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Allentown, PA 18106  
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## Integrating Sphere Test Report

### Relevant Standards

IES LM-79-2008, ANSI C82.77-10-2014, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2018

### Prepared For

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

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

### Catalog Number

**MX2RXX-4'00-L8/835-F-XX-DIM-UNV**

Order Number

**13012869**

Test Number

**13012869.03**

Test Date

2019-09-06

Prepared By

Derek Smarr, Technician

Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed White aluminum housing, frosted plastic lens  
**Lamp:** 144 White LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** One Philips Advance XI040C110V054BST1 Driver

**Luminaire**



**Summary of Results**

Radiant Flux:	10140 mW
Luminous Flux:	3372 lm
Luminaire Efficacy:	125.5 lm/W
CCT:	3453 K
CRI (Ra):	82.7
Chromaticity (x):	0.4085
Chromaticity (y):	0.3937
Chromaticity (u):	0.2366
Chromaticity (v):	0.3420
Duv:	0.0003

**Test Conditions**

Test Temperature:	24.8 °C
Voltage:	119.9 VAC
Current:	0.2255 A
Power:	26.88 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	9.39 %

Testing was performed in a 2-meter integrating sphere using the 4 $\pi$  geometry method.  
Absorption correction was employed for this measurement.



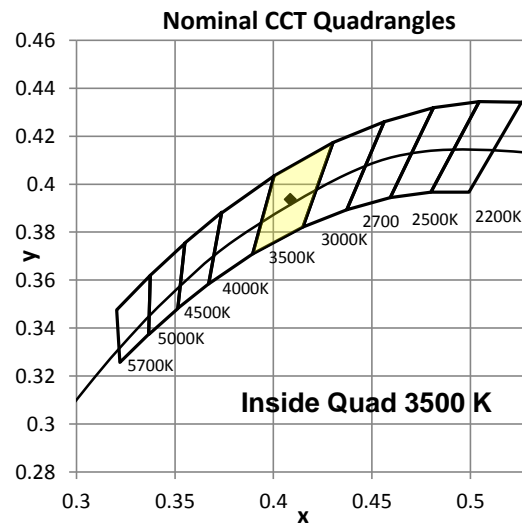
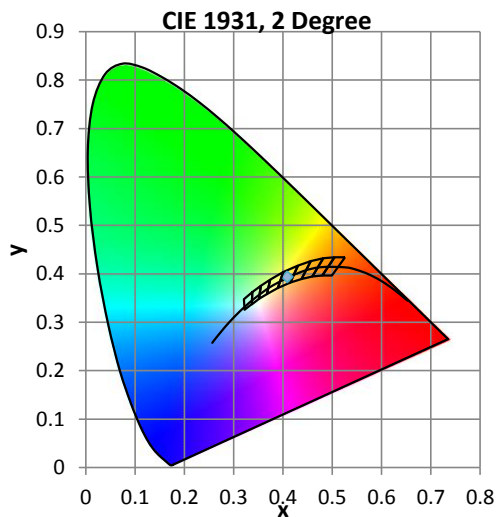
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	119.9 VAC	0.2255 A	26.88 W	0.994	60 Hz	9.39 %

### Summary of Results

<b>Total Output:</b>	3372 Lumens	<b>Chromaticity (x):</b>	0.4085
<b>Efficacy:</b>	125.5 lm/w	<b>Chromaticity (y):</b>	0.3937
<b>CCT:</b>	3453 K	<b>Chromaticity (u'):</b>	0.2366
<b>CRI (Ra):</b>	82.7	<b>Chromaticity (v'):</b>	0.5130
<b>CRI (R9):</b>	6.1	<b>TM-30 Rf:</b>	84.3
<b>Peak Wavelength:</b>	599 nm	<b>TM-30 Rg:</b>	95.2
<b>Dominant Wavelength:</b>	581 nm	<b>Duv:</b>	0.0003
<b>S/P Ratio:</b>	1.51		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.7	80.9	90.0	96.3	81.1	81.0	86.8	84.4	61.2	6.1	76.7	80.4	64.5	83.2	98.4	73.6

