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**Determination of the efficacy on a LED
Fluorescent Tube Lamp marked LOKO
LED, type KS-T1006W/P/C10S-2P43, KS-
T1012W/P/C18S-2P43, KS-
T1015W/P/C22S-2P43, according to the
LM79-08 standard**

Shanghai, 8 April 2010

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By order of LOKO LED B.V, The Netherlands

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B	6 pages 0 annexes LL/RVDVE	approved : Lix Li (project manager)	09-04-2010

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CONTENTS

	page
Summary	4
1 Application for testing	5
2 Examination	5
3 Results of examination	6

SUMMARY

The efficacy of a Fluorescent Tube Lamp, marked LOKO LED, type KS-T1006W/P/C10S-2P43, KS-T1012W/P/C18S-2P43, KS-T1015W/P/C22S-2P43, are measured according to the LM79-08 standard 'Electrical and photometric measurements of solid-state lighting products'.

1 APPLICATION FOR TESTING

On 11 March 2010, LOKO LED BV., The Netherlands, submitted each 1 sample of a LED Fluorescent Tube Lamps, type KS-T1006W/P/C10S-2P43, KS-T1012W/P/C18S-2P43, KS-T1015W/P/C22S-2P43.

The applicant desired a determination of the efficacy in accordance to the LM79-08 standard.

2 EXAMINATION

The examination was carried out in accordance the relevant paragraphs of the LM79-08 standard.

The LED Fluorescent Tube Lamps are operated at 230V AC. The stabilisation time was 30 minutes.

KS-T1006W/P/C10S-2P43 and KS-T1012W/P/C18S-2P43 corresponding to the tubes length of 0.6m and 1.2m and the luminous flux is measured by means of a calibrated integrating sphere with a diameter of 2m having a coating of barium sulphate.

KS-T1015W/P/C22S-2P43 corresponding to the tube length of 1.5m and the luminous flux is measured by Goniophotometer.

The measurements are performed in base up position.

The electrical quantities are measured by means of a calibrated PF2010A (Everfine) digital power meter.

The ambient temperature during measurements was 25°C

All measurements are traceable to NIM.

3 RESULTS OF EXAMINATION

1. The efficacy of the LED Fluorescent Tube Lamp, type KS-T1006W/P/C10S-2P43 is 84.83 lm/W

Quantity	Result
Input voltage	230.0 V AC
Current	0.052 A
Power	9.60 W
Luminous flux (4 π geometry)	814.4 lm ¹

Test performed on 7 April 2010

2. The efficacy of the LED Fluorescent Tube Lamp, type KS-T1012W/P/C18S-2P43 is 86.51 lm/W

Quantity	Result
Input voltage	229.7 V AC
Current	0.079 A
Power	17.77 W
Luminous flux (4 π geometry)	1537.2 lm ²

Test performed on 23 March 2010

3. The efficacy of the LED Fluorescent Tube Lamp, type KS-T1015W/P/C22S-2P43 is 87.88 lm/W

Quantity	Result
Input voltage	230.0 V AC
Current	0.108 A
Power	22.58 W
Luminous flux (4 π geometry)	1984.4 lm

Test performed on 15 March 2010

¹ The auxillary lamp correction was less then 0.3%

² The auxillary lamp correction was less then 0.3%