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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For
B-K LIGHTING INC

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United States

Represented Catalog Numbers

SCP-12-LED-e66-12-SP, CAF-12-LED-e66-12-SP, CTF-12-LED-e66-12-SP

Tested Catalog Number
RGP-12-LED-e66-12-SP

Order Number
11904577
Test Number
11904577.05

Test Date

2017-08-09

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal circular housing with glass prismatic lens
Lamp: Three (3) White LED with optic below each
Mounting: Surface
Ballast/Driver: TRE20

Luminaire



Summary of Results

Radiant Flux:	1462 mW
Luminous Flux:	480.7 lm
Luminaire Efficacy:	59.5 lm/W
CCT:	3744 K
CRI (Ra):	81.6
Chromaticity (x):	0.3935
Chromaticity (y):	0.3876
Chromaticity (u):	0.2293
Chromaticity (v):	0.3388
Duv:	0.0010

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.1124 A
Power:	8.073 W
Power Factor:	0.598
Frequency:	60 Hz
Current THD:	129 %

Testing was performed in a 3-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



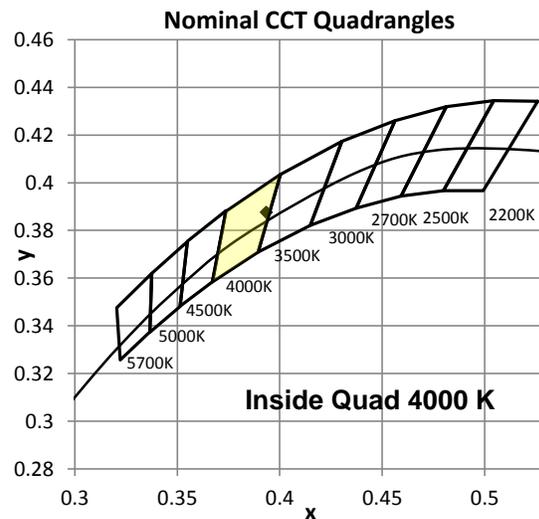
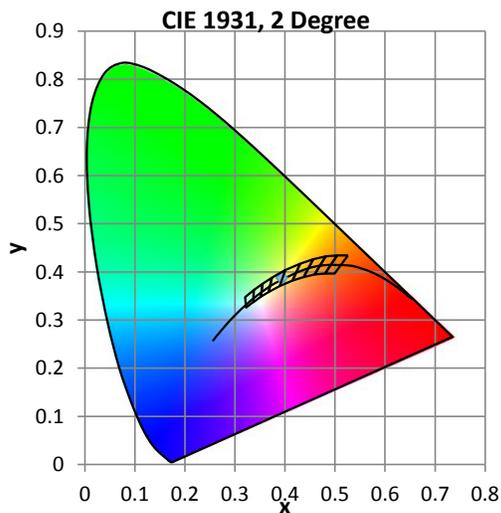
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.1124 A	8.073 W	0.598	60 Hz	129 %

Summary of Results

Total Output:	481 Lumens	Chromaticity (x):	0.3935
Efficacy:	59.5 lm/w	Chromaticity (y):	0.3876
CCT:	3744 K	Chromaticity (u'):	0.2293
CRI (Ra):	81.6	Chromaticity (v'):	0.5082
CRI (R9):	13.0	TM-30 Rf:	80.7
Peak Wavelength:	447.4 nm	TM-30 Rg:	98.4
Dominant Wavelength:	579.3 nm	Duv:	0.0010
S/P Ratio:	1.548		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.6	80.5	85.8	90.1	82.4	80.0	80.6	86.7	66.9	13.0	66.3	81.3	60.1	81.2	94.1

