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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-X113-NFL-WHP-9-C-1-INC-120-PROTOTYPE(2700K)

Order Number

13244408

Test Number

13244408.07B

Revised Date:

2020-03-17

Test Date

2020-02-03

Prepared By

Khang Nguyen, Technician

Approved By

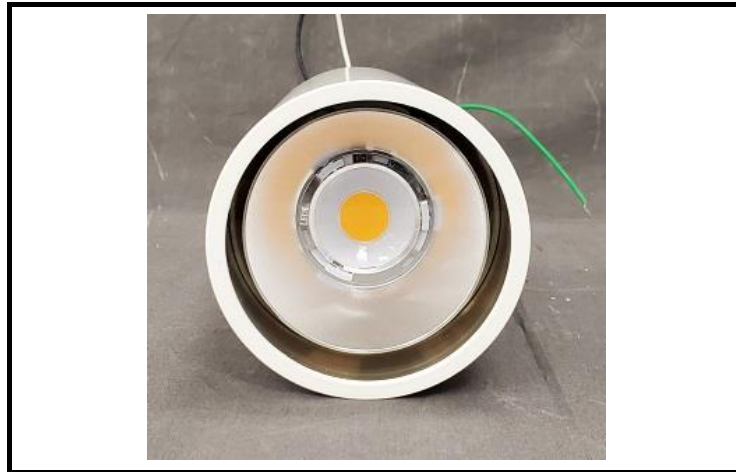
Eric Gaudreau, Engineering Leader

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:	10900 mW
Luminous Flux:	3473 lm
Luminaire Efficacy:	101.9 lm/W
CCT:	2795 K
CRI (Ra):	82.8
Chromaticity (x):	0.4474
Chromaticity (y):	0.3997
Chromaticity (u):	0.2593
Chromaticity (v):	0.3475
Duv:	-0.0030

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2888 A
Power:	34.08 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	12.8 %

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



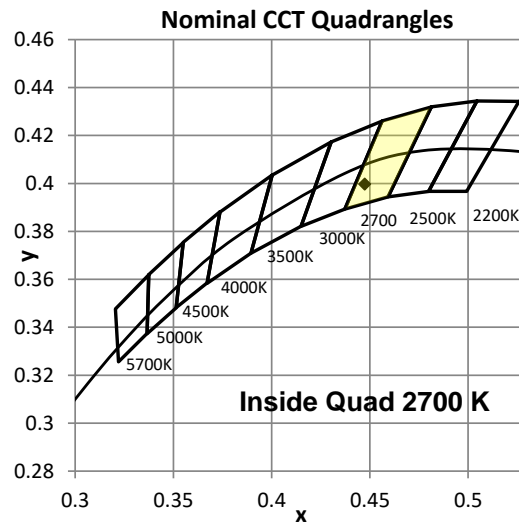
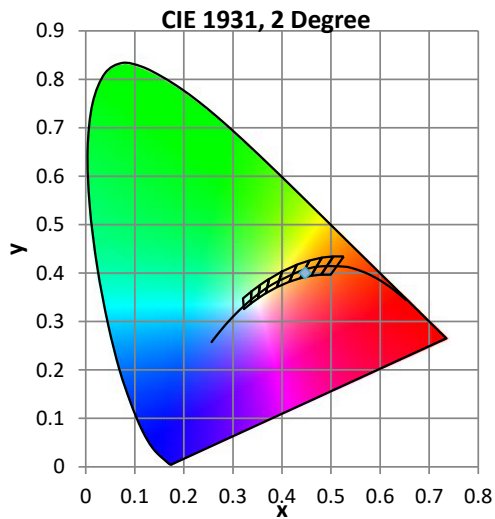
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2888 A	34.08 W	0.984	60 Hz	12.8 %

Summary of Results

Total Output:	3473 Lumens	Chromaticity (x):	0.4474
Efficacy:	101.9 lm/w	Chromaticity (y):	0.3997
CCT:	2795 K	Chromaticity (u'):	0.2593
CRI (Ra):	82.8	Chromaticity (v'):	0.5212
CRI (R9):	10.5	TM-30 Rf:	84.8
Peak Wavelength:	606 nm	TM-30 Rg:	96.8
Dominant Wavelength:	585 nm	Duv:	-0.0030
S/P Ratio:	1.29		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.8	82.1	93.1	93.9	80.1	82.7	92.1	80.6	58.1	10.5	84.6	79.7	78.5	84.9	97.5	74.9

