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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
Fairfield, NJ 07004-3416
United States

Catalog Number
LI6 4 5200 35K U55 UNI-XXXX

Order Number
11482738
Test Number
11482738.01

Test Date

2016-10-12

Prepared By

Samuel DePue, Technician

Approved By

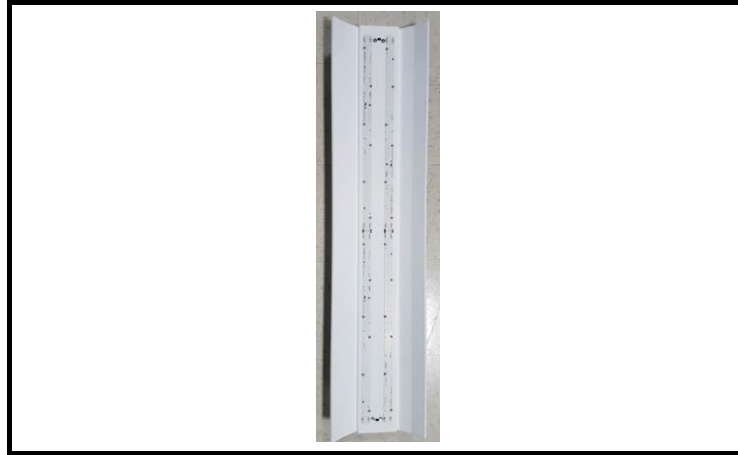
Timothy Wagner, Project Handler

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Luminaire Description: White formed steel housing, white formed steel reflector
Lamp: 128 white LEDs
Mounting: Surface mount
Ballast/Driver: One Everline D10CC55UNVTZ-C driver

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 10.50 in.
Luminous Height: 3.00 in.

Summary of Results

Total Luminaire Output: 5448 Lumens
Luminaire Efficacy: 117.3 lm/w
Maximum Candela: 1931 Candela

Test Conditions

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.3877 A
Power: 46.45 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.88 %

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
25.0 °C	120.0 VAC	0.3877 A	46.45 W	0.998	60 Hz	4.88 %

Summary of Results

Spacing Criteria

0-180: 1.28

90-270: 1.28

Total Lumen Output:

5448 Lumens

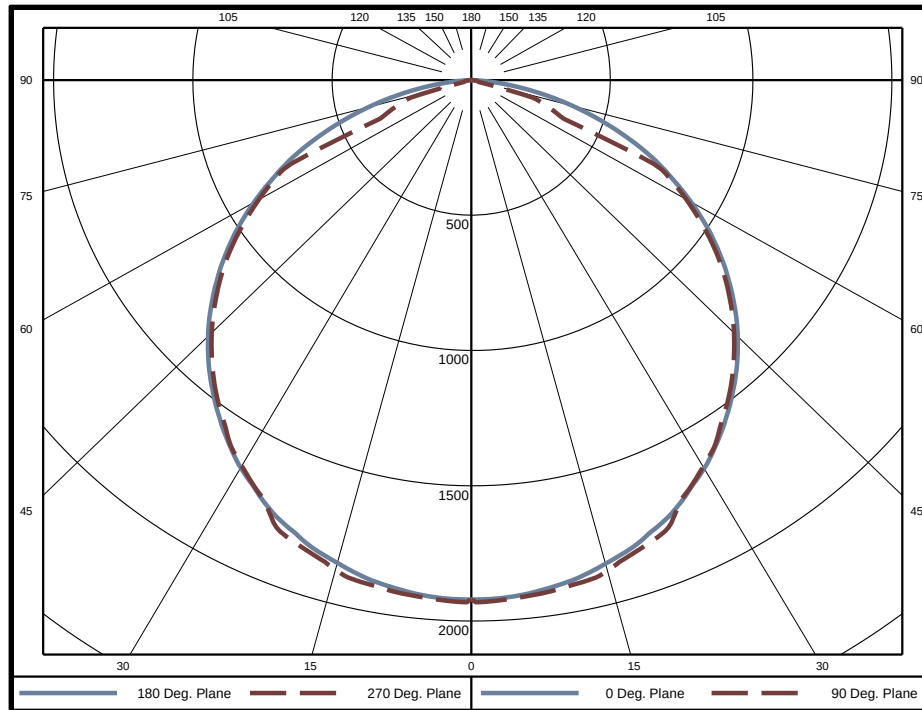
Luminaire Efficacy:

117.3 lm/w

Maximum Candela:

1931 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	45.8	0.8%	60-65	393.5	7.2%	120-125	0	0.0%
5-10	136.1	2.5%	65-70	287.3	5.3%	125-130	0	0.0%
10-15	222.6	4.1%	70-75	185.4	3.4%	130-135	0	0.0%
15-20	302.7	5.6%	75-80	86.3	1.6%	135-140	0	0.0%
20-25	374.1	6.9%	80-85	28.4	0.5%	140-145	0	0.0%
25-30	431.5	7.9%	85-90	5.4	0.1%	145-150	0	0.0%
30-35	476.0	8.7%	90-95	0.3	0.0%	150-155	0	0.0%
35-40	503.7	9.2%	95-100	0.0	0.0%	155-160	0	0.0%
40-45	517.4	9.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	513.3	9.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	489.3	9.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	449.6	8.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2493	45.8%
0-60	4462	81.9%
0-90	5448	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920
	5	1913	1912	1910	1910	1921	1910	1910	1912	1913	1912	1910	1910	1921	1910	1910
	10	1889	1889	1888	1892	1905	1892	1888	1889	1889	1889	1888	1892	1905	1892	1888
	15	1850	1854	1856	1870	1876	1870	1856	1854	1850	1854	1856	1870	1876	1870	1856
	20	1801	1803	1817	1818	1827	1818	1817	1803	1801	1803	1817	1818	1827	1818	1803
	25	1738	1742	1751	1762	1741	1762	1751	1742	1738	1742	1751	1762	1741	1762	1751
	30	1657	1671	1686	1650	1651	1650	1686	1671	1657	1671	1686	1650	1651	1650	1686
	35	1564	1583	1561	1558	1551	1558	1561	1583	1564	1583	1561	1558	1551	1558	1561
	40	1458	1476	1456	1441	1443	1441	1456	1476	1458	1476	1456	1441	1443	1441	1456
	45	1340	1367	1330	1319	1323	1319	1330	1367	1340	1367	1330	1319	1323	1319	1330
	50	1208	1226	1195	1187	1190	1187	1195	1226	1208	1226	1195	1187	1190	1187	1195
	55	1063	1061	1049	1042	1044	1042	1049	1061	1063	1061	1049	1042	1044	1042	1049
	60	904	906	891	885	884	885	891	906	904	906	891	885	884	885	891
	65	738	734	730	723	638	723	730	734	738	734	730	723	638	723	730
	70	559	559	550	291	293	291	550	559	559	559	550	291	293	291	550
	75	380	382	209	183	68	183	209	382	380	382	209	183	68	183	209
	80	209	190	31	24	23	24	31	190	209	190	31	24	23	24	31
	85	68	23	16	13	12	13	16	23	68	23	16	13	12	13	16
	90	1	3	1	0	0	0	1	3	1	3	1	0	0	0	1
	95	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
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

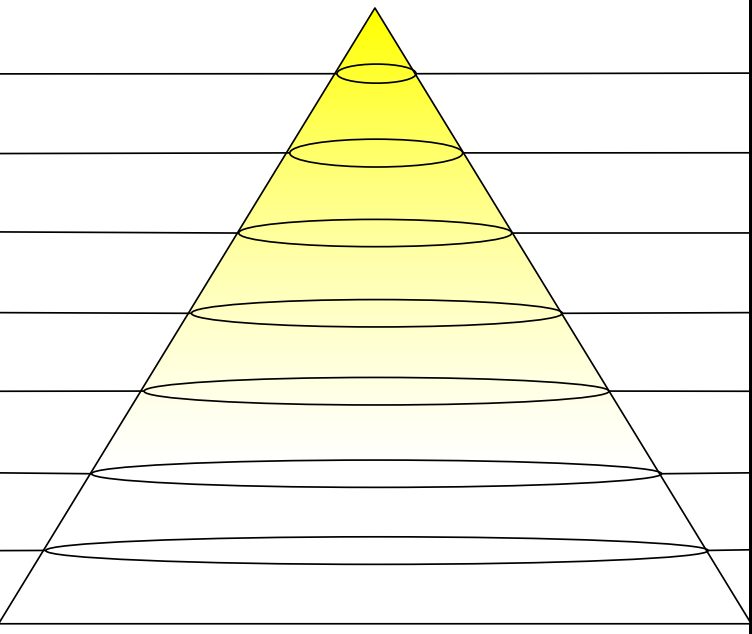
Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
	0	45	90	
	0	5905	5905	5905
	45	5486	4640	4475
	55	5232	4160	3976
	65	4735	3478	2877
	75	3659	1295	389
	85	1399	151	100



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	6486	6486	6486	6486	6335	6335	6335	6335	6054	6054	6054	5796	5796	5796	5559	5559	5559	5448
1	5965	5721	5503	5306	5819	5598	5400	5220	5368	5205	5055	5156	5024	4901	4961	4855	4756	4644
2	5436	5003	4646	4345	5294	4901	4572	4293	4709	4432	4193	4532	4301	4098	4368	4177	4007	3892
3	4958	4397	3963	3618	4824	4311	3909	3585	4150	3805	3522	4000	3707	3460	3862	3614	3401	3284
4	4537	3894	3423	3064	4413	3822	3382	3042	3686	3303	3000	3559	3228	2959	3441	3156	2919	2802
5	4169	3476	2991	2634	4055	3415	2960	2619	3299	2898	2590	3192	2839	2562	3092	2783	2534	2419
6	3847	3126	2642	2295	3743	3074	2617	2284	2976	2568	2264	2884	2521	2244	2798	2476	2224	2112
7	3564	2831	2356	2023	3469	2786	2335	2015	2702	2296	2000	2624	2258	1985	2550	2221	1970	1862
8	3315	2580	2118	1801	3229	2542	2102	1795	2470	2069	1784	2402	2038	1773	2338	2008	1762	1658
9	3095	2366	1919	1618	3018	2333	1906	1613	2271	1879	1604	2212	1853	1596	2156	1828	1587	1488
10	2900	2181	1751	1464	2830	2153	1739	1461	2098	1717	1454	2047	1695	1447	1999	1675	1441	1345

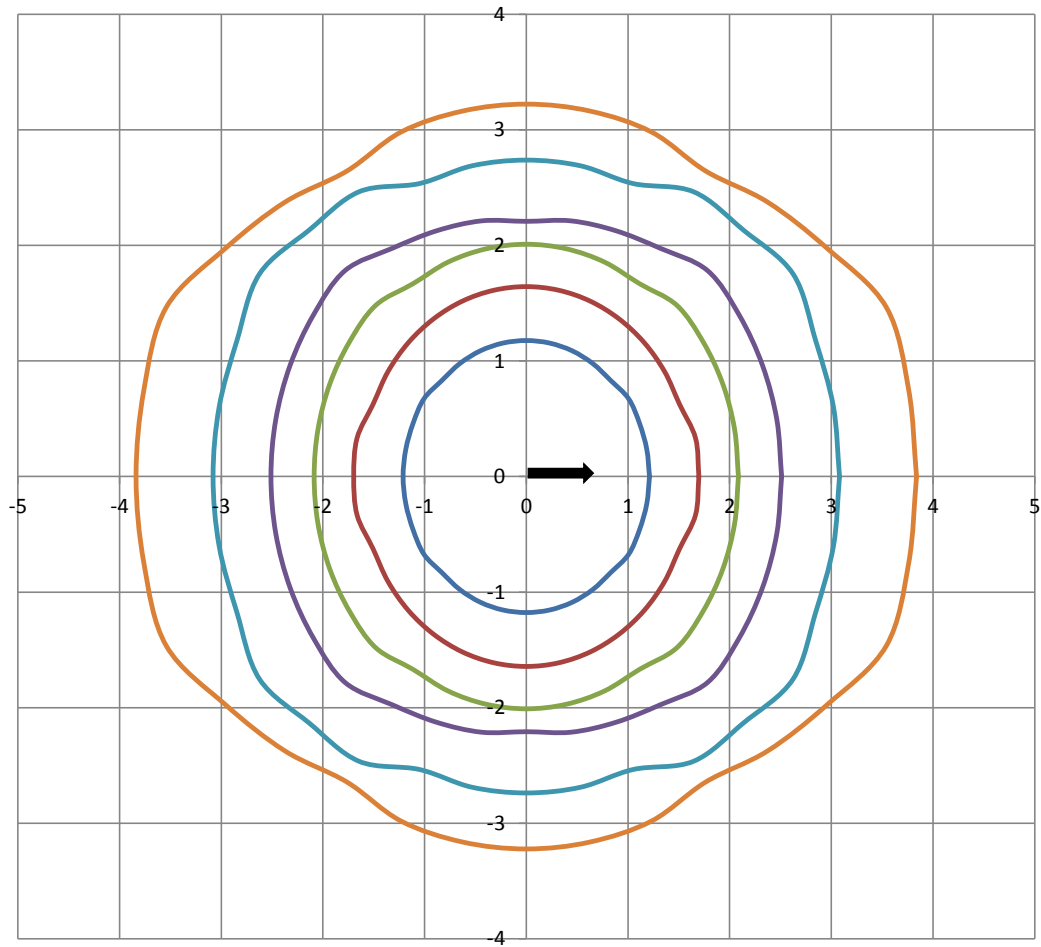
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1920 Candela
Central Cone Intensity:	1918 Candela
Beam Flux:	4281.1 Lumens
Beam Angle (0-180):	116.5 Degrees
Beam Angle (90-270):	115.3 Degrees
Field Angle (0-180):	161.0 Degrees
Field Angle (90-270):	147.8 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		120	5.14
6.00		53.3	7.72
8.00		30.0	10.3
10.0		19.2	12.9
12.0		13.3	15.4
14.0		9.80	18.0
16.0		7.50	20.6



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

5 fc 2 fc 1 fc 0.5 fc 0.2 fc 0.1 fc