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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
HP2-LED-TR-C27-SP-9-3000K, CO2-LED-TR-C27-SP-9-3000K

Order Number

12531784

Test Number

12531784.03A

Revised:

2019-02-01

Test Date

2019-01-17

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black plastic housing and glass lens
Lamp: One (1) LED with specular reflector attached
Mounting: Surface – Wall
Ballast/Driver: One (1) Efore Strato RSLP070-24

Luminaire



Summary of Results

Radiant Flux:	4286 mW
Luminous Flux:	1369 lm
Luminaire Efficacy:	40.0 lm/W
CCT:	3175 K
CRI (Ra):	97.2
Chromaticity (x):	0.4266
Chromaticity (y):	0.4035
Chromaticity (u):	0.2441
Chromaticity (v):	0.3464
Duv:	0.0010

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2926 A
Power:	34.23 W
Power Factor:	0.975
Frequency:	60 Hz
Current THD:	16.7 %

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



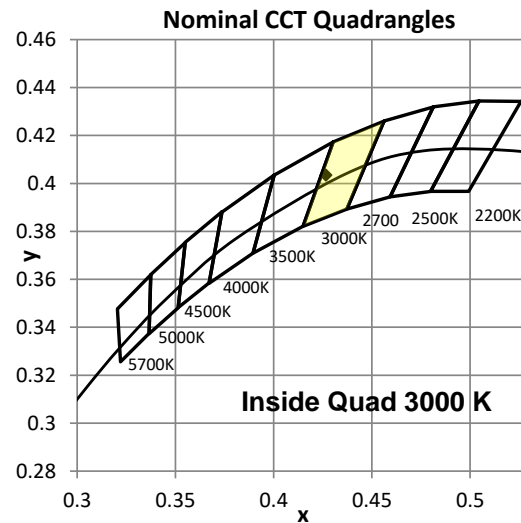
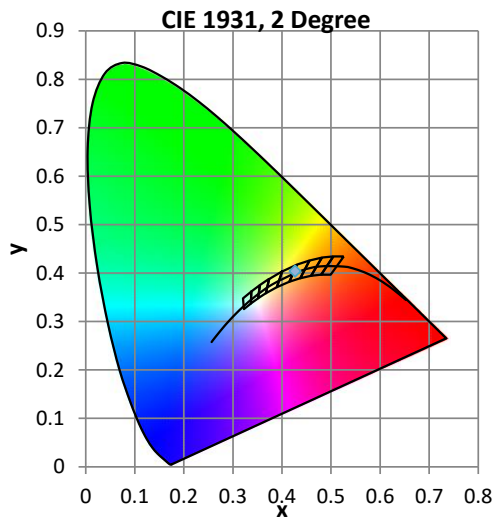
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2926 A	34.23 W	0.975	60 Hz	16.7 %

Summary of Results

Total Output:	1369 Lumens	Chromaticity (x):	0.4266
Efficacy:	40.0 lm/w	Chromaticity (y):	0.4035
CCT:	3175 K	Chromaticity (u'):	0.2441
CRI (Ra):	97.2	Chromaticity (v'):	0.5196
CRI (R9):	98.4	TM-30 Rf:	94.3
Peak Wavelength:	636 nm	TM-30 Rg:	99.3
Dominant Wavelength:	582 nm	Duv:	0.0010
S/P Ratio:	1.59		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	98.0	97.9	98.2	96.8	96.8	93.8	97.4	98.7	98.4	95.0	93.2	92.4	98.0	98.8	99.3

