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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002

Prepared For  
**Mercury Lighting**  
20 Audrey Pl  
Fairfield, NJ 07004-3416  
United States

Catalog Number  
**MLS2-22G-3000-35K-HTA-U55-U**  
Order Number  
11800009  
Test Number  
11800009.01

Test Date

2017-06-05

Prepared By

Samuel DePue, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White formed aluminum housing, frosted plastic lens  
**Lamp:** 240 white LEDs  
**Mounting:** Surface – Ceiling  
**Ballast/Driver:** One Universal Lighting Technologies Everline D10CC55UNVTZ-C driver

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 23.00 in.  
Luminous Width: 23.00 in.

**Summary of Results**

Total Luminaire Output:	3022 Lumens
Luminaire Efficacy:	86.9 lm/w
Maximum Candela:	1586 Candela

**Test Conditions**

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.2907 A
Power:	34.79 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	6.04 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

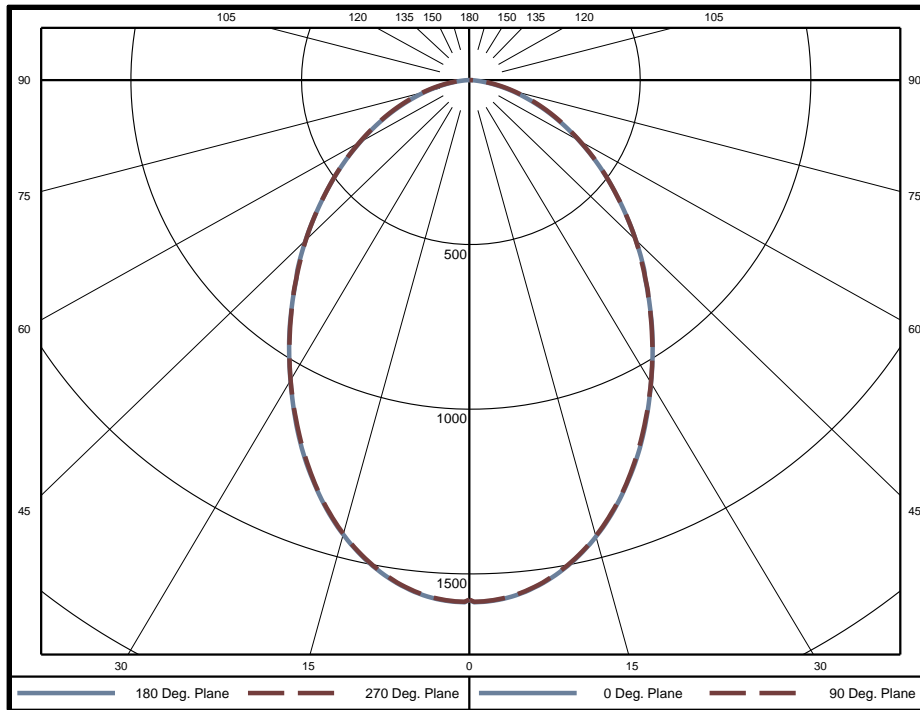
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.2907 A	34.79 W	0.997	60 Hz	6.04 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.04  
 90-270: 1.04

**Total Lumen Output:** 3022 Lumens  
**Luminaire Efficacy:** 86.9 lm/w  
**Maximum Candela:** 1586 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	37.6	1.2%	60-65	153.2	5.1%	120-125	0	0.0%
5-10	109.9	3.6%	65-70	119.5	4.0%	125-130	0	0.0%
10-15	174.2	5.8%	70-75	85.7	2.8%	130-135	0	0.0%
15-20	226.1	7.5%	75-80	54.1	1.8%	135-140	0	0.0%
20-25	262.3	8.7%	80-85	26.3	0.9%	140-145	0	0.0%
25-30	282.5	9.3%	85-90	7.2	0.2%	145-150	0	0.0%
30-35	288.0	9.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	281.8	9.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	266.9	8.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	244.5	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	216.8	7.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	186.0	6.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1662	55.0%
0-60	2577	85.3%
0-90	3023	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578	1578
5	1571	1561	1558	1561	1569	1561	1558	1561	1571	1561	1558	1561	1569	1561	1558	1561
10	1518	1510	1507	1509	1516	1509	1507	1510	1518	1510	1507	1509	1516	1509	1507	1510
15	1433	1426	1424	1426	1432	1426	1424	1426	1433	1426	1424	1426	1432	1426	1424	1426
20	1323	1316	1313	1315	1321	1315	1313	1316	1323	1316	1313	1315	1321	1315	1313	1316
25	1196	1185	1181	1185	1192	1185	1181	1185	1196	1185	1181	1185	1192	1185	1181	1185
30	1060	1048	1038	1047	1060	1047	1038	1048	1060	1048	1038	1047	1060	1047	1038	1048
35	931	911	895	911	928	911	895	911	931	911	895	911	928	911	895	911
40	802	783	761	782	803	782	761	783	802	783	761	782	803	782	761	783
45	687	662	639	662	686	662	639	662	687	662	639	662	686	662	639	662
50	573	550	528	551	573	551	528	550	573	550	528	551	573	551	528	550
55	469	448	430	449	471	449	430	448	469	448	430	449	471	449	430	448
60	372	357	342	358	375	358	342	357	372	357	342	358	375	358	342	357
65	284	273	263	276	289	276	263	273	284	273	263	276	289	276	263	273
70	203	196	191	202	211	202	191	196	203	196	191	202	211	202	191	196
75	132	127	126	135	141	135	126	127	132	127	126	135	141	135	126	127
80	70	70	69	76	80	76	69	70	70	70	69	76	80	76	69	70
85	23	25	26	29	32	29	26	25	23	25	26	29	32	29	26	25
90	1	3	4	5	6	5	4	3	1	3	4	5	6	5	4	3
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

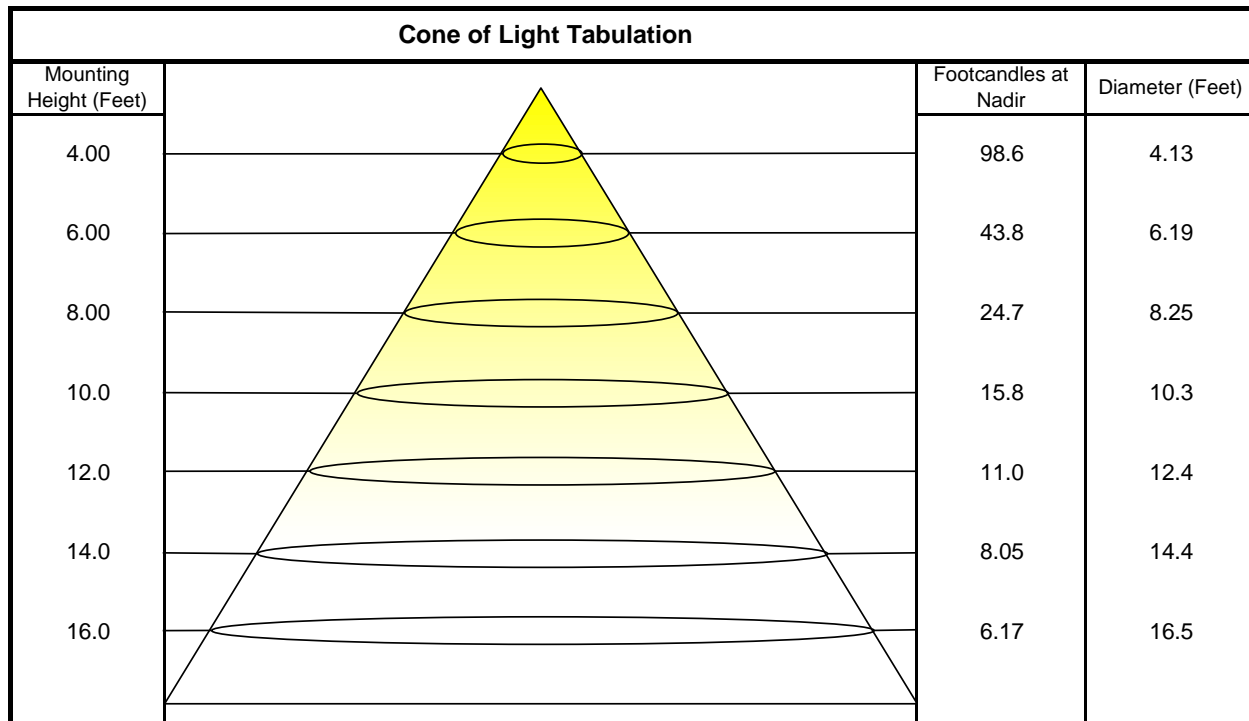
	0	45	90
0	4625	4625	4625
45	2846	2649	2843
55	2398	2196	2404
65	1970	1824	2005
75	1498	1425	1597
85	790	877	1075



### Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	3598	3598	3598	3598	3514	3514	3514	3514	3358	3358	3358	3215	3215	3215	3084	3084	3084	3022
1	3326	3198	3084	2980	3246	3130	3026	2932	3003	2918	2840	2887	2818	2754	2779	2724	2672	2611
2	3058	2834	2649	2494	2982	2778	2609	2464	2673	2531	2408	2577	2458	2354	2487	2389	2302	2240
3	2815	2526	2302	2124	2743	2479	2272	2105	2392	2215	2069	2311	2160	2034	2235	2109	2000	1938
4	2599	2267	2024	1839	2533	2228	2002	1826	2155	1958	1802	2086	1916	1778	2023	1876	1755	1694
5	2407	2049	1798	1614	2347	2016	1781	1605	1954	1747	1588	1896	1714	1572	1842	1683	1556	1496
6	2237	1863	1612	1432	2182	1836	1599	1426	1783	1572	1414	1734	1546	1403	1688	1521	1391	1333
7	2086	1704	1457	1284	2036	1681	1446	1280	1636	1425	1271	1594	1404	1262	1554	1384	1254	1197
8	1951	1568	1327	1161	1906	1547	1318	1158	1509	1300	1151	1472	1283	1145	1438	1267	1138	1084
9	1831	1449	1215	1057	1790	1431	1208	1055	1398	1193	1050	1367	1179	1045	1337	1166	1040	988
10	1723	1345	1119	969	1686	1330	1113	967	1301	1101	963	1274	1089	959	1248	1078	955	905

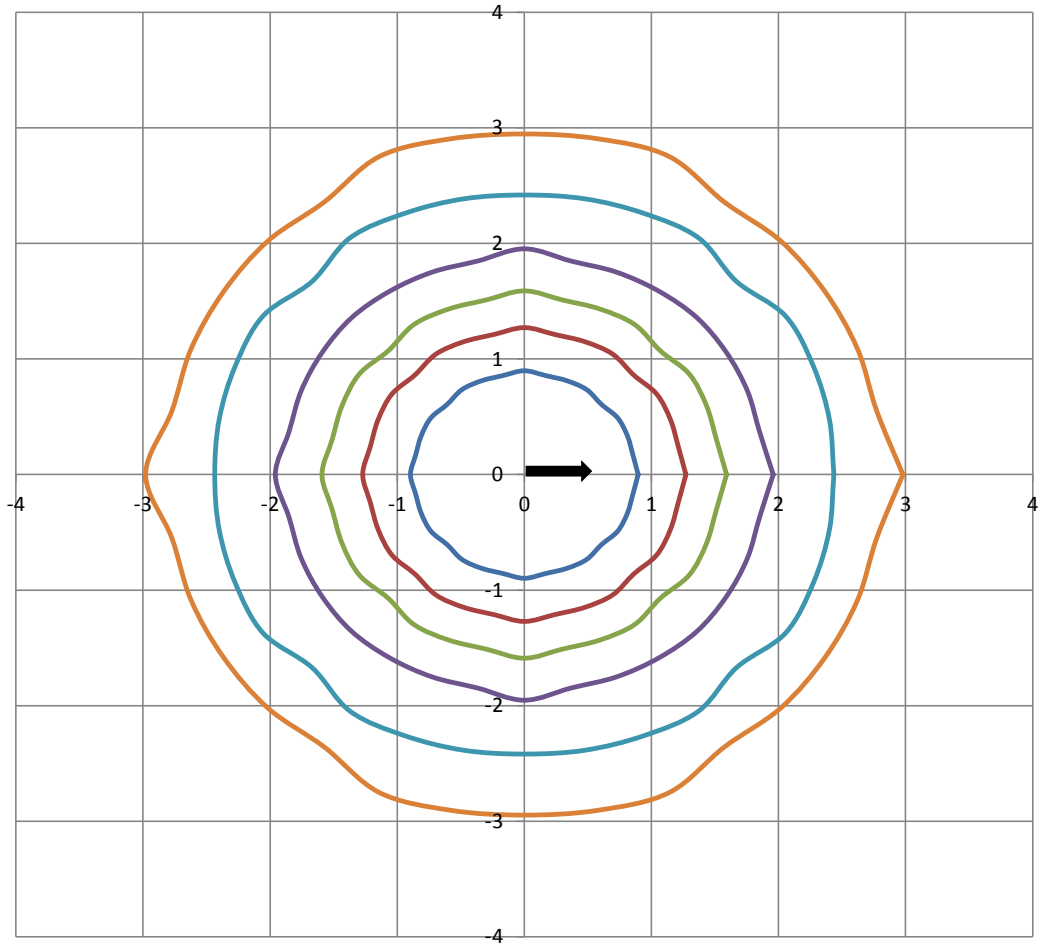
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1578 Candela
Central Cone Intensity:	1573 Candela
Beam Flux:	1648.2 Lumens
Beam Angle (0-180):	81.0 Degrees
Beam Angle (90-270):	81.1 Degrees
Field Angle (0-180):	146.2 Degrees
Field Angle (90-270):	147.4 Degrees





# ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

