



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
HP2-LED-TR-C27-SP-9-4000K, CO2-LED-TR-C27-SP-9-4000K

Order Number

12531784

Test Number

12531784.05A

Revised:

2019-02-01

Test Date

2019-01-17

Prepared By

Luis Torres, 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: 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:	4360 mW
Luminous Flux:	1384 lm
Luminaire Efficacy:	39.1 lm/W
CCT:	4232 K
CRI (Ra):	92.3
Chromaticity (x):	0.3720
Chromaticity (y):	0.3766
Chromaticity (u):	0.2197
Chromaticity (v):	0.3335
Duv:	0.0022

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.3021 A
Power:	35.39 W
Power Factor:	0.976
Frequency:	60 Hz
Current THD:	16.3 %

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



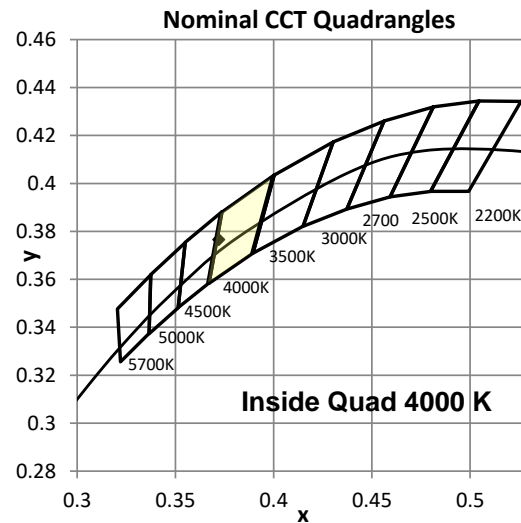
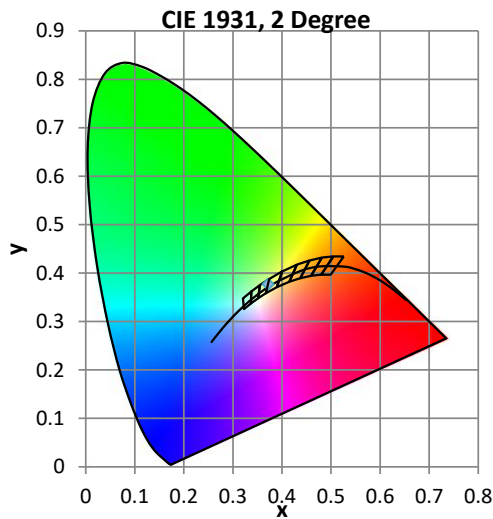
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.3021 A	35.39 W	0.976	60 Hz	16.3 %

Summary of Results

Total Output:	1384 Lumens	Chromaticity (x):	0.3720
Efficacy:	39.1 lm/w	Chromaticity (y):	0.3766
CCT:	4232 K	Chromaticity (u'):	0.2197
CRI (Ra):	92.3	Chromaticity (v'):	0.5003
CRI (R9):	56.8	TM-30 Rf:	92
Peak Wavelength:	635 nm	TM-30 Rg:	96.3
Dominant Wavelength:	577 nm	Duv:	0.0022
S/P Ratio:	1.91		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.3	91.5	97.6	95.8	90.7	92.7	97.1	91.4	81.9	56.8	95.2	91.8	88.9	93.1	97.7	86.9

