



Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2008, ANSI C82.77
CIE 13.3-1995, CIE 15-2004

Prepared For
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Catalog Number
MIDTOWN

LTL Test Number
26447

Test Date

2011-10-22

Prepared By

Eric Gaudreau, Technician III

Approved By

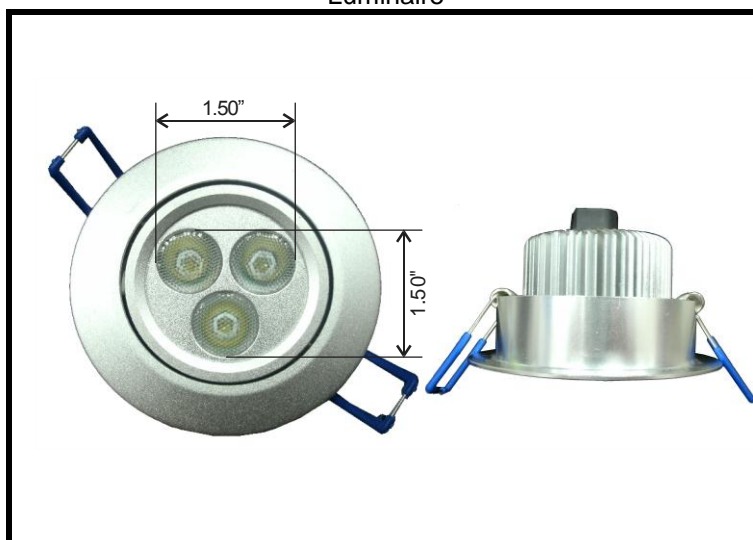
Zachary Mooney, Project Coordinator

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Spun aluminum housing, machined aluminum heatsink, no enclosure
Catalog Number: MIDTOWN
Lamp: Three white LEDs with clear patterned plastic optics below each
Mounting: Recessed
Ballast/Driver: One ES LD-CU7021AF

Luminaire



Summary of Results

Radiant Flux:	1520 mW
Luminous Flux:	483.9 Lumens
Luminaire Efficacy:	58.0 Lumens/Watt
CCT:	4336 K
CRI (Ra):	73.7
Chromaticity (x):	0.3655
Chromaticity (y):	0.3621
Chromaticity (u):	0.2210
Chromaticity (v):	0.3285
Duv:	-0.0024

Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.1372 A
Power:	8.350 W
Power Factor:	0.507
Frequency:	60 Hz
Current THD:	146 %

Testing was performed in a Labsphere SLMS7650 two meter integrating sphere using the 4π geometry method, a Labsphere CDS 1100 spectrometer, and LightMtrX software.
Absorption correction was employed for this measurement.

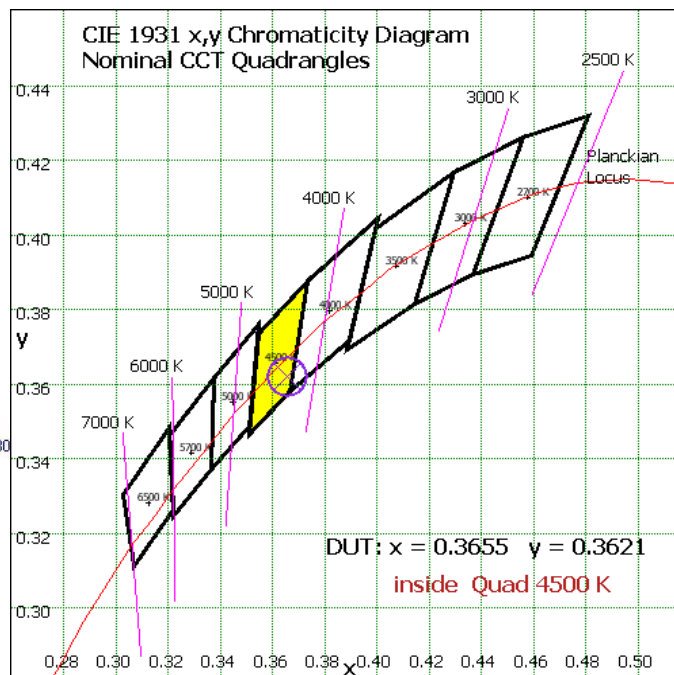
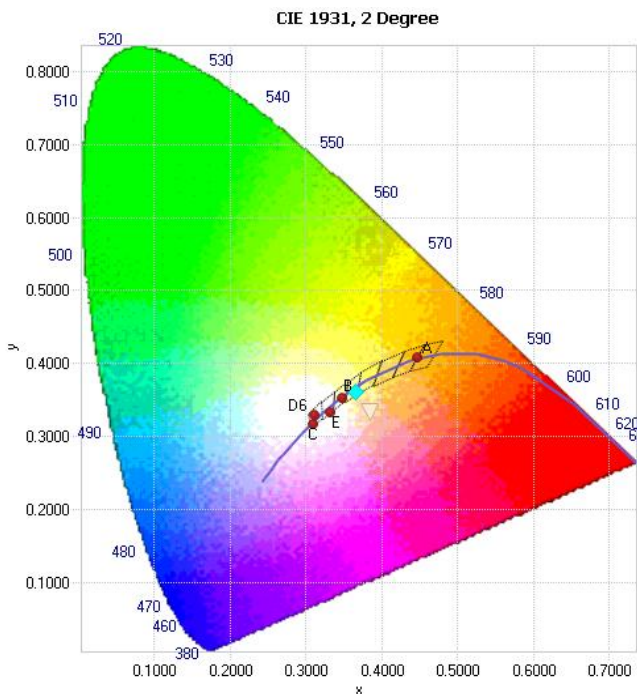


Chromaticity Coordinates

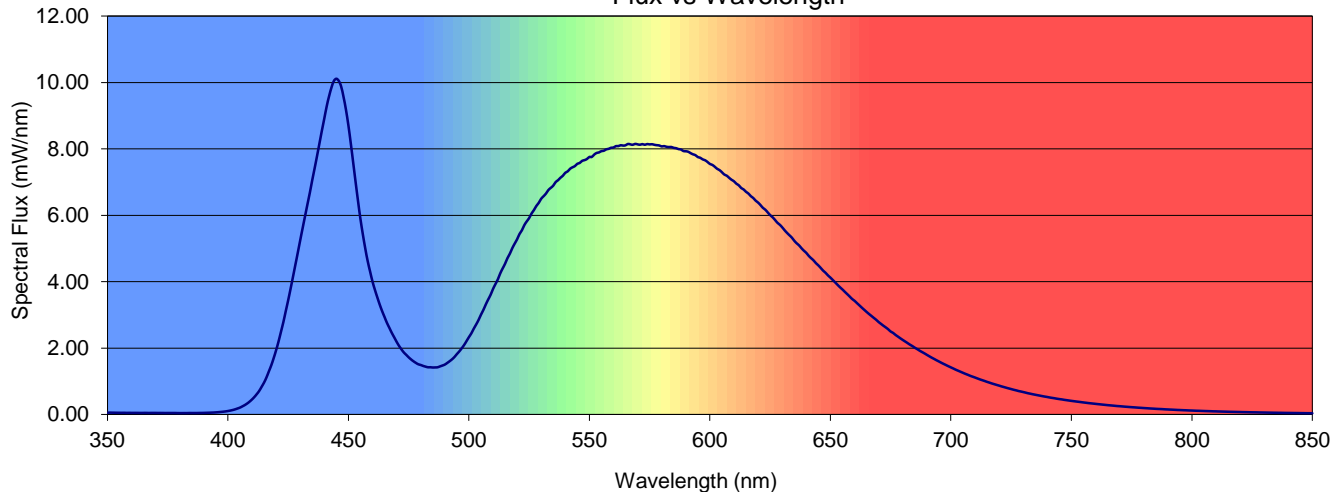
x	y	u	v	u'	v'	Duv
0.3655	0.3621	0.2210	0.3285	0.2210	0.4927	-0.0024

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73.7	72.8	77.9	79.7	74.3	72.0	68.1	81.5	63.0	-4.4	45.7	69.9	45.9	72.8	88.0



Flux vs Wavelength





Spectral Power Distribution

Table with 16 columns (λ(nm), mW/nm) and 40 rows of spectral data points.