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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

Prepared For
B-K LIGHTING INC

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Tested Catalog Number
DE-LED-X67-SP-WHP-9-C

Order Number
12888962
Test Number
12888962.02

Test Date

2019-06-06

Prepared By

Austin Duff, Technician

Approved By

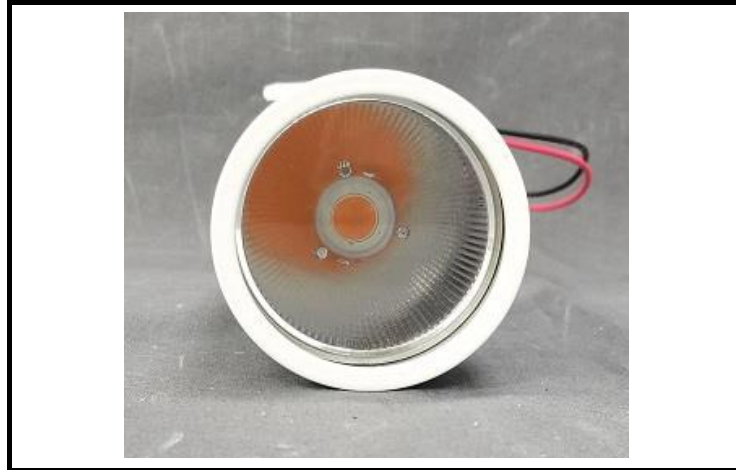
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with prismatic/semi-specular reflector and glass lens
Lamp: One (1) White LED
Mounting: Surface
Ballast/Driver: ERP ESS030W-0700-42
Represented Models: AA-BB-LED-X67-SP-WHP-9-C, where AA and BB represent mounting options, can be any alpha numeric combination, or blank

Luminaire



Summary of Results

Radiant Flux:	6696 mW
Luminous Flux:	1866 lm
Luminaire Efficacy:	73.4 lm/W
CCT:	2753 K
CRI (Ra):	91.6
Chromaticity (x):	0.4533
Chromaticity (y):	0.4056
Chromaticity (u):	0.2605
Chromaticity (v):	0.3496
Duv:	-0.0015

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.2147 A
Power:	25.43 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	12.8 %

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



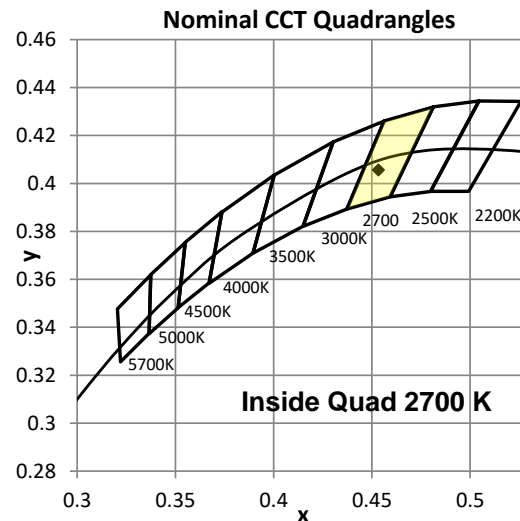
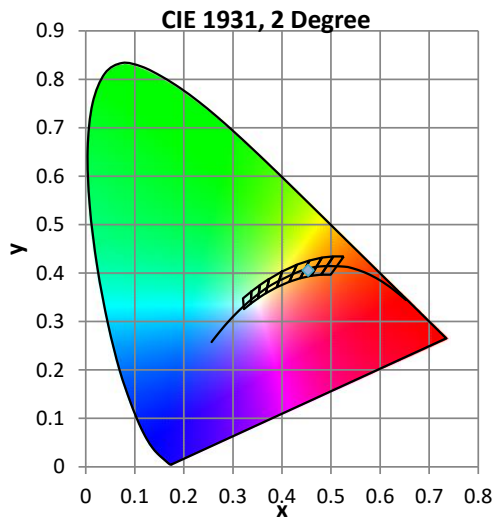
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.2147 A	25.43 W	0.986	60 Hz	12.8 %

Summary of Results

Total Output:	1866 Lumens	Chromaticity (x):	0.4533
Efficacy:	73.4 lm/w	Chromaticity (y):	0.4056
CCT:	2753 K	Chromaticity (u'):	0.2605
CRI (Ra):	91.6	Chromaticity (v'):	0.5244
CRI (R9):	64.9	TM-30 Rf:	89.8
Peak Wavelength:	629 nm	TM-30 Rg:	101.4
Dominant Wavelength:	584 nm	Duv:	-0.0015
S/P Ratio:	1.27		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91.6	92.5	94.5	93.4	91.5	90.9	91.8	93.3	84.7	64.9	84.6	90.4	75.5	92.9	95.1	90.5

