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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-e72-SD8, MBS-LED-e72-SD5 ,MBS-LED-e72 no shade

Tested Catalog Number
MBS-LED-e72-SD8

Order Number

11609588

Test Number

11609588.15A

Revised:

2017-05-19

Test Date

2017-04-07 - 2017-04-10

Prepared By

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Approved By

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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:	337.9 mW
Luminous Flux:	113 lm
Luminaire Efficacy:	30.6 lm/W
CCT:	3652 K
CRI (Ra):	81.1
Chromaticity (x):	0.4015
Chromaticity (y):	0.3998
Chromaticity (u):	0.2296
Chromaticity (v):	0.3430
Duv:	0.0041

Test Conditions

Test Temperature:	25.7 °C
Voltage:	120.1 VAC
Current:	0.05875 A
Power:	3.688 W
Power Factor:	0.522
Frequency:	60 Hz
Current THD:	145 %

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



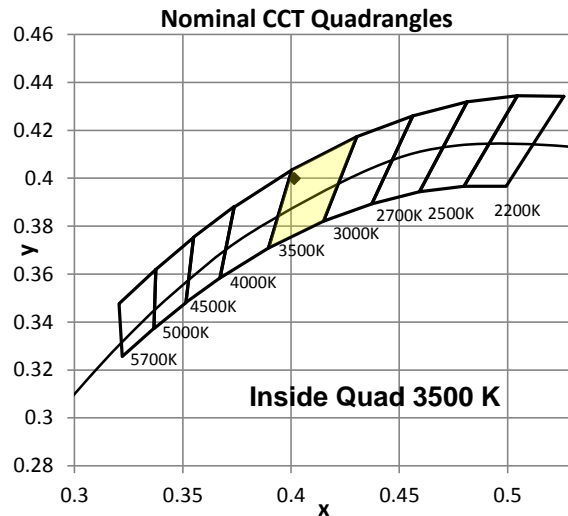
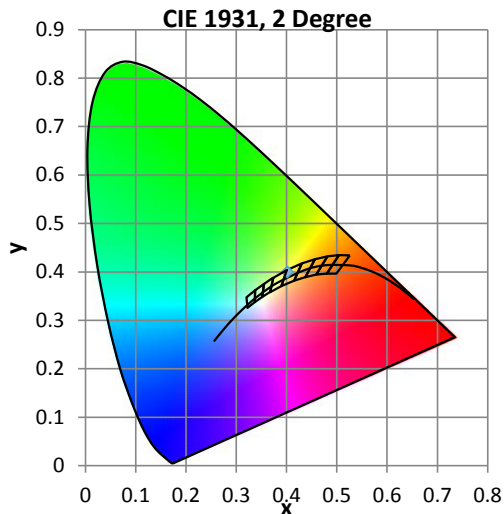
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	120.1 VAC	0.05875 A	3.688 W	0.522	60 Hz	145 %

Summary of Results

Total Output:	113 Lumens	Chromaticity (x):	0.4015
Efficacy:	30.6 lm/w	Chromaticity (y):	0.3998
CCT:	3652 K	Chromaticity (u'):	0.2296
CRI (Ra):	81.1	Chromaticity (v'):	0.5144
CRI (R9):	8.4	TM-30 R _f :	81.8
Peak Wavelength:	597.9 nm	TM-30 R _g :	96.6
Dominant Wavelength:	578.4 nm	Duv:	0.0041
S/P Ratio:	1.511		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.1	79.0	85.3	91.2	81.7	78.5	80.2	87.3	65.2	8.4	65.6	80.0	58.6	79.9	94.8

