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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-X106-NSP-WHP-9-C-1-INC-120-PROTOTYPE(3000K)

Order Number
13318635
Test Number
13318635.02

Test Date

2020-05-12

Prepared By

Austin Duff, Technician

Approved By

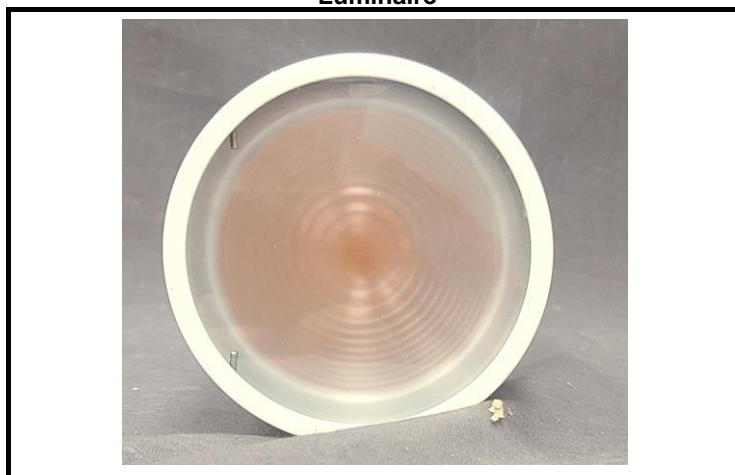
Eric Gaudreau, Engineering Leader

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 ESST040W-0900-42

Luminaire



Summary of Results

Radiant Flux:	5322 mW
Luminous Flux:	1750 lm
Luminaire Efficacy:	49.0 lm/W
CCT:	3121 K
CRI (Ra):	82.2
Chromaticity (x):	0.4283
Chromaticity (y):	0.4007
Chromaticity (u):	0.2464
Chromaticity (v):	0.3458
Duv:	0.0005

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.3010 A
Power:	35.69 W
Power Factor:	0.987
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.



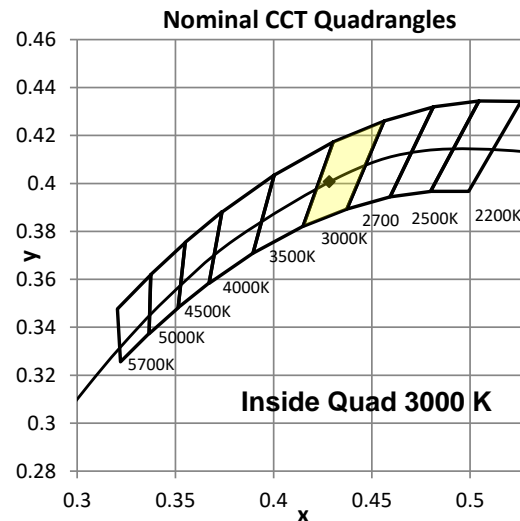
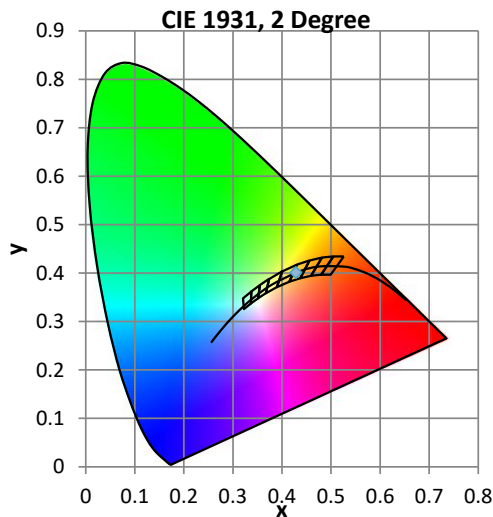
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.3010 A	35.69 W	0.987	60 Hz	11.4 %

Summary of Results

Total Output:	1750 Lumens	Chromaticity (x):	0.4283
Efficacy:	49.0 lm/w	Chromaticity (y):	0.4007
CCT:	3121 K	Chromaticity (u'):	0.2464
CRI (Ra):	82.2	Chromaticity (v'):	0.5188
CRI (R9):	7.2	TM-30 Rf:	84
Peak Wavelength:	604 nm	TM-30 Rg:	97.2
Dominant Wavelength:	582 nm	Duv:	0.0005
S/P Ratio:	1.37		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.2	80.6	89.3	96.2	80.8	80.4	86.3	83.9	60.3	7.2	75.2	79.8	67.6	82.5	97.9	73.6

