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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 C78.377-2017, IES TM-30-2015

Prepared For
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United States

Catalog Number
SA-LED-X53-WW-9-3000K
Order Number
12406698
Test Number
12406698.02

Test Date

2018-08-28

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal cylindrical housing with clear outer glass lens and inner plastic diffuse lens.
Lamp: One (1) white LED with optic attached
Mounting: Surface - Ground
Ballast/Driver: ERP ESS015W-0350-42

Luminaire



Summary of Results

Radiant Flux:	1507 mW
Luminous Flux:	499.1 lm
Luminaire Efficacy:	47.0 lm/W
CCT:	3174 K
CRI (Ra):	82.3
Chromaticity (x):	0.4250
Chromaticity (y):	0.3997
Chromaticity (u):	0.2447
Chromaticity (v):	0.3452
Duv:	0.0002

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.09036 A
Power:	10.63 W
Power Factor:	0.980
Frequency:	60 Hz
Current THD:	17.7 %

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



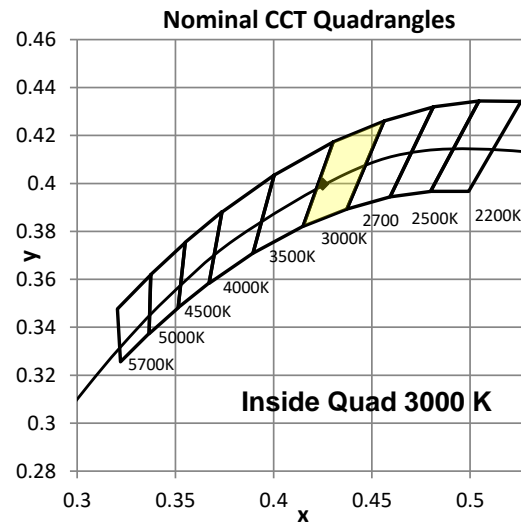
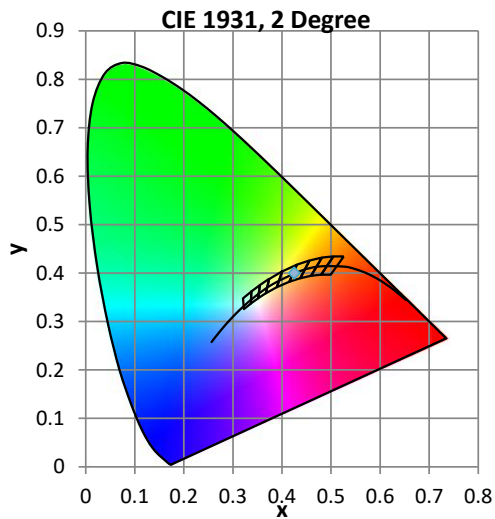
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.09036 A	10.63 W	0.980	60 Hz	17.7 %

Summary of Results

Total Output:	499 Lumens	Chromaticity (x):	0.4250
Efficacy:	47.0 lm/w	Chromaticity (y):	0.3997
CCT:	3174 K	Chromaticity (u'):	0.2447
CRI (Ra):	82.3	Chromaticity (v'):	0.5179
CRI (R9):	4.2	TM-30 Rf:	83
Peak Wavelength:	602 nm	TM-30 Rg:	96
Dominant Wavelength:	582 nm	Duv:	0.0002
S/P Ratio:	1.41		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.3	80.4	90.5	96.3	80.4	80.9	88.2	82.9	58.7	4.2	78.4	79.6	71.5	82.7	98.5	73.0

