



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

Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2015

Prepared For
B-K Lighting Inc
Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
SA-LED-X52-WW-9-2700K
Order Number
12406698
Test Number
12406698.01

Test Date

2018-08-28

Prepared By

Luis Torres, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal cylindrical housing with clear outer glass lens and inner plastic diffuse lens.
Lamp: One (1) white LED with optic attached
Mounting: Surface - Ground
Ballast/Driver: ERP ESS015W-0350-42

Luminaire



Summary of Results

Radiant Flux:	1466 mW
Luminous Flux:	475.3 lm
Luminaire Efficacy:	44.6 lm/W
CCT:	2822 K
CRI (Ra):	82.3
Chromaticity (x):	0.4502
Chromaticity (y):	0.4084
Chromaticity (u):	0.2572
Chromaticity (v):	0.3500
Duv:	0.0001

Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.09059 A
Power:	10.65 W
Power Factor:	0.980
Frequency:	60 Hz
Current THD:	17.8 %

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



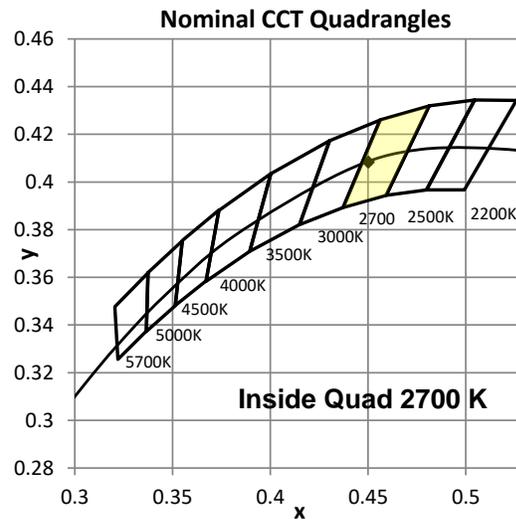
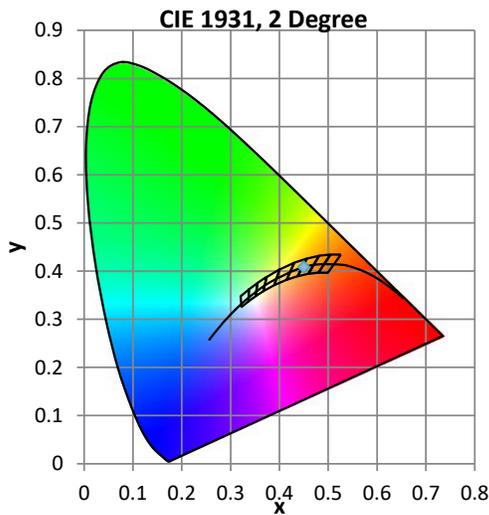
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.09059 A	10.65 W	0.980	60 Hz	17.8 %

Summary of Results

Total Output:	475 Lumens	Chromaticity (x):	0.4502
Efficacy:	44.6 lm/w	Chromaticity (y):	0.4084
CCT:	2822 K	Chromaticity (u'):	0.2572
CRI (Ra):	82.3	Chromaticity (v'):	0.5251
CRI (R9):	7.0	TM-30 Rf:	83.3
Peak Wavelength:	606 nm	TM-30 Rg:	95.9
Dominant Wavelength:	584 nm	Duv:	0.0001
S/P Ratio:	1.27		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.3	80.5	91.0	96.1	80.0	80.8	89.7	82.1	57.8	7.0	80.1	79.4	74.3	82.9	98.5	73.0

