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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-I-LED-A3080-WHP-SD-B1-010-MT-PROTOTYPE(3000K w/ Steps)
Order Number
13280094
Test Number
13280094.02

Test Date

2020-04-16

Prepared By

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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 rectangular plastic housing with white metal step reflector, clear glass lens, and diffuse plastic film
Lamp: 24 White LEDs
Mounting: Recessed
Ballast/Driver: ERP ESS015W-0440-25

Luminaire



Summary of Results

Radiant Flux:	1177 mW
Luminous Flux:	390.5 lm
Luminaire Efficacy:	32.7 lm/W
CCT:	3136 K
CRI (Ra):	80.7
Chromaticity (x):	0.4276
Chromaticity (y):	0.4009
Chromaticity (u):	0.2459
Chromaticity (v):	0.3458
Duv:	0.0003

Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.1010 A
Power:	11.95 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	13.7 %

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



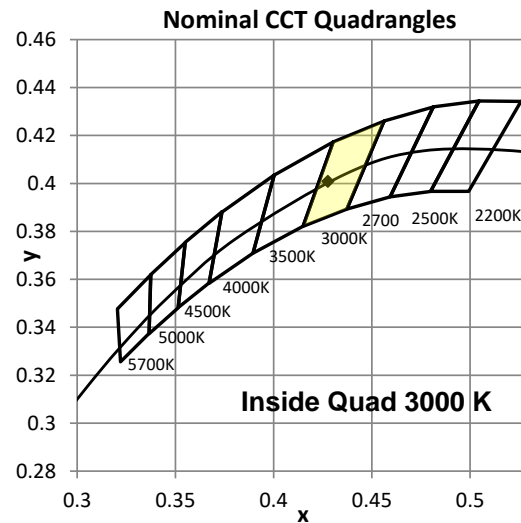
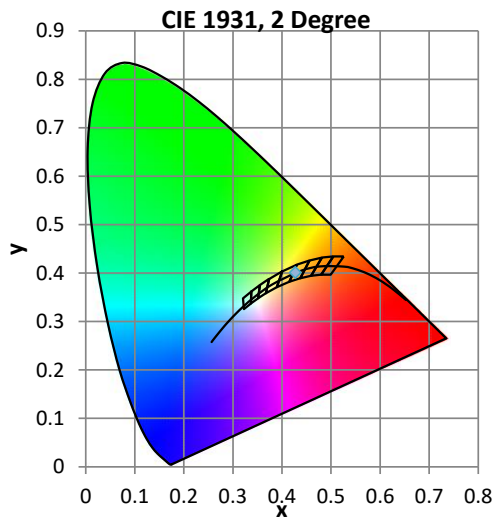
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.1010 A	11.95 W	0.985	60 Hz	13.7 %

Summary of Results

Total Output:	391 Lumens	Chromaticity (x):	0.4276
Efficacy:	32.7 lm/w	Chromaticity (y):	0.4009
CCT:	3136 K	Chromaticity (u'):	0.2459
CRI (Ra):	80.7	Chromaticity (v'):	0.5187
CRI (R9):	-0.7	TM-30 Rf:	83.3
Peak Wavelength:	599 nm	TM-30 Rg:	93.9
Dominant Wavelength:	582 nm	Duv:	0.0003
S/P Ratio:	1.39		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.7	78.7	90.4	95.4	77.1	78.8	87.7	81.4	56.0	-0.7	77.8	75.0	67.7	81.6	98.1	71.2

