



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-VHO-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-VHO-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	6723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	72.1
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	1052	899	734
55	1084	865	589
65	1157	867	464
75	1351	957	400
85	2492	1811	554

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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	311.266	311.266	311.266	311.266	311.266	311.266	311.266	311.266	311.266	311.266
10	310.622	310.479	310.355	307.936	305.136	302.481	300.092	298.553	296.597	295.223
20	299.944	297.542	295.611	291.474	286.712	281.909	278.163	275.229	272.557	270.490
30	276.819	273.480	269.473	263.531	256.347	249.212	243.916	239.603	236.146	233.968
40	242.614	241.922	235.618	227.427	217.914	208.234	198.826	191.932	187.230	184.414
50	205.758	203.066	198.366	187.868	176.383	163.734	151.329	139.587	131.804	128.374
60	168.894	166.265	160.710	150.156	136.426	121.472	105.835	91.668	80.387	75.303
70	125.868	124.387	118.610	110.363	98.788	84.818	67.310	52.334	45.922	42.928
80	84.857	83.076	78.578	71.409	62.276	52.499	45.299	38.574	23.875	19.517
90	46.036	45.024	42.086	37.136	32.185	43.218	38.071	32.635	22.809	9.560
100	223.598	214.109	208.164	200.515	194.745	195.835	207.850	172.960	140.222	119.710
110	833.686	811.638	798.744	783.703	762.883	735.866	659.575	569.013	442.647	368.519
120	1503.889	1480.942	1439.912	1380.889	1292.973	1169.173	1045.126	885.080	731.643	634.901
130	1687.239	1671.719	1619.433	1553.258	1475.379	1358.885	1223.613	1082.513	937.256	838.343
140	1733.776	1719.830	1681.338	1620.796	1542.702	1447.316	1326.660	1208.267	1078.472	1000.408
150	1691.151	1680.216	1656.821	1611.497	1550.439	1463.383	1377.187	1279.159	1182.056	1125.237
160	1592.648	1585.091	1566.164	1528.291	1486.610	1432.275	1371.760	1305.256	1242.681	1212.728
170	1421.233	1418.993	1411.654	1396.826	1377.110	1351.052	1325.769	1297.970	1275.881	1266.533
180	1291.216	1291.216	1291.216	1291.216	1291.216	1291.216	1291.216	1291.216	1291.216	1291.216

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	112.81	N.A.	1.70
0-30	237.56	N.A.	3.50
0-40	384.48	N.A.	5.70
0-60	664.86	N.A.	9.90
0-80	846.94	N.A.	12.60
0-90	897.17	N.A.	13.30
10-90	867.81	N.A.	12.90
20-40	271.67	N.A.	4.00
20-50	419.76	N.A.	6.20
40-70	386.36	N.A.	5.70
60-80	182.08	N.A.	2.70
70-80	76.09	N.A.	1.10
80-90	50.23	N.A.	0.70
90-110	585.48	N.A.	8.70
90-120	1504.22	N.A.	22.40
90-130	2634.64	N.A.	39.20
90-150	4632.32	N.A.	68.90
90-180	5826.15	N.A.	86.70
110-180	5240.67	N.A.	77.90
0-180	6723.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.36
10-20	83.45
20-30	124.76
30-40	146.92
40-50	148.08
50-60	132.29
60-70	105.99
70-80	76.09
80-90	50.23
90-100	122.87
100-110	462.61
110-120	918.74
120-130	1130.42
130-140	1083.25
140-150	914.43
150-160	671.92
160-170	395.59
170-180	126.32

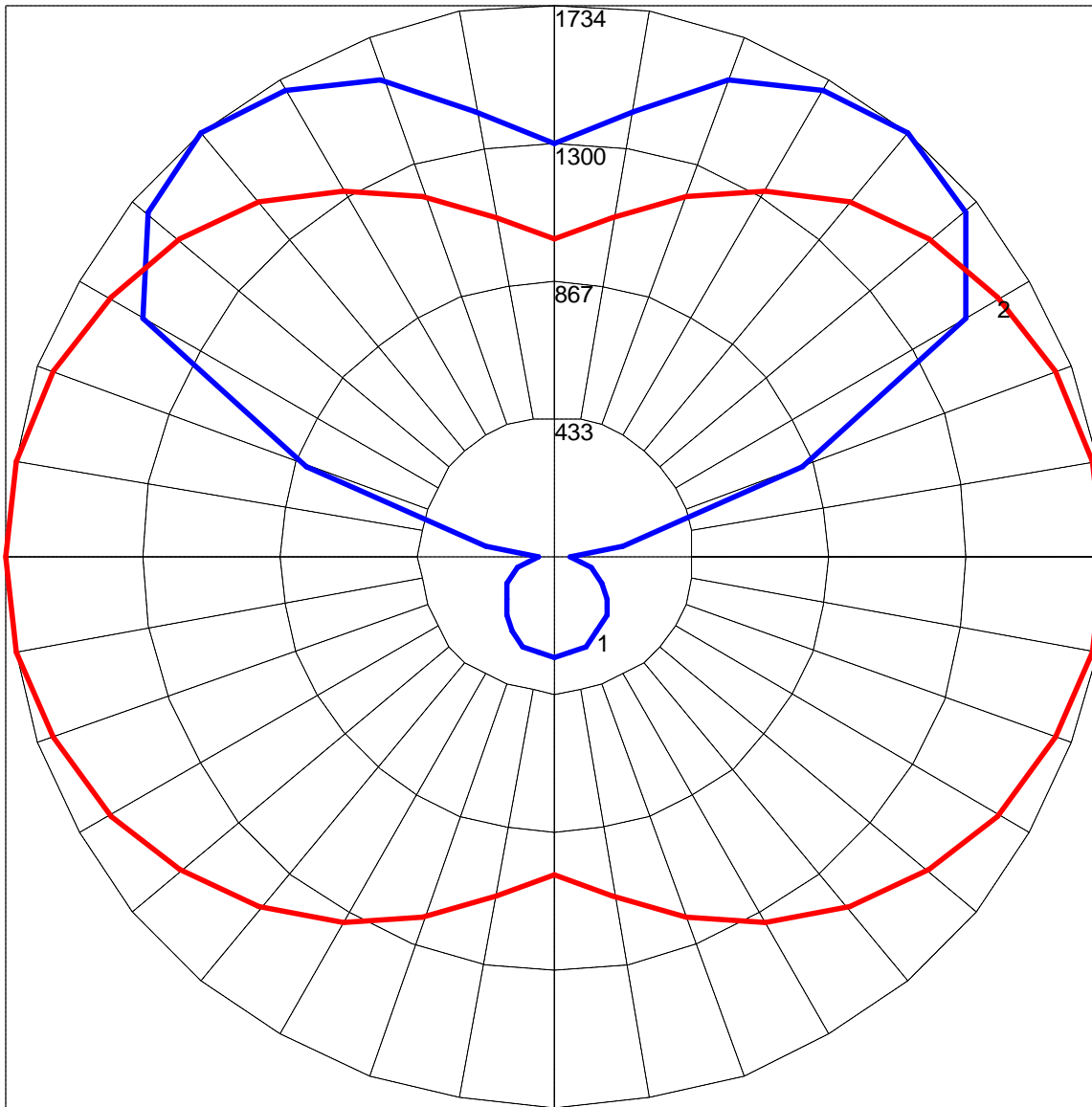
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	22	22	22	13
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	29	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 = 1733.776 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.)