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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
LW5-2-2100-30K-HTA-S30-UNI-XXXX
Order Number
10724738
Test Number
997164

Test Date

2015-03-31

Prepared By

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Approved By

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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: 1.38 in.

Summary of Results

Total Luminaire Output:	1997 Lumens
Luminaire Efficacy:	89.2 lm/w
Maximum Candela:	561 Candela

Electrical Data

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.1875 A
Power:	22.39 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	4.87 %

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



Distribution - Goniophotometer

Distribution Test Conditions

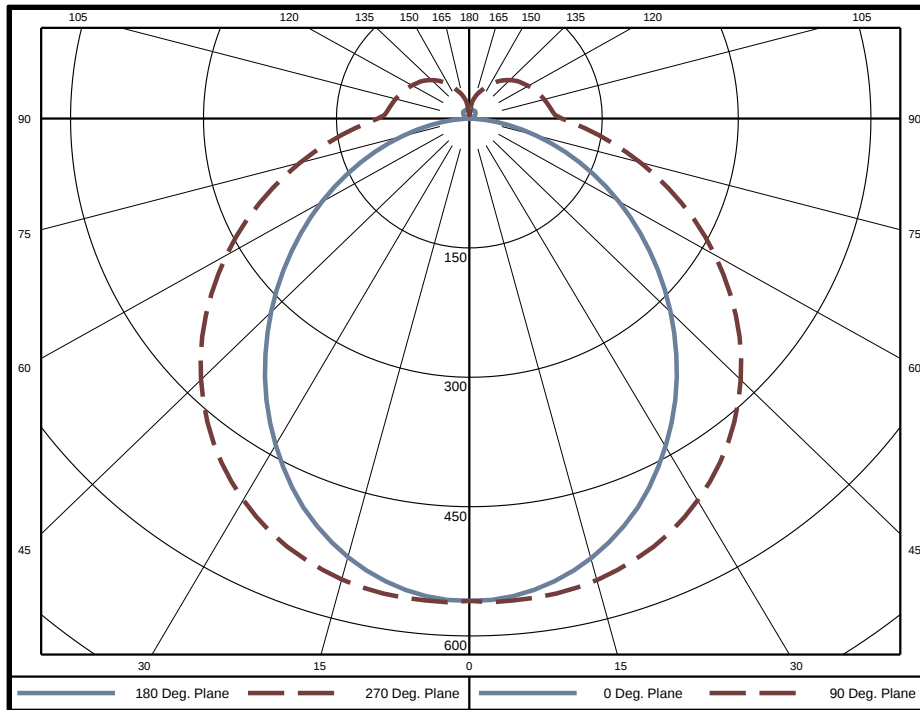
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.1875 A	22.39 W	0.995	60 Hz	4.87 %

Summary of Results

Spacing Criteria
 0-180: 1.17
 90-270: 1.35

Total Lumen Output: 1997 Lumens
Luminaire Efficacy: 89.2 lm/w
Maximum Candela: 561 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	14.2	0.7%	60-65	116.0	5.8%	120-125	21.0	1.1%
5-10	39.6	2.0%	65-70	101.0	5.1%	125-130	18.9	0.9%
10-15	64.6	3.2%	70-75	84.5	4.2%	130-135	16.7	0.8%
15-20	87.5	4.4%	75-80	67.6	3.4%	135-140	14.3	0.7%
20-25	107.4	5.4%	80-85	51.5	2.6%	140-145	11.8	0.6%
25-30	123.5	6.2%	85-90	37.3	1.9%	145-150	9.3	0.5%
30-35	135.4	6.8%	90-95	29.8	1.5%	150-155	7.0	0.4%
35-40	142.8	7.2%	95-100	28.2	1.4%	155-160	4.9	0.2%
40-45	145.6	7.3%	100-105	27.1	1.4%	160-165	3.2	0.2%
45-50	143.9	7.2%	105-110	25.8	1.3%	165-170	1.9	0.1%
50-55	138.0	6.9%	110-115	24.4	1.2%	170-175	0.9	0.0%
55-60	128.5	6.4%	115-120	22.8	1.1%	175-180	0.3	0.0%

Zone	Lumens	% of Luminaire
0-40	714.9	35.8%
0-60	1271.0	63.6%
0-90	1728.9	86.6%
90-180	268.4	13.4%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical 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	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559	559
	5	556	557	556	557	561	557	556	557	556	557	556	557	561	557	556	557
	10	545	547	550	554	559	554	550	547	545	547	550	554	559	554	550	547
	15	527	531	539	547	553	547	539	531	527	531	539	547	553	547	539	531
	20	502	510	523	535	543	535	523	510	502	510	523	535	543	535	523	510
	25	472	483	502	520	530	520	502	483	472	483	502	520	530	520	502	483
	30	437	451	477	499	510	499	477	451	437	451	477	499	510	499	477	451
	35	399	416	447	474	487	474	447	416	399	416	447	474	487	474	447	416
	40	357	378	414	446	459	446	414	378	357	378	414	446	459	446	414	378
	45	316	339	379	413	428	413	379	339	316	339	379	413	428	413	379	339
	50	273	298	341	378	393	378	341	298	273	298	341	378	393	378	341	298
	55	232	258	302	340	355	340	302	258	232	258	302	340	355	340	302	258
	60	191	218	262	301	316	301	262	218	191	218	262	301	316	301	262	218
	65	152	179	223	261	276	261	223	179	152	179	223	261	276	261	223	179
	70	114	141	184	222	236	222	184	141	114	141	184	222	236	222	184	141
	75	78	105	148	184	198	184	148	105	78	105	148	184	198	184	148	105
	80	46	73	114	149	161	149	114	73	46	73	114	149	161	149	114	73
	85	18	46	84	117	129	117	84	46	18	46	84	117	129	117	84	46
	90	0	26	62	92	103	92	62	26	0	26	62	92	103	92	62	26
	95	0	24	57	83	93	83	57	24	0	24	57	83	93	83	57	24
	100	0	24	56	80	90	80	56	24	0	24	56	80	90	80	56	24
	105	0	24	55	78	86	78	55	24	0	24	55	78	86	78	55	24
	110	2	24	53	75	83	75	53	24	2	24	53	75	83	75	53	24
	115	4	24	52	72	79	72	52	24	4	24	52	72	79	72	52	24
	120	6	25	50	69	76	69	50	25	6	25	50	69	76	69	50	25
	125	8	24	48	66	72	66	48	24	8	24	48	66	72	66	48	24
	130	9	24	46	62	68	62	46	24	9	24	46	62	68	62	46	24
	135	10	23	42	58	63	58	42	23	10	23	42	58	63	58	42	23
	140	10	22	40	53	58	53	40	22	10	22	40	53	58	53	40	22
	145	11	20	35	47	52	47	35	20	11	20	35	47	52	47	35	20
	150	10	18	31	42	46	42	31	18	10	18	31	42	46	42	31	18
	155	10	16	26	36	39	36	26	16	10	16	26	36	39	36	26	16
	160	11	14	21	29	33	29	21	14	11	14	21	29	33	29	21	14
	165	11	13	17	22	27	22	17	13	11	13	17	22	27	22	17	13
	170	12	12	13	15	21	15	13	12	12	12	13	15	21	15	13	12
	175	12	12	12	10	7	10	12	12	12	12	12	10	7	10	12	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)

Vertical Angle (Degrees)		0	45	90
	0	8025	8025	8025
	45	6059	6118	6651
	55	5358	5523	6186
	65	4582	4880	5670
	75	3546	4182	5118
	85	1781	3528	4746



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	2314	2314	2314	2314	2229	2229	2229	2229	2071	2071	2071	1926	1926	1926	1792	1792	1792	1730
1	2085	1979	1885	1800	2002	1907	1822	1745	1773	1704	1641	1649	1594	1543	1535	1492	1451	1390
2	1887	1712	1568	1447	1808	1651	1520	1409	1537	1429	1336	1431	1343	1266	1333	1262	1199	1140
3	1715	1497	1328	1194	1642	1445	1290	1165	1346	1217	1111	1256	1148	1058	1171	1083	1007	951
4	1567	1322	1142	1005	1500	1277	1112	984	1193	1052	941	1114	996	900	1042	942	860	807
5	1439	1178	996	861	1377	1139	970	844	1067	921	810	999	875	777	936	830	745	695
6	1327	1058	878	748	1271	1025	856	734	962	816	707	903	776	680	847	738	653	606
7	1229	957	781	658	1178	928	763	646	873	729	623	821	695	601	773	663	579	534
8	1143	872	701	584	1096	846	686	575	798	656	555	752	628	536	710	600	517	476
9	1066	799	635	524	1024	776	621	515	733	596	499	693	571	483	655	546	466	427
10	999	735	578	473	960	716	566	466	678	544	452	642	522	437	608	501	423	387

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	34.9	5.05
6.00	15.5	7.57
8.00	8.74	10.1
10.0	5.59	12.6
12.0	3.88	15.1
14.0	2.85	17.7
16.0	2.18	20.2

Cone of Light Plot

