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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
LW15-2-2100-30K-HTA-S30-UNI-XXXX
Order Number
10724738
Test Number
997169

Test Date

2015-04-02

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: 6.250 in.
Luminous Height: 2.00 in.

Summary of Results

Total Luminaire Output: 2010 Lumens
Luminaire Efficacy: 90.6 lm/w
Maximum Candela: 576 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.1858 A
Power: 22.18 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 5.04 %

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	0.1858 A	22.18 W	0.995	60 Hz	5.04 %

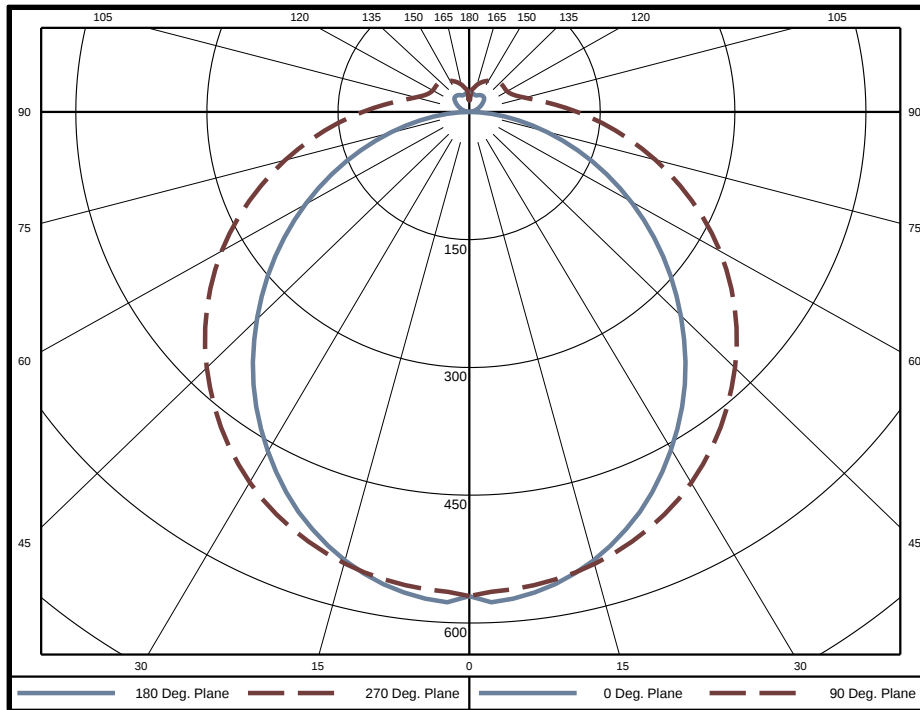
Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.31

Total Lumen Output:
Luminaire Efficacy:
Maximum Candela:

2010 Lumens
 90.6 lm/w
 576 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	14.4	0.7%	60-65	120.6	6.0%	120-125	15.8	0.8%
5-10	40.2	2.0%	65-70	105.8	5.3%	125-130	15.3	0.8%
10-15	65.4	3.3%	70-75	89.6	4.5%	130-135	14.6	0.7%
15-20	88.3	4.4%	75-80	72.9	3.6%	135-140	13.4	0.7%
20-25	108.2	5.4%	80-85	56.6	2.8%	140-145	11.9	0.6%
25-30	124.5	6.2%	85-90	42.2	2.1%	145-150	10.1	0.5%
30-35	136.6	6.8%	90-95	31.4	1.6%	150-155	8.2	0.4%
35-40	144.3	7.2%	95-100	24.5	1.2%	155-160	6.3	0.3%
40-45	147.5	7.3%	100-105	20.3	1.0%	160-165	4.5	0.2%
45-50	146.4	7.3%	105-110	17.9	0.9%	165-170	3.0	0.1%
50-55	141.4	7.0%	110-115	16.7	0.8%	170-175	1.7	0.1%
55-60	132.6	6.6%	115-120	16.1	0.8%	175-180	0.5	0.0%

Zone	Lumens	% of Luminaire
0-40	721.8	35.9%
0-60	1289.8	64.2%
0-90	1777.5	88.4%
90-180	232.4	11.6%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal 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	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568
5	574	566	565	564	563	564	565	566	574	566	565	564	563	564	565	566
10	563	556	557	558	557	558	557	556	563	556	557	558	557	558	557	556
15	545	540	544	549	549	549	544	540	545	540	544	549	549	549	544	540
20	522	519	527	535	537	535	527	519	522	519	527	535	537	535	527	519
25	493	492	505	517	521	517	505	492	493	492	505	517	521	517	505	492
30	459	461	478	496	502	496	478	461	459	461	478	496	502	496	478	461
35	423	427	449	471	479	471	449	427	423	427	449	471	479	471	449	427
40	383	389	416	443	453	443	416	389	383	389	416	443	453	443	416	389
45	341	350	380	412	424	412	380	350	341	350	380	412	424	412	380	350
50	299	309	342	379	394	379	342	309	299	309	342	379	394	379	342	309
55	257	268	304	345	361	345	304	268	257	268	304	345	361	345	304	268
60	214	226	266	309	327	309	266	226	214	226	266	309	327	309	266	226
65	172	184	227	272	290	272	227	184	172	184	227	272	290	272	227	184
70	131	145	188	235	253	235	188	145	131	145	188	235	253	235	188	145
75	92	108	152	199	218	199	152	108	92	108	152	199	218	199	152	108
80	57	74	119	165	183	165	119	74	57	74	119	165	183	165	119	74
85	26	47	91	133	151	133	91	47	26	47	91	133	151	133	91	47
90	0	27	67	106	122	106	67	27	0	27	67	106	122	106	67	27
95	1	17	50	84	98	84	50	17	1	17	50	84	98	84	50	17
100	4	15	40	67	79	67	40	15	4	15	40	67	79	67	40	15
105	7	16	35	56	65	56	35	16	7	16	35	56	65	56	35	16
110	9	18	33	49	56	49	33	18	9	18	33	49	56	49	33	18
115	13	20	34	46	51	46	34	20	13	20	34	46	51	46	34	20
120	16	22	35	45	49	45	35	22	16	22	35	45	49	45	35	22
125	19	24	36	45	49	45	36	24	19	24	36	45	49	45	36	24
130	22	26	37	46	49	46	37	26	22	26	37	46	49	46	37	26
135	24	27	37	45	49	45	37	27	24	27	37	45	49	45	37	27
140	24	27	37	44	48	44	37	27	24	27	37	44	48	44	37	27
145	24	26	36	43	46	43	36	26	24	26	36	43	46	43	36	26
150	23	26	34	41	42	41	34	26	23	26	34	41	42	41	34	26
155	22	25	31	38	40	38	31	25	22	25	31	38	40	38	31	25
160	21	24	28	34	36	34	28	24	21	24	28	34	36	34	28	24
165	21	23	25	30	33	30	25	23	21	23	25	30	33	30	25	23
170	22	23	22	24	28	24	22	23	22	23	22	24	28	24	22	23
175	23	24	22	20	25	20	22	24	23	24	22	20	25	20	22	24
180	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	5873	5873	5873
45	4605	4322	4696
55	4137	3892	4465
65	3578	3442	4210
75	2812	2948	3960
85	1553	2524	3839



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	2338	2338	2338	2338	2257	2257	2257	2257	2105	2105	2105	1966	1966	1966	1839	1839	1839	1779
1	2101	1993	1896	1808	2021	1924	1836	1756	1795	1724	1658	1676	1619	1566	1567	1522	1480	1421
2	1900	1721	1574	1450	1824	1663	1528	1414	1553	1442	1346	1452	1361	1281	1358	1284	1218	1161
3	1726	1503	1331	1193	1655	1453	1295	1167	1359	1227	1117	1273	1162	1069	1192	1100	1022	966
4	1576	1326	1144	1004	1511	1284	1115	984	1203	1059	945	1129	1007	908	1059	956	871	819
5	1447	1182	996	859	1387	1145	973	844	1076	927	813	1011	884	783	951	842	754	704
6	1334	1061	878	746	1280	1030	858	734	970	820	709	914	784	685	861	749	661	614
7	1236	960	781	656	1186	933	765	646	880	733	625	831	702	605	786	672	585	541
8	1149	874	702	583	1104	850	688	574	805	660	557	762	633	540	721	608	523	481
9	1073	801	635	523	1032	780	623	515	740	599	500	702	576	486	666	554	471	432
10	1005	738	578	472	968	719	568	466	684	547	453	650	527	440	618	508	428	391

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	35.5	5.01
6.00	15.8	7.52
8.00	8.88	10.0
10.0	5.68	12.5
12.0	3.95	15.0
14.0	2.90	17.6
16.0	2.22	20.1

Cone of Light Plot

