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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
LW10-2-2100-30K-HTA-S30-UNI-XXXX
Order Number
10724738
Test Number
997165

Test Date

2015-03-27

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: 1.75 in.

Summary of Results

Total Luminaire Output:	2053 Lumens
Luminaire Efficacy:	92.6 lm/w
Maximum Candela:	592 Candela

Electrical Data

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.1858 A
Power:	22.18 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	4.95 %

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
24.6 °C	120.0 VAC	0.1858 A	22.18 W	0.995	60 Hz	4.95 %

Summary of Results

Spacing Criteria

0-180: 1.17

90-270: 1.28

Total Lumen Output:

2053 Lumens

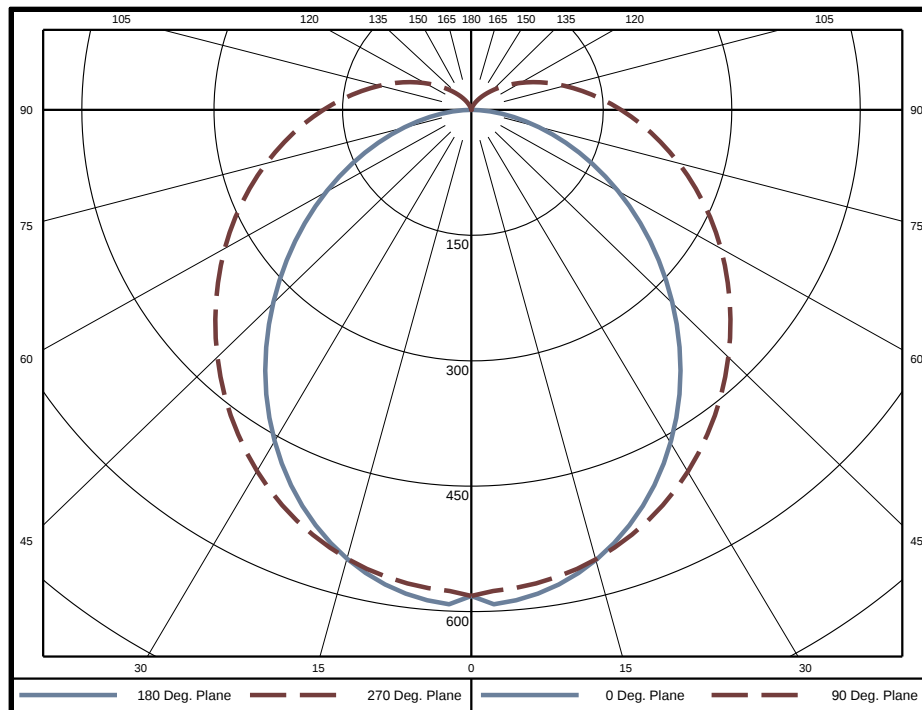
Luminaire Efficacy:

92.6 lm/w

Maximum Candela:

592 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	119.9	5.8%	120-125	13.2	0.6%
5-10	41.0	2.0%	65-70	108.6	5.3%	125-130	9.8	0.5%
10-15	66.5	3.2%	70-75	96.5	4.7%	130-135	7.0	0.3%
15-20	89.3	4.3%	75-80	84.2	4.1%	135-140	4.9	0.2%
20-25	108.7	5.3%	80-85	72.2	3.5%	140-145	3.2	0.2%
25-30	124.0	6.0%	85-90	60.7	3.0%	145-150	2.0	0.1%
30-35	135.0	6.6%	90-95	50.8	2.5%	150-155	1.1	0.1%
35-40	141.5	6.9%	95-100	42.4	2.1%	155-160	0.6	0.0%
40-45	143.7	7.0%	100-105	34.9	1.7%	160-165	0.2	0.0%
45-50	142.0	6.9%	105-110	28.3	1.4%	165-170	0.1	0.0%
50-55	137.1	6.7%	110-115	22.4	1.1%	170-175	0.0	0.0%
55-60	129.6	6.3%	115-120	17.4	0.8%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	720.6	35.1%
0-60	1273.0	62.0%
0-90	1815.1	88.4%
90-180	238.3	11.6%



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	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581
	5	589	578	576	576	574	576	576	578	589	578	576	576	574	576	576	578
	10	576	566	567	569	567	569	567	566	576	566	567	569	567	569	567	566
	15	556	548	551	556	556	556	551	548	556	548	551	556	556	556	551	548
	20	528	522	530	539	541	539	530	522	528	522	530	539	541	539	530	522
	25	495	492	504	518	522	518	504	492	495	492	504	518	522	518	504	492
	30	457	456	474	493	499	493	474	456	457	456	474	493	499	493	474	456
	35	415	418	441	466	474	466	441	418	415	418	441	466	474	466	441	418
	40	370	376	406	436	447	436	406	376	370	376	406	436	447	436	406	376
	45	325	334	370	406	418	406	370	334	325	334	370	406	418	406	370	334
	50	280	292	334	375	390	375	334	292	280	292	334	375	390	375	334	292
	55	236	251	298	344	360	344	298	251	236	251	298	344	360	344	298	251
	60	193	212	265	314	332	314	265	212	193	212	265	314	332	314	265	212
	65	153	176	233	285	303	285	233	176	153	176	233	285	303	285	233	176
	70	115	142	204	256	275	256	204	142	115	142	204	256	275	256	204	142
	75	80	113	177	229	248	229	177	113	80	113	177	229	248	229	177	113
	80	49	88	152	203	221	203	152	88	49	88	152	203	221	203	152	88
	85	22	67	130	179	196	179	130	67	22	67	130	179	196	179	130	67
	90	0	50	110	156	172	156	110	50	0	50	110	156	172	156	110	50
	95	0	37	93	135	150	135	93	37	0	37	93	135	150	135	93	37
	100	0	27	77	116	130	116	77	27	0	27	77	116	130	116	77	27
	105	0	19	63	99	111	99	63	19	0	19	63	99	111	99	63	19
	110	0	14	52	83	94	83	52	14	0	14	52	83	94	83	52	14
	115	0	10	41	69	79	69	41	10	0	10	41	69	79	69	41	10
	120	0	8	32	56	64	56	32	8	0	8	32	56	64	56	32	8
	125	0	6	25	44	52	44	25	6	0	6	25	44	52	44	25	6
	130	0	4	19	35	41	35	19	4	0	4	19	35	41	35	19	4
	135	0	3	14	27	31	27	14	3	0	3	14	27	31	27	14	3
	140	0	2	11	20	24	20	11	2	0	2	11	20	24	20	11	2
	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	0	2	3	4	3	2	0	0	0	2	3	4	3	2	0
	165	0	0	1	2	2	2	1	0	0	0	1	2	2	2	1	0
	170	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	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	13650	13650	13650
	45	10060	8178	8491
	55	8749	7120	7731
	65	7351	6248	7128
	75	5714	5589	6658
	85	3222	5208	6394



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	2388	2388	2388	2388	2305	2305	2305	2305	2150	2150	2150	2008	2008	2008	1877	1877	1877	1816
1	2133	2016	1911	1817	2050	1945	1850	1764	1812	1735	1665	1691	1629	1571	1578	1529	1483	1422
2	1925	1737	1581	1450	1846	1677	1535	1414	1564	1446	1345	1460	1363	1278	1363	1285	1215	1155
3	1748	1515	1335	1192	1675	1464	1299	1166	1368	1229	1114	1279	1162	1065	1196	1100	1017	960
4	1597	1337	1148	1003	1529	1294	1118	982	1211	1061	943	1134	1008	905	1063	956	868	813
5	1466	1192	1000	859	1405	1154	976	843	1083	929	812	1017	885	781	955	842	751	700
6	1353	1071	882	746	1297	1039	862	734	977	823	708	920	786	683	866	750	659	611
7	1253	970	786	657	1203	942	769	646	888	736	625	838	704	605	791	674	584	539
8	1166	884	706	584	1120	859	692	575	812	664	558	768	636	540	727	610	523	480
9	1089	810	640	524	1047	789	627	517	747	603	502	708	579	487	671	556	472	432
10	1020	747	583	474	982	728	572	467	691	551	454	656	530	442	624	511	429	391

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	36.3	4.88
6.00	16.1	7.31
8.00	9.08	9.75
10.0	5.81	12.2
12.0	4.04	14.6
14.0	2.97	17.1
16.0	2.27	19.5

Cone of Light Plot

