



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LAP VHO 4000k S
[TESTLAB]Orb Optronix, Inc.
[TESTDATE]12-01-2016
[ISSUE DATE]01-17-2017
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]LAP-4-LED-VHO-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	7167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	1122	959	783
55	1156	922	628
65	1234	924	495
75	1440	1020	427
85	2657	1930	590

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

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	331.822	331.822	331.822	331.822	331.822	331.822	331.822	331.822	331.822	331.822
10	331.136	330.983	330.851	328.273	325.288	322.457	319.910	318.270	316.185	314.720
20	319.753	317.192	315.133	310.723	305.647	300.527	296.533	293.406	290.557	288.353
30	295.101	291.541	287.269	280.935	273.277	265.670	260.024	255.427	251.741	249.420
40	258.637	257.899	251.179	242.447	232.305	221.986	211.957	204.607	199.595	196.593
50	219.346	216.477	211.466	200.275	188.032	174.547	161.323	148.805	140.508	136.852
60	180.048	177.245	171.323	160.073	145.436	129.494	112.825	97.722	85.696	80.276
70	134.180	132.602	126.443	117.652	105.312	90.420	71.755	55.790	48.955	45.763
80	90.461	88.562	83.767	76.125	66.389	55.966	48.291	41.122	25.452	20.806
90	49.076	47.997	44.865	39.589	34.311	46.072	40.585	34.790	24.315	10.191
100	238.365	228.249	221.911	213.757	207.606	208.768	221.577	184.383	149.482	127.616
110	888.744	865.240	851.494	835.460	813.265	784.464	703.134	606.591	471.880	392.857
120	1603.208	1578.745	1535.006	1472.085	1378.363	1246.387	1114.147	943.532	779.962	676.831
130	1798.666	1782.122	1726.382	1655.837	1572.815	1448.628	1304.422	1154.004	999.154	893.708
140	1848.277	1833.410	1792.376	1727.835	1644.584	1542.899	1414.274	1288.063	1149.696	1066.476
150	1802.837	1791.180	1766.240	1717.922	1652.832	1560.027	1468.138	1363.636	1260.120	1199.549
160	1697.828	1689.772	1669.595	1629.221	1584.788	1526.864	1462.353	1391.457	1324.749	1292.818
170	1515.093	1512.705	1504.881	1489.074	1468.056	1440.277	1413.325	1383.690	1360.142	1350.176
180	1376.490	1376.490	1376.490	1376.490	1376.490	1376.490	1376.490	1376.490	1376.490	1376.490

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	120.26	N.A.	1.70
0-30	253.25	N.A.	3.50
0-40	409.87	N.A.	5.70
0-60	708.76	N.A.	9.90
0-80	902.87	N.A.	12.60
0-90	956.42	N.A.	13.30
10-90	925.12	N.A.	12.90
20-40	289.62	N.A.	4.00
20-50	447.48	N.A.	6.20
40-70	411.88	N.A.	5.70
60-80	194.10	N.A.	2.70
70-80	81.12	N.A.	1.10
80-90	53.55	N.A.	0.70
90-110	624.15	N.A.	8.70
90-120	1603.56	N.A.	22.40
90-130	2808.64	N.A.	39.20
90-150	4938.24	N.A.	68.90
90-180	6210.92	N.A.	86.70
110-180	5586.77	N.A.	77.90
0-180	7167.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.30
10-20	88.96
20-30	132.99
30-40	156.62
40-50	157.86
50-60	141.03
60-70	112.99
70-80	81.12
80-90	53.55
90-100	130.98
100-110	493.17
110-120	979.41
120-130	1205.08
130-140	1154.79
140-150	974.82
150-160	716.29
160-170	421.72
170-180	134.66

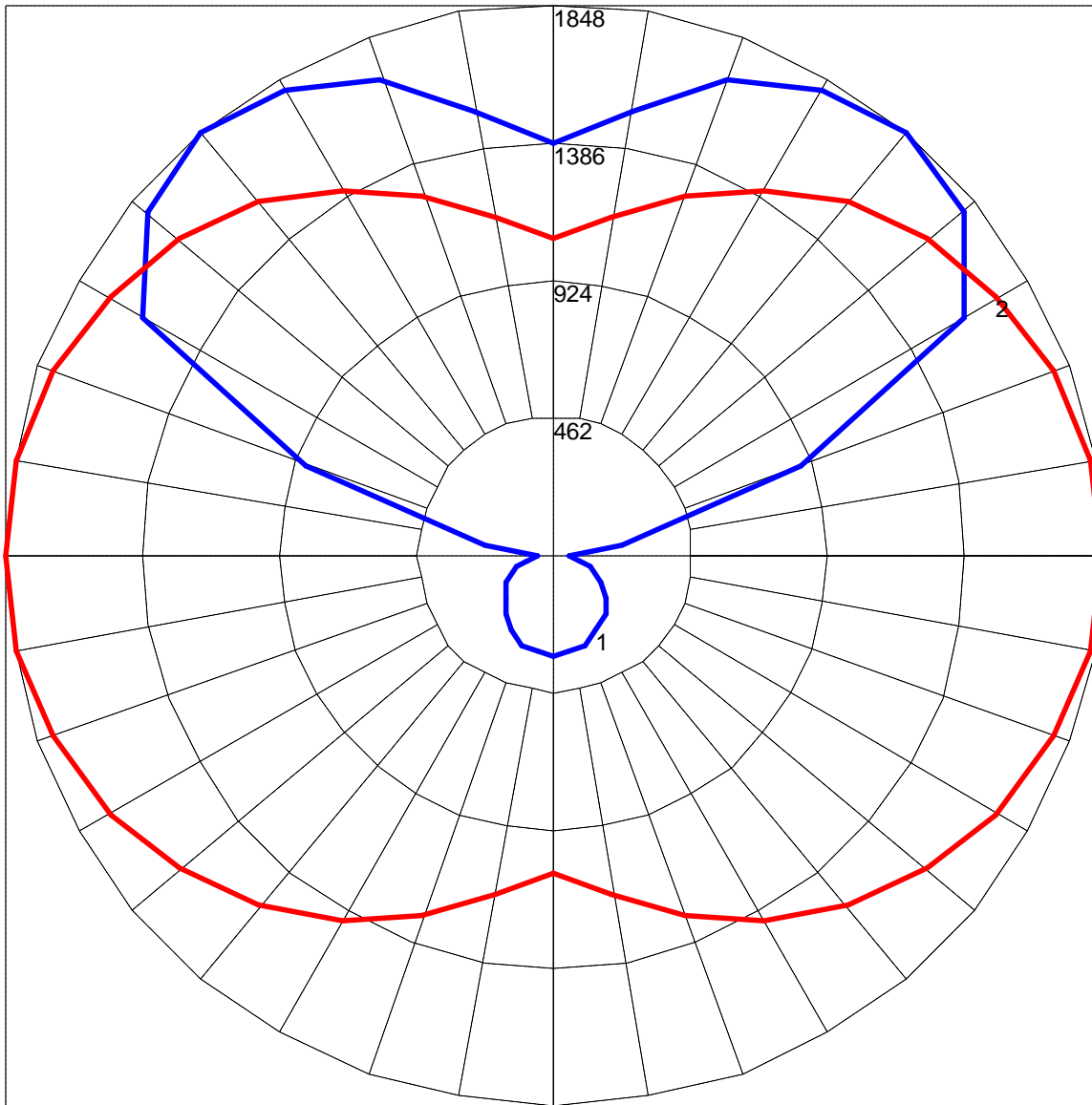
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-VHO-40.IES

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 = 1848.277 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.)