



INTEGRATING SPHERE TEST REPORT

February 25, 2014

IES LM79-08 Section 9.1

Technical Report

TÜV SÜD America

J11401049-2-SPH

Sample Tested: L4-18W-50K-132-E
(TUV Sample # 1209-2)

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

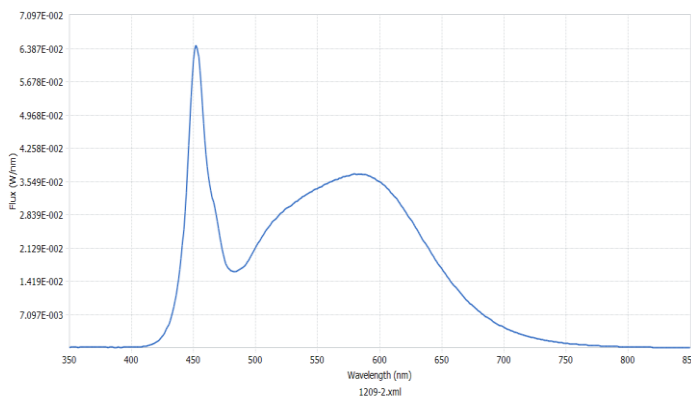
Bryan Cubitt

TÜV SÜD Project Handler

TÜV SÜD Program Manager

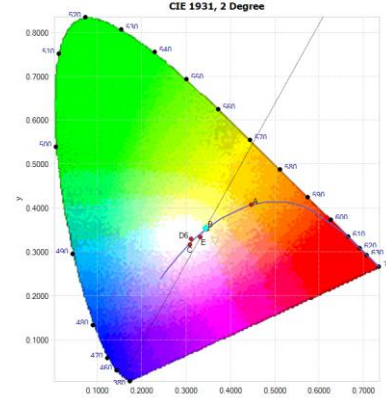
Test Results:

SPECTRAL FLUX GRAPH:



Spectral Response

CHROMATICITY DIAGRAM:



Chromaticity Diagram

Tristimulus Values: $x / y = 0.3448 / 0.3542$

Photometric Test Results

Luminous Flux (Lumens)	2316
Efficacy (Lumens/Watt)	146.73
Color Temperature (CCT K)	5016
Color Rendering Index (CRI)	82.9
R₉ Value	6.7
Radiant Flux (W/nm)	7.2
Chroma u' / Chroma v'	0.2102 / 0.4859
Duv	0.00144

Electrical Test Results

Input Power (Watts)	15.78
Input Voltage (Volts)	120.02
Input Current (Amps)	0.132
Power Factor (120V/277V)	0.997 / 0.954
Input Frequency (Hz)	60.0
Stabilization Time	45 minutes
Ambient Temperature	24.8°C
A-THD (120V/277V)	3.66 % / 7.69 %

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Confidential Report



Lab Code: 500065-0

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