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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-X100-SP-9-4000K

Order Number
12439915
Test Number
12439915.07

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

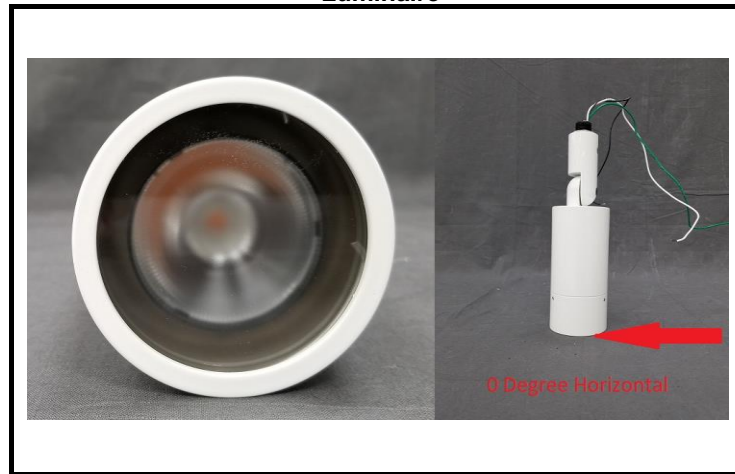
Eric Gaudreau, Engineering Leader

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:	2730 mW
Luminous Flux:	907 lm
Luminaire Efficacy:	70.8 lm/W
CCT:	4168 K
CRI (Ra):	81.6
Chromaticity (x):	0.3752
Chromaticity (y):	0.3805
Chromaticity (u):	0.2202
Chromaticity (v):	0.3350
Duv:	0.0029

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1083 A
Power:	12.80 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	13.6 %

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



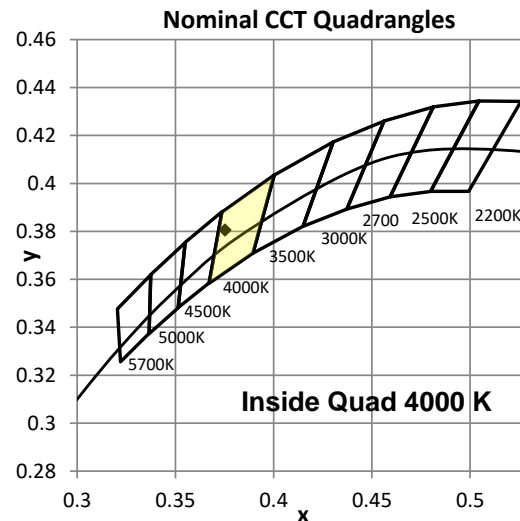
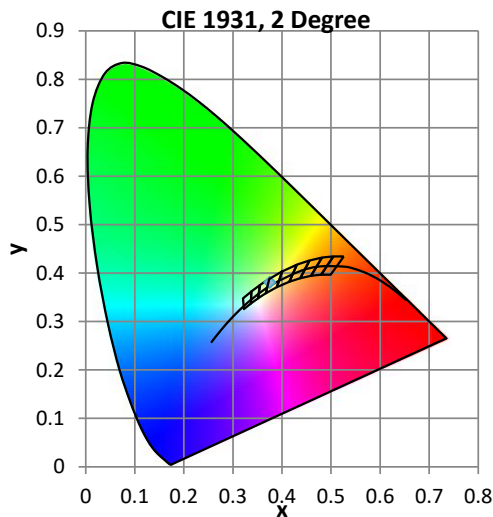
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1083 A	12.80 W	0.985	60 Hz	13.6 %

Summary of Results

Total Output:	907 Lumens	Chromaticity (x):	0.3752
Efficacy:	70.8 lm/w	Chromaticity (y):	0.3805
CCT:	4168 K	Chromaticity (u'):	0.2202
CRI (Ra):	81.6	Chromaticity (v'):	0.5024
CRI (R9):	3.8	TM-30 Rf:	81.1
Peak Wavelength:	452 nm	TM-30 Rg:	93.8
Dominant Wavelength:	577 nm	Duv:	0.0029
S/P Ratio:	1.72		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.6	79.2	87.8	94.1	79.6	78.9	82.7	86.6	63.7	3.8	70.7	77.5	56.4	81.3	96.8	72.8

