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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
20 Audrey Pl.
Fairfield, NJ 07004-3416

Catalog Number
LC14-4-2100-30K-HTA-1%-UNI-XXXX

Order Number
10657727
Test Number
883427

Test Date

2015-01-22

Prepared By

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Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, white enamel steel reflector, frosted plastic lens enclosure
Lamp: 120 white LEDs
Mounting: Surface wall
Ballast/Driver: One Osram OT30W/PRG1050C/UNV/DIM/L

Luminaire



Luminaire Characteristics

Luminous Length: 3.75 in.
Luminous Width: 45.00 in.
Luminous Height: 3.75 in.

Summary of Results

Total Luminaire Output: 2095 Lumens
Luminaire Efficacy: 99.9 lm/w
Maximum Candela: 623.4 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.1756 A
Power: 20.96 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 4.77 %

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
24.7 °C	120.0 VAC	0.1756 A	20.96 W	0.995	60 Hz	4.77 %

Summary of Results

Spacing Criteria

0-180: 1.12
90-270: 1.19

Total Lumen Output:

2095 Lumens

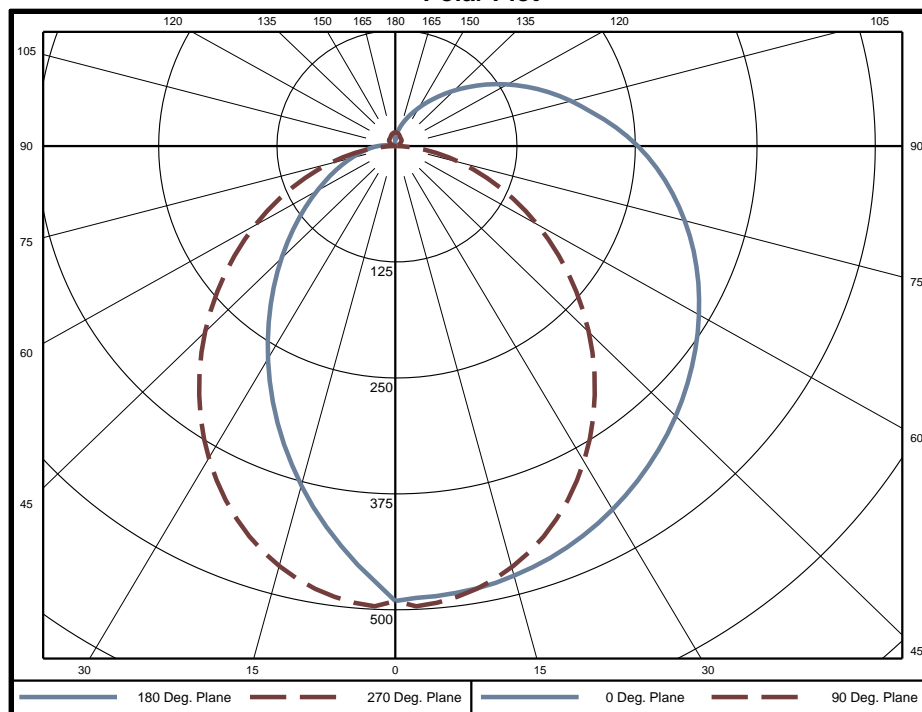
Luminaire Efficacy:

99.9 lm/w

Maximum Candela:

623 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	12.4	0.6%	60-65	116.6	5.6%	120-125	27.2	1.3%
5-10	34.5	1.6%	65-70	109.0	5.2%	125-130	22.5	1.1%
10-15	56.0	2.7%	70-75	100.4	4.8%	130-135	18.3	0.9%
15-20	75.5	3.6%	75-80	91.1	4.3%	135-140	14.4	0.7%
20-25	92.4	4.4%	80-85	81.7	3.9%	140-145	11.1	0.5%
25-30	106.2	5.1%	85-90	72.4	3.5%	145-150	8.1	0.4%
30-35	116.8	5.6%	90-95	63.9	3.0%	150-155	5.6	0.3%
35-40	124.0	5.9%	95-100	56.2	2.7%	155-160	3.9	0.2%
40-45	127.9	6.1%	100-105	49.6	2.4%	160-165	2.5	0.1%
45-50	128.8	6.1%	105-110	43.6	2.1%	165-170	1.5	0.1%
50-55	126.9	6.1%	110-115	37.8	1.8%	170-175	0.9	0.0%
55-60	122.7	5.9%	115-120	32.3	1.5%	175-180	0.3	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	113	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	491	491	491	491	491	491	491	491	491	491	491	491	491	491	491	491
5	487	521	510	501	494	475	462	458	453	458	462	475	494	501	510	521
10	485	549	528	505	485	453	433	423	417	423	433	453	485	505	528	549
15	479	573	540	504	469	428	400	388	380	388	400	428	469	504	540	573
20	473	592	548	496	448	398	366	350	342	350	366	398	448	496	548	592
25	464	606	550	482	421	364	329	313	305	313	329	364	421	482	550	606
30	453	616	546	464	391	328	292	275	268	275	292	328	391	464	546	616
35	441	622	538	440	357	290	255	239	232	239	255	290	357	440	538	622
40	427	623	526	413	320	252	219	205	199	205	219	252	320	413	526	623
45	413	620	511	383	282	215	185	173	168	173	185	215	282	383	511	620
50	398	613	491	352	244	178	153	144	140	144	153	178	244	352	491	613
55	382	601	469	320	206	143	124	118	116	118	124	143	206	320	469	601
60	366	586	445	288	169	111	98	95	94	95	98	111	169	288	445	586
65	349	567	418	256	134	82	75	76	75	76	75	82	134	256	418	567
70	331	544	391	224	101	58	56	59	60	59	56	58	101	224	391	544
75	313	519	362	194	71	37	40	45	46	45	40	37	71	194	362	519
80	294	491	334	165	43	22	28	33	35	33	28	22	43	165	334	491
85	274	460	305	139	19	11	18	24	26	24	18	11	19	139	305	460
90	253	429	278	117	0	4	11	16	18	16	11	4	0	117	278	429
95	231	396	252	98	0	0	4	8	9	8	4	0	0	98	252	396
100	209	362	227	83	1	0	0	1	2	1	0	0	1	83	227	362
105	189	329	204	73	2	0	0	1	1	1	0	0	2	73	204	329
110	170	295	182	64	3	0	0	0	1	0	0	0	3	64	182	295
115	151	263	162	58	5	0	0	0	0	0	0	0	5	58	162	263
120	133	231	143	53	6	0	0	0	0	0	0	0	6	53	143	231
125	116	201	126	49	7	0	0	0	0	0	0	0	7	49	126	201
130	99	173	110	46	8	0	0	0	0	0	0	0	8	46	110	173
135	84	147	96	42	9	0	0	0	0	0	0	0	9	42	96	147
140	70	123	82	37	10	0	0	0	0	0	0	0	10	37	82	123
145	57	102	69	32	10	0	0	0	0	0	0	0	10	32	69	102
150	46	84	53	27	10	0	0	0	0	0	0	0	10	27	53	84
155	37	68	39	23	11	1	0	0	0	0	0	1	11	23	39	68
160	29	48	30	21	12	4	0	0	0	0	0	4	12	21	30	48
165	23	31	25	20	13	6	1	0	0	0	1	6	13	20	25	31
170	17	20	21	19	14	9	5	2	1	2	5	9	14	19	21	20
175	13	13	17	17	15	12	9	7	4	7	9	12	15	17	17	13
180	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

Vertical Angle (Degrees)



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	2399	2399	2399	2399	2297	2297	2297	2297	2106	2106	2106	1931	1931	1931	1771	1771	1771	1696
1	2127	2004	1893	1793	2027	1916	1816	1726	1752	1672	1598	1601	1537	1478	1462	1412	1365	1292
2	1914	1718	1555	1418	1819	1643	1495	1370	1502	1382	1278	1372	1275	1189	1252	1174	1105	1035
3	1734	1493	1307	1158	1646	1429	1259	1122	1308	1167	1051	1196	1080	982	1092	998	916	851
4	1581	1314	1118	968	1500	1258	1079	940	1154	1003	884	1057	931	829	967	863	776	715
5	1449	1167	970	825	1375	1120	938	802	1030	875	756	946	815	712	867	757	669	612
6	1335	1047	853	714	1268	1005	825	695	927	772	657	853	721	620	784	672	584	531
7	1236	945	757	625	1175	909	734	609	840	688	578	776	644	547	715	602	516	467
8	1148	860	678	554	1093	828	658	540	767	619	513	710	581	487	657	544	460	415
9	1071	787	613	495	1020	759	595	483	705	561	460	654	528	437	606	496	414	372
10	1003	724	557	446	956	699	541	436	651	511	415	606	482	395	563	454	376	336

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	30.7	4.97
6.00	13.6	7.46
8.00	7.67	9.94
10.0	4.91	12.4
12.0	3.41	14.9
14.0	2.50	17.4
16.0	1.92	19.9

Cone of Light Plot

