



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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

Elizabeth Rodgers
837 N. Spring St., Suite 103
Los Angeles, CA 90012
United States

Catalog Number
SDC-H-12-30-MULT-9

Order Number

12516650

Test Number

12516650.07

Test Date

2018-09-21

Prepared By

Luis Torres, Technician

Approved By

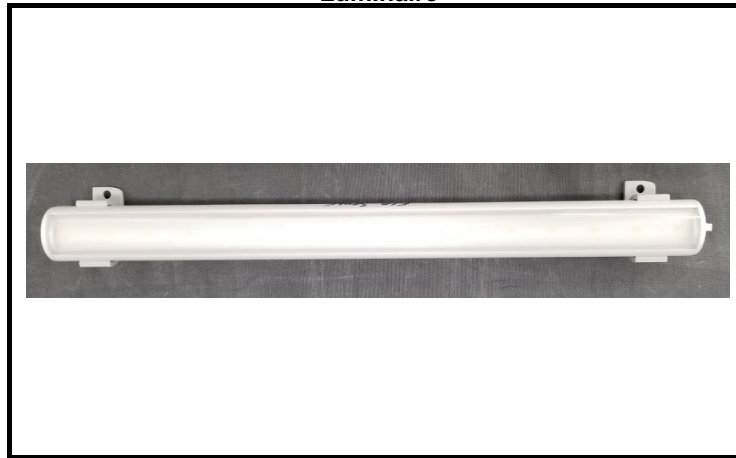
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: White plastic cylindrical housing with diffuse lens
Lamp: 16 White LEDs
Mounting: Surface

Luminaire



Summary of Results

Radiant Flux:	2343 mW
Luminous Flux:	665.9 lm
Luminaire Efficacy:	85.4 lm/W
CCT:	3078 K
CRI (Ra):	92.5
Chromaticity (x):	0.4287
Chromaticity (y):	0.3963
Chromaticity (u):	0.2486
Chromaticity (v):	0.3447
Duv:	-0.0025

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.1 VAC
Current:	0.07374 A
Power:	7.797 W
Power Factor:	0.881
Frequency:	60 Hz
Current THD:	53.2 %

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



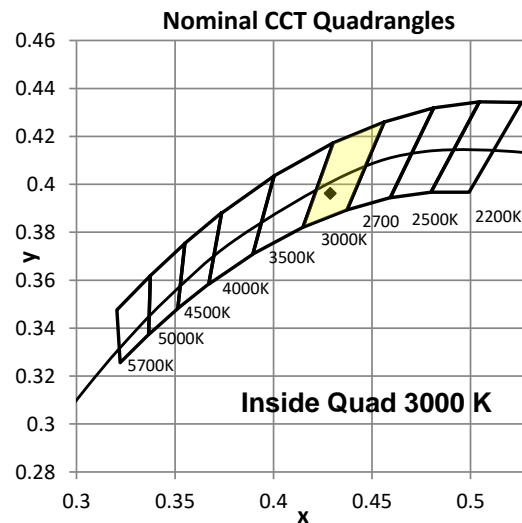
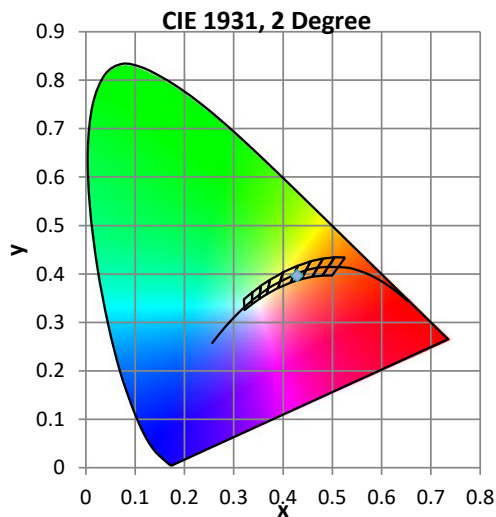
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.07374 A	7.797 W	0.881	60 Hz	53.2 %

Summary of Results

Total Output:	666 Lumens	Chromaticity (x):	0.4287
Efficacy:	85.4 lm/w	Chromaticity (y):	0.3963
CCT:	3078 K	Chromaticity (u'):	0.2486
CRI (Ra):	92.5	Chromaticity (v'):	0.5170
CRI (R9):	62.7	TM-30 Rf:	89.9
Peak Wavelength:	623 nm	TM-30 Rg:	101.3
Dominant Wavelength:	583 nm	Duv:	-0.0025
S/P Ratio:	1.44		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.5	93.1	95.5	95.9	92.6	92.5	93.7	92.6	83.8	62.7	88.1	92.7	80.3	93.8	97.0	90.3

