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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For
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United States

Catalog Number
MBP-LED-e93-SD8
Order Number
11609588
Test Number
11609588.25

Test Date

2017-07-07

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing with reflector and diffuse lens.
Lamp: Three (3) white LEDs
Mounting: Ground recessed
Ballast/Driver: Unmarked power supply

Luminaire



Summary of Results

Radiant Flux:	928.2 mW
Luminous Flux:	298.6 lm
Luminaire Efficacy:	45.9 lm/W
CCT:	2699 K
CRI (Ra):	81.9
Chromaticity (x):	0.4588
Chromaticity (y):	0.4088
Chromaticity (u):	0.2626
Chromaticity (v):	0.3510
Duv:	-0.0009

Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.06203 A
Power:	6.505 W
Power Factor:	0.873
Frequency:	60 Hz
Current THD:	36.3 %

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



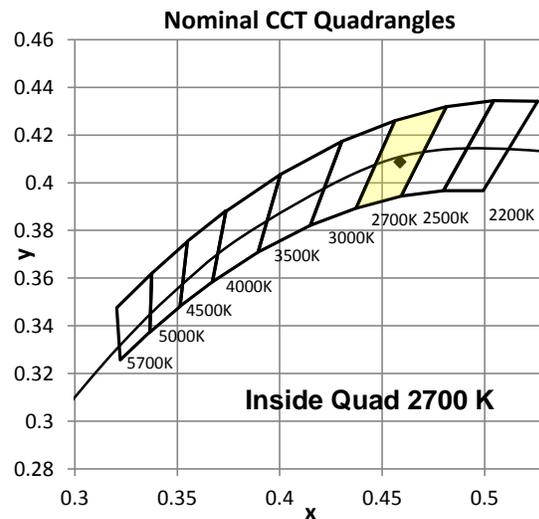
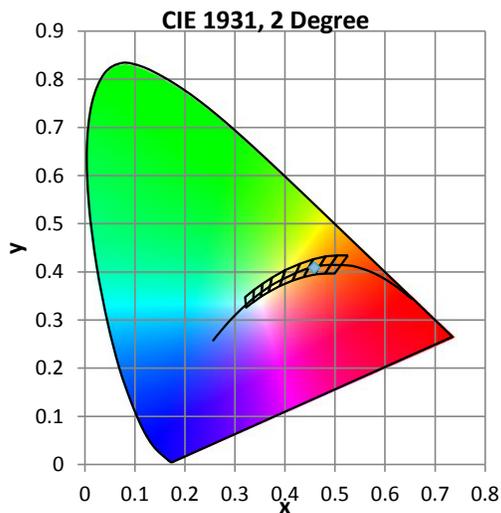
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.06203 A	6.505 W	0.873	60 Hz	36.3 %

Summary of Results

Total Output:	299 Lumens	Chromaticity (x):	0.4588
Efficacy:	45.9 lm/w	Chromaticity (y):	0.4088
CCT:	2699 K	Chromaticity (u'):	0.2626
CRI (Ra):	81.9	Chromaticity (v'):	0.5265
CRI (R9):	8.4	TM-30 Rf:	81
Peak Wavelength:	608.3 nm	TM-30 Rg:	98.3
Dominant Wavelength:	584.4 nm	Duv:	-0.0009
S/P Ratio:	1.183		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.9	80.3	89.7	96.8	80.2	80.0	87.5	82.5	58.4	8.4	76.3	79.5	71.8	82.3	98.3

