



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-HO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB]Orb Optronix, Inc.
[TESTDATE]12-01-2016
[ISSUEDATE]01-17-2017
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]LAP-4-LED-HO-30
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER]SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4867
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	741	650	573
55	764	630	499
65	813	633	428
75	947	702	446
85	1792	1357	937

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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	226.206	226.206	226.206	226.206	226.206	226.206	226.206	226.206	226.206	226.206
10	223.368	224.299	225.030	224.155	222.974	221.596	219.689	219.113	218.652	218.355
20	214.216	213.949	213.734	211.444	208.518	205.928	203.139	201.625	201.492	200.983
30	196.512	195.910	193.927	190.439	185.991	181.474	177.756	175.619	175.451	175.351
40	170.302	170.710	167.400	162.354	156.821	150.362	144.761	141.176	140.858	140.520
50	145.258	144.399	142.026	135.568	127.764	118.986	110.346	104.259	103.688	103.649
60	118.633	117.704	114.532	108.929	99.725	89.285	77.920	69.354	69.007	68.922
70	88.363	88.058	84.899	79.686	71.880	61.740	49.709	40.578	40.416	40.128
80	59.358	58.936	56.408	52.159	46.006	39.282	36.140	29.771	29.603	29.479
90	34.743	34.221	32.225	28.868	25.562	31.717	28.185	25.233	20.295	19.747
100	130.686	126.109	123.453	120.214	121.215	133.377	141.040	119.242	102.390	88.512
110	519.062	511.189	513.869	515.602	526.283	523.976	504.429	430.859	325.619	276.698
120	1159.708	1143.264	1108.812	1048.002	968.399	864.314	761.116	637.190	522.463	465.827
130	1242.776	1227.770	1195.463	1136.229	1069.626	987.006	880.424	776.509	671.108	614.324
140	1265.997	1257.109	1223.507	1175.612	1114.302	1043.858	952.908	866.912	777.243	727.183
150	1226.064	1218.239	1197.159	1163.438	1116.816	1060.266	989.653	917.552	848.852	816.135
160	1150.421	1144.549	1131.540	1108.393	1069.723	1030.200	986.074	938.254	896.151	879.040
170	1027.968	1024.944	1018.181	1007.684	992.408	975.555	955.545	935.584	921.982	916.680
180	933.436	933.436	933.436	933.436	933.436	933.436	933.436	933.436	933.436	933.436

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	82.23	N.A.	1.70
0-30	173.00	N.A.	3.60
0-40	279.53	N.A.	5.70
0-60	484.43	N.A.	10.00
0-80	620.05	N.A.	12.70
0-90	659.23	N.A.	13.50
10-90	637.84	N.A.	13.10
20-40	197.30	N.A.	4.10
20-50	304.92	N.A.	6.30
40-70	283.28	N.A.	5.80
60-80	135.63	N.A.	2.80
70-80	57.24	N.A.	1.20
80-90	39.17	N.A.	0.80
90-110	396.06	N.A.	8.10
90-120	1064.2	N.A.	21.90
90-130	1898.52	N.A.	39.00
90-150	3346.08	N.A.	68.80
90-180	4207.53	N.A.	86.50
110-180	3811.47	N.A.	78.30
0-180	4866.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.38
10-20	60.85
20-30	90.77
30-40	106.53
40-50	107.62
50-60	97.28
60-70	78.39
70-80	57.24
80-90	39.17
90-100	81.84
100-110	314.22
110-120	668.14
120-130	834.31
130-140	786.52
140-150	661.04
150-160	484.79
160-170	285.42
170-180	91.24

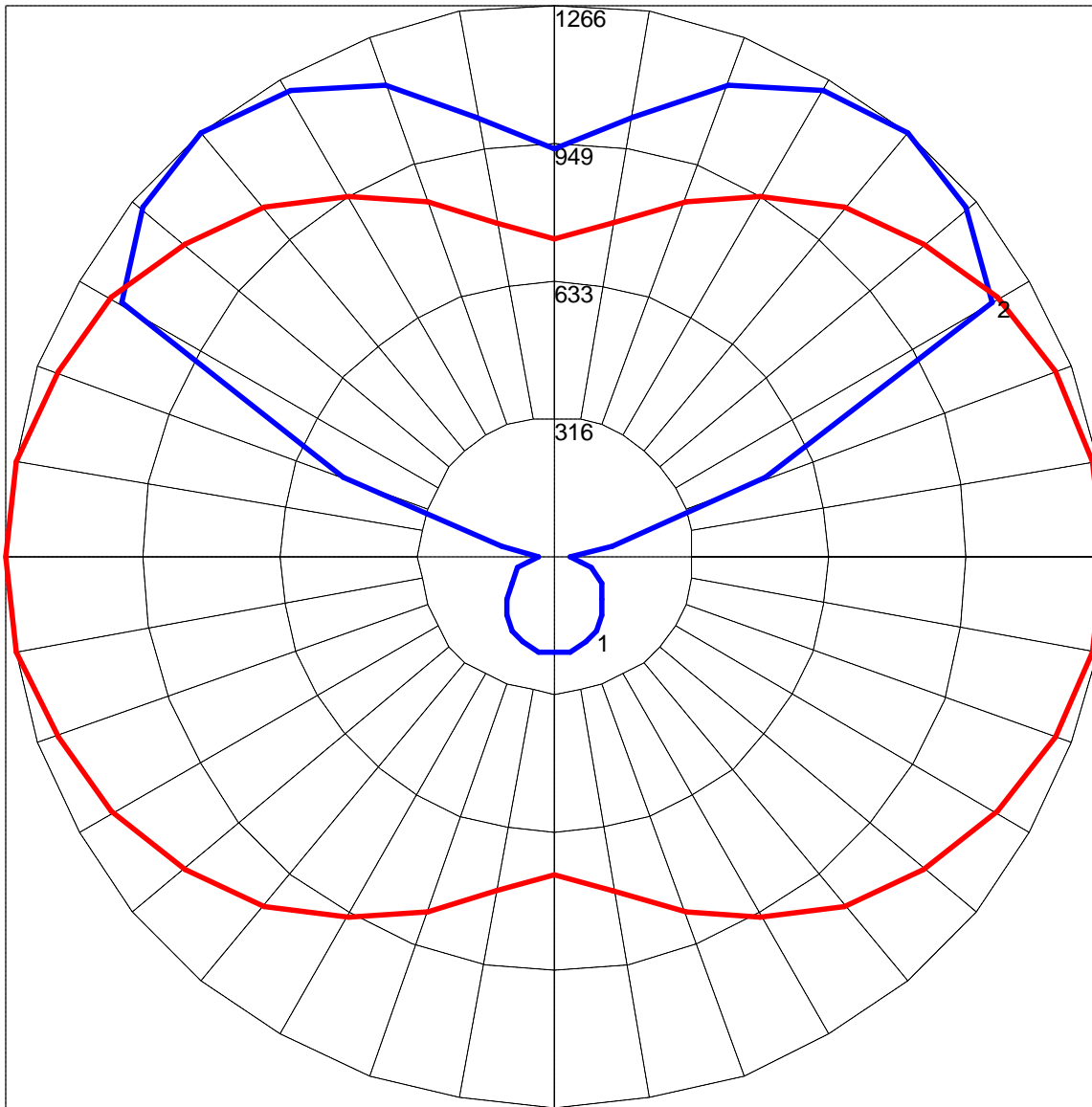
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1265.997 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.)