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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-930/918-01

Order Number
12929416
Test Number
12929416.04

Test Date

2019-07-09

Prepared By

Austin Duff, Technician

Approved By

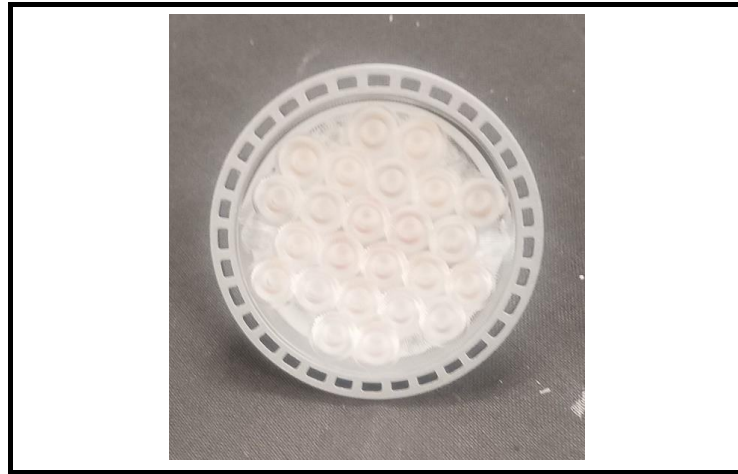
Eric Gaudreau, Engineering Leader

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:	1909 mW
Luminous Flux:	472.8 lm
Luminaire Efficacy:	61.8 lm/W
CCT:	3026 K
CRI (Ra):	97.1
Chromaticity (x):	0.4342
Chromaticity (y):	0.4017
Chromaticity (u):	0.2498
Chromaticity (v):	0.3467
Duv:	-0.0006

Test Conditions

Test Temperature:	24.9 °C
Voltage:	12.09 VAC
Current:	0.6805 A
Power:	7.653 W
Power Factor:	0.930
Frequency:	60 Hz
Current THD:	38.0 %

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



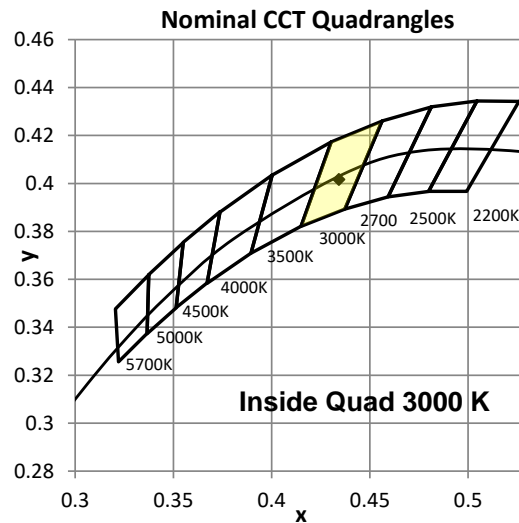
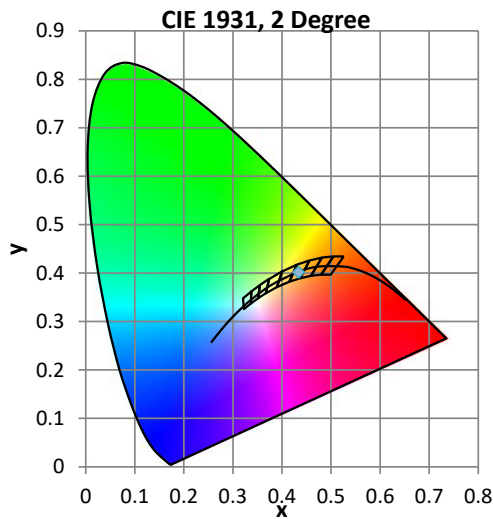
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	12.09 VAC	0.6805 A	7.653 W	0.930	60 Hz	38.0 %

Summary of Results

Total Output:	473 Lumens	Chromaticity (x):	0.4342
Efficacy:	61.8 lm/w	Chromaticity (y):	0.4017
CCT:	3026 K	Chromaticity (u'):	0.2498
CRI (Ra):	97.1	Chromaticity (v'):	0.5200
CRI (R9):	93.2	TM-30 Rf:	91
Peak Wavelength:	632 nm	TM-30 Rg:	102.9
Dominant Wavelength:	583 nm	Duv:	-0.0006
S/P Ratio:	1.47		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.1	98.4	98.9	95.2	94.0	97.2	99.3	96.7	97.2	93.2	96.7	92.6	91.1	98.9	96.4	97.7

