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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
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Fairfield, NJ 07004-3416

Catalog Number
LW14-2-2100-35K-HTA-S30-UNI-XXXX (430mA)

Order Number
10644857
Test Number
868183

Test Date

2015-01-14

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 OT30W/PRG1050C/UNV/DIM/L

Luminaire



Luminaire Characteristics

Luminous Length: 24.00 in.
Luminous Width: 4.750 in.
Luminous Height: 1.75 in.

Summary of Results

Total Luminaire Output: 2143 Lumens
Luminaire Efficacy: 96.7 lm/w
Maximum Candela: 634.2 Candela

Electrical Data

Test Temperature: 24.4 °C
Voltage: 120.0 VAC
Current: 0.1856 A
Power: 22.16 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 4.99 %

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



Distribution - Goniophotometer

Distribution Test Conditions

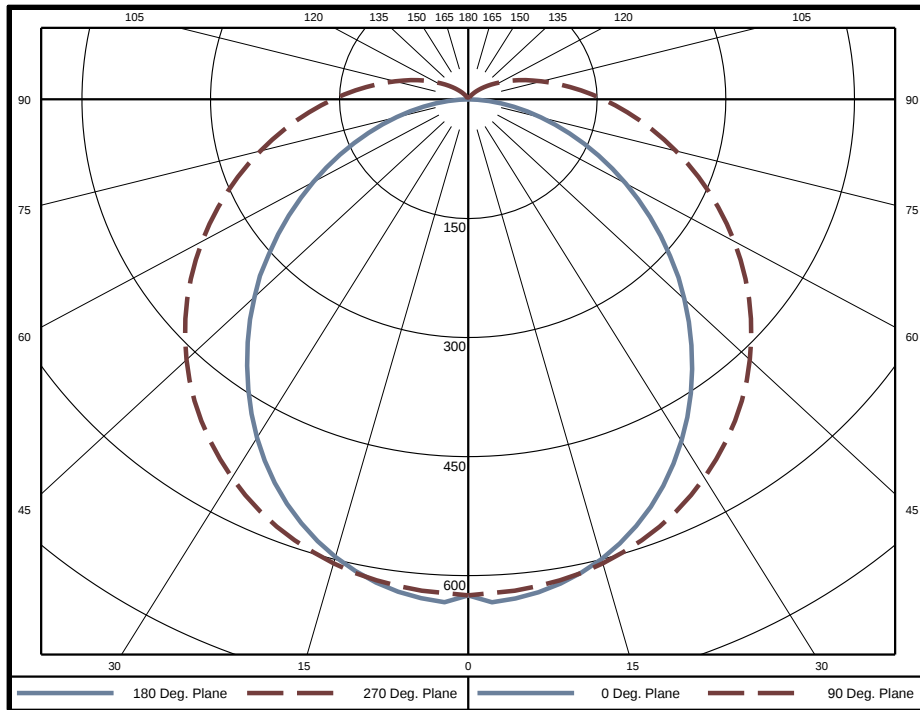
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.1856 A	22.16 W	0.995	60 Hz	4.99 %

Summary of Results

Spacing Criteria
 0-180: 1.18
 90-270: 1.31

Total Lumen Output: 2143 Lumens
Luminaire Efficacy: 96.7 lm/w
Maximum Candela: 634 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	15.8	0.7%	60-65	130.2	6.1%	120-125	8.5	0.4%
5-10	44.2	2.1%	65-70	116.3	5.4%	125-130	5.8	0.3%
10-15	71.9	3.4%	70-75	101.2	4.7%	130-135	3.8	0.2%
15-20	97.0	4.5%	75-80	85.8	4.0%	135-140	2.4	0.1%
20-25	118.6	5.5%	80-85	70.9	3.3%	140-145	1.3	0.1%
25-30	135.9	6.3%	85-90	57.0	2.7%	145-150	0.7	0.0%
30-35	148.5	6.9%	90-95	45.5	2.1%	150-155	0.3	0.0%
35-40	156.3	7.3%	95-100	36.2	1.7%	155-160	0.1	0.0%
40-45	159.2	7.4%	100-105	28.2	1.3%	160-165	0.0	0.0%
45-50	157.5	7.4%	105-110	21.7	1.0%	165-170	0.0	0.0%
50-55	151.6	7.1%	110-115	16.3	0.8%	170-175	0.0	0.0%
55-60	142.2	6.6%	115-120	11.9	0.6%	175-180	0.0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
	5	631	621	621	622	621	622	621	621	631	621	621	622	621	622	621	621
	10	619	610	613	615	615	615	613	610	618	610	613	615	615	615	613	610
	15	600	592	599	603	605	603	599	592	597	592	599	603	605	603	599	592
	20	572	566	580	587	591	587	580	566	568	566	580	587	591	587	580	566
	25	537	535	556	567	573	567	556	535	533	535	556	567	573	567	556	535
	30	497	497	526	542	550	542	526	497	492	497	526	542	550	542	526	497
	35	452	456	493	514	524	514	493	456	446	456	493	514	524	514	493	456
	40	404	412	457	483	496	483	457	412	400	412	457	483	496	483	457	412
	45	356	366	419	449	464	449	419	366	352	366	419	449	464	449	419	366
	50	307	320	379	413	430	413	379	320	303	320	379	413	430	413	379	320
	55	258	274	338	375	394	375	338	274	255	274	338	375	394	375	338	274
	60	212	230	299	338	358	338	299	230	208	230	299	338	358	338	299	230
	65	167	189	261	301	321	301	261	189	165	189	261	301	321	301	261	189
	70	126	150	225	265	285	265	225	150	124	150	225	265	285	265	225	150
	75	88	115	191	231	250	231	191	115	86	115	191	231	250	231	191	115
	80	54	85	160	199	217	199	160	85	53	85	160	199	217	199	160	85
	85	24	61	132	169	186	169	132	61	24	61	132	169	186	169	132	61
	90	0	41	108	142	158	142	108	41	0	41	108	142	158	142	108	41
	95	0	27	87	118	132	118	87	27	0	27	87	118	132	118	87	27
	100	0	18	69	96	109	96	69	18	0	18	69	96	109	96	69	18
	105	0	11	54	77	88	77	54	11	0	11	54	77	88	77	54	11
	110	0	7	42	61	71	61	42	7	0	7	42	61	71	61	42	7
	115	0	5	31	48	56	48	31	5	0	5	31	48	56	48	31	5
	120	0	3	23	37	43	37	23	3	0	3	23	37	43	37	23	3
	125	0	2	17	27	33	27	17	2	0	2	17	27	33	27	17	2
	130	0	1	12	20	24	20	12	1	0	1	12	20	24	20	12	1
	135	0	1	8	14	17	14	8	1	0	1	8	14	17	14	8	1
	140	0	0	5	9	12	9	5	0	0	0	5	9	12	9	5	0
	145	0	0	3	6	7	6	3	0	0	0	3	6	7	6	3	0
	150	0	0	2	3	4	3	2	0	0	0	2	3	4	3	2	0
	155	0	0	1	1	2	1	1	0	0	0	1	1	2	1	1	0
	160	0	0	0	0	1	0	0	0	0	0	0	0	1	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/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)		0	45	90
	45	6378	6135	6518
	55	5549	5549	6125
	65	4658	5029	5774
	75	3616	4635	5538
	85	2072	4514	5571



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	2508	2508	2508	2508	2429	2429	2429	2429	2281	2281	2281	2145	2145	2145	2020	2020	2020	1961
1	2246	2126	2018	1921	2166	2058	1960	1872	1932	1852	1779	1816	1751	1692	1709	1658	1610	1550
2	2028	1833	1672	1536	1953	1776	1629	1503	1669	1546	1440	1570	1469	1380	1479	1396	1322	1263
3	1842	1600	1413	1264	1772	1552	1379	1240	1460	1315	1195	1376	1254	1151	1298	1196	1108	1051
4	1683	1412	1214	1063	1618	1371	1188	1046	1293	1136	1011	1221	1087	978	1154	1040	945	891
5	1546	1259	1059	911	1486	1224	1037	897	1157	995	870	1095	954	844	1036	916	819	767
6	1426	1131	934	792	1372	1101	916	781	1043	881	759	990	847	738	939	815	718	668
7	1321	1024	832	697	1272	998	817	688	948	787	670	901	759	653	857	732	636	590
8	1229	934	748	620	1185	911	735	613	867	710	598	826	686	583	787	662	569	525
9	1148	856	677	556	1108	836	666	550	797	645	538	761	624	525	727	604	513	472
10	1076	789	617	503	1039	771	608	498	737	589	487	705	571	477	675	554	466	427

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	39.1	4.97
6.00	17.4	7.45
8.00	9.76	9.94
10.0	6.25	12.4
12.0	4.34	14.9
14.0	3.19	17.4
16.0	2.44	19.9

Cone of Light Plot

