



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-HO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB]Orb Optronix, Inc.
[TESTDATE]12-01-2016
[ISSUE DATE]01-17-2017
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LAP-4-LED-HO-35
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER]SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	764	670	591
55	787	650	515
65	838	653	442
75	977	724	460
85	1847	1399	966

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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	233.224	233.224	233.224	233.224	233.224	233.224	233.224	233.224	233.224	233.224
10	230.298	231.258	232.012	231.109	229.892	228.471	226.505	225.911	225.436	225.129
20	220.862	220.587	220.366	218.004	214.987	212.317	209.442	207.881	207.744	207.219
30	202.609	201.988	199.943	196.347	191.761	187.104	183.270	181.068	180.894	180.791
40	175.585	176.006	172.593	167.392	161.687	155.027	149.253	145.556	145.228	144.880
50	149.765	148.879	146.433	139.774	131.728	122.677	113.770	107.493	106.904	106.865
60	122.313	121.356	118.086	112.308	102.819	92.055	80.338	71.506	71.148	71.060
70	91.105	90.791	87.533	82.159	74.110	63.655	51.252	41.837	41.670	41.373
80	61.200	60.765	58.158	53.778	47.434	40.501	37.261	30.695	30.521	30.393
90	35.820	35.283	33.225	29.764	26.355	32.701	29.060	26.016	20.925	20.359
100	134.740	130.022	127.283	123.944	124.976	137.515	145.416	122.941	105.567	91.258
110	535.166	527.049	529.812	531.599	542.611	540.233	520.079	444.226	335.721	285.283
120	1195.688	1178.733	1143.213	1080.516	998.443	891.130	784.730	656.959	538.672	480.280
130	1281.334	1265.862	1232.553	1171.481	1102.811	1017.628	907.739	800.600	691.929	633.384
140	1305.275	1296.111	1261.466	1212.085	1148.873	1076.244	982.472	893.809	801.357	749.744
150	1264.103	1256.035	1234.301	1199.534	1151.465	1093.161	1020.357	946.020	875.188	841.455
160	1186.113	1180.059	1166.646	1142.781	1102.911	1062.162	1016.667	967.363	923.954	906.313
170	1059.861	1056.743	1049.771	1038.947	1023.198	1005.822	985.191	964.610	950.587	945.120
180	962.396	962.396	962.396	962.396	962.396	962.396	962.396	962.396	962.396	962.396

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	84.78	N.A.	1.70
0-30	178.37	N.A.	3.60
0-40	288.20	N.A.	5.70
0-60	499.46	N.A.	10.00
0-80	639.29	N.A.	12.70
0-90	679.68	N.A.	13.50
10-90	657.63	N.A.	13.10
20-40	203.42	N.A.	4.10
20-50	314.38	N.A.	6.30
40-70	292.07	N.A.	5.80
60-80	139.84	N.A.	2.80
70-80	59.02	N.A.	1.20
80-90	40.39	N.A.	0.80
90-110	408.35	N.A.	8.10
90-120	1097.22	N.A.	21.90
90-130	1957.42	N.A.	39.00
90-150	3449.9	N.A.	68.80
90-180	4338.07	N.A.	86.50
110-180	3929.72	N.A.	78.30
0-180	5017.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.05
10-20	62.74
20-30	93.59
30-40	109.83
40-50	110.96
50-60	100.30
60-70	80.82
70-80	59.02
80-90	40.39
90-100	84.38
100-110	323.97
110-120	688.87
120-130	860.20
130-140	810.93
140-150	681.55
150-160	499.83
160-170	294.27
170-180	94.07

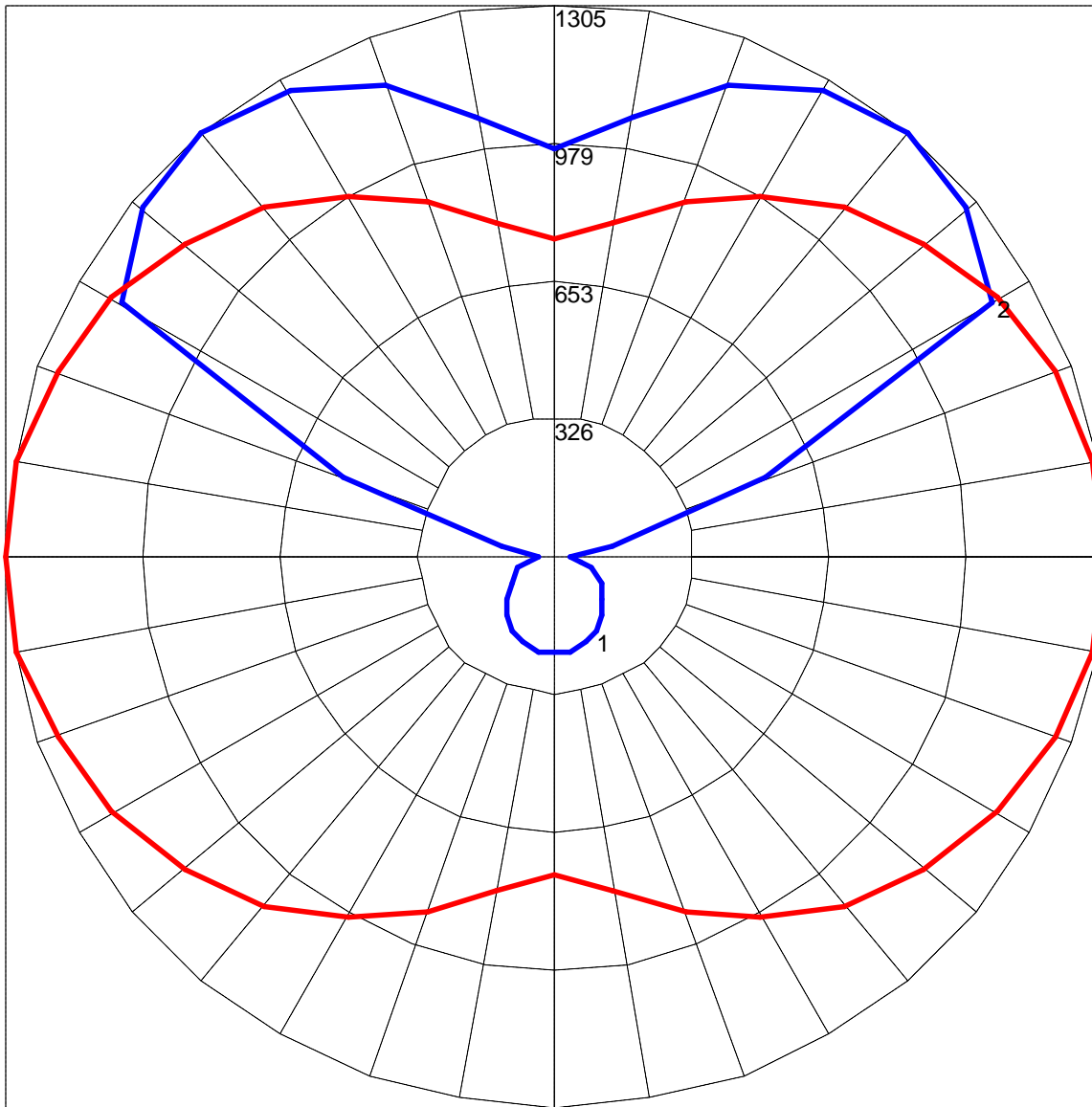
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	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 = 1305.275 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.)