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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Mercury Lighting

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Catalog Number
L65VP-4-4250-35K-HTP-S80-UNI-XXXX

Order Number
10770129
Test Number
1047314

Test Date

2015-04-28

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: 120 white LEDs
Mounting: Surface - Ceiling
Ballast/Driver: One Osram OT50W/PRG1400C/UNV/DIM/L

Luminaire



Luminaire Characteristics

Luminous Length: 45.13 in.
Luminous Width: 4.500 in.
Luminous Height: 2.25 in.

Summary of Results

Total Luminaire Output: 3816 Lumens
Luminaire Efficacy: 75.0 lm/w
Maximum Candela: 1150.335 Candela

Electrical Data

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.4260 A
Power: 50.91 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 8.02 %

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	0.4260 A	50.91 W	0.996	60 Hz	8.02 %

Summary of Results

Spacing Criteria

0-180: 1.14

90-270: 1.14

Total Lumen Output:

3816 Lumens

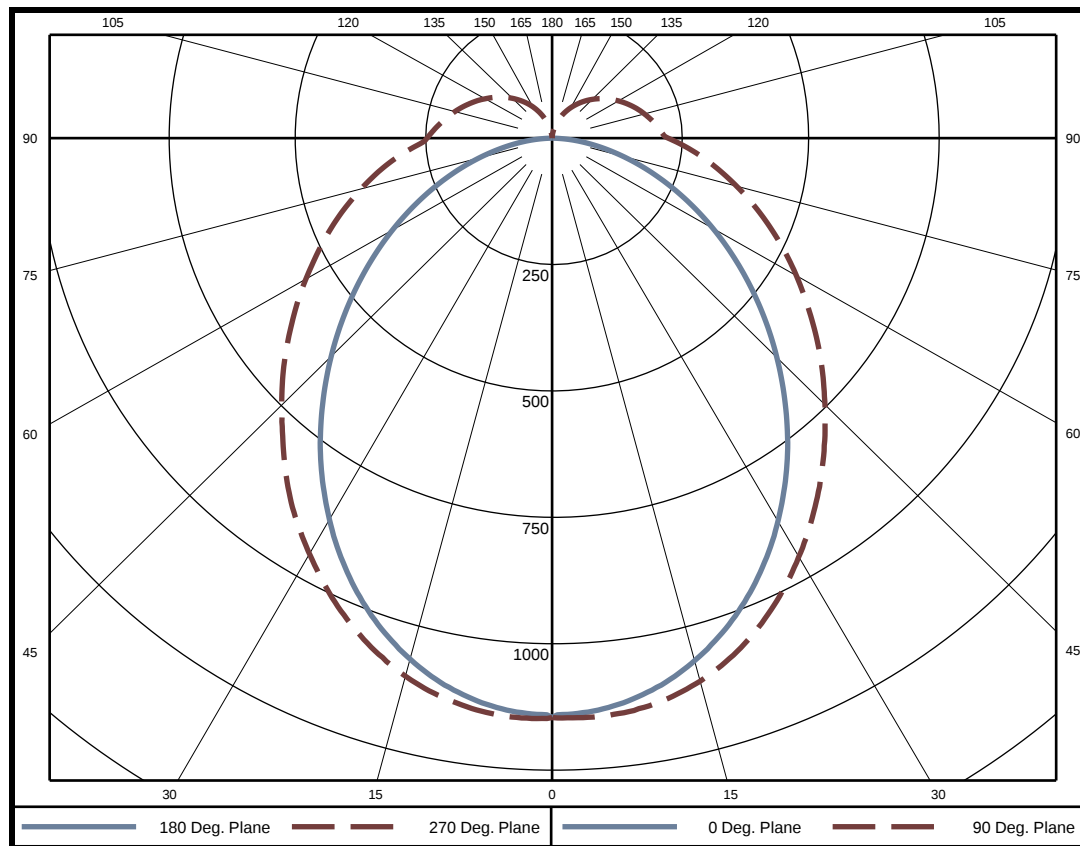
Luminaire Efficacy:

75.0 lm/w

Maximum Candela:

1150 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	27.4	0.7%	60-65	211.5	5.5%	120-125	38.2	1.0%
5-10	81.1	2.1%	65-70	187.0	4.9%	125-130	32.4	0.8%
10-15	131.5	3.4%	70-75	160.8	4.2%	130-135	26.7	0.7%
15-20	176.3	4.6%	75-80	134.2	3.5%	135-140	21.1	0.6%
20-25	213.5	5.6%	80-85	108.2	2.8%	140-145	16.2	0.4%
25-30	241.8	6.3%	85-90	83.2	2.2%	145-150	11.8	0.3%
30-35	260.7	6.8%	90-95	70.0	1.8%	150-155	8.0	0.2%
35-40	270.2	7.1%	95-100	65.4	1.7%	155-160	4.9	0.1%
40-45	270.8	7.1%	100-105	60.6	1.6%	160-165	2.7	0.1%
45-50	264.3	6.9%	105-110	55.4	1.5%	165-170	1.2	0.0%
50-55	251.5	6.6%	110-115	49.8	1.3%	170-175	0.3	0.0%
55-60	233.4	6.1%	115-120	44.0	1.2%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1403	36.8%
0-60	2181	63.5%
0-90	3307	86.7%
90-180	509	13.3%



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	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146
	5	1133	1144	1141	1145	1147	1145	1141	1144	1133	1143	1140	1144	1146	1144	1140
	10	1108	1123	1125	1133	1137	1133	1125	1123	1108	1120	1122	1128	1131	1128	1122
	15	1068	1088	1095	1106	1112	1106	1095	1088	1068	1085	1090	1100	1104	1100	1090
	20	1014	1038	1050	1065	1072	1065	1050	1038	1014	1035	1045	1058	1063	1058	1045
	25	948	976	994	1012	1020	1012	994	976	948	973	988	1005	1012	1005	988
	30	871	903	927	949	957	949	927	903	871	902	924	945	953	945	924
	35	788	825	855	881	890	881	855	825	788	822	852	880	892	880	852
	40	700	742	778	808	821	808	778	742	700	737	776	809	822	809	776
	45	611	658	701	735	750	735	701	658	611	652	697	737	753	737	697
	50	524	574	623	665	681	665	623	574	524	568	622	669	689	669	622
	55	439	493	548	595	613	595	548	493	439	488	548	602	623	602	548
	60	358	415	476	529	549	529	476	415	358	411	477	537	561	537	477
	65	281	342	408	465	487	465	408	342	281	338	410	476	502	476	410
	70	210	272	343	405	428	405	343	272	210	271	348	418	445	418	348
	75	144	209	283	348	372	348	283	209	144	210	290	362	390	362	290
	80	86	153	230	295	320	295	230	153	86	154	237	310	338	310	237
	85	37	103	181	247	271	247	181	103	37	104	187	260	286	260	187
	90	0	60	137	201	225	201	137	60	0	64	149	220	246	220	149
	95	0	54	127	186	208	186	127	54	0	59	140	205	230	205	140
	100	0	52	122	177	198	177	122	52	0	56	132	192	214	192	132
	105	0	49	115	166	185	166	115	49	0	52	124	179	200	179	124
	110	0	46	108	155	173	155	108	46	0	48	115	166	185	166	115
	115	0	43	100	144	160	144	100	43	0	44	106	153	170	153	106
	120	0	39	93	133	148	133	93	39	0	40	97	140	155	140	97
	125	0	35	85	121	134	121	85	35	0	36	88	127	140	127	88
	130	0	31	76	109	121	109	76	31	0	30	79	114	126	114	79
	135	0	26	65	97	108	97	65	26	0	26	67	100	112	100	67
	140	0	22	53	85	94	85	53	22	0	21	56	87	97	87	56
	145	0	19	45	72	81	72	45	19	0	17	45	74	83	74	45
	150	0	16	36	57	67	57	36	16	0	14	36	59	68	59	36
	155	0	13	29	42	54	42	29	13	0	10	27	43	54	43	27
	160	0	10	22	31	39	31	22	10	0	7	19	30	39	30	19
	165	0	7	15	21	28	21	15	7	0	3	12	18	25	18	12
	170	0	4	9	12	16	12	9	4	0	0	5	9	13	9	5
	175	0	1	3	3	3	3	3	1	0	0	0	1	2	1	0
	180	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	8746	8746
	45	6285	5446
	55	5456	4692
	65	4586	4015
	75	3582	3410
	85	2041	2915



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	4422	4422	4422	4422	4260	4260	4260	4260	3957	3957	3957	3681	3681	3681	3427	3427	3427	3307
1	3977	3773	3591	3426	3819	3636	3471	3322	3379	3246	3124	3143	3037	2938	2925	2841	2763	2647
2	3602	3268	2992	2760	3452	3151	2900	2687	2933	2726	2547	2731	2562	2414	2544	2408	2287	2175
3	3278	2862	2539	2283	3138	2762	2467	2229	2575	2328	2125	2402	2197	2024	2241	2072	1928	1821
4	2999	2532	2190	1929	2870	2447	2131	1887	2286	2019	1807	2137	1911	1728	1998	1809	1652	1551
5	2757	2260	1913	1657	2639	2187	1865	1625	2048	1772	1561	1919	1683	1498	1799	1598	1437	1341
6	2545	2034	1691	1445	2438	1971	1651	1418	1850	1573	1366	1738	1498	1314	1633	1426	1264	1174
7	2359	1843	1509	1274	2262	1788	1475	1252	1683	1409	1209	1585	1345	1166	1493	1283	1124	1039
8	2196	1681	1358	1135	2108	1633	1328	1117	1541	1272	1080	1454	1217	1043	1373	1164	1008	929
9	2051	1542	1231	1020	1971	1500	1205	1004	1418	1156	973	1342	1109	942	1269	1063	911	837
10	1923	1422	1123	923	1849	1384	1101	910	1312	1058	883	1244	1016	856	1180	976	829	759

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	71.6	4.80
6.00	31.8	7.20
8.00	17.9	9.60
10.0	11.5	12.0
12.0	7.96	14.4
14.0	5.85	16.8
16.0	4.48	19.2

Cone of Light Plot

