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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
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United States

Catalog Number
LT-12-A-LED-E71-1-3000K

Order Number

12592344

Test Number

12592344.03A

Revised Date:

2019-03-15

Test Date

2019-01-23

Prepared By

Khang Nguyen, Technician

Approved By

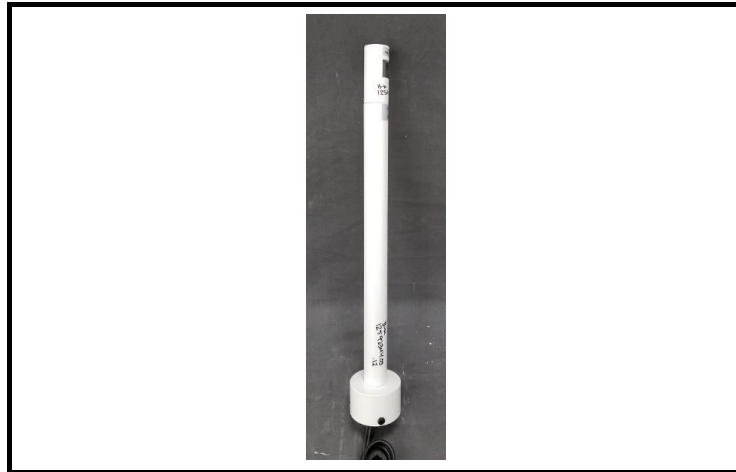
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with cylindrical mounting base and plastic diffuse lens
Lamp: One (1) White LED
Mounting: VBD
Ballast/Driver: One (1) PowerSelect PS20U15K

Luminaire



Summary of Results

Radiant Flux:	234.6 mW
Luminous Flux:	76.3 lm
Luminaire Efficacy:	20.8 lm/W
CCT:	2909 K
CRI (Ra):	81.6
Chromaticity (x):	0.4424
Chromaticity (y):	0.4041
Chromaticity (u):	0.2541
Chromaticity (v):	0.3481
Duv:	-0.0011

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.05517 A
Power:	3.675 W
Power Factor:	0.555
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.



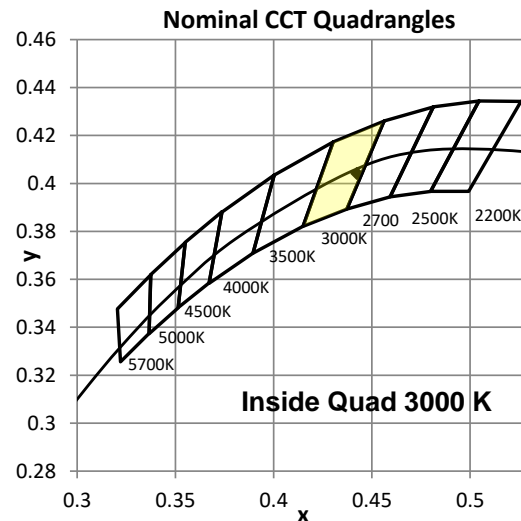
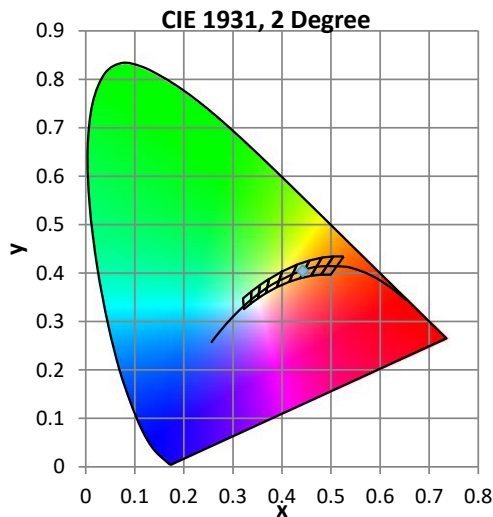
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.05517 A	3.675 W	0.555	60 Hz	149 %

Summary of Results

Total Output:	76 Lumens	Chromaticity (x):	0.4424
Efficacy:	20.8 lm/w	Chromaticity (y):	0.4041
CCT:	2909 K	Chromaticity (u'):	0.2541
CRI (Ra):	81.6	Chromaticity (v'):	0.5222
CRI (R9):	7.2	TM-30 Rf:	82.6
Peak Wavelength:	606 nm	TM-30 Rg:	98.3
Dominant Wavelength:	584 nm	Duv:	-0.0011
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
81.6	79.9	88.7	95.9	80.3	79.6	85.7	83.2	59.4	7.2	73.9	79.3	69.5	81.7	97.6	72.9

