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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For
Elemental LED Inc, DBA Diode LED

Wes Buck
Suite 211, 1195 Park Ave.
Emeryville, CA 94608
United States

Catalog Number
DI-12V-2VA30-9016

Order Number
11358060
Test Number
872633

Test Date

2015-01-21

Prepared By

Javier Caban, Technician

Approved By

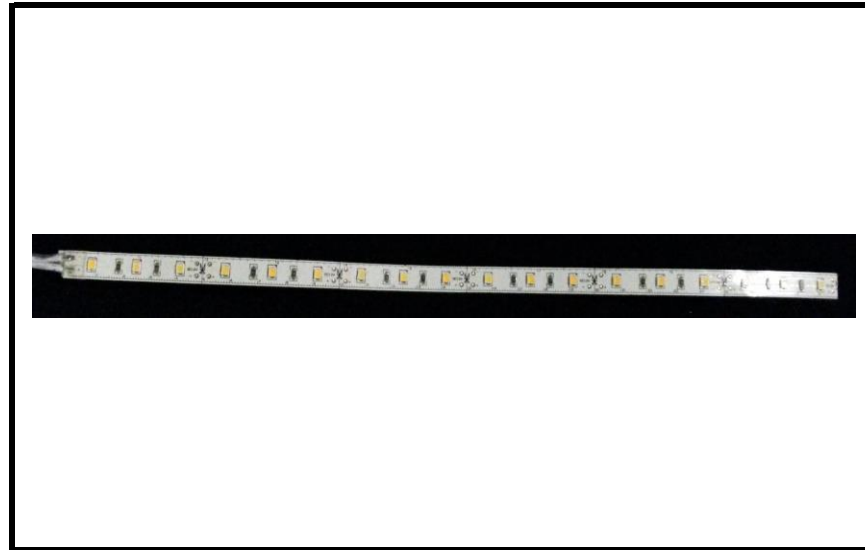
Zachary Mooney, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED strip
Lamp: 18 white LEDs
Mounting: Surface

Luminaire



Summary of Results

Radiant Flux:	1122 mW
Luminous Flux:	310.2 lm
Luminaire Efficacy:	71.2 lm/W
CCT:	2948 K
CRI (Ra):	91.7
Chromaticity (x):	0.4405
Chromaticity (y):	0.4052
Chromaticity (u):	0.2524
Chromaticity (v):	0.3482
Duv:	0.0003

Test Conditions

Test Temperature:	25.2 °C
Voltage:	12.00 VDC
Current:	0.3633 A
Power:	4.359 W

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



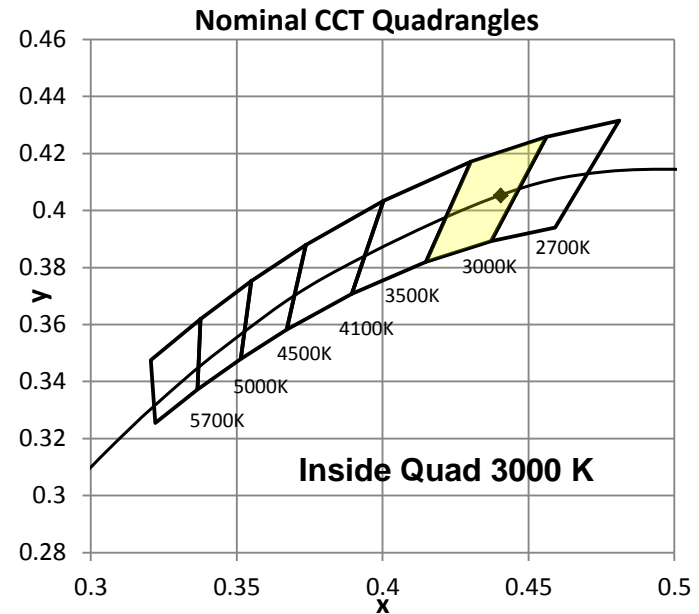
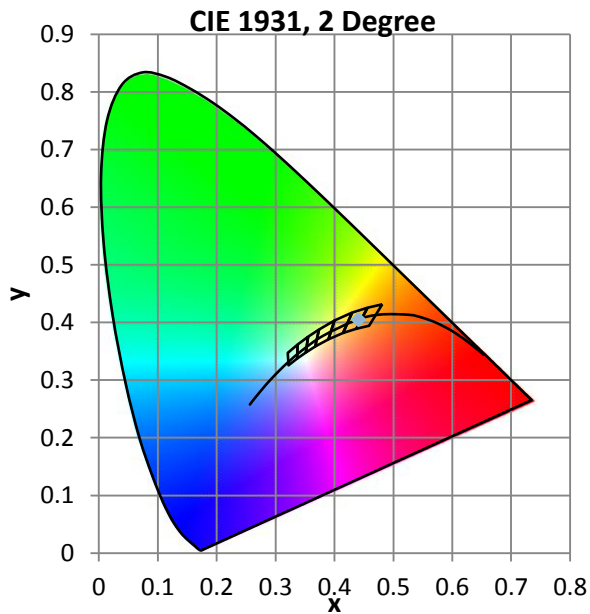
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	12.00 VAC	0.3633 A	4.359 W	N/A	N/A	N/A

Summary of Results

Total Output:	310 Lumens	Chromaticity (x):	0.4405
Efficacy:	71.2 lm/w	Chromaticity (y):	0.4052
CCT:	2948 K	Chromaticity (u'):	0.2524
CRI (Ra):	91.7	Chromaticity (v'):	0.5224
CRI (R9):	65.0	TM-30 R_f:	89.7
Peak Wavelength:	630.6 nm	TM-30 R_g:	99.7
Dominant Wavelength:	583 nm	Duv:	0.0003
S/P Ratio:	1.364		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
91.7	91.7	94.5	95.4	91.2	90.5	91.9	93.8	84.8	65.0	85.8	90.3	75.5	92.2	96.7

