



CMA Testing and Certification Laboratories

廠商會檢定中心

TEST REPORT

Report No. : AS0052161(4) Date : 29 Aug 2014

Application No. : LS029210(3)

Client : GOTOLO LIMITED
ROOM 517, 5/F, KWONG LOONG TAI BLDG,
1016-1018 TAI NAN WEST STREET,
LAI CHI KOK, KOWLOON, HONG KONG

Sample Description : One (1) submitted sample stated to be **LAMP**
of Model No.: **CUP LAMP.**
Rating : 4.5V (AAA x 3)
No. of submitted sample : Two (2) piece (s)

Date Received : 05 Aug 2014. 06 Aug 2014.

Test Period : 05 Aug 2014 to 07 Aug 2014.

Test Requested : Photobiological safety of lamps and lamp systems.

Test Method : EN 62471: 2008.

Test Result : See attached sheets from page 2 to 5


Conclusion : The submitted samples are classified as **exempt group**.

Remark : When determining the test conclusion, the measurement uncertainty of test has been considered.

Data are copied from test reporting no. AS0047200(2) issued on 08 Aug 2014.

*For and on behalf of
CMA Industrial Development Foundation Limited*

Authorized Signature : _____


Mr. HO Tsz-him, Andy
Senior Technical Officer
Electrical Division

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1 Test Results

1.1 Test data for Hazard of total irradiance

Hazard name: irradiance based values	Limit for Exempt level/ low risk/ mod risk	Measured value
Es: Actinic UV skin & eye : 200-400nm (Actinic UV hazard for skin and eye) (W/ m ²)	0.001 / 0.003 / 0.03	0.00003
EUVA: Eye UV-A: 315-400nm (Near-UV hazard for eye) (W/ m ²)	10 / 33 / 100	0.0000512
EB : Blue-light small source: 300-700nm (small source defined as one with $\alpha < 0.011$ radian) (W/ m ²)	1.0	-
EIR: Retinal thermal hazard (W/ m ²)	100	0.00134
EH: Thermal hazard for the skin (W/ m ²)	3560	0.849
Distance (cm) for at 20 cm for non-GLS	-	20 cm
Voltage (V)	-	4.5 Vdc
Current(mA)	-	-
Wattage (W)	-	-



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1.2 Test data for Hazard of spectral radiance of the source

Hazard name: radiance based values	Limit for Exempt level/ low risk/ mod risk	Measured value
LB: Blue light: 300-700nm (Near-UV hazard for eye) ($W.m^{-2}.sr^{-1}$)	100 / - / -	37.6
LR: Retinal thermal 380 – 1400nm ($W m^{-2}. Sr^{-1}$)	$\frac{28000}{\alpha} / \frac{28000}{\alpha} / \frac{71000}{\alpha}$	447
Distance (cm) for lx = 500lux for GLS or 20 cm for non-GLS	-	-
D (mm)	-	5 mm
α_{eff} (radian)	-	0.025
Voltage (V)	-	4.5 Vdc
Current (A)	-	-
Wattage (W)	-	-

Remark :

The α of these product samples are bigger than 0.011 radian, so the blue light small source limit is not applicable.

Ambient temperature: 21.8 °C

Ambient Humidity: 60.8 %



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1.3 Test Result

According to the test result, this LED product can be assigned to exempt level

2 Documentation

-

3 Summary

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4 Product photographs



Fig. 1 – Outlook of the appliance

----- End of Report -----