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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
B-K Lighting Inc
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Madera, CA 93636-9515
United States

Catalog Number
DE-LED-TR-X99-SP-9-3000K
Order Number
12439915
Test Number
12439915.02

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

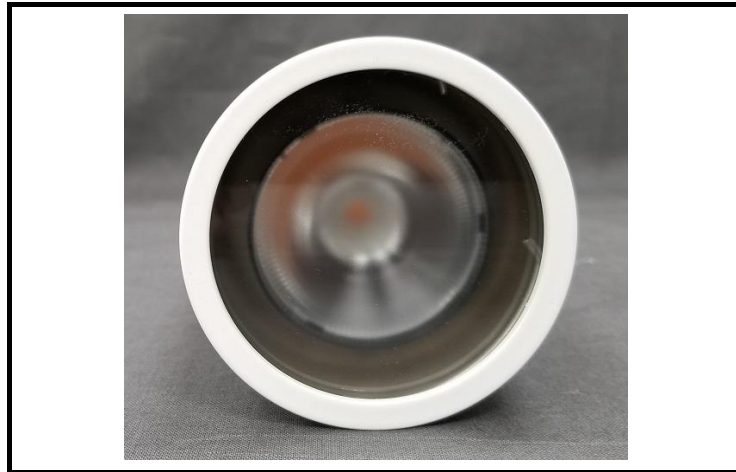
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with plastic prismatic reflector, inner frosted lens, and outer clear glass lens
Lamp: One (1) LED with optics below
Mounting: Pendant
Ballast/Driver: ERP EBR015U-0440-36

Luminaire



Summary of Results

Radiant Flux:	2640 mW
Luminous Flux:	873.3 lm
Luminaire Efficacy:	66.9 lm/W
CCT:	3134 K
CRI (Ra):	82.4
Chromaticity (x):	0.4270
Chromaticity (y):	0.3994
Chromaticity (u):	0.2461
Chromaticity (v):	0.3454
Duv:	0.0008

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.1100 A
Power:	13.05 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	12.3 %

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



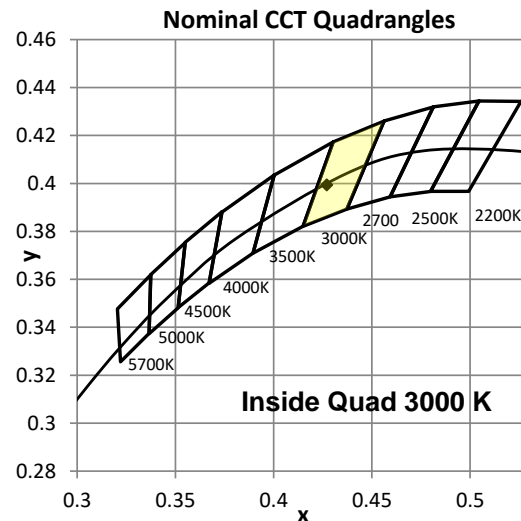
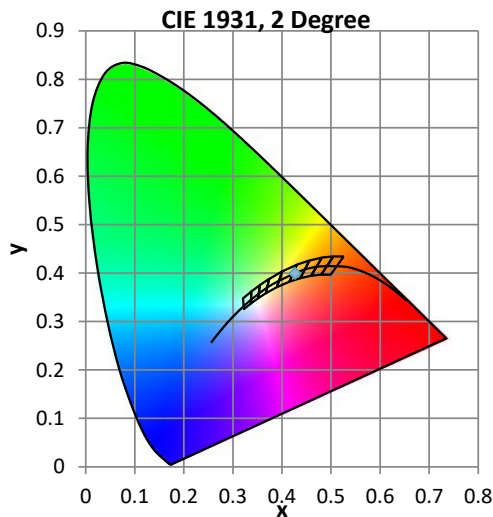
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.1100 A	13.05 W	0.987	60 Hz	12.3 %

Summary of Results

Total Output:	873 Lumens	Chromaticity (x):	0.4270
Efficacy:	66.9 lm/w	Chromaticity (y):	0.3994
CCT:	3134 K	Chromaticity (u'):	0.2461
CRI (Ra):	82.4	Chromaticity (v'):	0.5181
CRI (R9):	5.1	TM-30 Rf:	82.9
Peak Wavelength:	603 nm	TM-30 Rg:	96.8
Dominant Wavelength:	582 nm	Duv:	0.0008
S/P Ratio:	1.39		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.4	80.6	90.4	96.5	80.9	81.1	88.3	82.9	58.9	5.1	78.3	80.4	72.8	82.8	98.5	73.3

