



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-E72-2-4000K

Order Number

12592344

Test Number

12592344.14A

Revised Date:

2019-03-18

Test Date

2019-01-29

Prepared By

Khang Nguyen, 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 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:	455.1 mW
Luminous Flux:	150.7 lm
Luminaire Efficacy:	40.9 lm/W
CCT:	3763 K
CRI (Ra):	81.1
Chromaticity (x):	0.3936
Chromaticity (y):	0.3903
Chromaticity (u):	0.2283
Chromaticity (v):	0.3396
Duv:	0.0022

Test Conditions

Test Temperature:	24.0 °C
Voltage:	120.1 VAC
Current:	0.05473 A
Power:	3.680 W
Power Factor:	0.560
Frequency:	60 Hz
Current THD:	147 %

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



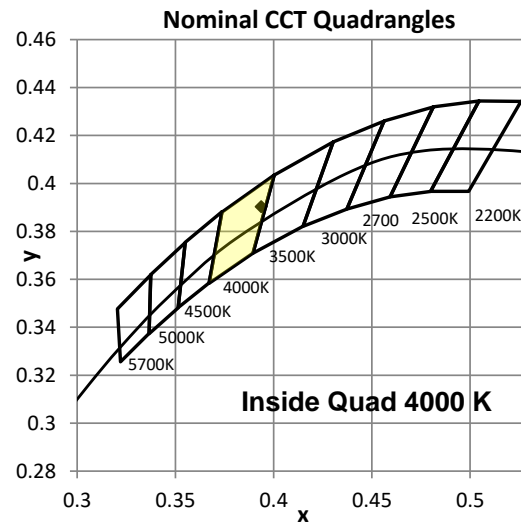
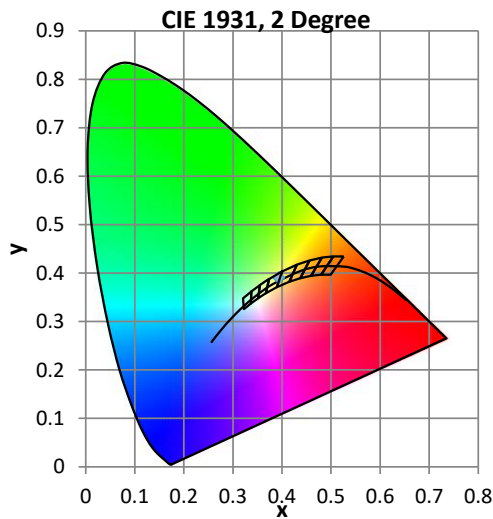
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.1 VAC	0.05473 A	3.680 W	0.560	60 Hz	147 %

Summary of Results

Total Output:	151 Lumens	Chromaticity (x):	0.3936
Efficacy:	40.9 lm/w	Chromaticity (y):	0.3903
CCT:	3763 K	Chromaticity (u'):	0.2283
CRI (Ra):	81.1	Chromaticity (v'):	0.5094
CRI (R9):	7.2	TM-30 Rf:	83.2
Peak Wavelength:	595 nm	TM-30 Rg:	96.9
Dominant Wavelength:	579 nm	Duv:	0.0022
S/P Ratio:	1.56		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.1	79.2	85.9	91.6	81.3	79.0	80.8	86.5	64.7	7.2	66.7	79.7	59.7	80.4	95.1	72.9

