



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-30-2018

Prepared For
B-K Lighting Inc
Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636-9515
United States

Catalog Number
LT-12-A-LED-E70-2-2700K

Order Number

12592344

Test Number

12592344.11A

Revised Date:

2019-03-15

Test Date

2019-01-23

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Engineering Leader

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 cylindrical metal housing with cylindrical mounting base and plastic diffuse lens
Lamp: One (1) White LED
Lamp Catalog Number:
Mounting: VBD
Ballast/Driver: One (1) PowerSelect PS20U15K

Luminaire



Summary of Results

Radiant Flux:	419.4 mW
Luminous Flux:	135.4 lm
Luminaire Efficacy:	36.8 lm/W
CCT:	2666 K
CRI (Ra):	81.5
Chromaticity (x):	0.4627
Chromaticity (y):	0.4115
Chromaticity (u):	0.2639
Chromaticity (v):	0.3521
Duv:	0.0001

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.05518 A
Power:	3.681 W
Power Factor:	0.556
Frequency:	60 Hz
Current THD:	149 %

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



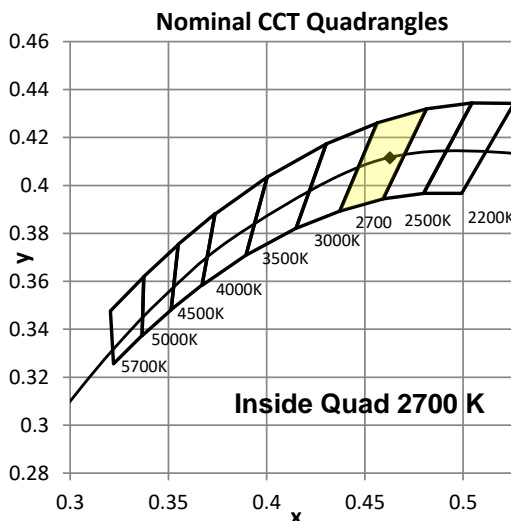
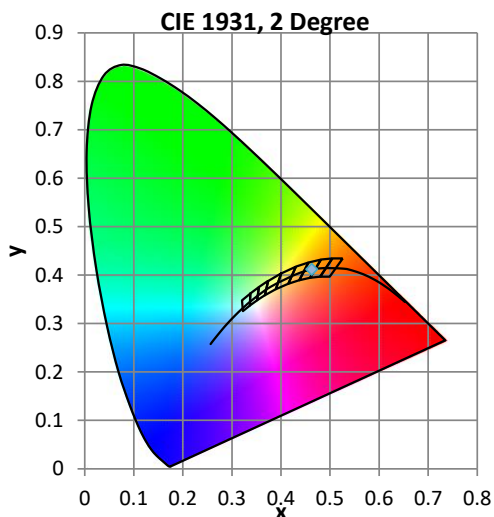
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.05518 A	3.681 W	0.556	60 Hz	149 %

Summary of Results

Total Output:	135 Lumens	Chromaticity (x):	0.4627
Efficacy:	36.8 lm/w	Chromaticity (y):	0.4115
CCT:	2666 K	Chromaticity (u'):	0.2639
CRI (Ra):	81.5	Chromaticity (v'):	0.5281
CRI (R9):	5.5	TM-30 Rf:	83.8
Peak Wavelength:	607 nm	TM-30 Rg:	96.8
Dominant Wavelength:	584 nm	Duv:	0.0001
S/P Ratio:	1.17		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	79.7	90.0	96.9	79.2	79.5	88.3	81.8	56.7	5.5	77.3	78.2	72.2	82.0	98.8	72.1

