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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-2VA42-9016

Order Number
11358060
Test Number
872635

Test Date

2015-01-22

Prepared By

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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:	1210 mW
Luminous Flux:	333.6 lm
Luminaire Efficacy:	76.4 lm/W
CCT:	4043 K
CRI (Ra):	94.7
Chromaticity (x):	0.3782
Chromaticity (y):	0.3744
Chromaticity (u):	0.2245
Chromaticity (v):	0.3335
Duv:	-0.0011

Test Conditions

Test Temperature:	25.0 °C
Voltage:	12.00 VDC
Current:	0.3641 A
Power:	4.369 W

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



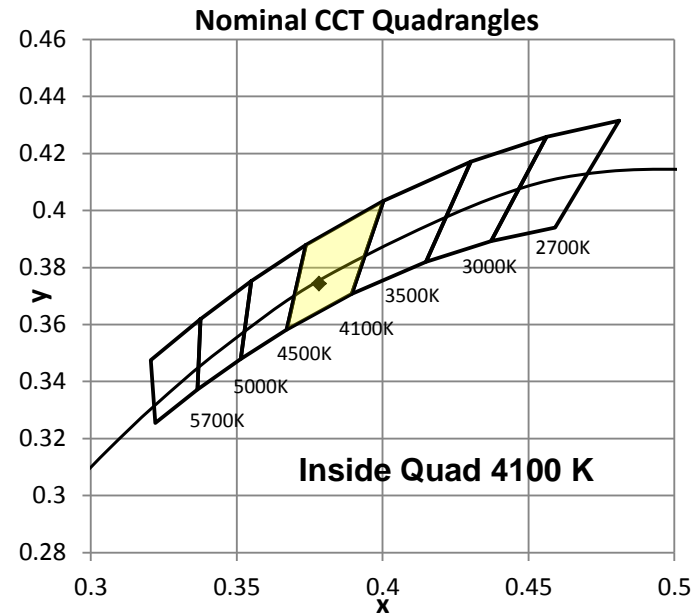
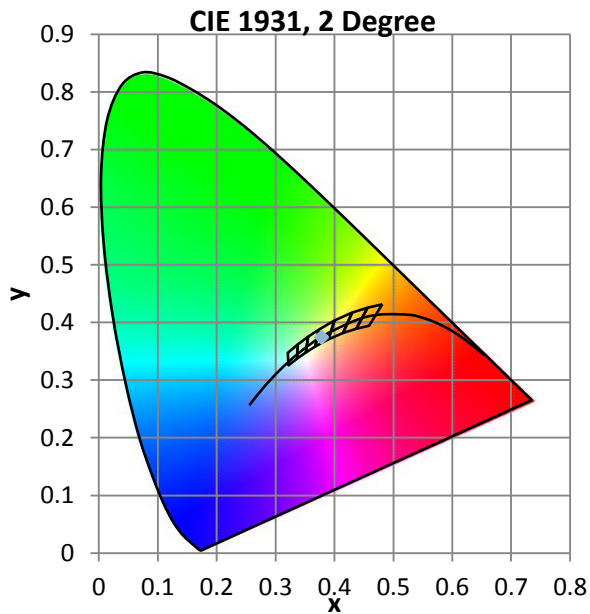
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	12.00 VAC	0.3641 A	4.369 W	N/A	N/A	N/A

Summary of Results

Total Output:	334 Lumens	Chromaticity (x):	0.3782
Efficacy:	76.4 lm/w	Chromaticity (y):	0.3744
CCT:	4043 K	Chromaticity (u'):	0.2245
CRI (Ra):	94.7	Chromaticity (v'):	0.5002
CRI (R9):	84.4	TM-30 R_f:	91.4
Peak Wavelength:	451.7 nm	TM-30 R_g:	100.3
Dominant Wavelength:	579.1 nm	Duv:	-0.0011
S/P Ratio:	1.8		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
94.7	95.2	95.7	93.9	94.8	94.0	92.1	97.3	94.3	84.4	88.3	93.8	74.7	95.2	96.2

