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## Photometric Test Report

### Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, UL 1598-2008  
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

**SRKA-X4-L52/830-X-XXX-UNV (Driver 2)**

Order Number

12118431

Test Number

12118431.17

### Test Date

2018-01-19 - 2018-01-22

### Prepared By

Dane Hernandez-Adams, Technician

### Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
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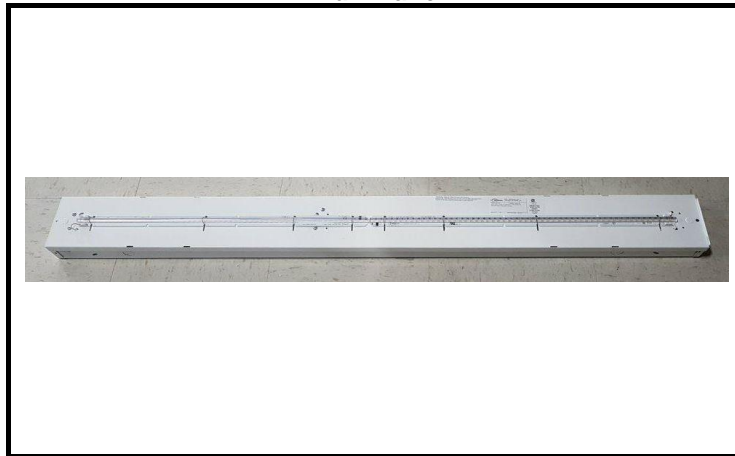
Laboratory results may not be representative of field performance  
Ballast factors have not been applied

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



**Luminaire Description:** White formed steel housing, clear plastic optic. Tested in Columbia CS Bi-Pin 2L reference housing.  
**Lamp:** 112 white LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One Philips CI039C075V052CNN1 driver

**Luminaire**



## Summary of Results

### Integrating Sphere

Luminous Flux: 4607 Lumens  
Efficacy: 139.6 lm/w  
CCT: 3085 K  
CRI (Ra): 83.8

### Electrical Data at 277 VAC

Test Temperature: 25.1 °C  
Voltage: 277.0 VAC  
Current: 0.1263 A  
Power: 32.91 W  
Power Factor: 0.940  
Frequency: 60 Hz  
Current THD: 10.7 %

### In-Situ

LED Temperature: 37.4 °C  
Driver Temperature: 47.4 °C  
Measured LED Current: 0.09230 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



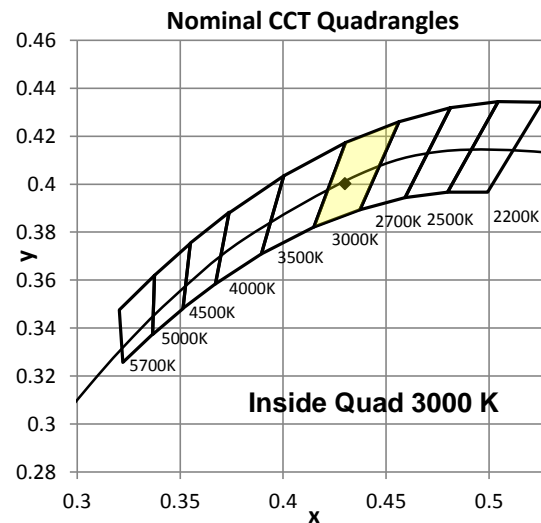
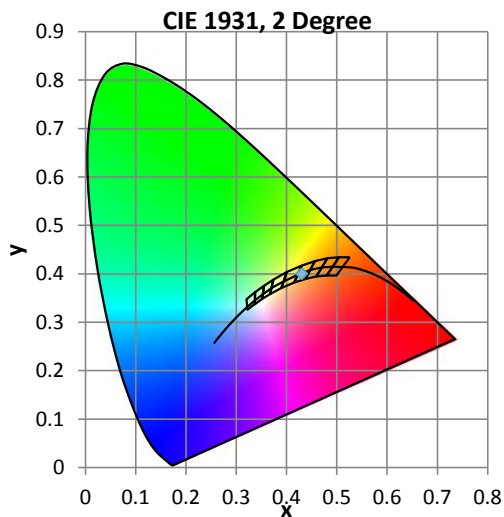
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	119.9 VAC	0.2763 A	33.01 W	0.996	60 Hz	8.84 %

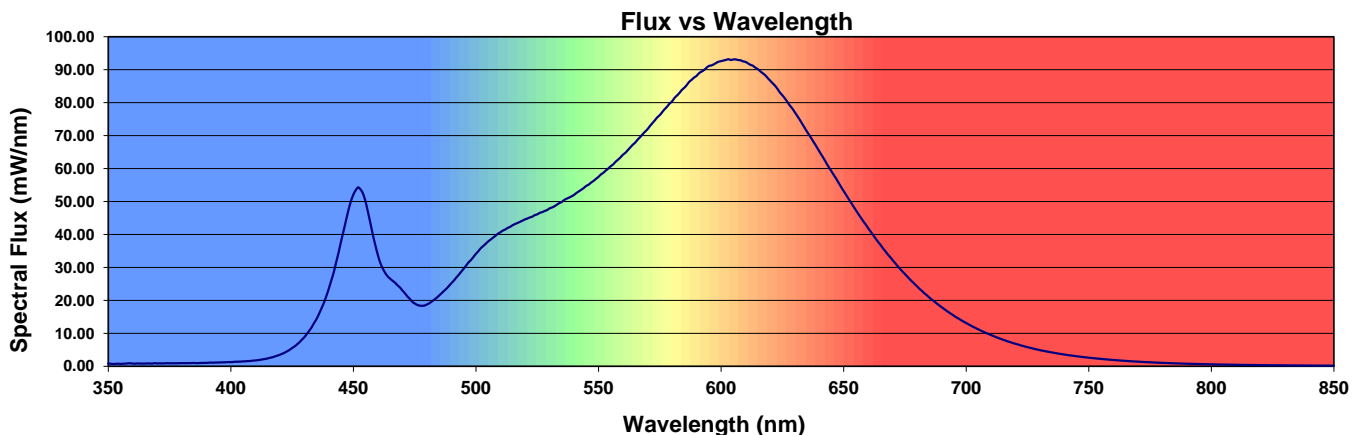
### Summary of Results

<b>Total Output:</b>	4607 Lumens	<b>Chromaticity (x):</b>	0.4301
<b>Efficacy:</b>	139.6 lm/w	<b>Chromaticity (y):</b>	0.4002
<b>CCT:</b>	3085 K	<b>Chromaticity (u'):</b>	0.2478
<b>CRI (Ra):</b>	83.8	<b>Chromaticity (v'):</b>	0.5188
<b>CRI (R9):</b>	10.2	<b>TM-30 Rf:</b>	84.3
<b>Peak Wavelength:</b>	603.8 nm	<b>TM-30 Rg:</b>	96.4
<b>Dominant Wavelength:</b>	582.7 nm	<b>Duv:</b>	-0.0011
<b>S/P Ratio:</b>	1.399		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.8	82.6	92.1	96.0	82.3	83.1	90.8	83.1	60.4	10.2	82.2	82.5	75.1	84.9	98.5	75.1





## In-Situ Test

### In-Situ Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	121.6 VAC	N/A	N/A	N/A	60 Hz	N/A

### Summary of Results

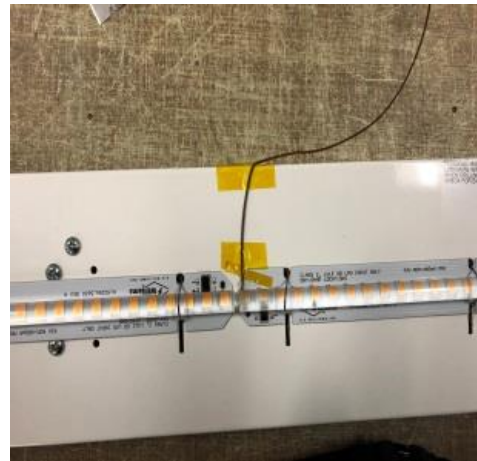
LED Temperature: 37.4 °C  
Driver Temperature: 47.4 °C  
Measured LED Current: 0.09230 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

### LED Temperature Location



### Thermocouple Reference



### Driver Temperature Location

