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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

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Catalog Number

4PR-L20/927-DIM1-UNV-L-W-OF-WH-AD

Order Number

12385721

Test Number

12385721.06

Revised:

2018-07-12

Test Date

2018-07-05 - 2018-07-11

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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Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement



Luminaire Description: Black formed aluminum housing, white reflector, frosted plastic lens enclosure
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: One Philips XI025C070V054DSM5 driver

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux: 1281 Lumens
Efficacy: 56.7 lm/w
CCT: 2746 K
CRI (Ra): 91.7

Electrical Data at 119 VAC

Test Temperature: 25.4 °C
Voltage: 119.9 VAC
Current: 0.1893 A
Power: 22.61 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 7.89 %

In-Situ

LED Temperature: 62.6 °C
Driver Temperature: 47.7 °C
Measured LED Current: 0.5682 A

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



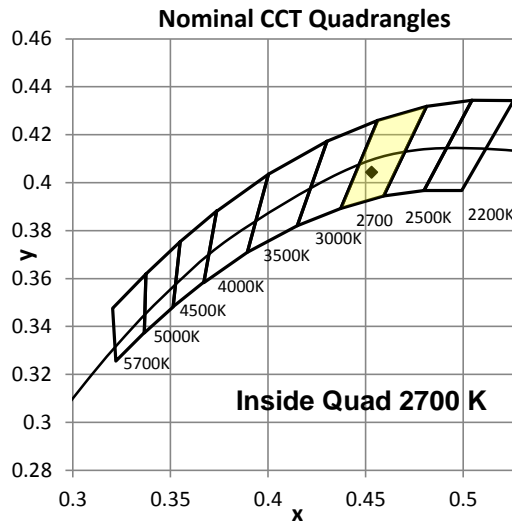
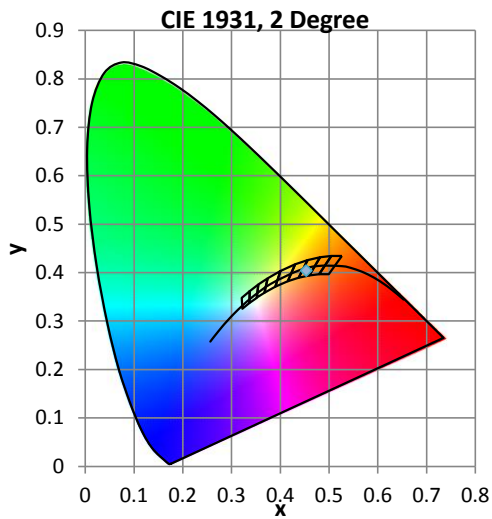
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	119.9 VAC	0.1893 A	22.61 W	0.996	60 Hz	7.89 %

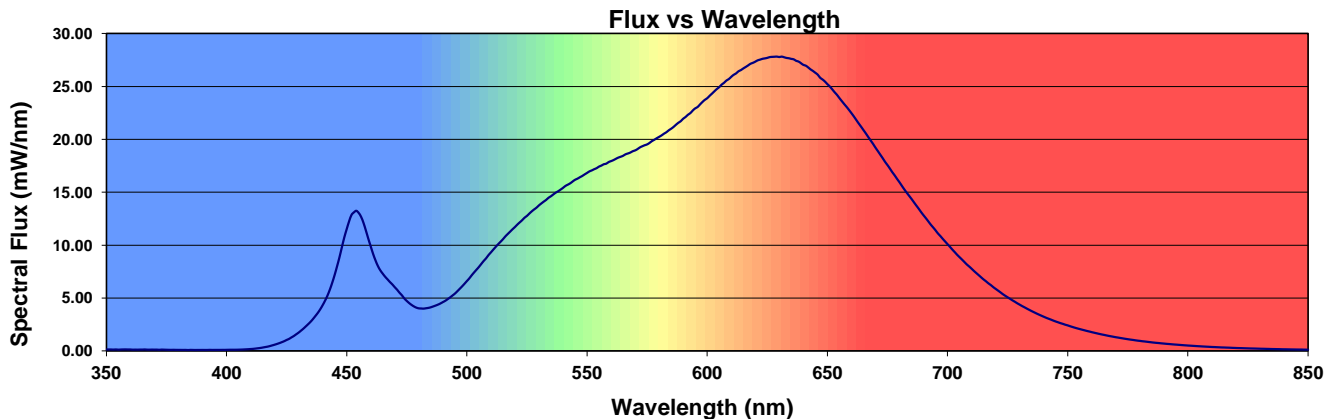
Summary of Results

Total Output:	1281 Lumens	Chromaticity (x):	0.4531
Efficacy:	56.7 lm/w	Chromaticity (y):	0.4043
CCT:	2746 K	Chromaticity (u'):	0.2609
CRI (Ra):	91.7	Chromaticity (v'):	0.5239
CRI (R9):	66.2	TM-30 Rf:	88.3
Peak Wavelength:	626 nm	TM-30 Rg:	101.8
Dominant Wavelength:	585 nm	Duv:	-0.0020
S/P Ratio:	1.27		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91.7	92.8	94.7	93.3	91.6	91.2	92.0	93.3	85.1	66.2	84.9	90.5	75.7	93.2	95.1	91.0





In-Situ Test

In-Situ Test Conditions

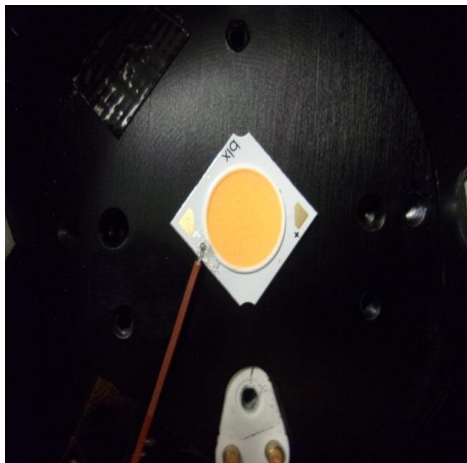
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
20.6 °C	120.0 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

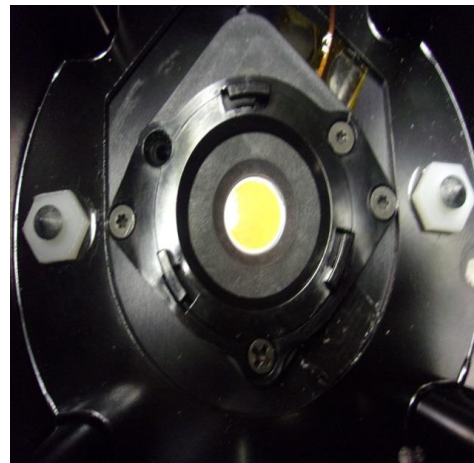
LED Temperature: 62.6 °C
Driver Temperature: 47.7 °C
Measured LED Current: 0.5682 A

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

LED Temperature Location



Thermocouple Reference



Driver Temperature Location

