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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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Catalog Number
DE-LED-TR-X98-SP-9-2700K

Order Number
12439915
Test Number
12439915.08

Test Date

2018-09-12

Prepared By

Austin Duff, Technician

Approved By

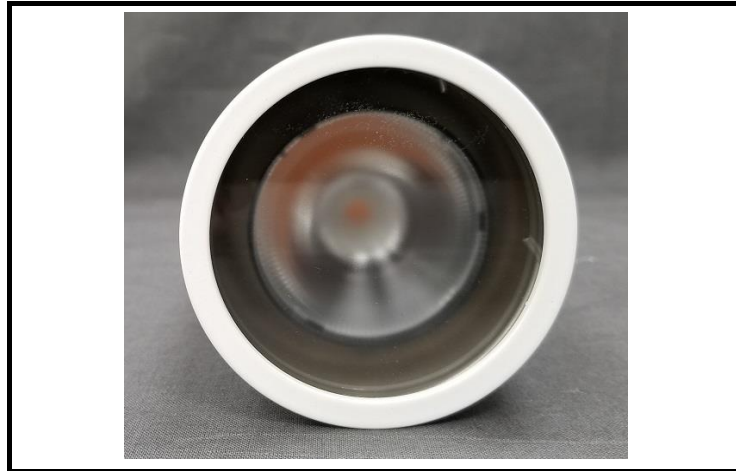
Eric Gaudreau, Engineering Leader

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-04440-36

Luminaire



Summary of Results

Radiant Flux:	2574 mW
Luminous Flux:	832.6 lm
Luminaire Efficacy:	63.4 lm/W
CCT:	2806 K
CRI (Ra):	82.6
Chromaticity (x):	0.4505
Chromaticity (y):	0.4071
Chromaticity (u):	0.2580
Chromaticity (v):	0.3497
Duv:	-0.0005

Test Conditions

Test Temperature:	25.8 °C
Voltage:	120.0 VAC
Current:	0.1110 A
Power:	13.13 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	13.8 %

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



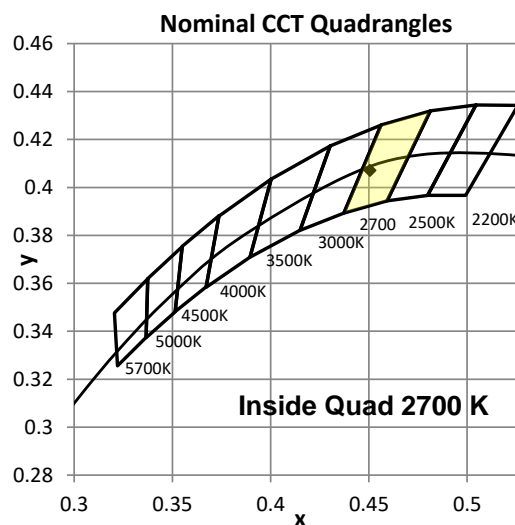
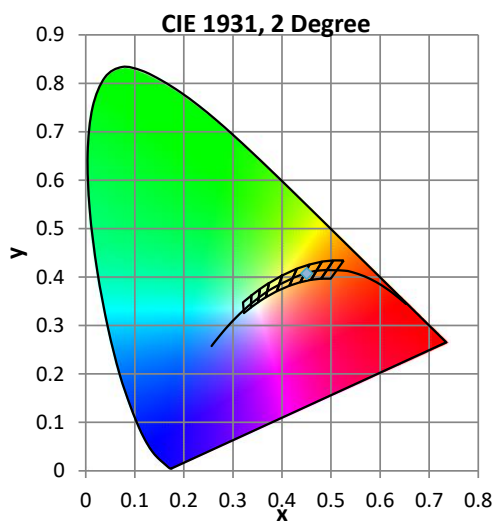
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.1110 A	13.13 W	0.986	60 Hz	13.8 %

Summary of Results

Total Output:	833 Lumens	Chromaticity (x):	0.4505
Efficacy:	63.4 lm/w	Chromaticity (y):	0.4071
CCT:	2806 K	Chromaticity (u'):	0.2580
CRI (Ra):	82.6	Chromaticity (v'):	0.5246
CRI (R9):	8.4	TM-30 Rf:	83.3
Peak Wavelength:	607 nm	TM-30 Rg:	96.6
Dominant Wavelength:	584 nm	Duv:	-0.0005
S/P Ratio:	1.26		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.6	81.0	91.3	96.0	80.5	81.4	90.1	82.1	58.3	8.4	80.7	80.2	75.8	83.4	98.5	73.5

