



UL LLC
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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 C78.377-2015, IES TM-30-2015

Prepared For
B-K Lighting Inc

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United States

Represented Catalog Numbers:

MBS-LED-e70-SD8, MBS-LED-e70-SD5, MBS-LED-e70 no shade

Tested Catalog Number
MBS-LED-e70-SD8

Order Number

11609588

Test Number

11609588.13A

Revised:

2017-05-19

Test Date

2017-04-07

Prepared By

Khang Nguyen, Technician

Approved By

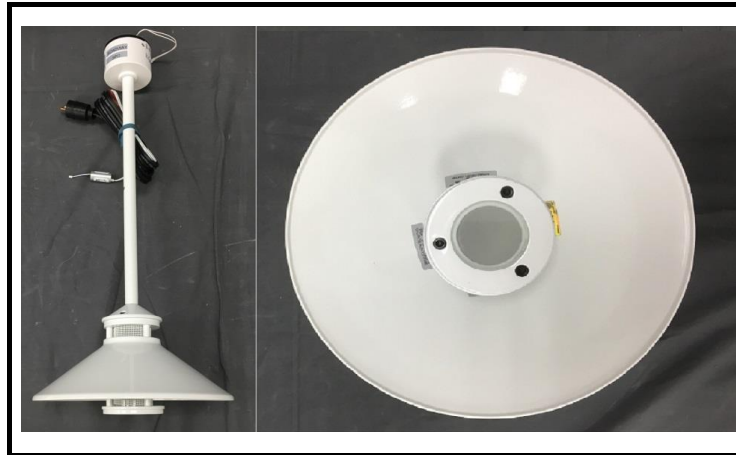
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing with reflector, grate and diffuse lens.
Lamp: One (1) white LED
Mounting: Pendant
Ballast/Driver: Unmarked power supply

Luminaire



Summary of Results

Radiant Flux:	311.9 mW
Luminous Flux:	100.9 lm
Luminaire Efficacy:	27.7 lm/W
CCT:	2598 K
CRI (Ra):	81.4
Chromaticity (x):	0.4718
Chromaticity (y):	0.4185
Chromaticity (u):	0.2666
Chromaticity (v):	0.3547
Duv:	0.0018

Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.1 VAC
Current:	0.05764 A
Power:	3.644 W
Power Factor:	0.525
Frequency:	60 Hz
Current THD:	146 %

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



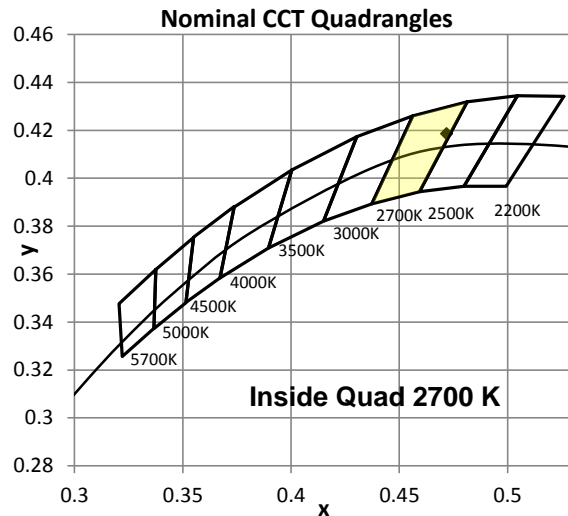
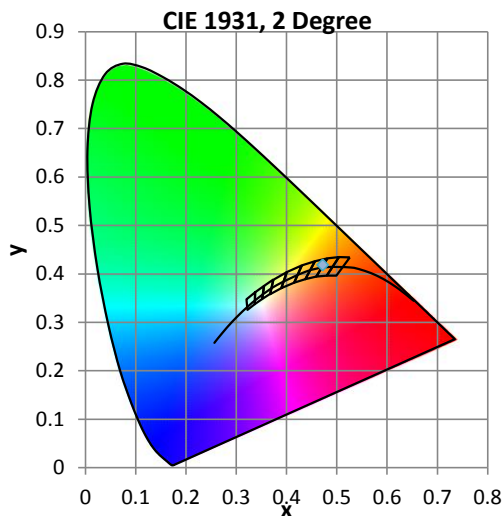
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.1 VAC	0.05764 A	3.644 W	0.525	60 Hz	146 %

Summary of Results

Total Output:	101 Lumens	Chromaticity (x):	0.4718
Efficacy:	27.7 lm/w	Chromaticity (y):	0.4185
CCT:	2598 K	Chromaticity (u'):	0.2666
CRI (Ra):	81.4	Chromaticity (v'):	0.5321
CRI (R9):	6.3	TM-30 R _f :	82.0
Peak Wavelength:	609.7 nm	TM-30 R _g :	96.9
Dominant Wavelength:	584.1 nm	Duv:	0.0018
S/P Ratio:	1.117		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.4	79.3	88.8	97.5	79.8	78.7	86.6	83.0	57.5	6.3	74.6	78.8	69.6	81.1	98.4

