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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
PDU-SQ4 4000K

Order Number
11524480
Test Number
11524880.08

Test Date

2017-01-26

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 lower reflectors, lower frosted plastic lens enclosure, upper frosted plastic lens 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:	22320 mW
Luminous Flux:	7271 lm
Luminaire Efficacy:	118.6 lm/W
CCT:	4033 K
CRI (Ra):	83.1
Chromaticity (x):	0.3789
Chromaticity (y):	0.3758
Chromaticity (u):	0.2245
Chromaticity (v):	0.3339
Duv:	0.0007

Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.5128 A
Power:	61.32 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	8.34 %

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



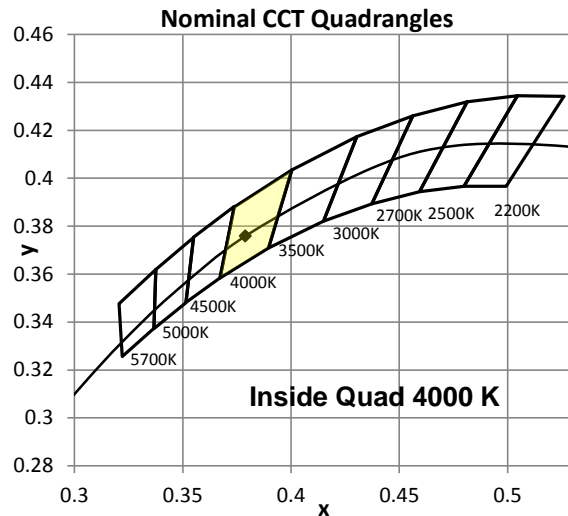
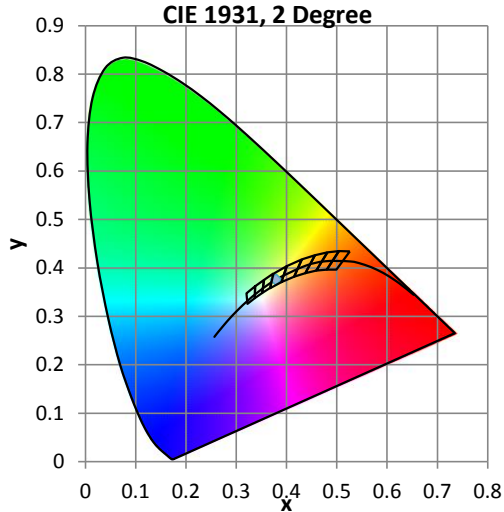
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.5128 A	61.32 W	0.996	60 Hz	8.34 %

Summary of Results

Total Output:	7271 Lumens	Chromaticity (x):	0.3789
Efficacy:	118.6 lm/w	Chromaticity (y):	0.3758
CCT:	4033 K	Chromaticity (u'):	0.2245
CRI (Ra):	83.1	Chromaticity (v'):	0.5009
CRI (R9):	12.3	TM-30 R_f:	81.6
Peak Wavelength:	452.5 nm	TM-30 R_g:	95.3
Dominant Wavelength:	578.9 nm	Duv:	0.0007
S/P Ratio:	1.696		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.1	81.5	89.3	94.2	81.4	81.1	84.4	86.6	66.0	12.3	73.8	79.6	59.3	83.5	96.9

