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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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Catalog Number
HP2-LED-TR-C27-SP-9-2700K, CO2-LED-TR-C27-SP-9-2700K

Order Number

12531784

Test Number

12531784.01A

Revised:

2019-02-01

Test Date

2019-01-16

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:	3980 mW
Luminous Flux:	1273 lm
Luminaire Efficacy:	41.7 lm/W
CCT:	2908 K
CRI (Ra):	97.2
Chromaticity (x):	0.4402
Chromaticity (y):	0.3997
Chromaticity (u):	0.2546
Chromaticity (v):	0.3468
Duv:	-0.0025

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.2621 A
Power:	30.54 W
Power Factor:	0.971
Frequency:	60 Hz
Current THD:	18.2 %

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



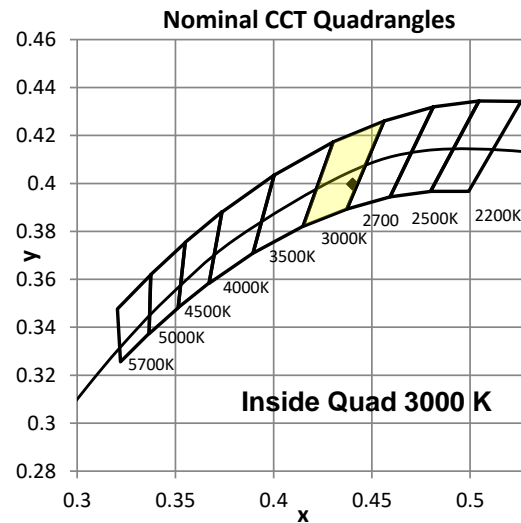
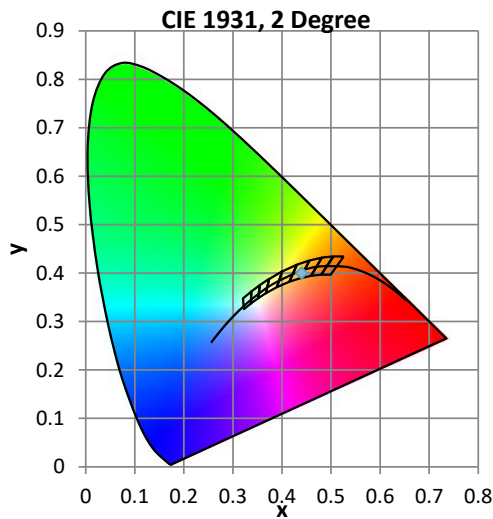
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.2621 A	30.54 W	0.971	60 Hz	18.2 %

Summary of Results

Total Output:	1273 Lumens	Chromaticity (x):	0.4402
Efficacy:	41.7 lm/w	Chromaticity (y):	0.3997
CCT:	2908 K	Chromaticity (u'):	0.2546
CRI (Ra):	97.2	Chromaticity (v'):	0.5201
CRI (R9):	93.8	TM-30 Rf:	94.7
Peak Wavelength:	635 nm	TM-30 Rg:	102.3
Dominant Wavelength:	584 nm	Duv:	-0.0025
S/P Ratio:	1.45		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	98.6	98.6	98.7	96.7	97.5	94.4	96.0	96.8	93.8	98.1	93.6	93.9	98.8	98.0	99.3

