



INTEGRATING SPHERE TEST REPORT

IES LM79-08 Section 9.1

TÜV SÜD America

February 25, 2014

Technical Report

J11401049-1-SPH

Sample Tested: L4-18W-41K-132-E
(TUV Sample # 1209-1)

Manufacturer: Redbird LED

Sample Description: T8 LED Tube



Test Orientation: Tested in Horizontal orientation (intended)

Date of Test: February 19, 2014

Tested by

Reviewed by



Byrd Evans

Bryan Cubitt

Byrd Evans

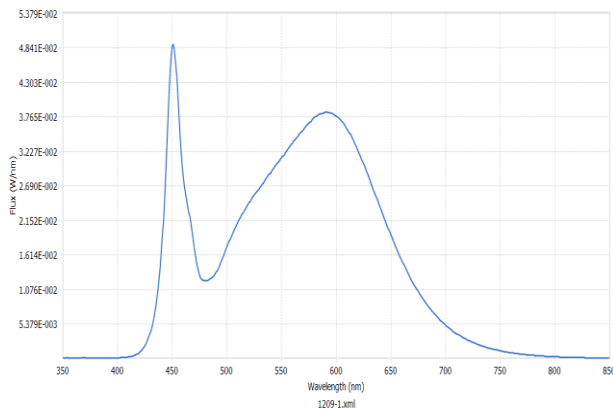
Bryan Cubitt

TÜV SÜD Project Handler

TÜV SÜD Program Manager

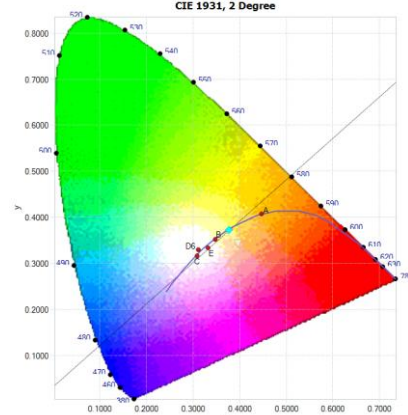
Test Results:

▼ SPECTRAL FLUX GRAPH



Spectral Response

▼ CHROMATICITY DIAGRAM



Chromaticity Diagram

Tristimulus Values: $x / y = 0.3767 / 0.3722$

Photometric Test Results

Luminous Flux (Lumens)	2213
Efficacy (Lumens/Watt)	141.19
Color Temperature (CCT K)	4069
Color Rendering Index (CRI)	82.0
R₉ Value	6.2
Radiant Flux (W/nm)	6.8
Chroma u' / Chroma v'	0.2245 / 0.4990
Duv	-0.00106

Electrical Test Results

Input Power (Watts)	15.67
Input Voltage (Volts)	120.05
Input Current (Amps)	0.131
Power Factor (120V/277V)	0.997 / 0.953
Input Frequency (Hz)	60.0
Stabilization Time	45 minutes
Ambient Temperature	24.8°C
A-THD (120V/277V)	3.58 % / 7.64 %

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TÜV SÜD America, Inc.
5945 Cabot Parkway, Suite 100,
Alpharetta, GA 30005 USA

Telephone: 678-341-5900 www.tuvamerica.com

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Confidential Report



Lab Code: 500065-0

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