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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

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Catalog Number

SM16-07-36DM-927/918-01

Order Number

12929416

Test Number

12929416.02A

Revised:

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Test Date

2019-07-09

Prepared By

Austin Duff, Technician

Approved By

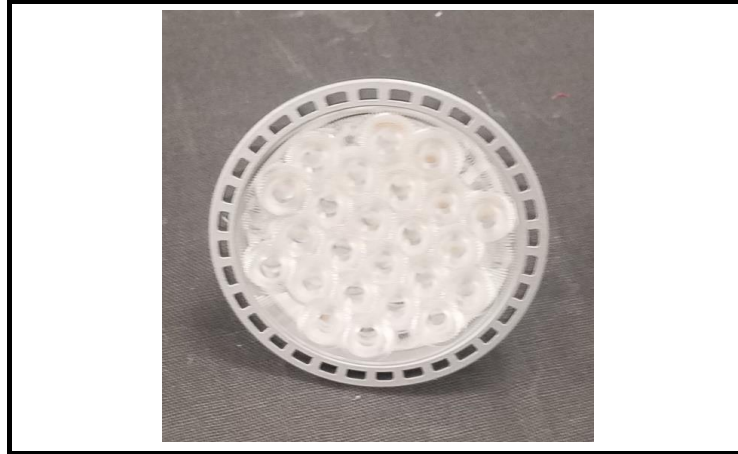
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular gray metal housing/heatsink
Lamp: LED array with optic attached
Mounting: VBU
Ballast/Driver: Integrated

Luminaire



Summary of Results

Radiant Flux:	1812 mW
Luminous Flux:	450.3 lm
Luminaire Efficacy:	59.8 lm/W
CCT:	2725 K
CRI (Ra):	97.6
Chromaticity (x):	0.4594
Chromaticity (y):	0.4133
Chromaticity (u):	0.2610
Chromaticity (v):	0.3522
Duv:	0.0008

Test Conditions

Test Temperature:	25.1 °C
Voltage:	12.04 VAC
Current:	0.6723 A
Power:	7.525 W
Power Factor:	0.929
Frequency:	60 Hz
Current THD:	37.7 %

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



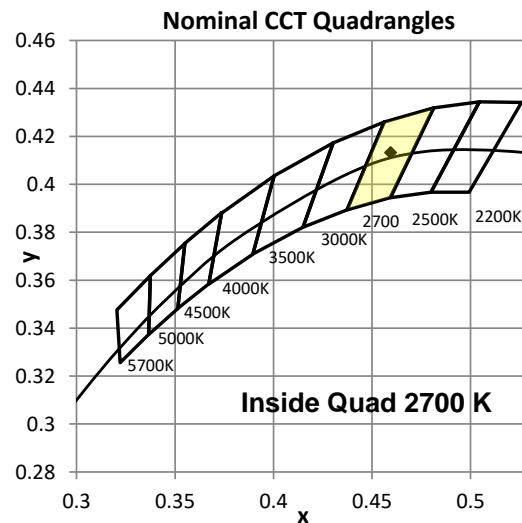
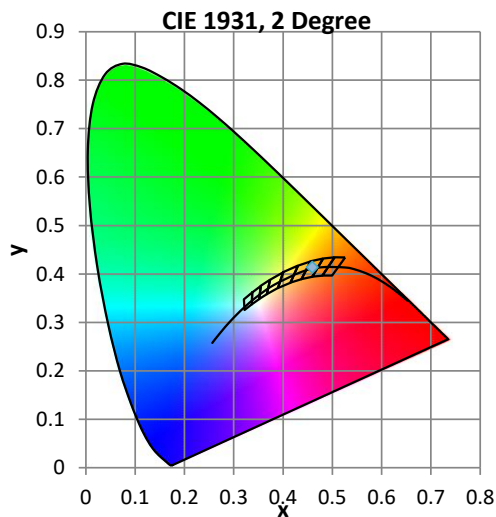
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	12.04 VAC	0.6723 A	7.525 W	0.929	60 Hz	37.7 %

Summary of Results

Total Output:	450 Lumens	Chromaticity (x):	0.4594
Efficacy:	59.8 lm/w	Chromaticity (y):	0.4133
CCT:	2725 K	Chromaticity (u'):	0.2610
CRI (Ra):	97.6	Chromaticity (v'):	0.5283
CRI (R9):	90.1	TM-30 Rf:	93.2
Peak Wavelength:	633 nm	TM-30 Rg:	101.2
Dominant Wavelength:	584 nm	Duv:	0.0008
S/P Ratio:	1.34		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.6	98.6	99.7	96.3	95.5	97.9	98.0	98.3	96.6	90.1	98.3	92.7	93.8	98.9	96.9	98.1

