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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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Catalog Number
HU-LED-TR-X115-NFL-WHP-9-C-1-INC-120-PROTOTYPE(3500K)

Order Number

13244408

Test Number

13244408.09B

Revised Date:

2020-03-17

Test Date

2020-03-02

Prepared By

Khang Nguyen, Technician

Approved By

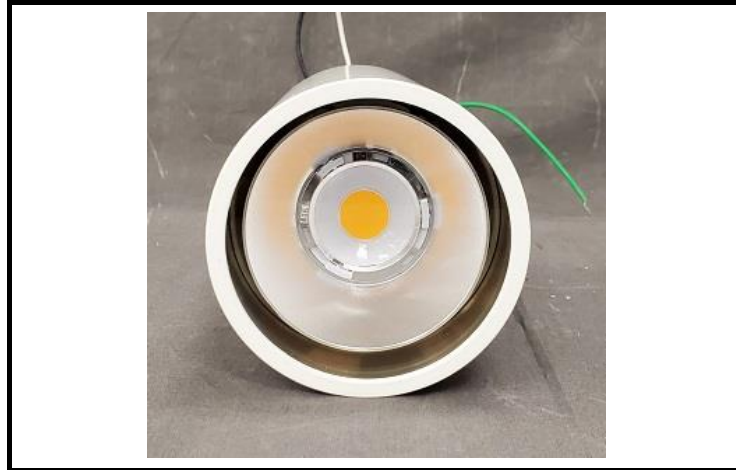
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal cylindrical housing and clear glass lens
Lamp: One (1) White LED with optic below
Mounting: Pendant
Ballast/Driver: One (1) ERP ESS040W-0900-42

Luminaire



Summary of Results

Radiant Flux:	11390 mW
Luminous Flux:	3715 lm
Luminaire Efficacy:	108.5 lm/W
CCT:	3611 K
CRI (Ra):	83.2
Chromaticity (x):	0.3984
Chromaticity (y):	0.3855
Chromaticity (u):	0.2333
Chromaticity (v):	0.3387
Duv:	0.0008

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.2900 A
Power:	34.25 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	11.9 %

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



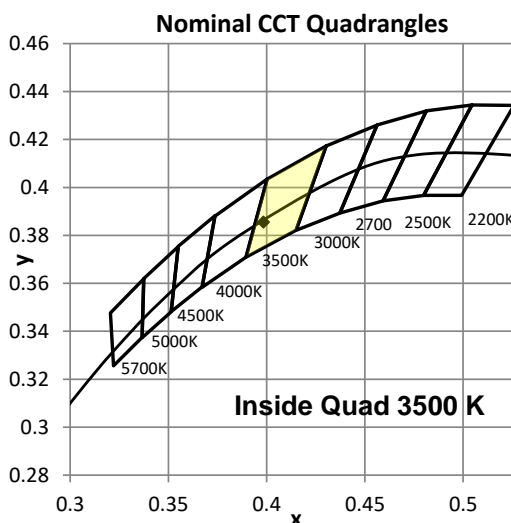
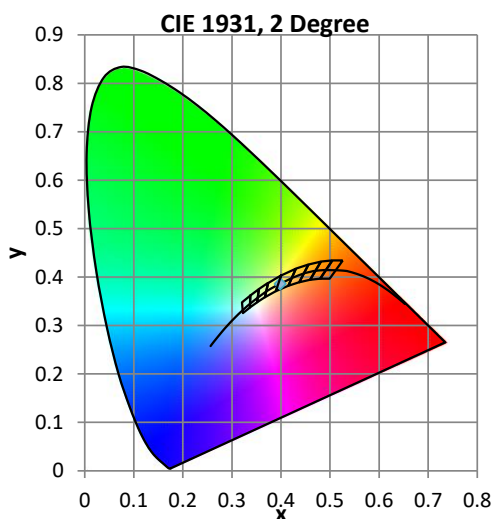
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2900 A	34.25 W	0.984	60 Hz	11.9 %

Summary of Results

Total Output:	3715 Lumens	Chromaticity (x):	0.3984
Efficacy:	108.5 lm/w	Chromaticity (y):	0.3855
CCT:	3611 K	Chromaticity (u'):	0.2333
CRI (Ra):	83.2	Chromaticity (v'):	0.5080
CRI (R9):	11.0	TM-30 Rf:	84.7
Peak Wavelength:	599 nm	TM-30 Rg:	95.8
Dominant Wavelength:	581 nm	Duv:	0.0008
S/P Ratio:	1.57		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.2	81.6	90.3	95.8	81.3	81.7	86.6	85.1	63.6	11.0	76.7	79.9	67.1	83.7	97.9	75.8

