IESNA LM79-2008
TEST REPORT

October 15, 2015

Test Results –

The following results were obtained after stabilization of the sample in accordance with the requirements set forth in section 5.0 of IES LM79-2008. Stability is achieved when the variation of 3 readings of light output and electrical power over a period of 30 minutes, taken 15 minutes apart, is less than 0.5%.

Photometric Results	MOS-xx-AC-M3007-LED252/82-NON-DIM-UNV
	Integrating Sphere
Total Luminous Flux (Lumens)	6,402
Luminous Efficacy (Lumens/Watt)	63.32
Correlated Color Temperature (CCT)	2913
Color Rendering Index (CRI – R_a)	90.6
Total Radiant Flux (Watts)	22.0

R_1	R_2	R_3	R_4	R_5	R_6	R_7	R_8	R_9	R_{10}	R_{11}	R_{12}	R_{13}	R_{14}
90.8	96.9	97.0	89.4	91.0	96.0	88.3	75.5	47.8	92.1	90.1	83.8	92.6	99.3

Chromaticity (Chroma x / Chroma y)	0.4408	0.4016
Chromaticity (Chroma u / Chroma v)	0.2542	0.3473
Chromaticity (Chroma u' / Chroma v')	0.2542	0.5210
D_{uv} Value	-0.00149	

Electrical Results	MOS-xx-AC-M3007-LED252/82-NON-DIM-UNV	
	Integrating Sphere (120V / 277V)	
Input Power (Watts)	101.10	103.50
Input Voltage (Volts AC)	119.98	277.03
Input Current (Amps)	0.846	0.398
Power Factor	0.997	0.938
A-THD (Current %)	5.04	11.11
Input Frequency (Hertz)	60.0	60.0

Additional Parameters	MOS-xx-AC-M3007-LED252/82-NON-DIM-UNV	
	Integrating Sphere	Goniophotometer
Stabilization Time (Light and Power)	60 minutes	55 minutes
Test Geometry Configuration	4π	Type C
Ambient Temperature	24.8°C	24.6°C
ISTMT (In-Situ Temperature Measurement)	Not Tested	
Spacing Criteria	1.28 (0° – 180°) / 1.28 (90° – 270°)	

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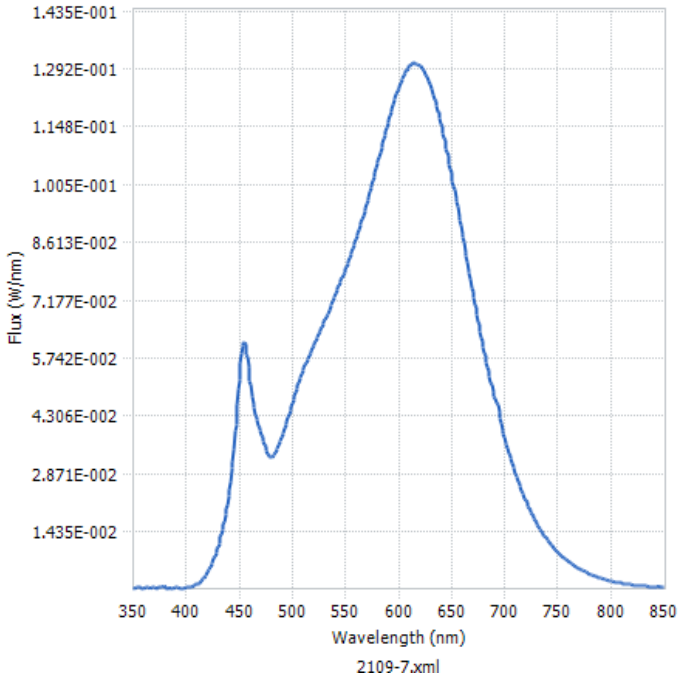
Spectral Flux and Chromaticity Diagram

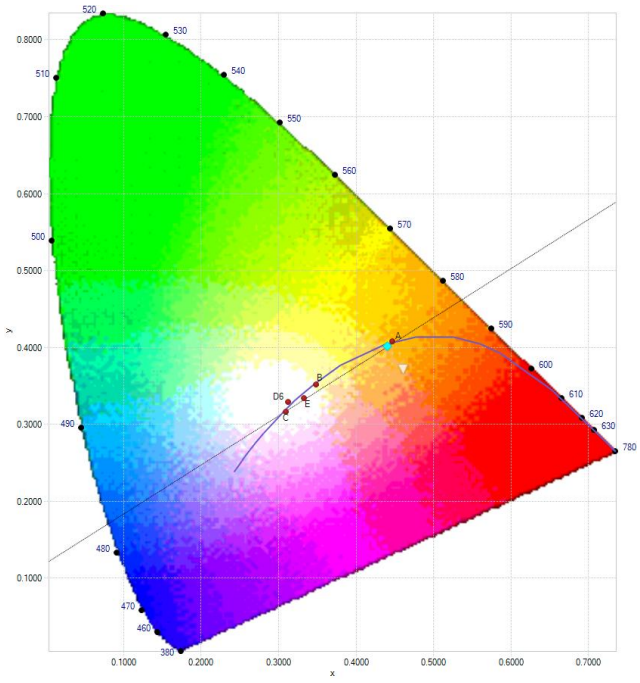
Spectral Flux



Spectral response of the Radiant Flux

(350nm to 850nm)

Chromaticity Diagram



Tristimulus values (from page 4):

x / y = 0.4408 / 0.4016

The locations on the diagram of the tristimulus coordinates are indicated by the blue diamond.

Zonal Lumen Summary

Zone	Lumens	% Lamp / Luminaire
0 - 60	3,863.5	62.6%
60 - 90	1,256.5	20.4%
0 - 90	5,120.0	83.0%
90 - 180	1,049.2	17.0%
0 - 180	6,169.2	100.0%

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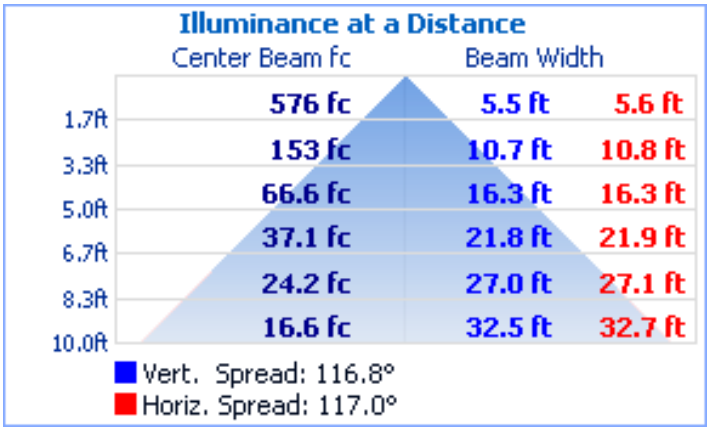
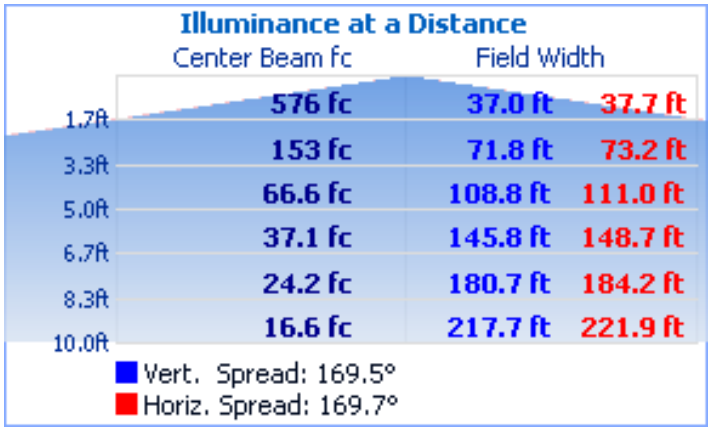
Test Results – Illuminance Plots

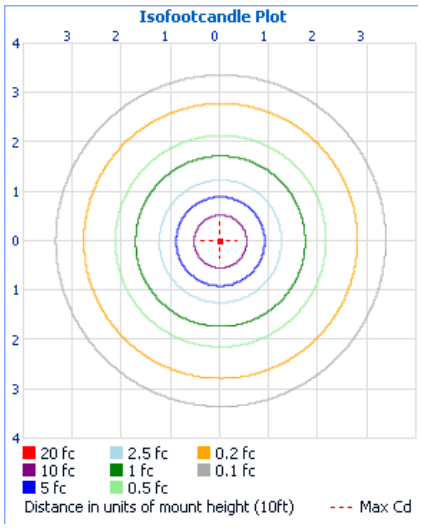
The following images depict the illuminance characteristics of the luminaire.



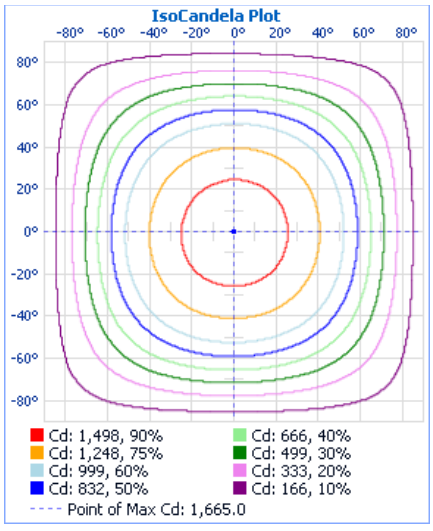


Test Results – Candela Plots

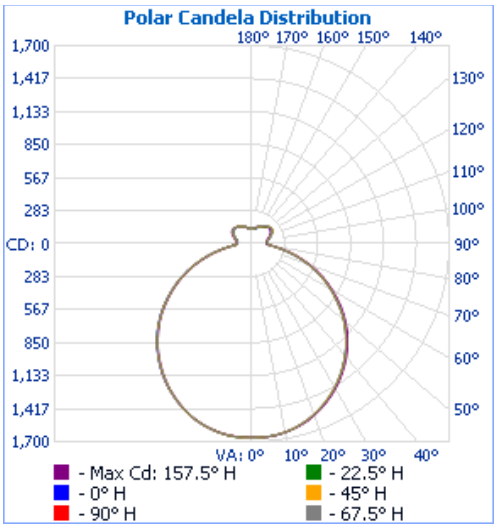
The following images depict the luminous intensity distribution characteristics of the luminaire:



Isofootcandle Plot



Isocandela Plot



Polar Candela

Maximum Candela = **1,665.0** at Horizontal: 157.5°, Vertical: 2.5°