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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-x53-SP-12

Order Number
11353040
Test Number
11353040.15

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:	2525 mW
Luminous Flux:	822.2 lm
Luminaire Efficacy:	78.2 lm/W
CCT:	3083 K
CRI (Ra):	82.9
Chromaticity (x):	0.4294
Chromaticity (y):	0.3984
Chromaticity (u):	0.2481
Chromaticity (v):	0.3453
Duv:	-0.0017

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.08820 A
Power:	10.52 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	7.29 %

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



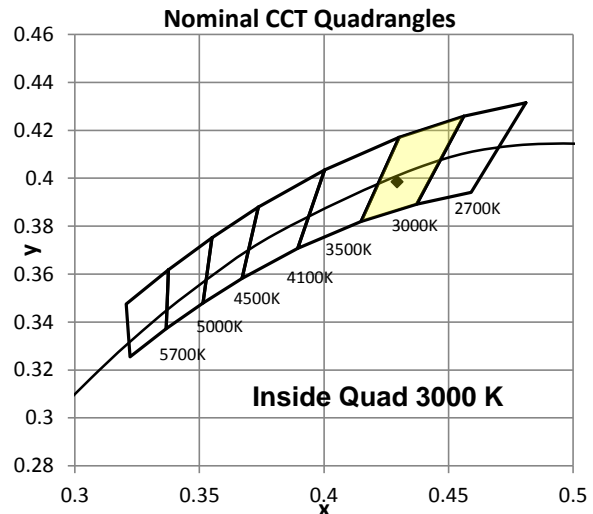
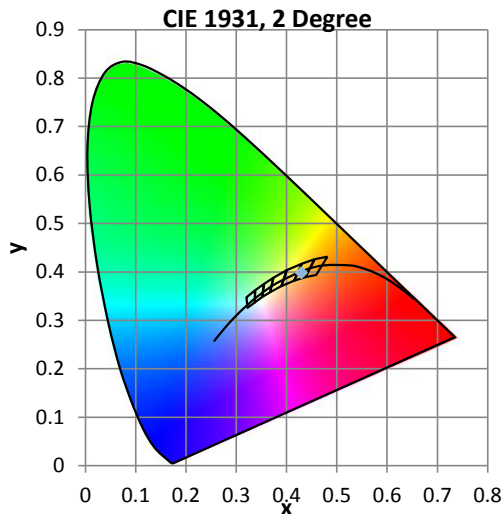
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.08820 A	10.52 W	0.993	60 Hz	7.29 %

Summary of Results

Total Output:	822 Lumens	Chromaticity (x):	0.4294
Efficacy:	78.2 lm/w	Chromaticity (y):	0.3984
CCT:	3083 K	Chromaticity (u'):	0.2481
CRI (Ra):	82.9	Chromaticity (v'):	0.5180
CRI (R9):	9.4	TM-30 R _f :	83.1
Peak Wavelength:	603 nm	TM-30 R _g :	95.6
Dominant Wavelength:	582.9 nm	Duv:	-0.0017
S/P Ratio:	1.396		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.9	81.5	92.0	95.4	80.1	81.9	90.0	82.4	59.7	9.4	81.6	79.1	72.7	84.2	98.2

