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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

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United States

Catalog Number

SRK-X4-L70/830-X-XXX-UNV (Driver 4)

Order Number

12118431

Test Number

12118431.13

Test Date

2018-01-22 - 2018-01-23

Prepared By

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Approved By

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

Summary of Results	Page 3
Integrating Sphere Results	Page 4
In-Situ Results	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 4π 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 CI046C102V045CNN1 driver

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux:	6218 Lumens
Efficacy:	132.6 lm/w
CCT:	3078 K
CRI (Ra):	83.6

Electrical Data at 277 VAC

Test Temperature:	24.8 °C
Voltage:	277.0 VAC
Current:	0.1705 A
Power:	45.63 W
Power Factor:	0.965
Frequency:	60 Hz
Current THD:	8.41 %

In-Situ

LED Temperature:	42.3 °C
Driver Temperature:	55.6 °C
Measured LED Current:	0.1240 A

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



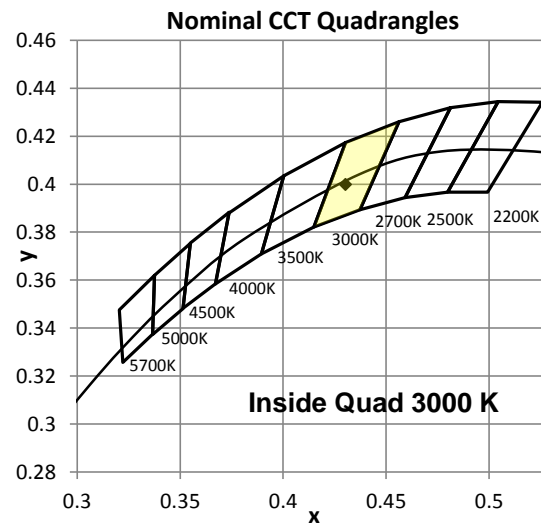
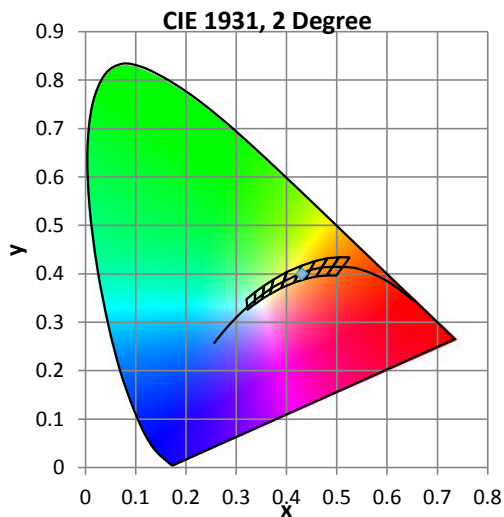
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.3921 A	46.90 W	0.997	60 Hz	7.68 %

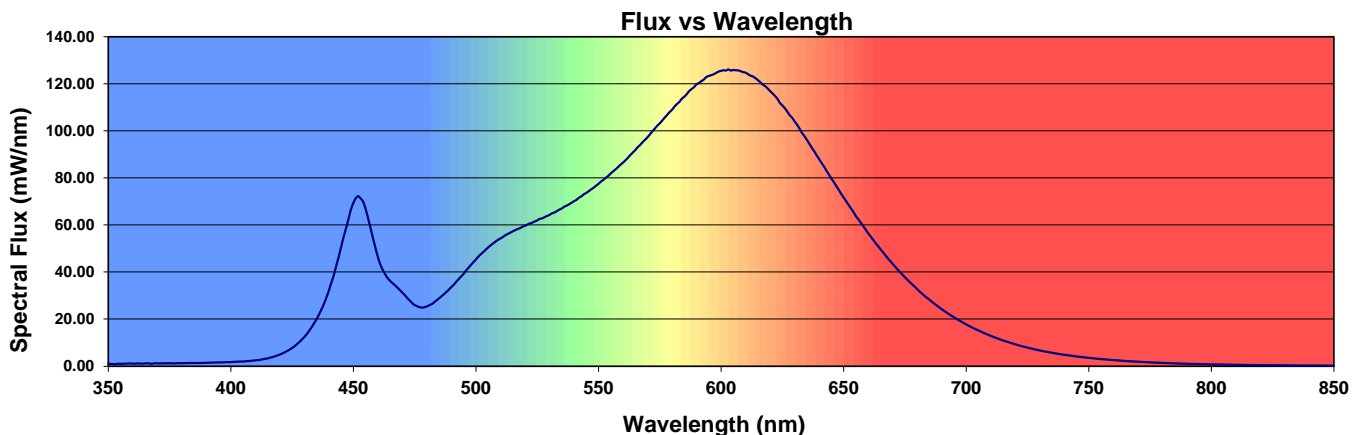
Summary of Results

Total Output:	6218 Lumens	Chromaticity (x):	0.4303
Efficacy:	132.6 lm/w	Chromaticity (y):	0.3999
CCT:	3078 K	Chromaticity (u'):	0.2481
CRI (Ra):	83.6	Chromaticity (v'):	0.5187
CRI (R9):	9.3	TM-30 Rf:	84
Peak Wavelength:	604.1 nm	TM-30 Rg:	96.4
Dominant Wavelength:	582.8 nm	Duv:	-0.0013
S/P Ratio:	1.395		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.6	82.3	92.0	95.9	81.9	82.9	90.6	82.8	60.0	9.3	82.0	82.0	75.1	84.7	98.4	74.8





In-Situ Test

In-Situ Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	121.0 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

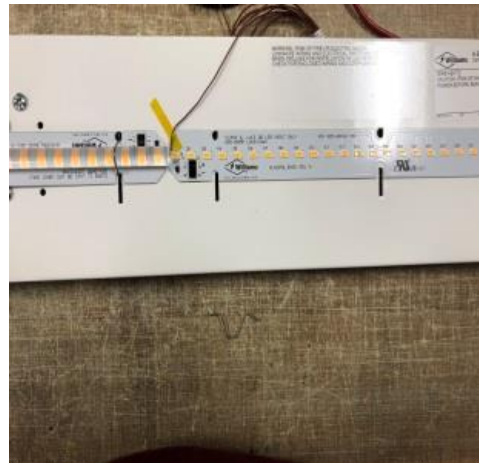
LED Temperature: 42.3 °C
Driver Temperature: 55.6 °C
Measured LED Current: 0.1240 A

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

LED Temperature Location



Thermocouple Reference



Driver Temperature Location

