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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

Daniel Carrejo
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United States

Catalog Number

DI-LED-TR-e152-7°-VNSP-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.16

Test Date

2022-12-15

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular white metal housing with glass lens
Lamp: One (1) LED
Mounting: Pendant
Ballast/Driver: Integrated

Luminaire



Summary of Results

Radiant Flux:	1421 mW
Luminous Flux:	460.8 lm
Luminaire Efficacy:	48.3 lm/W
CCT:	3638 K
CRI (Ra):	80.5
Chromaticity (x):	0.3970
Chromaticity (y):	0.3847
Chromaticity (u):	0.2328
Chromaticity (v):	0.3383
Duv:	-0.0015

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.08205 A
Power:	9.542 W
Power Factor:	0.969
Frequency:	60 Hz
Current THD:	21.9 %

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

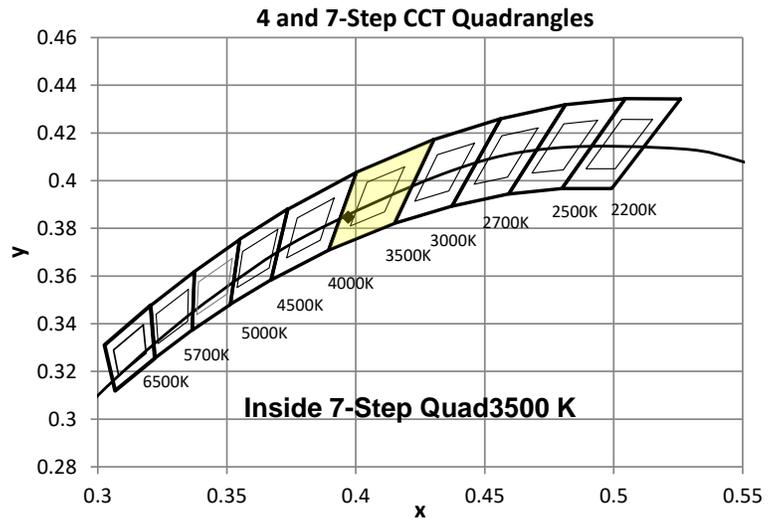
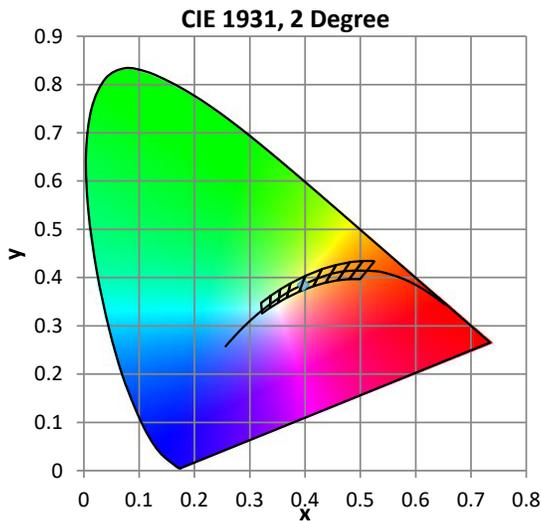
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.08205 A	9.542 W	0.969	60 Hz	21.9 %

Summary of Results

Total Output:	461 Lumens	Chromaticity (x):	0.3970
Efficacy:	48.3 lm/w	Chromaticity (y):	0.3847
CCT:	3638 K	Chromaticity (u'):	0.2328
CRI (Ra):	80.5	Chromaticity (v'):	0.5075
CRI (R9):	6.5	TM-30 Rf:	81
Peak Wavelength:	597 nm	TM-30 Rg:	99
Dominant Wavelength:	581 nm	TM-30 Rcs,h1:	-12%
S/P Ratio:	1.51	Duv:	-0.0008
M/P Ratio:	0.58 WELL Building Standard v2		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.5	79.1	85.4	90.7	81.0	79.2	80.6	84.5	63.6	6.5	65.8	80.1	65.2	79.9	94.5	72.8

