



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-30-2015

Prepared For
B-K LIGHTING INC

DANIEL CARREJO
40429 BRICKYARD DR.
MADERA, CA 93636-9515
UNITED STATES

Catalog Number
SM-APII-LED-C26-BW-12-3000K

Order Number

12498442

Test Number

12498442.03A

Revised:

2018-11-19

Test Date

2018-11-09

Prepared By

William Escobar, 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 diffuse lens and plastic patterned optic
Lamp: One (1) Luminetix CTM1C19 16-80K 2000L 35W 24V module with diffuse lens and specular reflector
Mounting: Surface – Ceiling
Ballast/Driver: One (1) Efore Strato RSLP070-24

Luminaire



Summary of Results

Radiant Flux:	3716 mW
Luminous Flux:	1172 lm
Luminaire Efficacy:	39.8 lm/W
CCT:	2925 K
CRI (Ra):	95.5
Chromaticity (x):	0.4428
Chromaticity (y):	0.4070
Chromaticity (u):	0.2531
Chromaticity (v):	0.3489
Duv:	0.0001

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.2534 A
Power:	29.44 W
Power Factor:	0.968
Frequency:	60 Hz
Current THD:	18.5 %

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



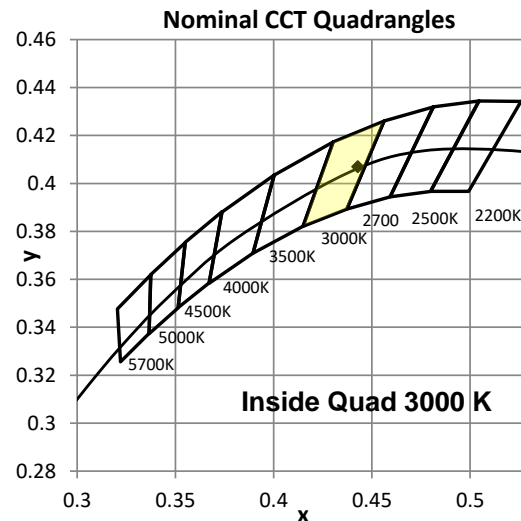
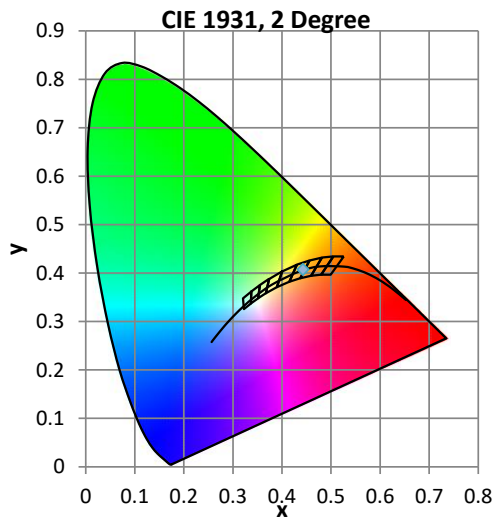
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.2534 A	29.44 W	0.968	60 Hz	18.5 %

Summary of Results

Total Output:	1172 Lumens	Chromaticity (x):	0.4428
Efficacy:	39.8 lm/w	Chromaticity (y):	0.4070
CCT:	2925 K	Chromaticity (u'):	0.2531
CRI (Ra):	95.5	Chromaticity (v'):	0.5234
CRI (R9):	92.4	TM-30 Rf:	93.2
Peak Wavelength:	641 nm	TM-30 Rg:	103.4
Dominant Wavelength:	583 nm	Duv:	0.0001
S/P Ratio:	1.38		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.5	98.8	96.4	90.0	95.8	97.8	95.2	95.6	94.4	92.4	89.6	95.4	88.4	97.7	93.1	99.2

