



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-HO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LAP HO 4000k S
[TESTLAB]Orb Optronix, Inc.
[TESTDATE]12-01-2016
[ISSUE DATE]01-17-2017
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]LAP-4-LED-HO-40
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	47.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	790	693	611
55	814	672	532
65	867	675	457
75	1010	748	476
85	1910	1447	999

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	241.171	241.171	241.171	241.171	241.171	241.171	241.171	241.171	241.171	241.171
10	238.145	239.138	239.917	238.984	237.725	236.256	234.223	233.608	233.117	232.800
20	228.387	228.103	227.874	225.432	222.312	219.551	216.578	214.964	214.822	214.279
30	209.512	208.870	206.756	203.037	198.295	193.479	189.515	187.237	187.058	186.951
40	181.568	182.003	178.474	173.095	167.196	160.309	154.338	150.515	150.176	149.816
50	154.868	153.952	151.422	144.536	136.216	126.857	117.646	111.156	110.547	110.506
60	126.481	125.491	122.109	116.135	106.322	95.192	83.075	73.942	73.572	73.481
70	94.209	93.884	90.516	84.958	76.635	65.824	52.998	43.262	43.090	42.783
80	63.285	62.835	60.140	55.610	49.050	41.881	38.531	31.741	31.561	31.429
90	37.041	36.485	34.357	30.778	27.253	33.815	30.050	26.902	21.638	21.053
100	139.331	134.452	131.620	128.167	129.234	142.201	150.371	127.130	109.164	94.367
110	553.401	545.007	547.864	549.712	561.099	558.640	537.799	459.362	347.160	295.003
120	1236.428	1218.896	1182.165	1117.332	1032.463	921.493	811.468	679.343	557.026	496.644
130	1324.992	1308.993	1274.549	1211.396	1140.387	1052.301	938.668	827.879	715.505	654.965
140	1349.749	1340.273	1304.448	1253.384	1188.018	1112.914	1015.947	924.263	828.661	775.290
150	1307.174	1298.831	1276.357	1240.405	1190.699	1130.408	1055.123	978.253	905.008	870.126
160	1226.527	1220.267	1206.397	1181.719	1140.490	1098.353	1051.308	1000.324	955.436	937.193
170	1095.973	1092.749	1085.539	1074.347	1058.061	1040.093	1018.759	997.477	982.976	977.323
180	995.187	995.187	995.187	995.187	995.187	995.187	995.187	995.187	995.187	995.187

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	87.67	N.A.	1.70
0-30	184.45	N.A.	3.60
0-40	298.02	N.A.	5.70
0-60	516.47	N.A.	10.00
0-80	661.07	N.A.	12.70
0-90	702.84	N.A.	13.50
10-90	680.04	N.A.	13.10
20-40	210.35	N.A.	4.10
20-50	325.09	N.A.	6.30
40-70	302.02	N.A.	5.80
60-80	144.60	N.A.	2.80
70-80	61.03	N.A.	1.20
80-90	41.77	N.A.	0.80
90-110	422.26	N.A.	8.10
90-120	1134.61	N.A.	21.90
90-130	2024.11	N.A.	39.00
90-150	3567.44	N.A.	68.80
90-180	4485.88	N.A.	86.50
110-180	4063.62	N.A.	78.30
0-180	5188.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.80
10-20	64.87
20-30	96.78
30-40	113.57
40-50	114.74
50-60	103.71
60-70	83.57
70-80	61.03
80-90	41.77
90-100	87.26
100-110	335.01
110-120	712.34
120-130	889.50
130-140	838.56
140-150	704.77
150-160	516.86
160-170	304.30
170-180	97.28

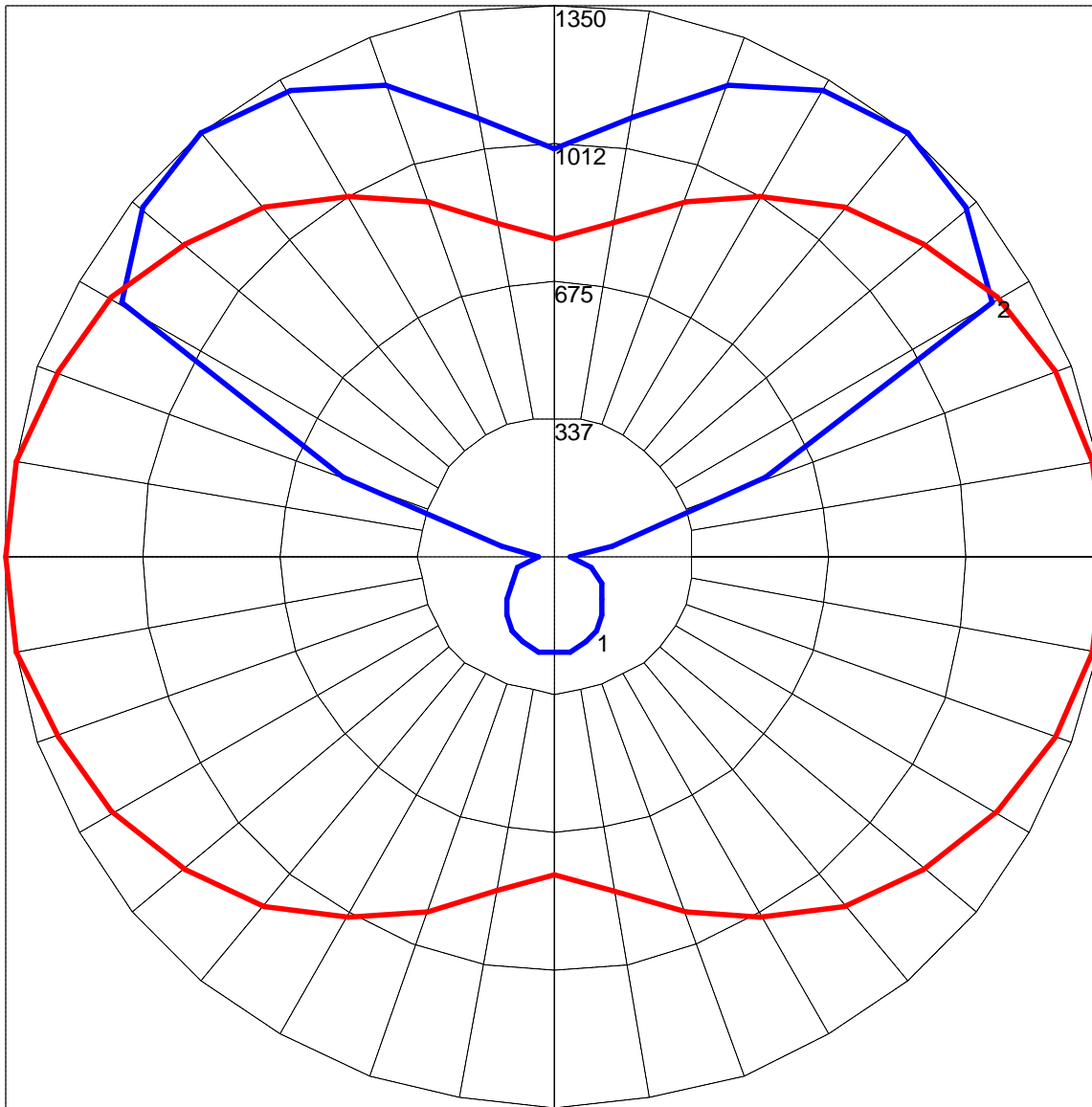
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	98	98	98	98	86	86	86	86	63	63	63	42	42	42	23	23	23	14
1	89	85	81	78	78	75	71	69	55	53	51	36	35	34	19	19	18	11
2	81	74	68	63	71	65	60	56	48	45	42	32	30	28	17	16	15	9
3	74	65	58	53	64	57	51	47	42	38	35	28	26	24	15	14	13	7
4	67	57	50	44	59	50	44	39	37	33	30	25	22	20	13	12	11	6
5	62	51	43	38	54	45	38	33	33	29	25	22	19	17	12	11	10	5
6	57	45	38	32	49	40	33	29	30	25	22	20	17	15	11	9	8	5
7	52	41	33	28	45	36	29	25	27	22	19	18	15	13	10	8	7	4
8	48	37	29	24	42	32	26	22	24	20	17	16	14	12	9	8	7	4
9	45	33	26	21	39	29	23	19	22	18	15	15	12	10	8	7	6	3
10	42	30	24	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3

POLAR GRAPH



Maximum Candela = 1349.749 Located At Horizontal Angle = 0, Vertical Angle = 140
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (140) (Through Max. Cd.)