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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
AR-LED-x52-SP-12

Order Number
11353040
Test Number
11353040.13

Test Date

2016-09-01

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 formed black aluminum adjustable cylinder housing with an internal linear specular plastic reflector and a prismatic glass lens
Lamp: One (1) White LED
Mounting: Surface
Ballast/Driver: One (1) Thomas Research Products LED 12W-36-C0350

Luminaire



Summary of Results

Radiant Flux:	2333 mW
Luminous Flux:	762.2 lm
Luminaire Efficacy:	71.5 lm/W
CCT:	2767 K
CRI (Ra):	80.9
Chromaticity (x):	0.4541
Chromaticity (y):	0.4089
Chromaticity (u):	0.2595
Chromaticity (v):	0.3506
Duv:	0.0003

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.08900 A
Power:	10.67 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	7.75 %

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



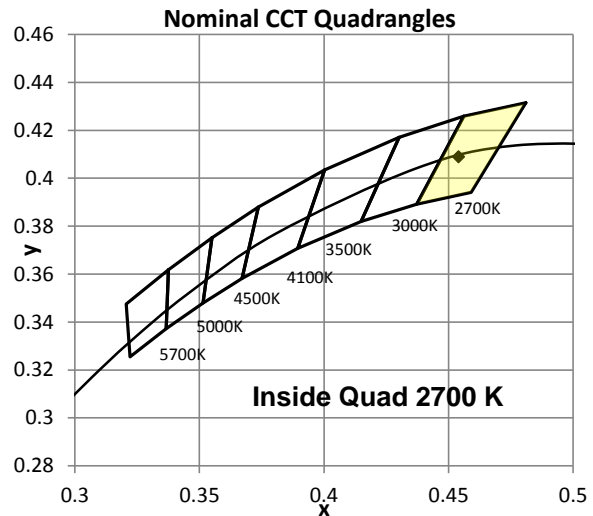
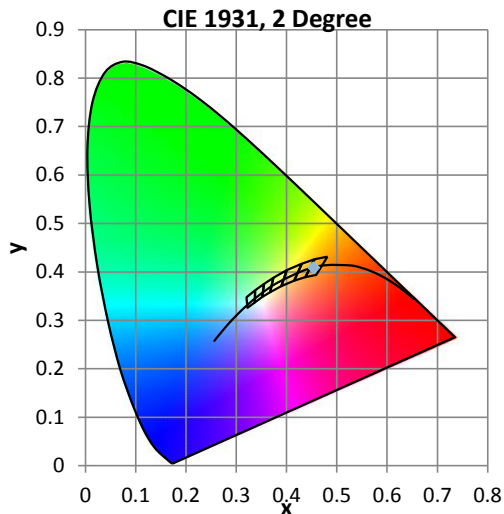
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.08900 A	10.67 W	0.993	60 Hz	7.75 %

Summary of Results

Total Output:	762 Lumens	Chromaticity (x):	0.4541
Efficacy:	71.5 lm/w	Chromaticity (y):	0.4089
CCT:	2767 K	Chromaticity (u'):	0.2595
CRI (Ra):	80.9	Chromaticity (v'):	0.5258
CRI (R9):	1.3	TM-30 R _f :	82.7
Peak Wavelength:	605.5 nm	TM-30 R _g :	94.3
Dominant Wavelength:	583.9 nm	Duv:	0.0003
S/P Ratio:	1.253		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.9	79.4	91.7	93.7	77.7	80.0	90.9	79.9	54.3	1.3	81.9	76.8	76.2	82.3	97.1

