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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
EcoSense Lighting

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Catalog Number
SDC-M-12-40-MULT-9

Order Number
12516650
Test Number
12516650.01

Test Date

2018-09-20

Prepared By

Luis Torres, Technician

Approved By

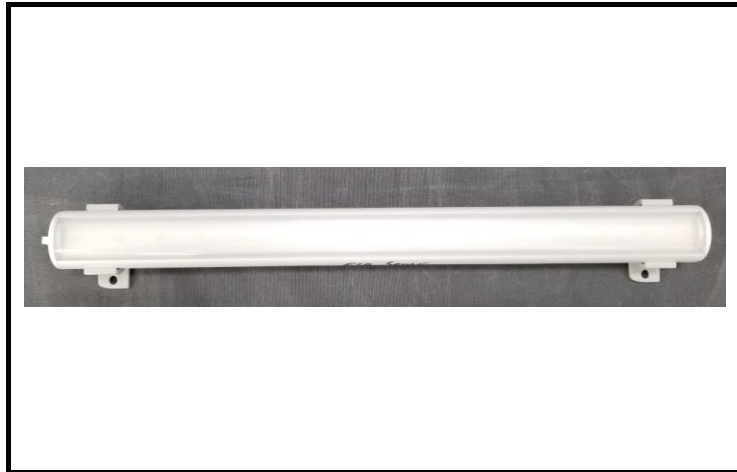
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White plastic cylindrical housing with diffuse lens
Lamp: 16 White LEDs
Mounting: Surface

Luminaire



Summary of Results

Radiant Flux:	1416 mW
Luminous Flux:	412.2 lm
Luminaire Efficacy:	112.1 lm/W
CCT:	4106 K
CRI (Ra):	92.3
Chromaticity (x):	0.3771
Chromaticity (y):	0.3792
Chromaticity (u):	0.2220
Chromaticity (v):	0.3348
Duv:	0.0016

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.03531 A
Power:	3.677 W
Power Factor:	0.867
Frequency:	60 Hz
Current THD:	54.5 %

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



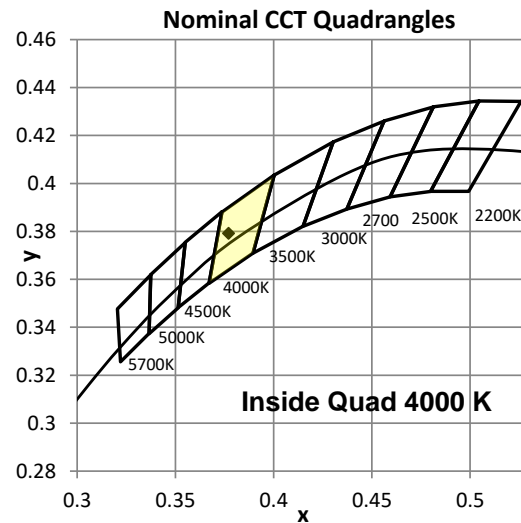
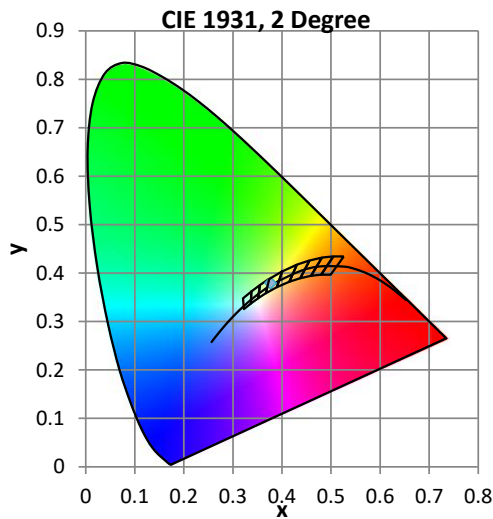
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.03531 A	3.677 W	0.867	60 Hz	54.5 %

Summary of Results

Total Output:	412 Lumens	Chromaticity (x):	0.3771
Efficacy:	112.1 lm/w	Chromaticity (y):	0.3792
CCT:	4106 K	Chromaticity (u'):	0.2220
CRI (Ra):	92.3	Chromaticity (v'):	0.5021
CRI (R9):	71.9	TM-30 Rf:	83.9
Peak Wavelength:	458 nm	TM-30 Rg:	93
Dominant Wavelength:	578 nm	Duv:	0.0016
S/P Ratio:	1.9		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.3	95.4	98.6	95.8	87.1	91.9	96.1	88.6	84.9	71.9	98.1	89.3	68.9	97.7	98.2	91.0

