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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting
Stephen Bambush
20 Audrey Pl.
Fairfield, NJ 07004-3416

Catalog Number
LW2-2-2100-30K-HTA-S30-UNI-XXXX
Order Number
10626167
Test Number
856719

Test Date

2014-12-29

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: 60 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L

Luminaire



Luminaire Characteristics

Luminous Length: 24.00 in.
Luminous Width: 4.500 in.
Luminous Height: 1.50 in.

Summary of Results

Total Luminaire Output: 2190 Lumens
Luminaire Efficacy: 94.0 lm/w
Maximum Candela: 648.2 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.1949 A
Power: 23.29 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 5.62 %

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	0.1949 A	23.29 W	0.995	60 Hz	5.62 %

Summary of Results

Spacing Criteria

0-180: 1.19
90-270: 1.29

Total Lumen Output:

2190 Lumens

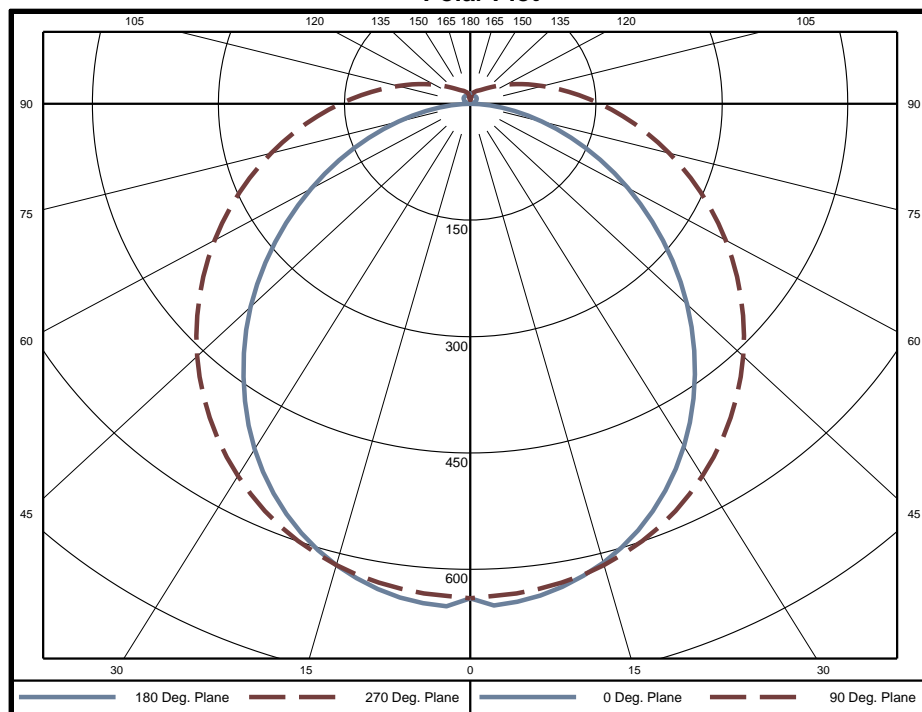
Luminaire Efficacy:

94.0 lm/w

Maximum Candela:

648 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	16.2	0.74%	60-65	129.6	5.92%	120-125	12.1	0.55%
5-10	45.0	2.06%	65-70	115.1	5.26%	125-130	9.9	0.45%
10-15	73.3	3.35%	70-75	99.7	4.55%	130-135	8.3	0.38%
15-20	98.8	4.51%	75-80	84.1	3.84%	135-140	6.9	0.31%
20-25	120.6	5.51%	80-85	69.1	3.16%	140-145	5.7	0.26%
25-30	138.0	6.30%	85-90	55.5	2.53%	145-150	4.7	0.22%
30-35	150.5	6.87%	90-95	44.4	2.03%	150-155	3.8	0.17%
35-40	158.0	7.21%	95-100	35.7	1.63%	155-160	2.9	0.13%
40-45	160.5	7.33%	100-105	28.6	1.31%	160-165	2.1	0.10%
45-50	158.3	7.23%	105-110	22.9	1.05%	165-170	1.4	0.06%
50-55	151.8	6.93%	110-115	18.4	0.84%	170-175	0.8	0.04%
55-60	142.0	6.49%	115-120	14.8	0.68%	175-180	0.3	0.01%



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	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637
5	644	633	633	634	633	634	633	633	646	633	633	634	633	634	633	633
10	632	622	624	626	627	626	624	622	635	622	624	626	627	626	624	622
15	612	604	609	614	616	614	609	604	616	604	609	614	616	614	609	604
20	585	578	589	597	600	597	589	578	589	578	589	597	600	597	589	578
25	550	546	562	574	579	574	562	546	554	546	562	574	579	574	562	546
30	509	508	531	547	554	547	531	508	514	508	531	547	554	547	531	508
35	464	466	496	516	525	516	496	466	468	466	496	516	525	516	496	466
40	415	421	459	483	494	483	459	421	419	421	459	483	494	483	459	421
45	365	374	419	447	460	447	419	374	370	374	419	447	460	447	419	374
50	315	326	378	409	425	409	378	326	319	326	378	409	425	409	378	326
55	265	279	336	371	388	371	336	279	268	279	336	371	388	371	336	279
60	217	233	296	334	352	334	296	233	219	233	296	334	352	334	296	233
65	171	190	257	296	315	296	257	190	173	190	257	296	315	296	257	190
70	128	150	221	261	280	261	221	150	129	150	221	261	280	261	221	150
75	88	113	187	227	246	227	187	113	88	113	187	227	246	227	187	113
80	54	82	156	195	213	195	156	82	53	82	156	195	213	195	156	82
85	24	57	128	165	183	165	128	57	23	57	128	165	183	165	128	57
90	0	39	104	139	155	139	104	39	0	39	104	139	155	139	104	39
95	1	26	85	115	130	115	85	26	1	26	85	115	130	115	85	26
100	2	18	68	95	108	95	68	18	2	18	68	95	108	95	68	18
105	3	14	55	78	89	78	55	14	3	14	55	78	89	78	55	14
110	5	12	44	64	74	64	44	12	5	12	44	64	74	64	44	12
115	6	11	36	52	60	52	36	11	6	11	36	52	60	52	36	11
120	8	11	30	43	50	43	30	11	8	11	30	43	50	43	30	11
125	9	11	25	36	41	36	25	11	9	11	25	36	41	36	25	11
130	10	12	22	30	34	30	22	12	10	12	22	30	34	30	22	12
135	11	12	20	26	29	26	20	12	11	12	20	26	29	26	20	12
140	11	12	18	23	25	23	18	12	11	12	18	23	25	23	18	12
145	11	12	17	20	22	20	17	12	12	12	17	20	22	20	17	12
150	11	11	16	19	20	19	16	11	11	11	16	19	20	19	16	11
155	11	11	15	17	19	17	15	11	11	11	15	17	19	17	15	11
160	11	10	13	15	17	15	13	10	12	10	13	15	17	15	13	10
165	12	11	12	13	15	13	12	11	12	11	12	13	15	13	12	11
170	13	12	10	11	14	11	10	12	13	12	10	11	14	11	10	12
175	13	12	10	9	5	9	10	12	13	12	10	9	5	9	10	12
180	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

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

	0	45	90
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0



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	2554	2554	2554	2554	2469	2469	2469	2469	2310	2310	2310	2164	2164	2164	2030	2030	2030	1967
1	2290	2169	2060	1963	2205	2097	1998	1909	1961	1881	1808	1837	1772	1713	1722	1671	1623	1560
2	2070	1873	1710	1573	1989	1811	1663	1536	1696	1573	1466	1590	1489	1400	1492	1409	1336	1274
3	1881	1636	1446	1295	1806	1584	1410	1269	1486	1339	1218	1395	1272	1169	1310	1208	1121	1062
4	1719	1445	1244	1091	1650	1400	1215	1071	1316	1158	1032	1238	1103	994	1166	1052	957	901
5	1579	1288	1085	935	1516	1250	1061	920	1178	1014	889	1110	970	859	1048	927	830	776
6	1457	1158	957	813	1399	1125	937	801	1062	898	776	1004	861	752	950	825	728	677
7	1350	1048	853	716	1298	1020	836	706	965	803	685	915	772	665	867	741	646	598
8	1256	956	767	637	1208	931	752	628	883	724	611	838	697	594	796	671	578	533
9	1173	876	694	572	1130	854	682	564	812	658	550	773	635	535	736	612	521	479
10	1099	807	633	517	1060	788	622	511	751	602	498	716	581	486	683	562	474	433

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	39.8	4.95
6.00	17.7	7.42
8.00	9.96	9.89
10.0	6.37	12.4
12.0	4.43	14.8
14.0	3.25	17.3
16.0	2.49	19.8

Cone of Light Plot

