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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

#### **LDPI Inc**

4404 Anderson Dr  
Eau Claire, WI 54703  
United States

### Catalog Number

**LE551-L4-V1-5-C-V**

Order Number

12369265

Test Number

12369265.05

Test Date

2018-06-26

Prepared By

Javier Caban, Technician

Approved By

Kevin Rodriguez, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed aluminum housing, clear glass lens enclosures  
**Lamp:** 180 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One Inventronics EUD-096S210DTA driver

**Luminaire**



**Summary of Results**

Radiant Flux:	26940 mW
Luminous Flux:	8576 lm
Luminaire Efficacy:	139.9 lm/W
CCT:	4975 K
CRI (Ra):	83.5
Chromaticity (x):	0.3459
Chromaticity (y):	0.3543
Chromaticity (u):	0.2109
Chromaticity (v):	0.3241
Duv:	0.0010

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.5155 A
Power:	61.30 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	9.29 %

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



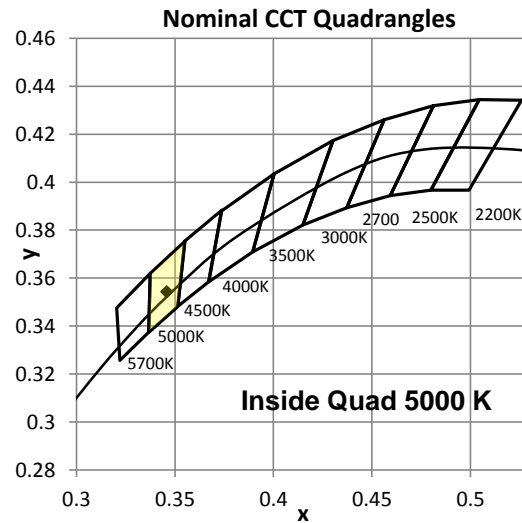
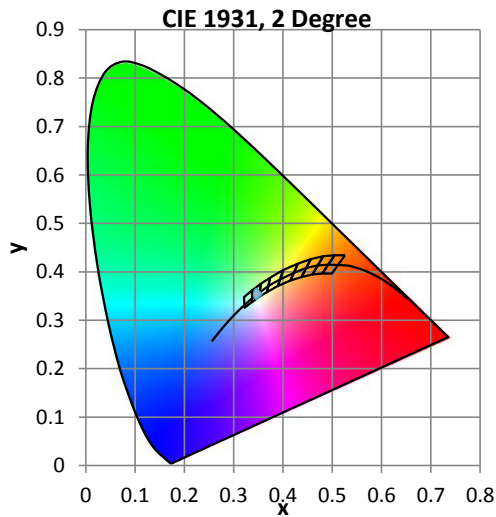
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.5155 A	61.30 W	0.991	60 Hz	9.29 %

### Summary of Results

<b>Total Output:</b>	8576 Lumens	<b>Chromaticity (x):</b>	0.3459
<b>Efficacy:</b>	139.9 lm/w	<b>Chromaticity (y):</b>	0.3543
<b>CCT:</b>	4975 K	<b>Chromaticity (u'):</b>	0.2109
<b>CRI (Ra):</b>	83.5	<b>Chromaticity (v'):</b>	0.4861
<b>CRI (R9):</b>	10.9	<b>TM-30 Rf:</b>	81.9
<b>Peak Wavelength:</b>	451 nm	<b>TM-30 Rg:</b>	96.5
<b>Dominant Wavelength:</b>	572 nm	<b>Duv:</b>	0.0010
<b>S/P Ratio:</b>	1.94		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.5	82.0	88.2	92.4	83.5	82.2	83.1	87.9	68.7	10.9	71.6	82.9	57.9	83.7	96.0	76.4

