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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:

MBP-LED-e95-SD8, MBP-LED-e95-SD5, WMB-LED-e95-SD8, WMB-LED-e95-SD5

Tested Catalog Number
MBP-LED-e95-SD8

Order Number
11609588
Test Number
11609588.11A

Revised:
2017-05-19
Test Date

2017-04-11 - 2017-04-13

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 and diffuse lens.
Lamp: Three (3) white LEDs
Mounting: Ground recessed
Ballast/Driver: Unmarked power supply

Luminaire



Summary of Results

Radiant Flux:	1069 mW
Luminous Flux:	356.2 lm
Luminaire Efficacy:	52.1 lm/W
CCT:	3800 K
CRI (Ra):	81.0
Chromaticity (x):	0.3931
Chromaticity (y):	0.3938
Chromaticity (u):	0.2266
Chromaticity (v):	0.3405
Duv:	0.0040

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.09700 A
Power:	6.840 W
Power Factor:	0.588
Frequency:	60 Hz
Current THD:	132 %

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



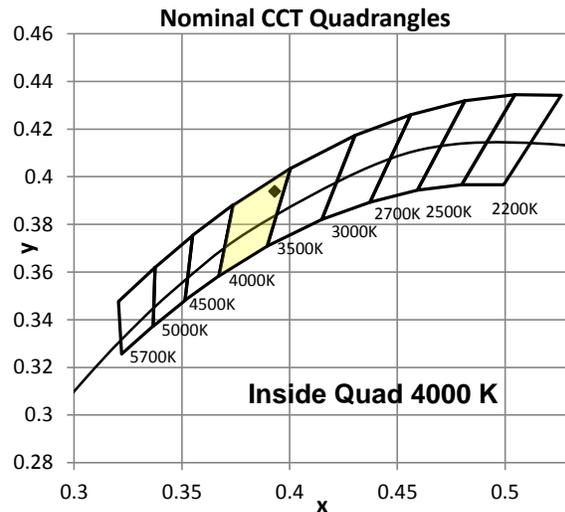
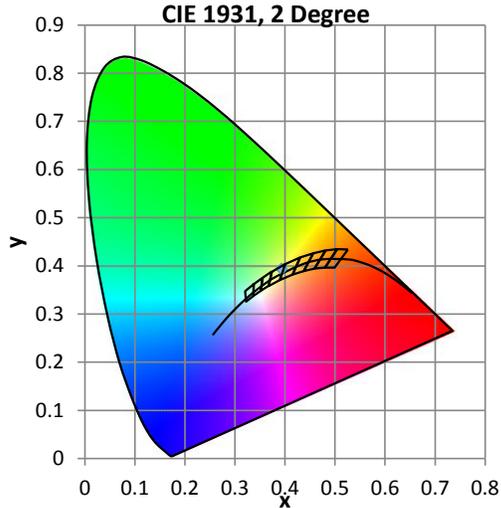
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.09700 A	6.840 W	0.588	60 Hz	132 %

Summary of Results

Total Output:	356 Lumens	Chromaticity (x):	0.3931
Efficacy:	52.1 lm/w	Chromaticity (y):	0.3938
CCT:	3800 K	Chromaticity (u'):	0.2266
CRI (Ra):	81.0	Chromaticity (v'):	0.5107
CRI (R9):	8.1	TM-30 R_f:	81.3
Peak Wavelength:	594.8 nm	TM-30 R_g:	95.4
Dominant Wavelength:	577.9 nm	Duv:	0.0040
S/P Ratio:	1.569		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.0	78.9	85.9	91.6	80.5	78.1	80.3	87.6	65.2	8.1	66.2	77.9	55.1	80.2	95.0

