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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
RD2-4 4000K
Order Number
11524480
Test Number
11524880.04

Test Date

2017-01-25

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, aluminum reflectors, frosted plastic lens enclosure
Lamp: 96 white LEDs, two boards with 48 LEDs each
Mounting: Pendant
Ballast/Driver: One Philips Advance Xitanium XI054C150V054BST1

Luminaire



Summary of Results

Radiant Flux:	9597 mW
Luminous Flux:	3149 lm
Luminaire Efficacy:	98.4 lm/W
CCT:	3985 K
CRI (Ra):	82.6
Chromaticity (x):	0.3816
Chromaticity (y):	0.3793
Chromaticity (u):	0.2248
Chromaticity (v):	0.3352
Duv:	0.0008

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.2686 A
Power:	32.01 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	9.87 %

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



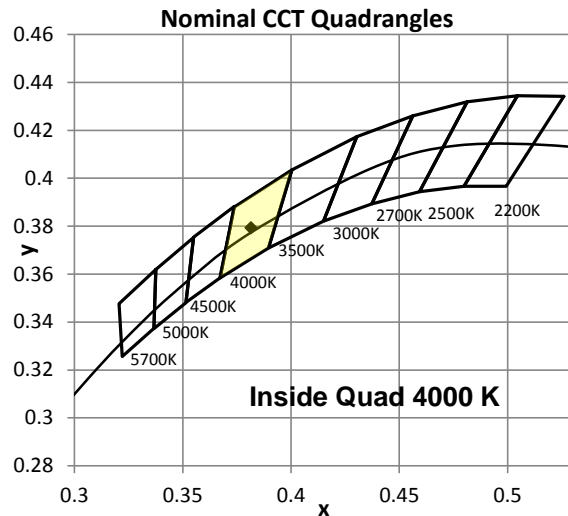
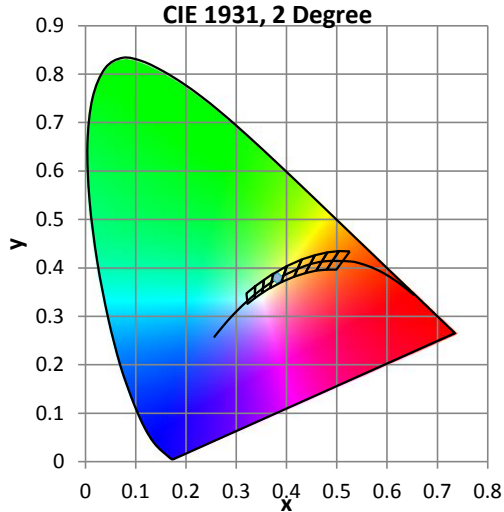
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.2686 A	32.01 W	0.993	60 Hz	9.87 %

Summary of Results

Total Output:	3149 Lumens	Chromaticity (x):	0.3816
Efficacy:	98.4 lm/w	Chromaticity (y):	0.3793
CCT:	3985 K	Chromaticity (u'):	0.2248
CRI (Ra):	82.6	Chromaticity (v'):	0.5029
CRI (R9):	10.5	TM-30 R_f:	81.6
Peak Wavelength:	451.7 nm	TM-30 R_g:	95.4
Dominant Wavelength:	578.7 nm	Duv:	0.0008
S/P Ratio:	1.669		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.6	80.8	88.5	93.9	81.2	80.5	83.5	86.6	65.5	10.5	72.2	79.5	58.7	82.7	96.6

