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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For
B-K LIGHTING INC

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Catalog Number

DE-LED-x65-SP-9 SN-DE-LED-x65-SP-9 ST-DE-LED-x65-SP-9 SM-DE-LED-x65-SP-9
UL-DE-LED-x65-SP-9 CK-LED-x65-SP-9 OL-LED-x63-SP-9

Order Number
11353040
Test Number
11353040.36

Test Date

2016-09-09

Prepared By

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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: Circular black aluminum housing, specular linear reflector, and glass lens
Lamp: One (1) White LED
Mounting: VBU
Ballast/Driver: Thomas Research Products LED25W-36-C0700-LE

Luminaire



Summary of Results

Radiant Flux:	5615 mW
Luminous Flux:	1862 lm
Luminaire Efficacy:	69.0 lm/W
CCT:	3170 K
CRI (Ra):	82.0
Chromaticity (x):	0.4256
Chromaticity (y):	0.4008
Chromaticity (u):	0.2447
Chromaticity (v):	0.3456
Duv:	0.0001

Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.2279 A
Power:	27.00 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	12.5 %

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



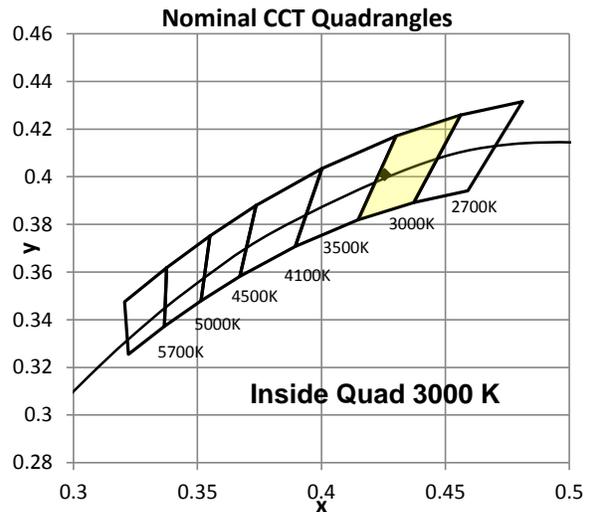
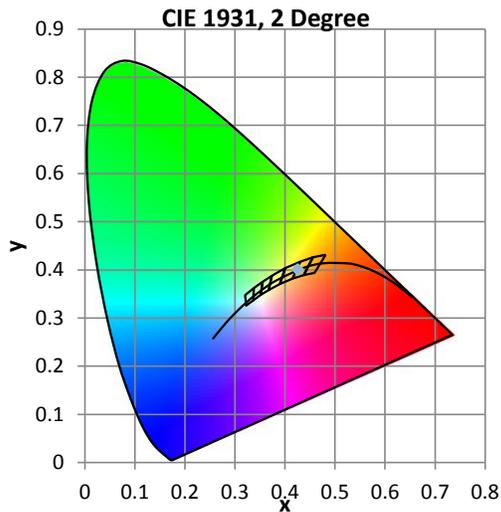
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.2279 A	27.00 W	0.987	60 Hz	12.5 %

Summary of Results

Total Output:	1862 Lumens	Chromaticity (x):	0.4256
Efficacy:	69.0 lm/w	Chromaticity (y):	0.4008
CCT:	3170 K	Chromaticity (u'):	0.2447
CRI (Ra):	82.0	Chromaticity (v'):	0.5184
CRI (R9):	2.7	TM-30 R_f:	83.1
Peak Wavelength:	600.3 nm	TM-30 R_g:	95.3
Dominant Wavelength:	582 nm	Duv:	0.0001
S/P Ratio:	1.413		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.0	80.0	90.6	96.0	79.8	80.6	88.5	82.5	57.9	2.7	78.8	78.9	72.1	82.5	98.3

