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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
L65 4 5000 35K HTA U55 UNI-XXXX

Order Number
11482738
Test Number
11482738.02

Test Date

2016-10-13

Prepared By

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Approved By

Timothy Wagner, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed steel housing, frosted patterned plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Surface mount
Ballast/Driver: One Everline D10CC55UNVTZ-C driver

Luminaire



Luminaire Characteristics

Luminous Length: 44.25 in.
Luminous Width: 4.500 in.
Luminous Height: 2.50 in.

Summary of Results

Total Luminaire Output: 5290 Lumens
Luminaire Efficacy: 114.3 lm/w
Maximum Candela: 1652 Candela

Test Conditions

Test Temperature: 25.4 °C
Voltage: 120.0 VAC
Current: 0.3866 A
Power: 46.30 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.38 %

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



Distribution - Goniophotometer

Distribution Test Conditions

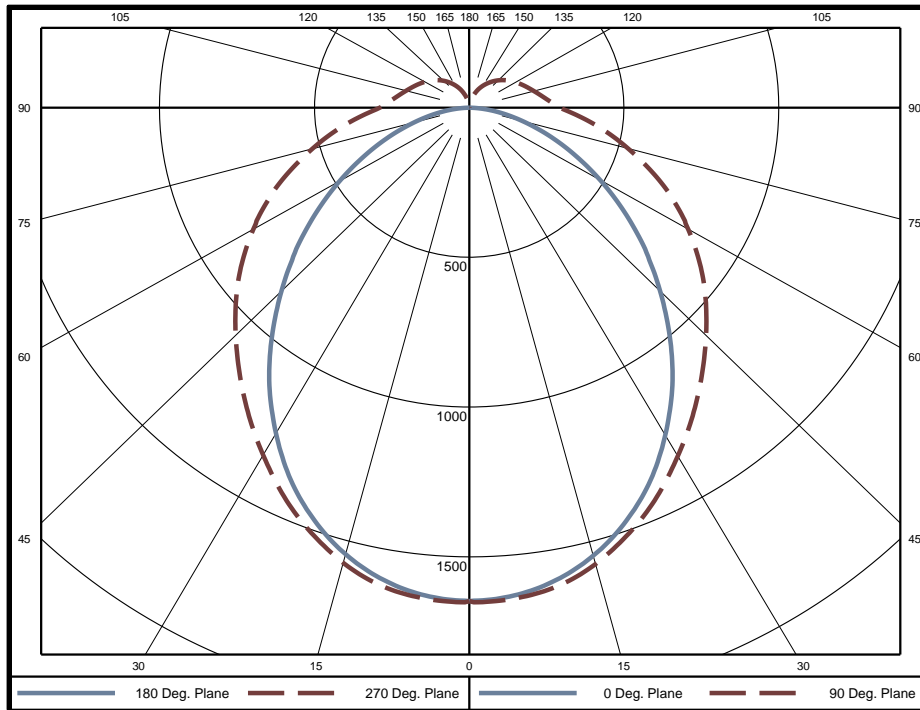
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.3866 A	46.30 W	0.998	60 Hz	5.38 %

Summary of Results

Spacing Criteria
 0-180: 1.15
 90-270: 1.15

Total Lumen Output: 5290 Lumens
Luminaire Efficacy: 114.3 lm/w
Maximum Candela: 1652 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	39.3	0.7%	60-65	299.5	5.7%	120-125	45.8	0.9%
5-10	116.4	2.2%	65-70	262.7	5.0%	125-130	38.9	0.7%
10-15	188.4	3.6%	70-75	222.6	4.2%	130-135	32.1	0.6%
15-20	251.9	4.8%	75-80	183.7	3.5%	135-140	25.6	0.5%
20-25	304.2	5.8%	80-85	146.3	2.8%	140-145	19.8	0.4%
25-30	343.4	6.5%	85-90	111.6	2.1%	145-150	14.4	0.3%
30-35	369.2	7.0%	90-95	91.3	1.7%	150-155	9.9	0.2%
35-40	382.1	7.2%	95-100	81.9	1.5%	155-160	6.3	0.1%
40-45	383.1	7.2%	100-105	73.7	1.4%	160-165	3.5	0.1%
45-50	374.1	7.1%	105-110	66.3	1.3%	165-170	1.6	0.0%
50-55	356.5	6.7%	110-115	59.4	1.1%	170-175	0.4	0.0%
55-60	331.1	6.3%	115-120	52.6	1.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1995	37.7%
0-60	3440	65.0%
0-90	4666	88.2%
90-180	624	11.8%



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	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648	1648
5	1635	1641	1640	1640	1646	1640	1640	1641	1635	1641	1640	1640	1646	1640	1640	1641
10	1602	1609	1613	1617	1624	1617	1613	1609	1602	1609	1613	1617	1624	1617	1613	1609
15	1545	1557	1564	1569	1577	1569	1564	1557	1545	1557	1564	1569	1577	1569	1564	1557
20	1468	1485	1497	1503	1511	1503	1497	1485	1468	1485	1497	1503	1511	1503	1497	1485
25	1372	1393	1411	1423	1433	1423	1411	1393	1372	1393	1411	1423	1433	1423	1411	1393
30	1256	1285	1313	1332	1345	1332	1313	1285	1256	1285	1313	1332	1345	1332	1313	1285
35	1133	1166	1206	1238	1257	1238	1206	1166	1133	1166	1206	1238	1257	1238	1206	1166
40	997	1041	1097	1142	1168	1142	1097	1041	997	1041	1097	1142	1168	1142	1097	1041
45	862	916	987	1049	1080	1049	987	916	862	916	987	1049	1080	1049	987	916
50	734	791	878	958	996	958	878	791	734	791	878	958	996	958	878	791
55	605	676	774	866	909	866	774	676	605	676	774	866	909	866	774	676
60	483	561	676	776	817	776	676	561	483	561	676	776	817	776	676	561
65	371	457	578	685	725	685	578	457	371	457	578	685	725	685	578	457
70	270	360	486	591	628	591	486	360	270	360	486	591	628	591	486	360
75	181	274	401	500	532	500	401	274	181	274	401	500	532	500	401	274
80	106	201	327	417	444	417	327	201	106	201	327	417	444	417	327	201
85	43	139	259	340	362	340	259	139	43	139	259	340	362	340	259	139
90	0	88	201	274	293	274	201	88	0	88	201	274	293	274	201	88
95	0	78	180	243	259	243	180	78	0	78	180	243	259	243	180	78
100	0	72	165	221	235	221	165	72	0	72	165	221	235	221	165	72
105	0	67	151	202	216	202	151	67	0	67	151	202	216	202	151	67
110	0	62	139	186	199	186	139	62	0	62	139	186	199	186	139	62
115	0	57	129	172	185	172	129	57	0	57	129	172	185	172	129	57
120	0	51	118	159	171	159	118	51	0	51	118	159	171	159	118	51
125	0	46	108	146	158	146	108	46	0	46	108	146	158	146	108	46
130	0	40	94	132	143	132	94	40	0	40	94	132	143	132	94	40
135	0	34	80	118	129	118	80	34	0	34	80	118	129	118	80	34
140	0	29	68	104	114	104	68	29	0	29	68	104	114	104	68	29
145	0	25	56	86	98	86	56	25	0	25	56	86	98	86	56	25
150	0	21	46	68	83	68	46	21	0	21	46	68	83	68	46	21
155	0	16	36	52	66	52	36	16	0	16	36	52	66	52	36	16
160	0	12	28	38	49	38	28	12	0	12	28	38	49	38	28	12
165	0	8	18	25	34	25	18	8	0	8	18	25	34	25	18	8
170	0	4	10	13	19	13	10	4	0	4	10	13	19	13	10	4
175	0	1	3	3	2	3	3	1	0	1	3	3	2	3	3	1
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

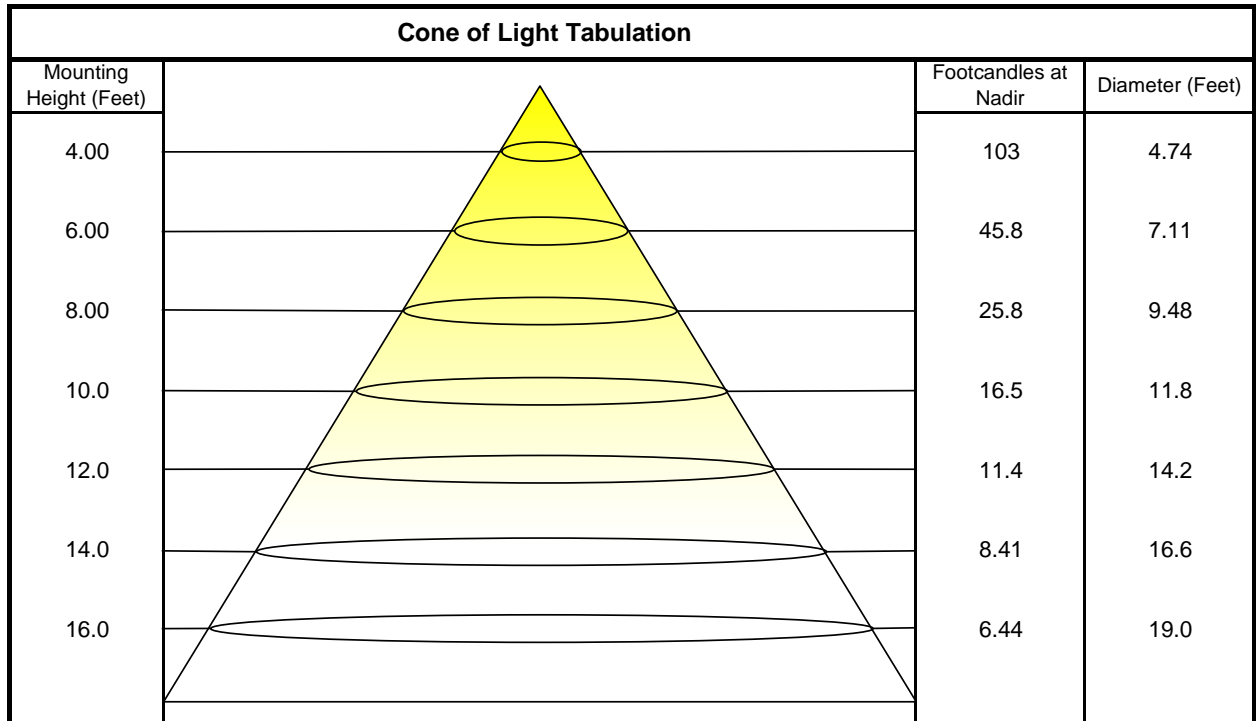
	0	45	90
0	12830	12830	12830
45	8979	7579	7645
55	7591	6490	6876
65	6087	5525	6091
75	4483	4615	5207
85	2355	3885	4393



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	6149	6149	6149	6149	5933	5933	5933	5933	5531	5531	5531	5163	5163	5163	4825	4825	4825	4666
1	5537	5256	5004	4777	5325	5073	4846	4640	4732	4548	4379	4418	4271	4134	4129	4013	3904	3748
2	5016	4555	4173	3852	4816	4400	4052	3757	4110	3823	3575	3842	3607	3401	3594	3405	3235	3084
3	4566	3990	3544	3189	4380	3858	3449	3119	3610	3267	2985	3381	3095	2855	3168	2932	2729	2585
4	4178	3531	3058	2696	4007	3419	2981	2643	3206	2834	2540	3009	2694	2439	2825	2560	2341	2204
5	3842	3154	2673	2318	3685	3057	2611	2277	2874	2490	2195	2704	2374	2115	2545	2263	2037	1907
6	3548	2839	2363	2022	3405	2755	2311	1988	2597	2210	1922	2449	2113	1857	2311	2020	1793	1670
7	3290	2574	2110	1785	3160	2501	2066	1757	2363	1980	1702	2234	1898	1648	2112	1818	1594	1479
8	3062	2348	1899	1591	2944	2285	1862	1568	2164	1789	1521	2050	1718	1475	1943	1650	1430	1322
9	2861	2155	1723	1431	2754	2099	1690	1411	1992	1627	1371	1892	1566	1332	1797	1507	1293	1191
10	2682	1988	1573	1296	2585	1939	1544	1279	1844	1489	1245	1755	1436	1211	1670	1384	1178	1081

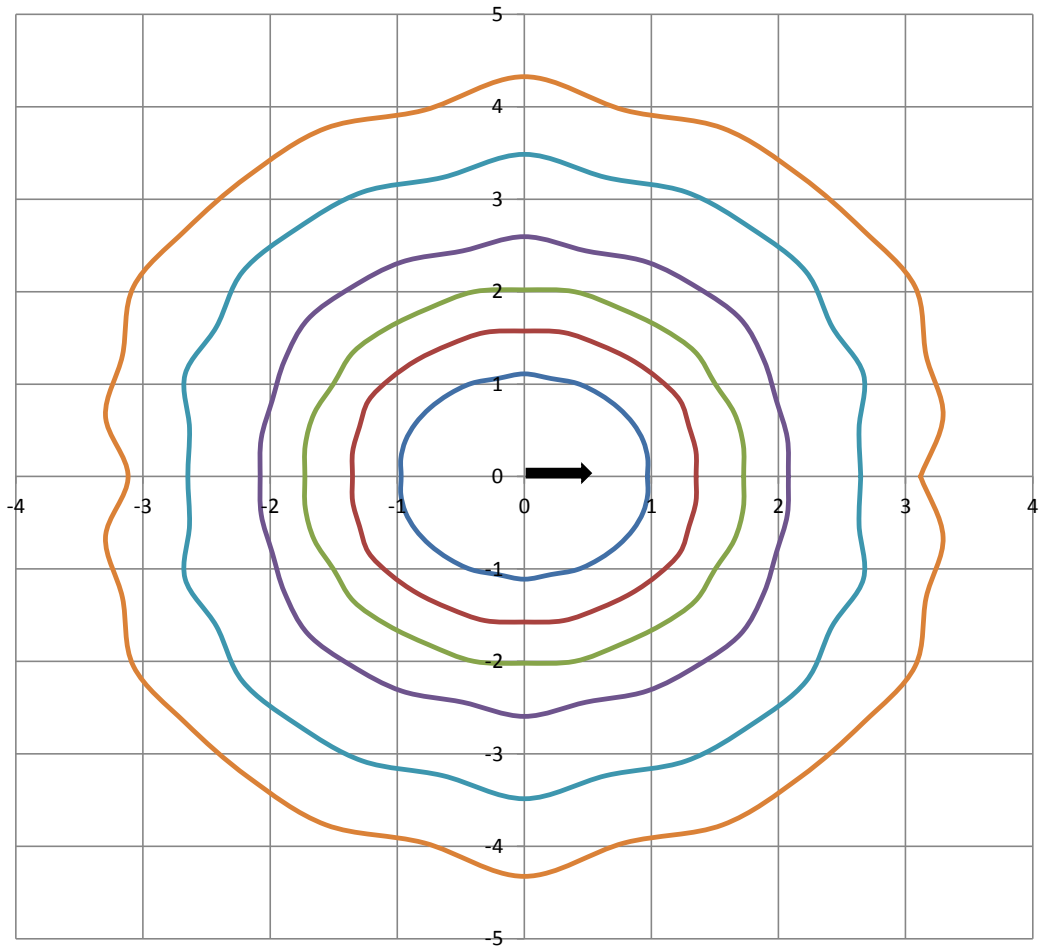
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	1648 Candela
Central Cone Intensity:	1645 Candela
Beam Flux:	2988.2 Lumens
Beam Angle (0-180):	92.9 Degrees
Beam Angle (90-270):	119.2 Degrees
Field Angle (0-180):	151.9 Degrees
Field Angle (90-270):	244.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

