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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
LW2-2-2100-35K-HTA-S30-UNI-XXXX (430mA)

Order Number
10644857
Test Number
868186

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: 4.500 in.
Luminous Height: 1.75 in.

Summary of Results

Total Luminaire Output:	2164 Lumens
Luminaire Efficacy:	98.2 lm/w
Maximum Candela:	639.5 Candela

Electrical Data

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.1845 A
Power:	22.03 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	5.08 %

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	0.1845 A	22.03 W	0.995	60 Hz	5.08 %

Summary of Results

Spacing Criteria

0-180: 1.18

90-270: 1.29

Total Lumen Output:

2164 Lumens

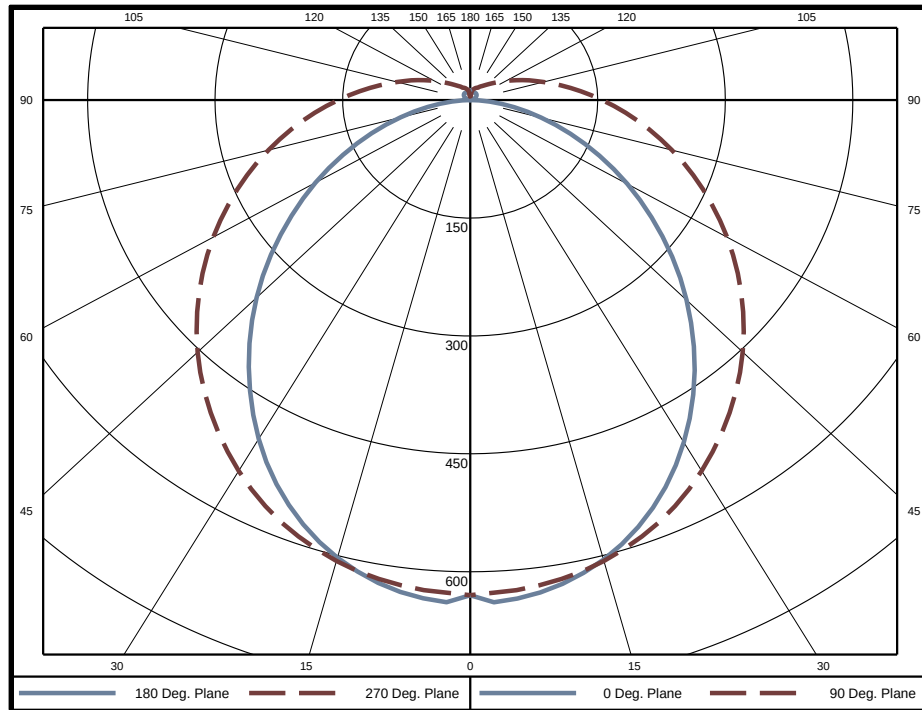
Luminaire Efficacy:

98.2 lm/w

Maximum Candela:

639 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	16.0	0.7%	60-65	128.1	5.9%	120-125	11.9	0.5%
5-10	44.5	2.1%	65-70	114.1	5.3%	125-130	9.7	0.4%
10-15	72.3	3.3%	70-75	99.1	4.6%	130-135	8.0	0.4%
15-20	97.4	4.5%	75-80	83.8	3.9%	135-140	6.6	0.3%
20-25	118.9	5.5%	80-85	69.1	3.2%	140-145	5.5	0.3%
25-30	136.0	6.3%	85-90	55.6	2.6%	145-150	4.5	0.2%
30-35	148.1	6.8%	90-95	44.6	2.1%	150-155	3.6	0.2%
35-40	155.4	7.2%	95-100	35.9	1.7%	155-160	2.7	0.1%
40-45	157.9	7.3%	100-105	28.7	1.3%	160-165	2.0	0.1%
45-50	155.8	7.2%	105-110	22.9	1.1%	165-170	1.3	0.1%
50-55	149.6	6.9%	110-115	18.3	0.8%	170-175	0.7	0.0%
55-60	140.1	6.5%	115-120	14.7	0.7%	175-180	0.2	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	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
	5	637	626	626	626	626	626	626	626	636	626	626	626	626	626	626	626
	10	625	615	617	619	619	619	617	615	624	615	617	619	619	619	617	615
	15	605	596	602	606	607	606	602	596	603	596	602	606	607	606	602	596
	20	578	571	582	588	591	588	582	571	574	571	582	588	591	588	582	571
	25	543	539	556	566	570	566	556	539	539	539	556	566	570	566	556	539
	30	502	501	524	538	545	538	524	501	498	501	524	538	545	538	524	501
	35	457	459	490	508	516	508	490	459	452	459	490	508	516	508	490	459
	40	409	415	452	475	486	475	452	415	404	415	452	475	486	475	452	415
	45	360	368	413	440	453	440	413	368	355	368	413	440	453	440	413	368
	50	310	321	372	404	419	404	372	321	306	321	372	404	419	404	372	321
	55	260	274	332	367	384	367	332	274	257	274	332	367	384	367	332	274
	60	213	229	293	331	349	331	293	229	210	229	293	331	349	331	293	229
	65	168	186	255	295	313	295	255	186	165	186	255	295	313	295	255	186
	70	125	147	220	260	279	260	220	147	123	147	220	260	279	260	220	147
	75	86	112	186	227	246	227	186	112	85	112	186	227	246	227	186	112
	80	52	81	156	195	214	195	156	81	51	81	156	195	214	195	156	81
	85	23	57	128	166	183	166	128	57	22	57	128	166	183	166	128	57
	90	0	39	105	140	155	140	105	39	0	39	105	140	155	140	105	39
	95	1	26	85	116	130	116	85	26	1	26	85	116	130	116	85	26
	100	2	18	68	96	108	96	68	18	2	18	68	96	108	96	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	29	42	49	42	29	11	8	11	29	42	49	42	29	11
	125	9	11	25	35	40	35	25	11	9	11	25	35	40	35	25	11
	130	10	12	21	29	33	29	21	12	10	12	21	29	33	29	21	12
	135	10	11	19	25	28	25	19	11	10	11	19	25	28	25	19	11
	140	11	11	18	22	24	22	18	11	11	11	18	22	24	22	18	11
	145	11	11	17	20	21	20	17	11	11	11	17	20	21	20	17	11
	150	11	11	16	18	18	18	16	11	11	11	16	18	18	18	16	11
	155	11	10	14	16	17	16	14	10	11	10	14	16	17	16	14	10
	160	11	9	13	14	16	14	13	9	11	9	13	14	16	14	13	9
	165	12	10	11	12	14	12	11	10	12	10	11	12	14	12	11	10
	170	12	11	9	9	13	9	9	11	12	11	9	9	13	9	9	11
	175	13	12	9	8	5	8	9	12	13	12	9	8	5	8	9	12
	180	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Average Luminance (cd/m²)

		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degrees)	45	6805	6317	6624
	55	5900	5669	6181
	65	4926	5103	5804
	75	3762	4653	5557
	85	2075	4470	5549



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	2524	2524	2524	2524	2440	2440	2440	2440	2282	2282	2282	2138	2138	2138	2005	2005	2005	1943
1	2262	2142	2034	1937	2178	2070	1973	1884	1936	1857	1784	1813	1749	1690	1699	1649	1601	1539
2	2044	1849	1687	1552	1964	1788	1641	1516	1674	1552	1446	1569	1469	1380	1472	1390	1317	1256
3	1857	1615	1427	1278	1783	1563	1391	1252	1466	1321	1201	1376	1254	1152	1293	1192	1105	1046
4	1697	1426	1228	1076	1629	1382	1198	1056	1299	1142	1018	1222	1088	980	1150	1037	944	888
5	1559	1271	1071	922	1496	1234	1047	907	1162	1000	877	1096	956	847	1033	914	818	765
6	1438	1143	945	802	1382	1110	925	790	1048	886	765	991	849	741	937	814	718	667
7	1333	1035	842	706	1281	1007	825	696	953	793	676	902	761	656	855	731	636	589
8	1240	943	757	628	1193	919	742	620	871	715	603	827	688	586	786	662	570	525
9	1158	865	685	564	1115	843	673	557	802	649	542	763	626	528	726	604	514	472
10	1085	797	625	510	1046	778	614	504	741	593	491	707	573	479	674	554	467	427

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	39.4	4.93
6.00	17.5	7.39
8.00	9.84	9.86
10.0	6.30	12.3
12.0	4.37	14.8
14.0	3.21	17.2
16.0	2.46	19.7

Cone of Light Plot

