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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**  
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**Catalog Number**  
**LSP9605UU80DV40xxxx**

Order Number  
11287633  
Test Number  
1248782

Test Date

2016-05-23

Prepared By

Austin Duff, Technician

Approved By

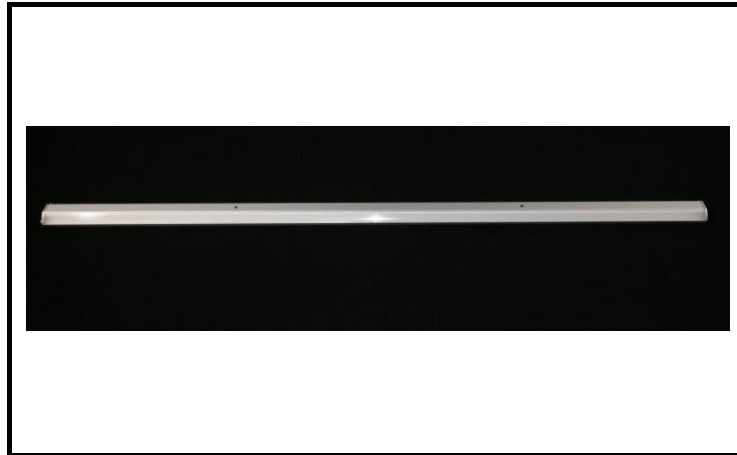
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Rectangular formed grey aluminum housing with grey metal back plate, dual sided inner specular reflectors with two (2) frosted lenses  
**Lamp:** 520 White LEDs  
**Mounting:** Recessed/Ceiling  
**Ballast/Driver:** Two (2) SAMJIN LL-P145WS

Luminaire



**Summary of Results**

Radiant Flux:	30060 mW
Luminous Flux:	9950 lm
Luminaire Efficacy:	126.6 lm/W
CCT:	3943 K
CRI (Ra):	83.4
Chromaticity (x):	0.3835
Chromaticity (y):	0.3805
Chromaticity (u):	0.2256
Chromaticity (v):	0.3358
Duv:	0.0008

**Test Conditions**

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.6560 A
Power:	78.60 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	3.57 %

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



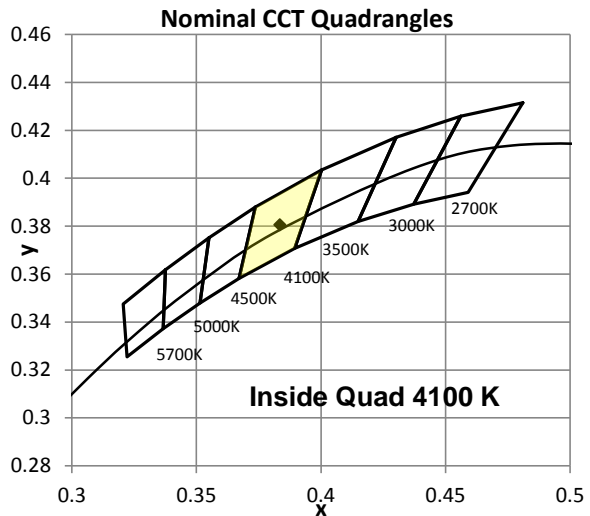
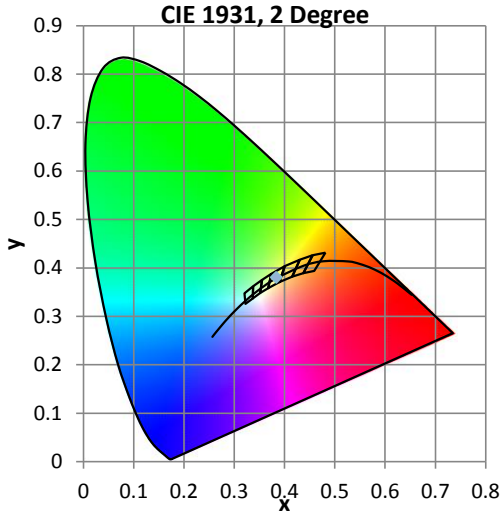
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.6560 A	78.60 W	0.997	60 Hz	3.57 %

### Summary of Results

<b>Total Output:</b>	9950 Lumens	<b>Chromaticity (x):</b>	0.3835
<b>Efficacy:</b>	126.6 lm/w	<b>Chromaticity (y):</b>	0.3805
<b>CCT:</b>	3943 K	<b>Chromaticity (u'):</b>	0.2256
<b>CRI (Ra):</b>	83.4	<b>Chromaticity (v'):</b>	0.5037
<b>CRI (R9):</b>	8.2	<b>TM-30 R<sub>f</sub>:</b>	82.0
<b>Peak Wavelength:</b>	453.1 nm	<b>TM-30 R<sub>g</sub>:</b>	94.1
<b>Dominant Wavelength:</b>	578.8 nm	<b>Duv:</b>	0.0008
<b>S/P Ratio:</b>	1.696		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.4	81.9	91.0	96.0	81.0	81.7	87.1	85.1	63.4	8.2	78.3	80.1	61.9	84.4	98.3

