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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

#### **H E Williams Inc**

831 W Fairview Ave  
PO Box 837  
Carthage, MO 64836-0837  
United States

### Catalog Number

**SRKR-X4-L31/850-X-XXX-UNV (Driver 1)**

Order Number

12118431

Test Number

12118431.22

Test Date

2017-01-22

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.

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**Luminaire Description:** White formed steel housing, frosted plastic lens enclosure. Tested in Columbia CS Bi-Pin 2L reference housing.  
**Lamp:** 112 white LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One Philips CI024C045V052CNN1 driver

**Luminaire**



**Summary of Results**

Radiant Flux:	10050 mW
Luminous Flux:	3206 lm
Luminaire Efficacy:	162.5 lm/W
CCT:	5134 K
CRI (Ra):	83.3
Chromaticity (x):	0.3416
Chromaticity (y):	0.3525
Chromaticity (u):	0.2087
Chromaticity (v):	0.3231
Duv:	0.0013

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1653 A
Power:	19.73 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	9.68 %

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



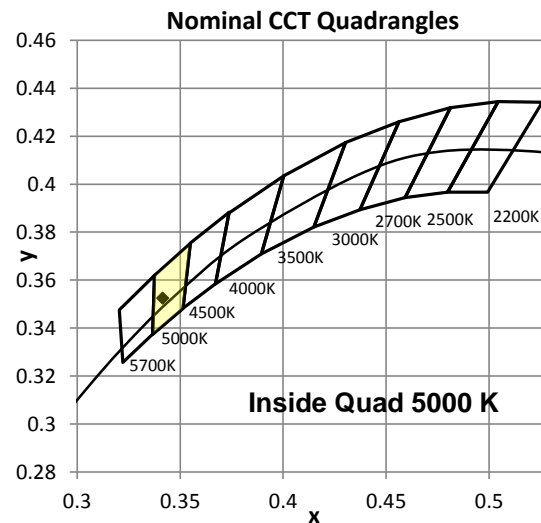
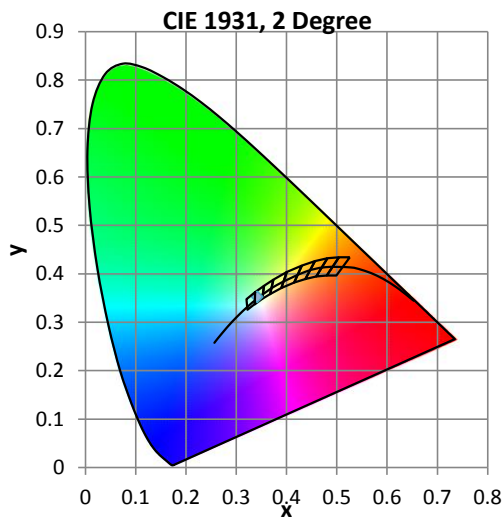
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1653 A	19.73 W	0.995	60 Hz	9.68 %

### Summary of Results

<b>Total Output:</b>	3206 Lumens	<b>Chromaticity (x):</b>	0.3416
<b>Efficacy:</b>	162.5 lm/w	<b>Chromaticity (y):</b>	0.3525
<b>CCT:</b>	5134 K	<b>Chromaticity (u'):</b>	0.2087
<b>CRI (Ra):</b>	83.3	<b>Chromaticity (v'):</b>	0.4846
<b>CRI (R9):</b>	3.7	<b>TM-30 Rf:</b>	82.3
<b>Peak Wavelength:</b>	450.9 nm	<b>TM-30 Rg:</b>	95.3
<b>Dominant Wavelength:</b>	568.5 nm	<b>Duv:</b>	0.0013
<b>S/P Ratio:</b>	2		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.3	81.3	88.8	93.8	83.2	82.7	84.5	86.1	65.9	3.7	73.9	83.1	65.4	83.3	97.0	75.2

