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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-LS-20-LED-3000K

Order Number
11609579
Test Number
11609579.08

Test Date

2017-01-18

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: Formed aluminum housing, 10 louvers, and white plastic diffuse lens
Lamp: 24 White LEDs
Mounting: Surface – Wall
Ballast/Driver: FX95100

Luminaire



Summary of Results

Radiant Flux:	944.2 mW
Luminous Flux:	303.1 lm
Luminaire Efficacy:	32.7 lm/W
CCT:	2977 K
CRI (Ra):	81.4
Chromaticity (x):	0.4400
Chromaticity (y):	0.4078
Chromaticity (u):	0.2509
Chromaticity (v):	0.3489
Duv:	0.0009

Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.1 VAC
Current:	0.08593 A
Power:	9.278 W
Power Factor:	0.899
Frequency:	60 Hz
Current THD:	41.6 %

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



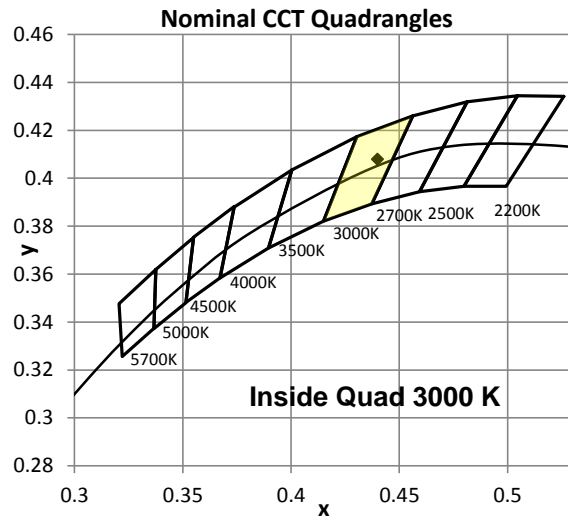
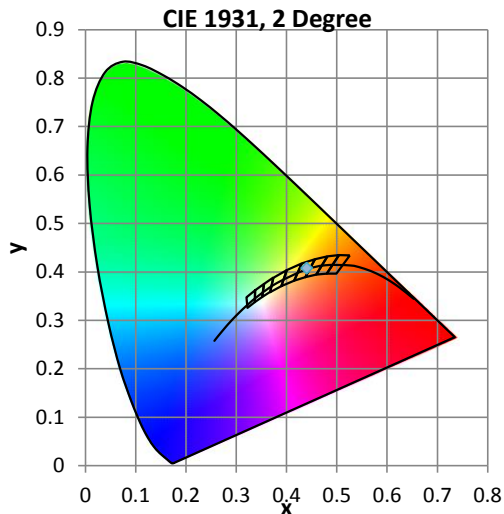
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.1 VAC	0.08593 A	9.278 W	0.899	60 Hz	41.6 %

Summary of Results

Total Output:	303 Lumens	Chromaticity (x):	0.4400
Efficacy:	32.7 lm/w	Chromaticity (y):	0.4078
CCT:	2977 K	Chromaticity (u'):	0.2509
CRI (Ra):	81.4	Chromaticity (v'):	0.5233
CRI (R9):	11.0	TM-30 R _f :	81.9
Peak Wavelength:	602.9 nm	TM-30 R _g :	95.4
Dominant Wavelength:	582.6 nm	Duv:	0.0009
S/P Ratio:	1.299		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.4	79.1	88.9	96.4	78.2	78.4	84.9	84.5	61.1	11.0	74.0	75.2	64.3	81.1	98.0

