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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
LW15-2-2100-35K-HTA-S30-UNV
Order Number
10692188
Test Number
1000162

Test Date

2015-04-01

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: 2049 Lumens
Luminaire Efficacy: 92.7 lm/w
Maximum Candela: 587 Candela

Electrical Data

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.1851 A
Power: 22.11 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 4.82 %

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
25.3 °C	120.0 VAC	0.1851 A	22.11 W	0.995	60 Hz	4.82 %

Summary of Results

Spacing Criteria

0-180: 1.20
90-270: 1.31

Total Lumen Output:

2049 Lumens

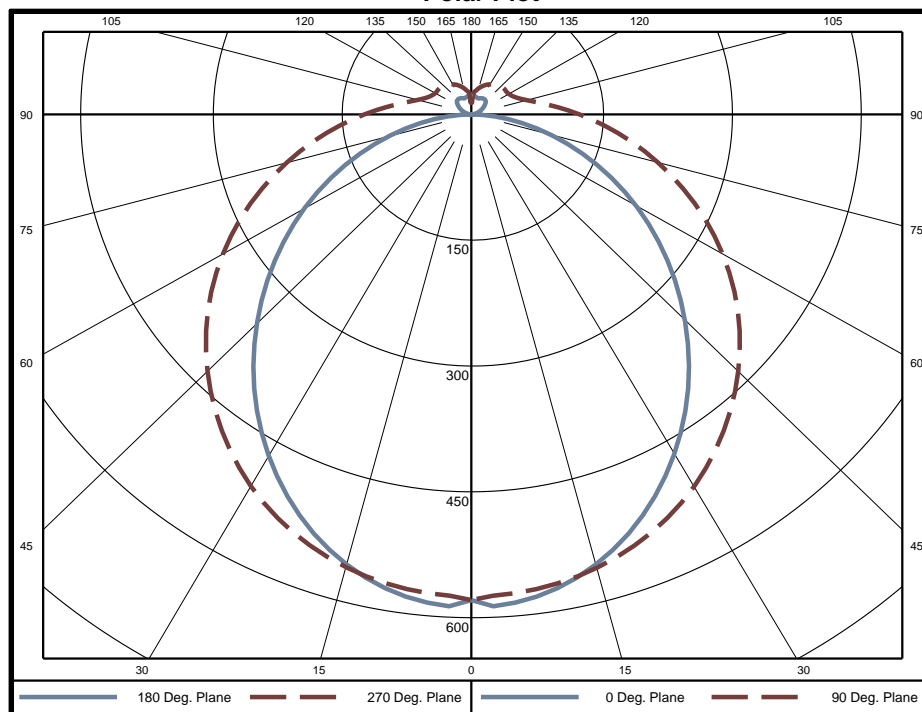
Luminaire Efficacy:

92.7 lm/w

Maximum Candela:

587 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	14.7	0.7%	60-65	123.5	6.0%	120-125	15.6	0.8%
5-10	40.9	2.0%	65-70	108.6	5.3%	125-130	15.1	0.7%
10-15	66.6	3.3%	70-75	92.1	4.5%	130-135	14.3	0.7%
15-20	90.0	4.4%	75-80	74.9	3.7%	135-140	13.1	0.6%
20-25	110.3	5.4%	80-85	58.2	2.8%	140-145	11.6	0.6%
25-30	126.9	6.2%	85-90	43.2	2.1%	145-150	9.8	0.5%
30-35	139.3	6.8%	90-95	32.0	1.6%	150-155	8.0	0.4%
35-40	147.3	7.2%	95-100	24.9	1.2%	155-160	6.2	0.3%
40-45	150.6	7.4%	100-105	20.5	1.0%	160-165	4.5	0.2%
45-50	149.6	7.3%	105-110	18.1	0.9%	165-170	3.0	0.1%
50-55	144.6	7.1%	110-115	16.8	0.8%	170-175	1.7	0.1%
55-60	135.7	6.6%	115-120	16.1	0.8%	175-180	0.6	0.0%

Zone	Lumens	% of Luminaire
0-40	735.9	35.9%
0-60	1316.4	64.3%
0-90	1816.9	88.7%
90-180	231.8	11.3%



Candela Tabulation
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	579	579	579	579	579	579	579	579	579	579	579	579	579	579	579	579
5	584	577	575	575	573	575	575	577	584	577	575	575	573	575	575	577
10	574	567	567	569	568	569	567	567	574	567	567	569	568	569	567	567
15	556	551	555	559	559	559	555	551	556	551	555	559	559	559	555	551
20	532	529	537	545	547	545	537	529	532	529	537	545	547	545	537	529
25	502	502	514	527	531	527	514	502	502	502	514	527	531	527	514	502
30	469	470	488	506	512	506	488	470	469	470	488	506	512	506	488	470
35	432	435	458	480	488	480	458	435	432	435	458	480	488	480	458	435
40	392	398	424	452	462	452	424	398	392	398	424	452	462	452	424	398
45	350	358	388	420	433	420	388	358	350	358	388	420	433	420	388	358
50	307	316	350	387	402	387	350	316	307	316	350	387	402	387	350	316
55	264	275	311	352	368	352	311	275	264	275	311	352	368	352	311	275
60	222	232	272	315	333	315	272	232	222	232	272	315	333	315	272	232
65	179	190	232	278	296	278	232	190	179	190	232	278	296	278	232	190
70	137	150	193	239	258	239	193	150	137	150	193	239	258	239	193	150
75	97	112	157	203	222	203	157	112	97	112	157	203	222	203	157	112
80	60	78	123	168	186	168	123	78	60	78	123	168	186	168	123	78
85	27	49	93	136	153	136	93	49	27	49	93	136	153	136	93	49
90	0	28	69	108	124	108	69	28	0	28	69	108	124	108	69	28
95	1	17	51	85	99	85	51	17	1	17	51	85	99	85	51	17
100	4	15	40	68	80	68	40	15	4	15	40	68	80	68	40	15
105	7	16	35	56	66	56	35	16	7	16	35	56	66	56	35	16
110	10	18	33	50	57	50	33	18	10	18	33	50	57	50	33	18
115	13	20	33	46	52	46	33	20	13	20	33	46	52	46	33	20
120	16	22	34	45	49	45	34	22	16	22	34	45	49	45	34	22
125	19	23	35	45	48	45	35	23	19	23	35	45	48	45	35	23
130	22	25	36	45	49	45	36	25	22	25	36	45	49	45	36	25
135	23	26	36	44	48	44	36	26	23	26	36	44	48	44	36	26
140	24	26	36	44	47	44	36	26	24	26	36	44	47	44	36	26
145	23	26	35	42	44	42	35	26	23	26	35	42	44	42	35	26
150	22	25	33	40	41	40	33	25	22	25	33	40	41	40	33	25
155	21	25	30	37	39	37	30	25	21	25	30	37	39	37	30	25
160	21	24	27	34	36	34	27	24	21	24	27	34	36	34	27	24
165	21	23	25	29	32	29	25	23	21	23	25	29	32	29	25	23
170	22	23	23	24	29	24	23	23	22	23	23	24	29	24	23	23
175	23	24	22	20	26	20	22	24	23	24	22	20	26	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)

	0	45	90
0	5984	5984	5984
45	4716	4407	4792
55	4257	3981	4554
65	3707	3526	4293
75	2950	3028	4032
85	1663	2595	3905



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	2385	2385	2385	2385	2302	2302	2302	2302	2149	2149	2149	2008	2008	2008	1879	1879	1879	1818
1	2143	2032	1932	1843	2062	1962	1872	1791	1831	1759	1692	1711	1653	1599	1601	1555	1511	1451
2	1937	1754	1604	1477	1860	1695	1558	1441	1584	1471	1372	1482	1389	1307	1387	1311	1244	1185
3	1759	1532	1356	1216	1687	1481	1320	1189	1386	1251	1139	1299	1185	1090	1217	1123	1043	987
4	1607	1352	1165	1022	1540	1309	1136	1002	1227	1080	964	1152	1027	926	1081	976	889	836
5	1475	1204	1015	875	1414	1167	991	859	1097	945	829	1032	901	799	971	859	769	719
6	1360	1081	894	760	1305	1049	874	747	989	836	722	932	799	698	879	764	674	626
7	1260	978	796	668	1210	950	779	658	898	747	637	848	716	617	802	685	597	552
8	1171	891	715	593	1126	867	700	585	820	673	567	777	646	550	736	620	533	491
9	1093	816	647	532	1052	795	634	524	754	610	510	716	587	495	679	565	481	441
10	1024	752	589	480	986	733	578	474	697	558	461	663	537	449	630	518	436	399

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	36.2	5.02
6.00	16.1	7.53
8.00	9.05	10.0
10.0	5.79	12.5
12.0	4.02	15.1
14.0	2.95	17.6
16.0	2.26	20.1

Cone of Light Plot

