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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
PRP-LED-e59-WHP-12
Order Number
11894916
Test Number
11894916.05

Test Date

2017-08-03

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: White metal shade/reflector, diffuse plastic lens, and metal base
Lamp: One (1) white LED with optic attached
Mounting: VBD
Ballast/Driver: One (1) TRE20

Luminaire



Summary of Results

Radiant Flux:	1145 mW
Luminous Flux:	396 lm
Luminaire Efficacy:	49.8 lm/W
CCT:	3732 K
CRI (Ra):	72.0
Chromaticity (x):	0.3968
Chromaticity (y):	0.3962
Chromaticity (u):	0.2280
Chromaticity (v):	0.3415
Duv:	0.0039

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.07167 A
Power:	7.957 W
Power Factor:	0.925
Frequency:	60 Hz
Current THD:	33.8 %

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



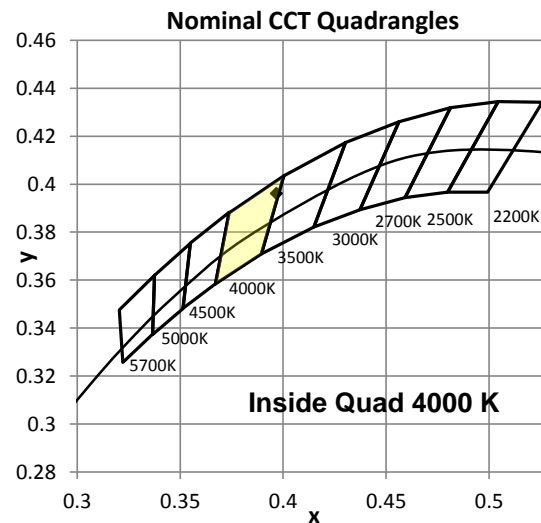
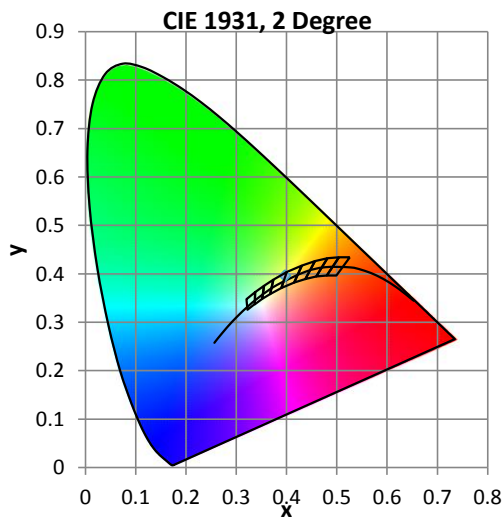
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.07167 A	7.957 W	0.925	60 Hz	33.8 %

Summary of Results

Total Output:	396 Lumens	Chromaticity (x):	0.3968
Efficacy:	49.8 lm/w	Chromaticity (y):	0.3962
CCT:	3732 K	Chromaticity (u'):	0.2280
CRI (Ra):	72.0	Chromaticity (v'):	0.5123
CRI (R9):	-21.7	TM-30 Rf:	72
Peak Wavelength:	584 nm	TM-30 Rg:	94.4
Dominant Wavelength:	578.2 nm	Duv:	0.0039
S/P Ratio:	1.414		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72.0	69.1	77.9	84.5	71.3	67.7	68.0	82.7	54.9	-21.7	46.9	65.4	38.8	70.1	90.8

