



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



## 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-X8-L63/830-X-XXX-UNV (Driver 3)**  
Order Number  
12118431  
Test Number  
12118431.15

Test Date

2018-01-18 - 2018-01-19

Prepared By

Josh Mitchell, Technician

Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.



## Table of Contents

<b>Summary of Results</b>	Page 3
<b>Integrating Sphere Results</b>	Page 4
<b>In-Situ Results</b>	Page 5

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 CI042C092V045CNN1 driver

**Luminaire**



## Summary of Results

### Integrating Sphere

Luminous Flux: 5982 Lumens  
Efficacy: 139.7 lm/w  
CCT: 3076 K  
CRI (Ra): 83.3

### Electrical Data at 277 VAC

Test Temperature: 25.3 °C  
Voltage: 277.0 VAC  
Current: 0.1571 A  
Power: 41.86 W  
Power Factor: 0.962  
Frequency: 60 Hz  
Current THD: 9.50 %

### In-Situ

LED Temperature: 35.5 °C  
Driver Temperature: 53.0 °C  
Measured LED Current: 0.1149 A

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



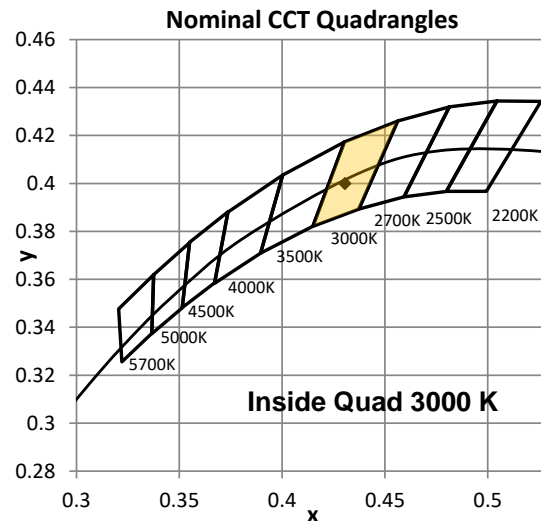
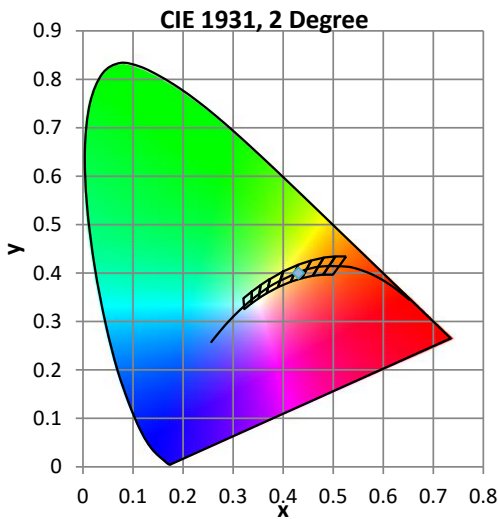
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.3582 A	42.83 W	0.996	60 Hz	8.48 %

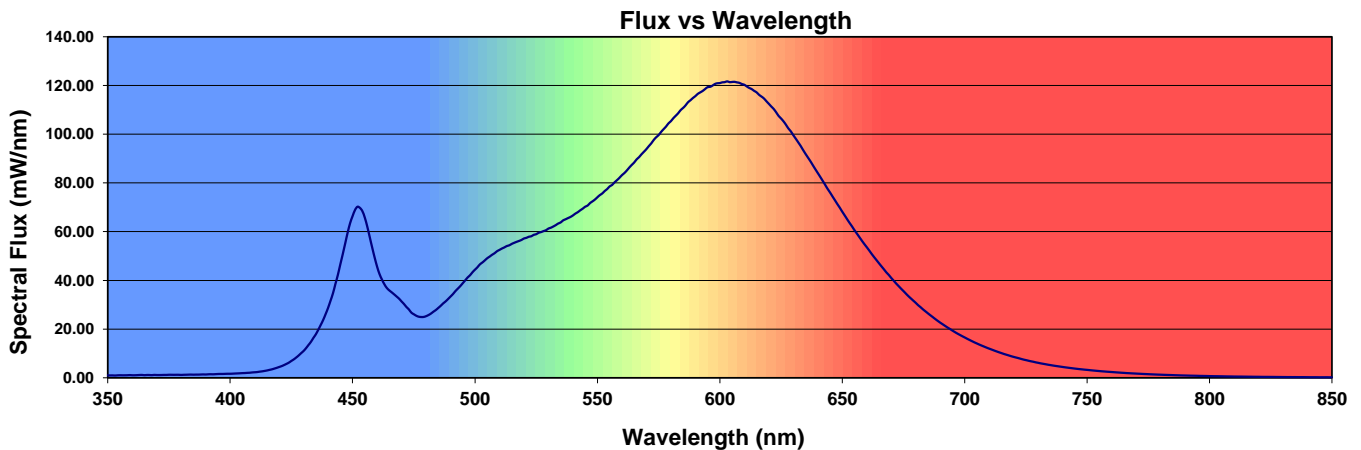
### Summary of Results

Total Output:	5982 Lumens	Chromaticity (x):	0.4305
Efficacy:	139.7 lm/w	Chromaticity (y):	0.3999
CCT:	3076 K	Chromaticity (u'):	0.2482
CRI (Ra):	83.3	Chromaticity (v'):	0.5188
CRI (R9):	7.8	TM-30 Rf:	84
Peak Wavelength:	603.3 nm	TM-30 Rg:	95.9
Dominant Wavelength:	582.8 nm	Duv:	-0.0007
S/P Ratio:	1.4		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.3	82.1	92.3	95.3	81.5	82.8	91.1	82.3	59.1	7.8	82.9	81.6	75.5	84.7	98.0	74.3





## In-Situ Test

### In-Situ Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.1 VAC	N/A	N/A	N/A	60 Hz	N/A

### Summary of Results

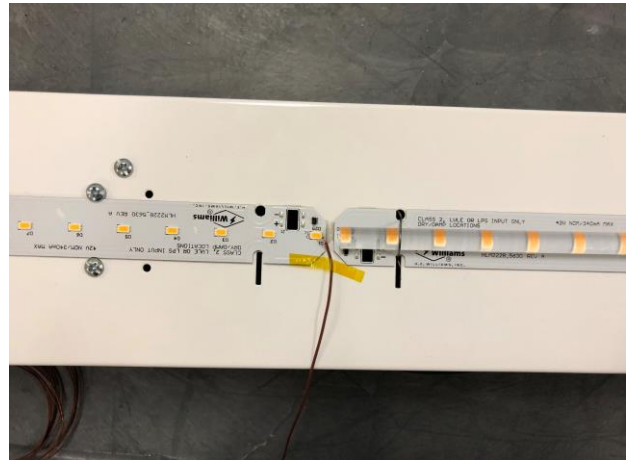
LED Temperature: 35.5 °C  
Driver Temperature: 53.0 °C  
Measured LED Current: 0.1149 A

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

### LED Temperature Location



### Thermocouple Reference



### Driver Temperature Location

