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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
LW10-2-2500-35K-HTA-S30-UNV
Order Number
10692188
Test Number
1000164

Test Date

2015-03-30

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: 2.750 in.
Luminous Height: 2.00 in.

Summary of Results

Total Luminaire Output: 2121 Lumens
Luminaire Efficacy: 95.5 lm/w
Maximum Candela: 612 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.1860 A
Power: 22.21 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 5.32 %

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	0.1860 A	22.21 W	0.995	60 Hz	5.32 %

Summary of Results

Spacing Criteria

0-180: 1.17

90-270: 1.28

Total Lumen Output:

2121 Lumens

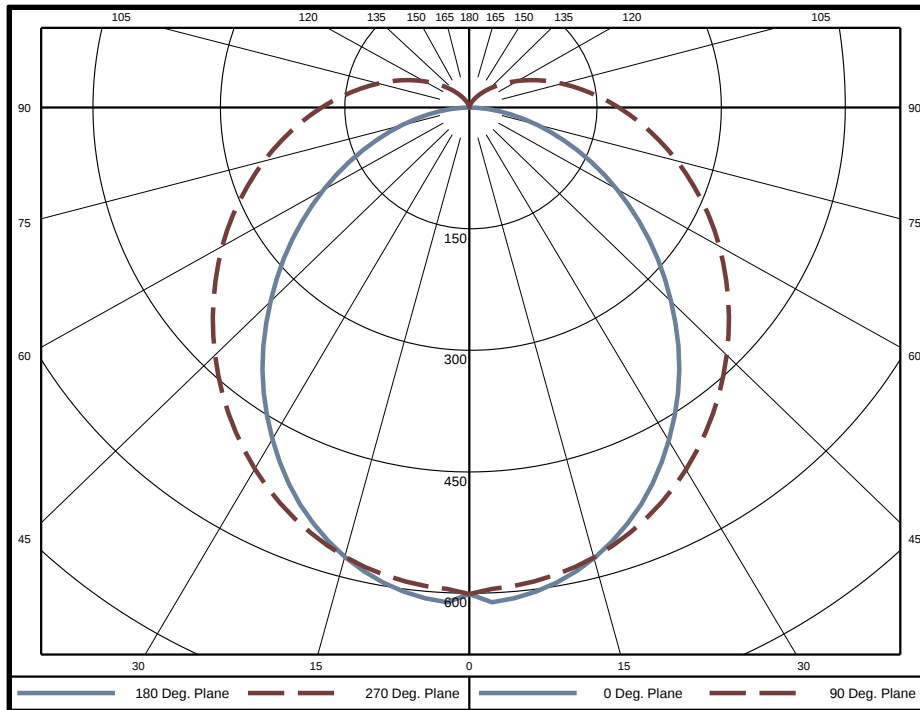
Luminaire Efficacy:

95.5 lm/w

Maximum Candela:

612 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	15.2	0.7%	60-65	124.2	5.9%	120-125	13.3	0.6%
5-10	42.4	2.0%	65-70	112.4	5.3%	125-130	9.8	0.5%
10-15	68.7	3.2%	70-75	99.8	4.7%	130-135	7.0	0.3%
15-20	92.4	4.4%	75-80	87.0	4.1%	135-140	4.9	0.2%
20-25	112.4	5.3%	80-85	74.4	3.5%	140-145	3.2	0.2%
25-30	128.3	6.1%	85-90	62.4	2.9%	145-150	2.0	0.1%
30-35	139.7	6.6%	90-95	52.2	2.5%	150-155	1.2	0.1%
35-40	146.5	6.9%	95-100	43.4	2.0%	155-160	0.6	0.0%
40-45	148.8	7.0%	100-105	35.6	1.7%	160-165	0.3	0.0%
45-50	147.1	6.9%	105-110	28.8	1.4%	165-170	0.1	0.0%
50-55	142.0	6.7%	110-115	22.8	1.1%	170-175	0.0	0.0%
55-60	134.2	6.3%	115-120	17.6	0.8%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	745.6	35.2%
0-60	1317.8	62.1%
0-90	1877.9	88.5%
90-180	242.8	11.5%



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	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601
	5	608	597	596	596	593	596	596	597	608	597	596	596	593	596	596	597
	10	596	586	586	588	586	588	586	586	596	586	586	588	586	588	586	586
	15	575	567	570	575	575	575	570	567	575	567	570	575	575	575	570	567
	20	547	541	549	557	559	557	549	541	547	541	549	557	559	557	549	541
	25	512	509	522	536	539	536	522	509	512	509	522	536	539	536	522	509
	30	473	473	491	510	516	510	491	473	473	473	491	510	516	510	491	473
	35	430	433	457	482	490	482	457	433	430	433	457	482	490	482	457	433
	40	384	390	420	451	462	451	420	390	384	390	420	451	462	451	420	390
	45	337	347	383	420	433	420	383	347	337	347	383	420	433	420	383	347
	50	291	303	345	387	403	387	345	303	291	303	345	387	403	387	345	303
	55	245	261	309	356	373	356	309	261	245	261	309	356	373	356	309	261
	60	201	220	274	325	344	325	274	220	201	220	274	325	344	325	274	220
	65	159	182	241	294	314	294	241	182	159	182	241	294	314	294	241	182
	70	119	147	211	265	284	265	211	147	119	147	211	265	284	265	211	147
	75	83	117	183	237	256	237	183	117	83	117	183	237	256	237	183	117
	80	51	91	157	210	228	210	157	91	51	91	157	210	228	210	157	91
	85	23	69	134	184	202	184	134	69	23	69	134	184	202	184	134	69
	90	0	51	113	161	178	161	113	51	0	51	113	161	178	161	113	51
	95	0	38	95	139	154	139	95	38	0	38	95	139	154	139	95	38
	100	0	27	79	119	133	119	79	27	0	27	79	119	133	119	79	27
	105	0	19	64	101	114	101	64	19	0	19	64	101	114	101	64	19
	110	0	14	52	85	96	85	52	14	0	14	52	85	96	85	52	14
	115	0	10	41	70	80	70	41	10	0	10	41	70	80	70	41	10
	120	0	8	32	56	65	56	32	8	0	8	32	56	65	56	32	8
	125	0	6	25	45	52	45	25	6	0	6	25	45	52	45	25	6
	130	0	4	19	35	41	35	19	4	0	4	19	35	41	35	19	4
	135	0	3	14	27	32	27	14	3	0	3	14	27	32	27	14	3
	140	0	3	11	20	24	20	11	3	0	3	11	20	24	20	11	3
	145	0	2	8	14	17	14	8	2	0	2	8	14	17	14	8	2
	150	0	1	5	10	12	10	5	1	0	1	5	10	12	10	5	1
	155	0	1	3	6	8	6	3	1	0	1	3	6	8	6	3	1
	160	0	1	2	4	5	4	2	1	0	1	2	4	5	4	2	1
	165	0	1	1	2	3	2	1	1	0	1	1	2	3	2	1	1
	170	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	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
	0	14110	14110
	45	10320	8083
	55	8957	6953
	65	7492	6014
	75	5763	5284
	85	3140	4780



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	2468	2468	2468	2468	2382	2382	2382	2382	2222	2222	2222	2076	2076	2076	1942	1942	1942	1879
1	2204	2083	1975	1877	2119	2010	1912	1823	1874	1794	1721	1748	1684	1625	1633	1582	1535	1471
2	1989	1795	1634	1499	1908	1733	1586	1462	1617	1495	1390	1510	1410	1322	1411	1330	1257	1196
3	1806	1566	1380	1232	1731	1513	1342	1205	1414	1270	1152	1322	1202	1102	1237	1138	1053	994
4	1650	1382	1186	1036	1581	1337	1156	1015	1252	1097	975	1173	1042	936	1100	989	898	842
5	1515	1232	1033	887	1452	1193	1009	871	1120	961	839	1052	915	808	988	871	777	724
6	1398	1107	911	771	1340	1073	891	758	1010	851	732	951	813	707	896	776	682	632
7	1295	1002	812	679	1243	973	795	668	918	761	647	866	728	625	818	697	605	558
8	1205	913	730	604	1158	888	715	595	840	686	576	794	658	559	752	631	541	497
9	1125	837	661	542	1082	815	648	534	772	623	518	732	599	503	695	576	488	447
10	1054	772	602	490	1015	752	591	483	714	570	470	679	549	457	645	528	444	404

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	37.6	4.88
6.00	16.7	7.32
8.00	9.39	9.76
10.0	6.01	12.2
12.0	4.17	14.6
14.0	3.07	17.1
16.0	2.35	19.5

Cone of Light Plot

