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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-A3580-WHP-H-SD-010-MT-PROTOTYPE(3500K)

Order Number

13280109

Test Number

13280109.03

Test Date

2020-03-19

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 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:	1051 mW
Luminous Flux:	346.7 lm
Luminaire Efficacy:	36.1 lm/W
CCT:	3468 K
CRI (Ra):	82.0
Chromaticity (x):	0.4057
Chromaticity (y):	0.3882
Chromaticity (u):	0.2370
Chromaticity (v):	0.3402
Duv:	-0.0015

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.08150 A
Power:	9.610 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	11.4 %

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



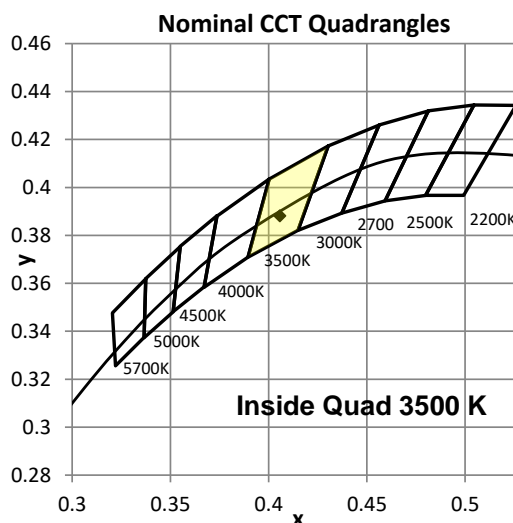
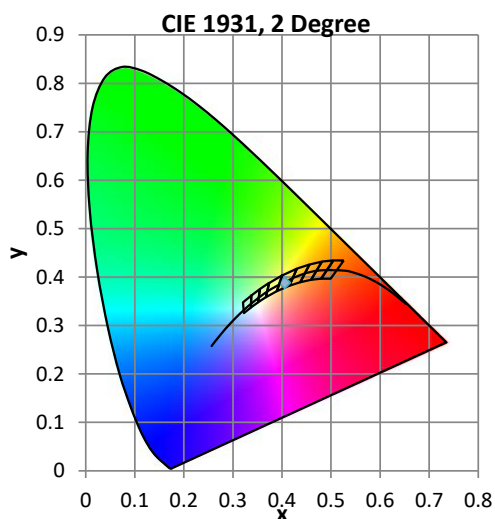
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.08150 A	9.610 W	0.983	60 Hz	11.4 %

Summary of Results

Total Output:	347 Lumens	Chromaticity (x):	0.4057
Efficacy:	36.1 lm/w	Chromaticity (y):	0.3882
CCT:	3468 K	Chromaticity (u'):	0.2370
CRI (Ra):	82.0	Chromaticity (v'):	0.5103
CRI (R9):	4.0	TM-30 Rf:	83.5
Peak Wavelength:	596 nm	TM-30 Rg:	94.6
Dominant Wavelength:	582 nm	Duv:	-0.0015
S/P Ratio:	1.53		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.0	80.3	90.6	95.7	79.2	80.5	87.1	83.0	59.6	4.0	77.7	77.6	66.1	82.9	98.3	73.8

