



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
PRP-LED-e57-WHP-12
Order Number
11894916
Test Number
11894916.01

Test Date

2017-08-01

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: White metal shade/reflector, diffuse plastic lens, and metal base
Lamp: One (1) white LED with optic attached
Mounting: VBD
Ballast/Driver: One (1) TRE20

Luminaire



Summary of Results

Radiant Flux:	1079 mW
Luminous Flux:	352.5 lm
Luminaire Efficacy:	44.7 lm/W
CCT:	2590 K
CRI (Ra):	79.9
Chromaticity (x):	0.4748
Chromaticity (y):	0.4225
Chromaticity (u):	0.2667
Chromaticity (v):	0.3560
Duv:	0.0030

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.07103 A
Power:	7.878 W
Power Factor:	0.924
Frequency:	60 Hz
Current THD:	34.1 %

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



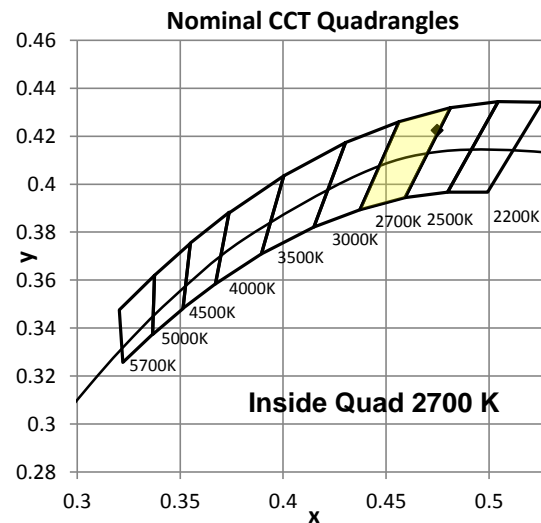
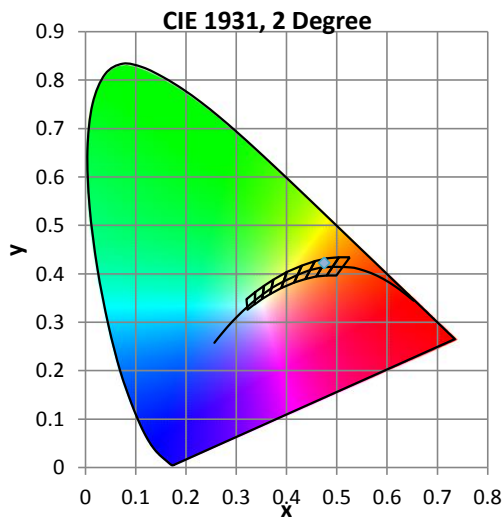
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.07103 A	7.878 W	0.924	60 Hz	34.1 %

Summary of Results

Total Output:	353 Lumens	Chromaticity (x):	0.4748
Efficacy:	44.7 lm/w	Chromaticity (y):	0.4225
CCT:	2590 K	Chromaticity (u'):	0.2667
CRI (Ra):	79.9	Chromaticity (v'):	0.5340
CRI (R9):	0.2	TM-30 Rf:	80.8
Peak Wavelength:	607.1 nm	TM-30 Rg:	96.1
Dominant Wavelength:	583.8 nm	Duv:	0.0030
S/P Ratio:	1.09		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79.9	77.3	87.3	97.3	78.4	76.6	84.6	82.6	55.1	0.2	71.6	77.0	67.0	79.0	98.3

