



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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
Damian Sookram
35 Kulik Rd
Fairfield, NJ 07004-3307
United States

Catalog Number
PDU-V2 4000K
Order Number
11524480
Test Number
11524880.06

Test Date

2017-01-24

Prepared By

Javier Caban, Technician

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, 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:	19280 mW
Luminous Flux:	6267 lm
Luminaire Efficacy:	102.3 lm/W
CCT:	4106 K
CRI (Ra):	83.2
Chromaticity (x):	0.3756
Chromaticity (y):	0.3729
Chromaticity (u):	0.2234
Chromaticity (v):	0.3328
Duv:	-0.0008

Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.5122 A
Power:	61.23 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	8.39 %

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



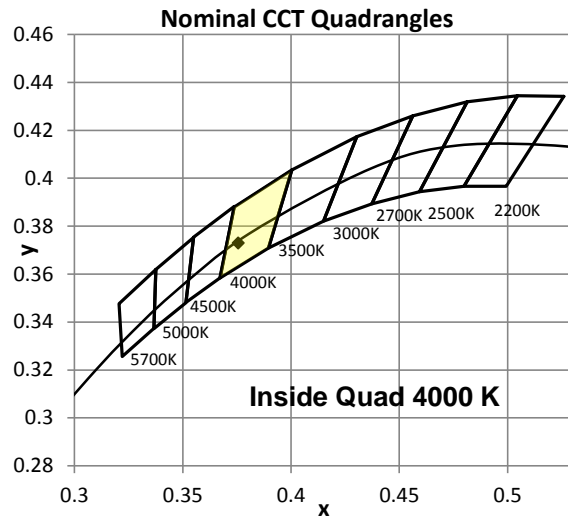
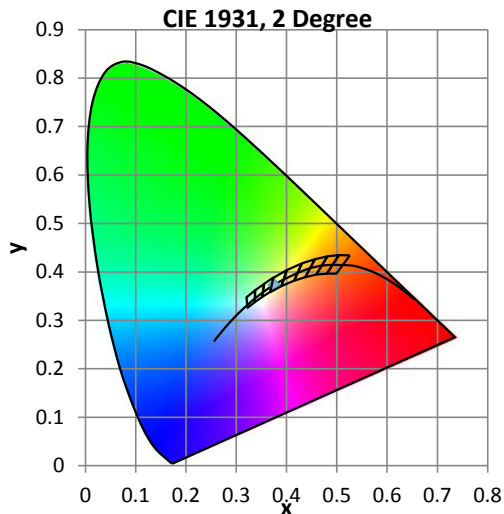
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.5122 A	61.23 W	0.996	60 Hz	8.39 %

Summary of Results

Total Output:	6267 Lumens	Chromaticity (x):	0.3756
Efficacy:	102.3 lm/w	Chromaticity (y):	0.3729
CCT:	4106 K	Chromaticity (u'):	0.2234
CRI (Ra):	83.2	Chromaticity (v'):	0.4992
CRI (R9):	12.7	TM-30 R_f:	81.7
Peak Wavelength:	452.2 nm	TM-30 R_g:	95.4
Dominant Wavelength:	578.9 nm	Duv:	-0.0008
S/P Ratio:	1.719		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.2	81.8	89.3	94.0	81.7	81.4	84.3	86.6	66.4	12.7	73.8	80.1	59.7	83.7	96.8

