrated luminaires: <input type="checkbox"/> P ≤ 2W: no requirement <input checked="" type="checkbox"/> 2W < P ≤ 5W: Df > 0.4 <input type="checkbox"/> 5W < P ≤ 10W: Df > 0.7 <input type="checkbox"/> P > 10W: Df > 0.9	See test sheet	P																						
4.2.1	Standby Power for connected lamps		N/A																						
	Standby power for lamps shall not exceed 0.5 W.		N/A																						
	Networked standby power for Connected LED Lamps shall not exceed 0.5 W.		N/A																						
	The allowable values for Standby power and networked standby power shall not be added together.		N/A																						
4.3	Functional Performance Requirements		P																						
	Colour Rendering Index (CRI) CRI ≥80	See test sheet	P																						

VC 9109			
Clause	Requirement + Test	Result – Remark	Verdict
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	See test sheet	P
	Survival factor: No less than 90% of sample units should be operational following endurance testing according	See test sheet	P
	Short term flicker indicator ( $P_{stLM}$ ): ≤1.0 at full load and a sinusoidal input voltage	See test sheet	P
	Short term flicker indicator (SVM): ≤0.4 at full load and a sinusoidal input voltage	See test sheet	P
	Colour consistency: Variation of x,y chromaticity coordinates within a five -step Standard Deviation of Colour Matching (SDCM) or less.	See test sheet	P
4.4	Product Information Requirements		P
4.4.1	Lamp information		P
	a) Rated power in Watts (mandatory).		P
	b) Rated operating voltage (mandatory).		P
	c) Trade name or brand name (mandatory).		P
	d) Rated initial luminous flux in lumens (mandatory).		P
	e) Rated correlated colour temperature (CCT) in Kelvin (K) (mandatory).		P
	f) Beam angle (mandatory for directional lamps).		N/A
4.4.2	Packaging information		P
	a) Rated power in Watts (mandatory).		P
	b) Rated operating voltage (mandatory).		P
	c) Rated initial luminous flux in lumens (mandatory).		P
	d) Rated efficacy in lumens per Watt (lm/W) (mandatory).		P
	e) Rated lifetime in hours and L70B50 if longer (mandatory)		P
	f) Rated correlated colour temperature (CCT) in Kelvin (K) combined with a sliding scale: (mandatory).		P
	g) Beam angle (mandatory for directional lamps).		N/A
	h) Statement on Dimmability. Clearly state whether dimmable or not dimmable. If yes, then information on dimmer compatibility, or web link to this information. (mandatory).		P

VC 9109																																	
Clause	Requirement + Test	Result – Remark	Verdict																														
	i) For general service lamps which are, according to paragraph 1.2, exempted from the requirements of paragraph 3, the intended purpose shall be stated on all forms of packaging, product information and advertisement, together with a clear indication in large font on the front of the package that the Lamp is NOT Intended for General Illumination Purposes. (mandatory).		P																														
	j) Base type (mandatory).		P																														
	k) Efficiency label compliant with the current version of the Department of Energy guideline for energy efficiency label compliance in South Africa: A Guide for Energy Efficiency Labelling (mandatory).		P																														
	l) Incandescent equivalency claim (optional).		N/A																														
	<p>m) Manufacturers are not required to provide an incandescent equivalency claim (i.e. "This lamp is as bright as a 60W incandescent" or "10W = 60W "). However, if they do, then the equivalency shall be based on the table below which depicts the minimum initial luminous flux that is required to claim a specific incandescent lamp wattage equivalency:</p> <p>Table 6: Incandescent wattage equivalencies for LED lamps</p> <table><tr><th>Incandescent Equivalency [W]</th><th>Wattage</th><th>Minimum Initial Luminous Flux [lm]</th></tr><tr><td></td><td></td><th>Non-directional Lamps</th></tr><tr><td>15</td><td></td><td>150</td></tr><tr><td>25</td><td></td><td>250</td></tr><tr><td>40</td><td></td><td>500</td></tr><tr><td>60</td><td></td><td>800</td></tr><tr><td>75</td><td></td><td>1000</td></tr><tr><td>100</td><td></td><td>1500</td></tr><tr><td>150</td><td></td><td>2500</td></tr><tr><td>200</td><td></td><td>3500</td></tr></table>	Incandescent Equivalency [W]	Wattage	Minimum Initial Luminous Flux [lm]			Non-directional Lamps	15		150	25		250	40		500	60		800	75		1000	100		1500	150		2500	200		3500		N/A
Incandescent Equivalency [W]	Wattage	Minimum Initial Luminous Flux [lm]																															
		Non-directional Lamps																															
15		150																															
25		250																															
40		500																															
60		800																															
75		1000																															
100		1500																															
150		2500																															
200		3500																															
	Voltage surge and dip immunity claim (optional). Manufacturers are not required to provide a voltage surge and dip immunity claim (e.g. "Withstands Power Surge ", "Power Surge Protected "). However, if they do, then the claim shall meet the EMC immunity requirements for equipment for general lighting purposes as set out in IEC 61547 for conditions in South Africa.		N/A																														
ANNEX B	NDURANCE TEST METHOD AND SEQUENCE		P																														
B1	Ambient conditions and test setup:		P																														
B1.1	The switching cycles are to be conducted in a room with an ambient temperature of 25 ± 10 °C and an average air velocity of less than 0,2 m/s.		P																														

VC 9109			
Clause	Requirement + Test	Result – Remark	Verdict
B1.2	The switching cycles on the sample shall be conducted in free air in a vertical base-up position. However, if a manufacturer or importer has declared the light source suitable for use in a specific orientation only, then the sample shall be mounted in that orientation.		P
B1.3	The applied voltage during the switching cycles shall have a tolerance within 2 %. The total harmonic content of the supply voltage shall not exceed 3 %. Standards provide guidance on the supply voltage source.		P
B2	Provisional Endurance Test Method		P
B2.1	Initial flux measurement: measure the luminous flux of the light source prior to starting the endurance test switching cycle.		P
B2.2	Switching cycles: operate the light source for 1 200 cycles of repeated, continuous switching cycles without interruption. One complete switching cycle consists of 150 minutes of the light source switched ON at full power followed by 30 minutes of the light source switched OFF. The hours of operation recorded (i.e. 3 000 hours) include only the periods of the switching cycle when the light source was switched ON, i.e. the total test time is 3 600 hours.		P
B2.3	Final flux measurement: at the end of the 1 200 switching cycles, note if any light sources have failed (see 'Survival factor' in Annex IV, Table 6 of this Regulation) and measure the luminous flux of the light sources that have not failed.		P
B2.4	For each of the units in the sample which have not failed, divide the measured final flux by the measured initial flux. Average the resulting values over all the units that did not fail to compute the determined value for the lumen maintenance factor XLMF %.		P



## Test data sheet

**Table 1**

Model No.: LH2P-5N

Sample No.	Pon(W)	No-load power $P_{no}(W)$	Standby power $P_{sb}(W)$	Networked standby power $P_{net}(W)$	Displacement factor
S01	4.46	N/A	N/A	N/A	0.90
S02	4.55	N/A	N/A	N/A	0.92
S03	4.47	N/A	N/A	N/A	0.90
S04	4.52	N/A	N/A	N/A	0.90
S05	4.56	N/A	N/A	N/A	0.92
S06	4.47	N/A	N/A	N/A	0.90
S07	4.59	N/A	N/A	N/A	0.92
S08	4.47	N/A	N/A	N/A	0.90
S09	4.50	N/A	N/A	N/A	0.91
S10	4.49	N/A	N/A	N/A	0.92
Average value	4.51	N/A	N/A	N/A	0.91

**Table 2**

Model No.: LH2P-5N

Sample No.	Chromaticity Coordinates		CCT(K)	CRI	SDCM	R9
	x	y				
S01	0.3780	0.3774	4055	83.2	1.1	7
S02	0.3807	0.3793	4111	83.5	0.7	6
S03	0.3791	0.3778	4094	83.3	0.9	7
S04	0.3810	0.3793	4098	83.1	0.9	7
S05	0.3788	0.3785	4115	83.3	0.6	6
S06	0.3795	0.3770	4092	83.4	1.3	7
S07	0.3784	0.3766	3993	83.2	1.3	7
S08	0.3799	0.3781	3997	83.0	0.9	7
S09	0.3803	0.3778	3956	83.3	1.3	6
S10	0.3795	0.3793	3914	83.3	0.3	6
Average value	0.3795	0.3781	4042	83.3	0.9	7

## Test data sheet

**Table 3**

Model No.: LH2P-5N

Sample No.	Useful luminous flux $\Phi_{use}$ (lm) at 0h	Useful luminous flux $\Phi_{use}$ (lm) at 3600h	Lumen maintenance factor	Survival factor	Beam angle(°)	Peak luminous intensity (cd)
S01	581.2	562.6	96.80%	100%	N/A	N/A
S02	591.0	570.7	96.57%	100%	N/A	N/A
S03	595.6	574.2	96.39%	100%	N/A	N/A
S04	587.6	563.0	95.81%	100%	N/A	N/A
S05	583.6	560.0	95.95%	100%	N/A	N/A
S06	585.2	564.1	96.39%	100%	N/A	N/A
S07	585.7	561.8	95.92%	100%	N/A	N/A
S08	589.4	566.2	96.06%	100%	N/A	N/A
S09	582.5	558.3	95.85%	100%	N/A	N/A
S10	593.4	570.7	96.16%	100%	N/A	N/A
Average value	587.5	565.2	96.19%	100%	N/A	N/A

**Table 4**

Model No.: LH2P-5N

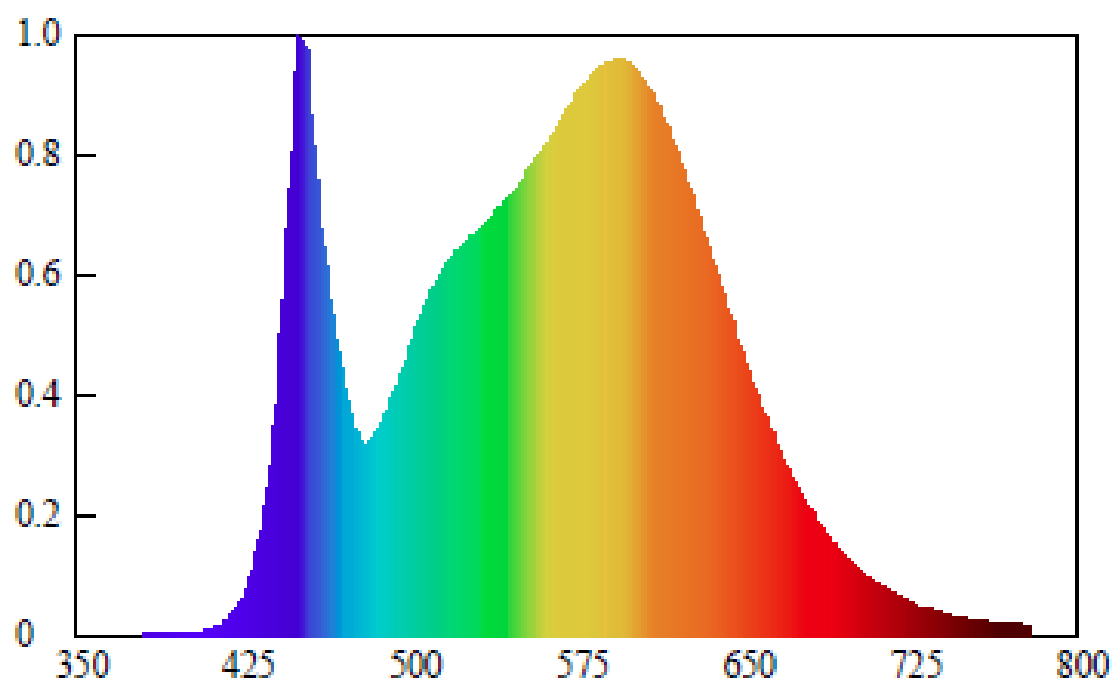
Sample No.	Flicker for LED and OLED MLS ( $P_{st} \text{ LM} \leq 1.0$ )	Stroboscopic effect for LED and OLED MLS ( $SVM \leq 0.4$ )
S01	0.306	0.446
S02	0.320	0.426
S03	0.311	0.382
S04	0.392	0.372
S05	0.338	0.397
S06	0.410	0.436
S07	0.387	0.328
S08	0.392	0.466
S09	0.329	0.382
S10	0.369	0.402
Average value	0.355	0.404

Test data sheet

**Table 5**

Model No.: LH2P-5N

**Spectral Distribution**



## Test data sheet

Table 7

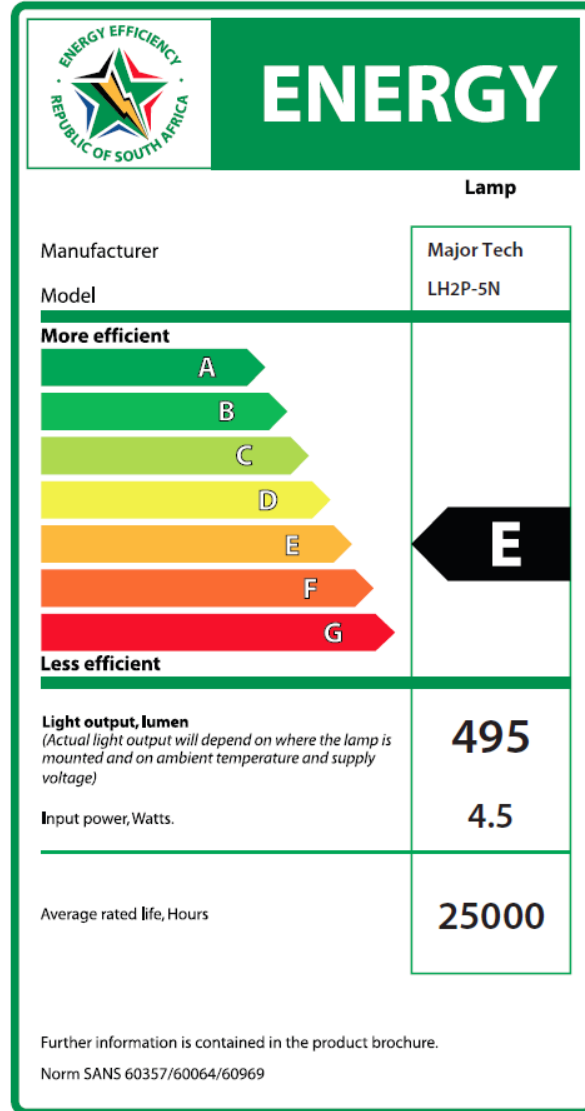
Model No.: LH2P-5N

Energy efficiency classes				
According to rated value				
Total mains efficacy $\eta_{TM}$ (lm/W)	Useful luminous flux $\Phi_{use}$ (lm) at 0h	$P_{on}(W)$	Factor $F_{TM}$	Energy Efficiency Class
110	495	4.5	1.000	E
Energy efficiency class	Total mains efficacy $\eta_{TM}$ (lm/W)	Factors $F_{TM}$ by light source type		
		Light source type	Factor $F_{TM}$	
A	$210 \leq \eta_{TM}$	Non-directional (NDLS) operating on mains (MLS)	1,000	
B	$185 \leq \eta_{TM} < 210$	Non-directional (NDLS) not operating on mains (NMLS)	0,926	
C	$160 \leq \eta_{TM} < 185$	Directional (DLS) operating on mains (MLS)	1,176	
D	$135 \leq \eta_{TM} < 160$	Directional (DLS) not operating on mains (NMLS)	1,089	
E	$110 \leq \eta_{TM} < 135$			
F	$85 \leq \eta_{TM} < 110$			
G	$\eta_{TM} < 85$			

According to measured value				
Total mains efficacy $\eta_{TM}$ (lm/W)	Useful luminous flux $\Phi_{use}$ (lm) at 0h	$P_{on}(W)$	Factor $F_{TM}$	Energy Efficiency Class
130.3	587.5	4.51	1.000	E
Energy efficiency class	Total mains efficacy $\eta_{TM}$ (lm/W)	Factors $F_{TM}$ by light source type		
		Light source type	Factor $F_{TM}$	
A	$210 \leq \eta_{TM}$	Non-directional (NDLS) operating on mains (MLS)	1,000	
B	$185 \leq \eta_{TM} < 210$	Non-directional (NDLS) not operating on mains (NMLS)	0,926	
C	$160 \leq \eta_{TM} < 185$	Directional (DLS) operating on mains (MLS)	1,176	
D	$135 \leq \eta_{TM} < 160$	Directional (DLS) not operating on mains (NMLS)	1,089	
E	$110 \leq \eta_{TM} < 135$			
F	$85 \leq \eta_{TM} < 110$			
G	$\eta_{TM} < 85$			

## Test data sheet

## Energy efficiency label:



**Test Equipment List**

<b>Equipment Name</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Reference No.</b>	<b>Calibration Due Date</b>
2m Integrating Sphere	SENSING	SL-300	AOC-S-126	2026-04-13
Horizontal Distribution Photometer	SENSING	GMS1800D	AOC-S-124	2026-04-13
Standard Lamp	SENSING	220V/150W	AOC-S-156	2026-06-05
Digital power meter	HENGHE	WT310E	AOC-S-012	2026-04-13
Digital power meter	SENSING	UI2008	AOC-S-123	2026-04-13
Digital power meter	SENSING	UI2021	AOC-S-123	2026-04-13
DC source	OYHS	OYHS-Z120V-50A	AOC-S-062	2026-04-13
Variable frequency power supply	WOSEN	BP6005	AOC-S-129	2026-04-13
Variable frequency power supply	AIPUSI	KDF-500	AOC-S-130	2026-04-13
Oscilloscope	TEKTRONIX	MDO3012	AOC-S-028	2026-04-13

## Product Photo

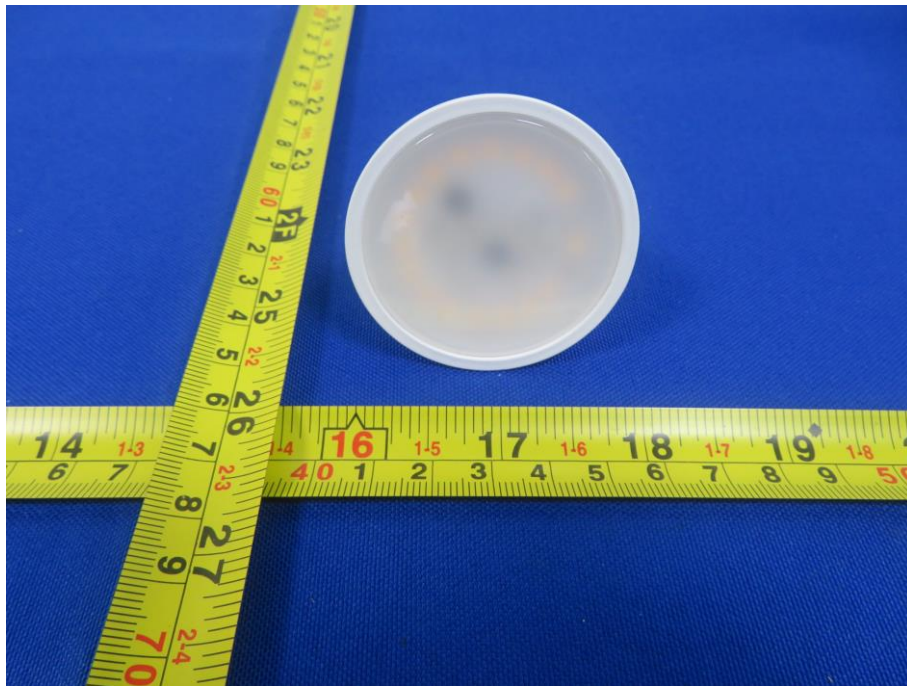


Fig. 1



Fig. 2

-- End of Report --