



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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

Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
AR-LS-20-LED-2700K

Order Number
11609579
Test Number
11609579.07

Test Date

2017-01-18

Prepared By

Austin Duff, Technician

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:	1162 mW
Luminous Flux:	308.4 lm
Luminaire Efficacy:	23.0 lm/W
CCT:	2624 K
CRI (Ra):	93.1
Chromaticity (x):	0.4669
Chromaticity (y):	0.4134
Chromaticity (u):	0.2658
Chromaticity (v):	0.3530
Duv:	0.0004

Test Conditions

Test Temperature:	24.0 °C
Voltage:	120.0 VAC
Current:	0.1237 A
Power:	13.43 W
Power Factor:	0.904
Frequency:	60 Hz
Current THD:	44.1 %

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



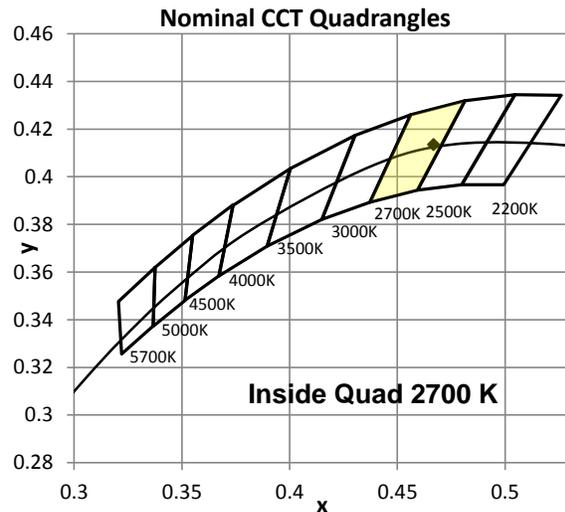
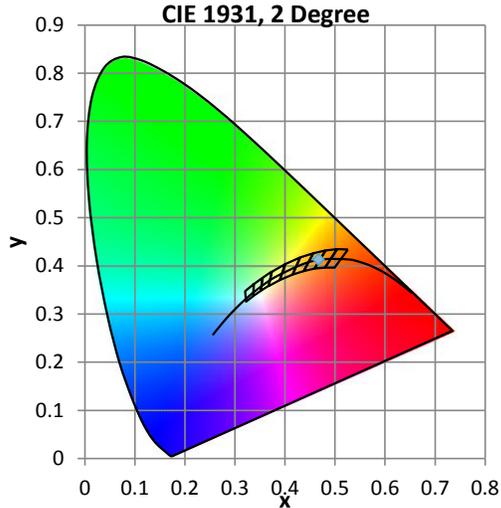
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	0.1237 A	13.43 W	0.904	60 Hz	44.1 %

Summary of Results

Total Output:	308 Lumens	Chromaticity (x):	0.4669
Efficacy:	23.0 lm/w	Chromaticity (y):	0.4134
CCT:	2624 K	Chromaticity (u'):	0.2658
CRI (Ra):	93.1	Chromaticity (v'):	0.5295
CRI (R9):	72.0	TM-30 R_f:	89.8
Peak Wavelength:	634.3 nm	TM-30 R_g:	102.9
Dominant Wavelength:	584.5 nm	Duv:	0.0004
S/P Ratio:	1.208		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
93.1	94.3	94.7	92.8	94.3	93.1	93.1	94.6	88.2	72.0	86.1	95.0	83.7	94.2	94.8

