



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 C78.377-2015, IES TM-30-2015

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

Catalog Number
CTB-LED-X53
Order Number
11943054
Test Number
11943054.05

Test Date

2017-09-07

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Decorative white metal housing, reflector, diffuse lens, and standing pole

Lamp: One (1) White LED

Mounting: Post

Ballast/Driver: One (1) Thomas research products LED12W120-036-CO350-LT

Luminaire



Summary of Results

Radiant Flux:	1494 mW
Luminous Flux:	498.9 lm
Luminaire Efficacy:	49.1 lm/W
CCT:	3029 K
CRI (Ra):	81.6
Chromaticity (x):	0.4371
Chromaticity (y):	0.4084
Chromaticity (u):	0.2489
Chromaticity (v):	0.3487
Duv:	0.0016

Test Conditions

Test Temperature:	24.3 °C
Voltage:	120.0 VAC
Current:	0.08570 A
Power:	10.15 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	15.2 %

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



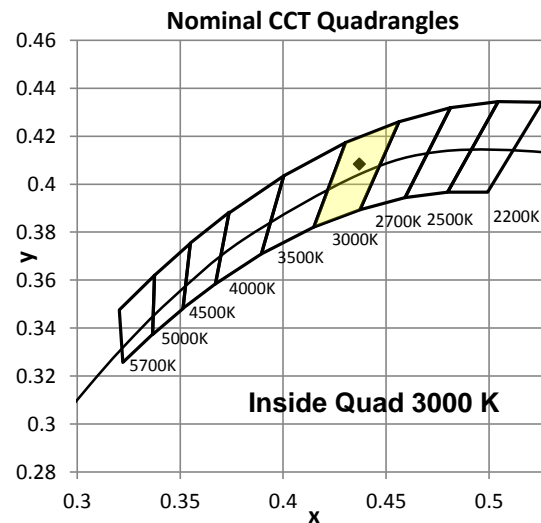
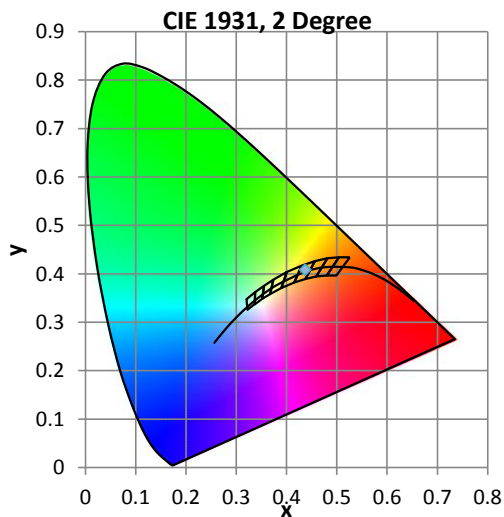
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.08570 A	10.15 W	0.987	60 Hz	15.2 %

Summary of Results

Total Output:	499 Lumens	Chromaticity (x):	0.4371
Efficacy:	49.1 lm/w	Chromaticity (y):	0.4084
CCT:	3029 K	Chromaticity (u'):	0.2489
CRI (Ra):	81.6	Chromaticity (v'):	0.5231
CRI (R9):	3.4	TM-30 Rf:	82.4
Peak Wavelength:	603.6 nm	TM-30 Rg:	94.6
Dominant Wavelength:	582.1 nm	Duv:	0.0016
S/P Ratio:	1.337		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.6	79.5	89.9	96.8	79.2	79.4	87.3	83.0	57.9	3.4	76.7	77.8	67.0	81.9	98.7

