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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-E72-2-3000K

Order Number
12592344

Test Number
12592344.20A

Revised Date:
2019-02-20
Test Date

2019-02-05

Prepared By

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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:	426.5 mW
Luminous Flux:	137.9 lm
Luminaire Efficacy:	37.8 lm/W
CCT:	2882 K
CRI (Ra):	82.1
Chromaticity (x):	0.4441
Chromaticity (y):	0.4043
Chromaticity (u):	0.2551
Chromaticity (v):	0.3484
Duv:	-0.0013

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.1 VAC
Current:	0.05430 A
Power:	3.647 W
Power Factor:	0.559
Frequency:	60 Hz
Current THD:	148 %

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



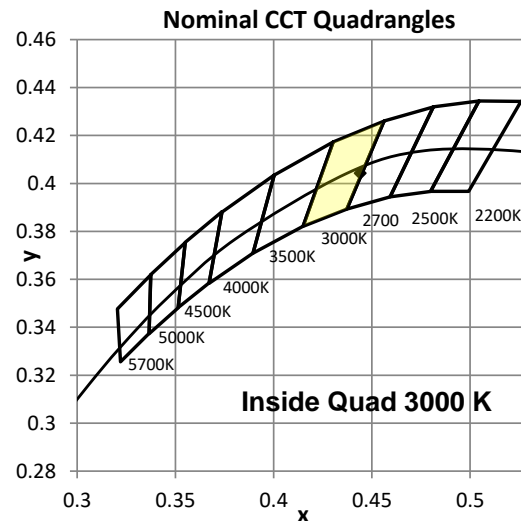
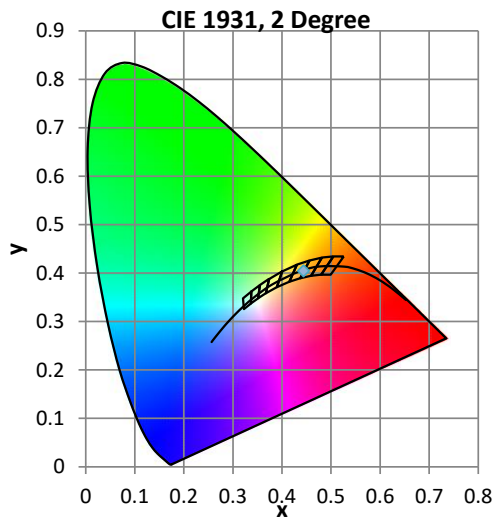
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.05430 A	3.647 W	0.559	60 Hz	148 %

Summary of Results

Total Output:	138 Lumens	Chromaticity (x):	0.4441
Efficacy:	37.8 lm/w	Chromaticity (y):	0.4043
CCT:	2882 K	Chromaticity (u'):	0.2551
CRI (Ra):	82.1	Chromaticity (v'):	0.5225
CRI (R9):	9.7	TM-30 Rf:	82.9
Peak Wavelength:	607 nm	TM-30 Rg:	98.5
Dominant Wavelength:	584 nm	Duv:	-0.0013
S/P Ratio:	1.26		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.1	80.5	89.1	96.0	80.8	80.1	86.2	83.5	60.3	9.7	74.7	79.8	69.8	82.3	97.6	73.9

