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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, 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
YK-D-LED-A3080-WHP-H-SD-010-MT-PROTOTYPE(3000K)

Order Number

13280109

Test Number

13280109.02

Test Date

2020-03-23

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: Black plastic rectangular housing and white metal faceplate with clear glass lens
Lamp: 24 White LEDs with diffuse plastic film
Mounting: Recessed
Ballast/Driver: ESS015W-0350-42

Luminaire



Summary of Results

Radiant Flux:	985.1 mW
Luminous Flux:	324.4 lm
Luminaire Efficacy:	33.9 lm/W
CCT:	3061 K
CRI (Ra):	81.0
Chromaticity (x):	0.4311
Chromaticity (y):	0.3995
Chromaticity (u):	0.2488
Chromaticity (v):	0.3458
Duv:	-0.0010

Test Conditions

Test Temperature:	25.7 °C
Voltage:	120.0 VAC
Current:	0.08129 A
Power:	9.561 W
Power Factor:	0.980
Frequency:	60 Hz
Current THD:	9.57 %

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



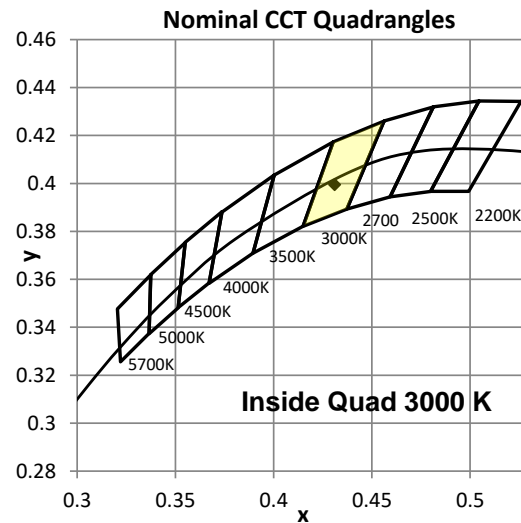
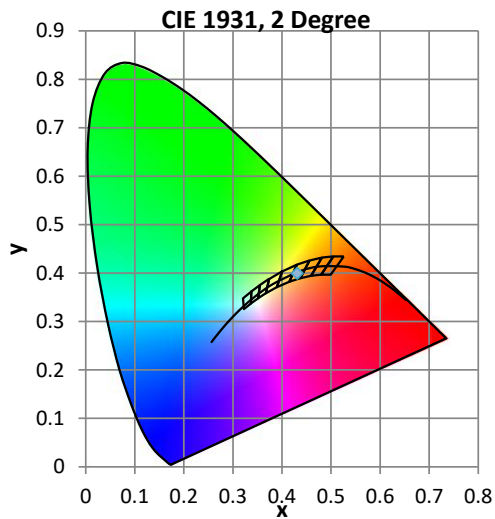
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	120.0 VAC	0.08129 A	9.561 W	0.980	60 Hz	9.57 %

Summary of Results

Total Output:	324 Lumens	Chromaticity (x):	0.4311
Efficacy:	33.9 lm/w	Chromaticity (y):	0.3995
CCT:	3061 K	Chromaticity (u'):	0.2488
CRI (Ra):	81.0	Chromaticity (v'):	0.5187
CRI (R9):	0.8	TM-30 Rf:	83.5
Peak Wavelength:	603 nm	TM-30 Rg:	95.2
Dominant Wavelength:	583 nm	Duv:	-0.0010
S/P Ratio:	1.36		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.0	79.2	90.6	95.4	77.8	79.4	88.1	81.2	56.1	0.8	78.3	76.2	69.8	81.9	98.1	71.8

