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Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For
RLE Industries
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Catalog Number
OS4 4000K
Order Number
11524480
Test Number
11524880.10

Test Date

2017-01-12

Prepared By

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Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White aluminum housing, white aluminum reflectors, no enclosure
Lamp: 192 white LEDs, four boards with 48 LEDs each
Mounting: Pendant
Ballast/Driver: One Philips Advance Xitanium XI075C200V054BST1

Luminaire



Summary of Results

Radiant Flux:	14790 mW
Luminous Flux:	4867 lm
Luminaire Efficacy:	78.8 lm/W
CCT:	4104 K
CRI (Ra):	82.7
Chromaticity (x):	0.3767
Chromaticity (y):	0.3773
Chromaticity (u):	0.2224
Chromaticity (v):	0.3342
Duv:	0.0009

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.5165 A
Power:	61.76 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	8.14 %

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



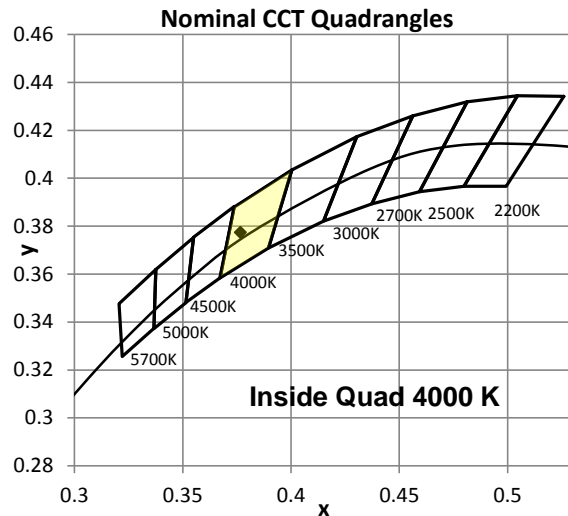
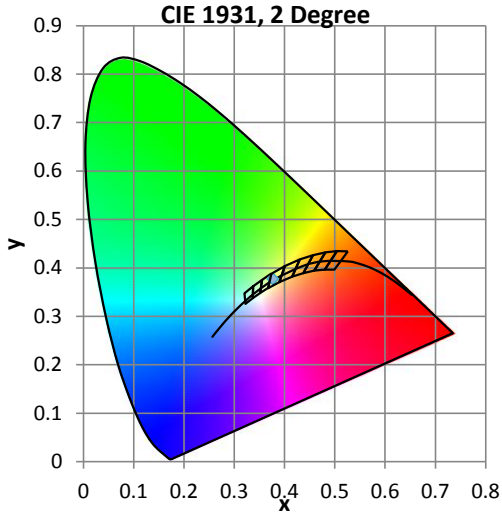
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.5165 A	61.76 W	0.996	60 Hz	8.14 %

Summary of Results

Total Output:	4867 Lumens	Chromaticity (x):	0.3767
Efficacy:	78.8 lm/w	Chromaticity (y):	0.3773
CCT:	4104 K	Chromaticity (u'):	0.2224
CRI (Ra):	82.7	Chromaticity (v'):	0.5013
CRI (R9):	9.4	TM-30 R_f:	81.4
Peak Wavelength:	452.4 nm	TM-30 R_g:	94.7
Dominant Wavelength:	577.9 nm	Duv:	0.0009
S/P Ratio:	1.713		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.7	80.9	88.9	94.3	81.0	80.5	84.0	86.6	65.3	9.4	73.0	79.4	57.8	82.9	96.9

