



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LAP-4-LED-VHO-35.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-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_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	1085	927	757
55	1117	892	607
65	1193	894	479
75	1393	986	413
85	2569	1866	571

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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	320.849	320.849	320.849	320.849	320.849	320.849	320.849	320.849	320.849	320.849
10	320.185	320.037	319.910	317.417	314.531	311.793	309.331	307.745	305.729	304.312
20	309.179	306.702	304.712	300.447	295.539	290.589	286.727	283.703	280.948	278.817
30	285.342	281.900	277.769	271.644	264.240	256.884	251.425	246.980	243.416	241.172
40	250.084	249.370	242.873	234.429	224.623	214.645	204.948	197.841	192.994	190.092
50	212.092	209.318	204.473	193.652	181.814	168.775	155.988	143.884	135.861	132.326
60	174.094	171.384	165.657	154.779	140.626	125.212	109.094	94.490	82.862	77.621
70	129.743	128.217	122.262	113.761	101.829	87.430	69.382	53.945	47.336	44.250
80	87.469	85.633	80.997	73.608	64.194	54.115	46.694	39.762	24.610	20.118
90	47.453	46.410	43.381	38.280	33.176	44.548	39.243	33.639	23.511	9.854
100	230.482	220.701	214.572	206.688	200.740	201.864	214.249	178.285	144.539	123.396
110	859.353	836.626	823.335	807.831	786.370	758.522	679.881	586.531	456.275	379.865
120	1550.190	1526.536	1484.243	1423.403	1332.780	1205.169	1077.302	912.329	754.169	654.448
130	1739.184	1723.187	1669.290	1601.078	1520.802	1400.722	1261.285	1115.841	966.112	864.153
140	1787.154	1772.779	1733.102	1670.695	1590.198	1491.875	1367.504	1245.467	1111.676	1031.208
150	1743.217	1731.946	1707.830	1661.110	1598.173	1508.437	1419.587	1318.541	1218.448	1159.880
160	1641.681	1633.891	1614.381	1575.343	1532.379	1476.371	1413.993	1345.441	1280.940	1250.064
170	1464.989	1462.680	1455.115	1439.830	1419.507	1392.647	1366.586	1337.931	1315.162	1305.526
180	1330.969	1330.969	1330.969	1330.969	1330.969	1330.969	1330.969	1330.969	1330.969	1330.969

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	116.28	N.A.	1.70
0-30	244.88	N.A.	3.50
0-40	396.32	N.A.	5.70
0-60	685.33	N.A.	9.90
0-80	873.01	N.A.	12.60
0-90	924.79	N.A.	13.30
10-90	894.53	N.A.	12.90
20-40	280.04	N.A.	4.00
20-50	432.68	N.A.	6.20
40-70	398.26	N.A.	5.70
60-80	187.69	N.A.	2.70
70-80	78.44	N.A.	1.10
80-90	51.78	N.A.	0.70
90-110	603.51	N.A.	8.70
90-120	1550.53	N.A.	22.40
90-130	2715.76	N.A.	39.20
90-150	4774.93	N.A.	68.90
90-180	6005.52	N.A.	86.70
110-180	5402.02	N.A.	77.90
0-180	6930.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.26
10-20	86.02
20-30	128.60
30-40	151.44
40-50	152.64
50-60	136.37
60-70	109.25
70-80	78.44
80-90	51.78
90-100	126.65
100-110	476.86
110-120	947.02
120-130	1165.22
130-140	1116.6
140-150	942.58
150-160	692.61
160-170	407.77
170-180	130.21

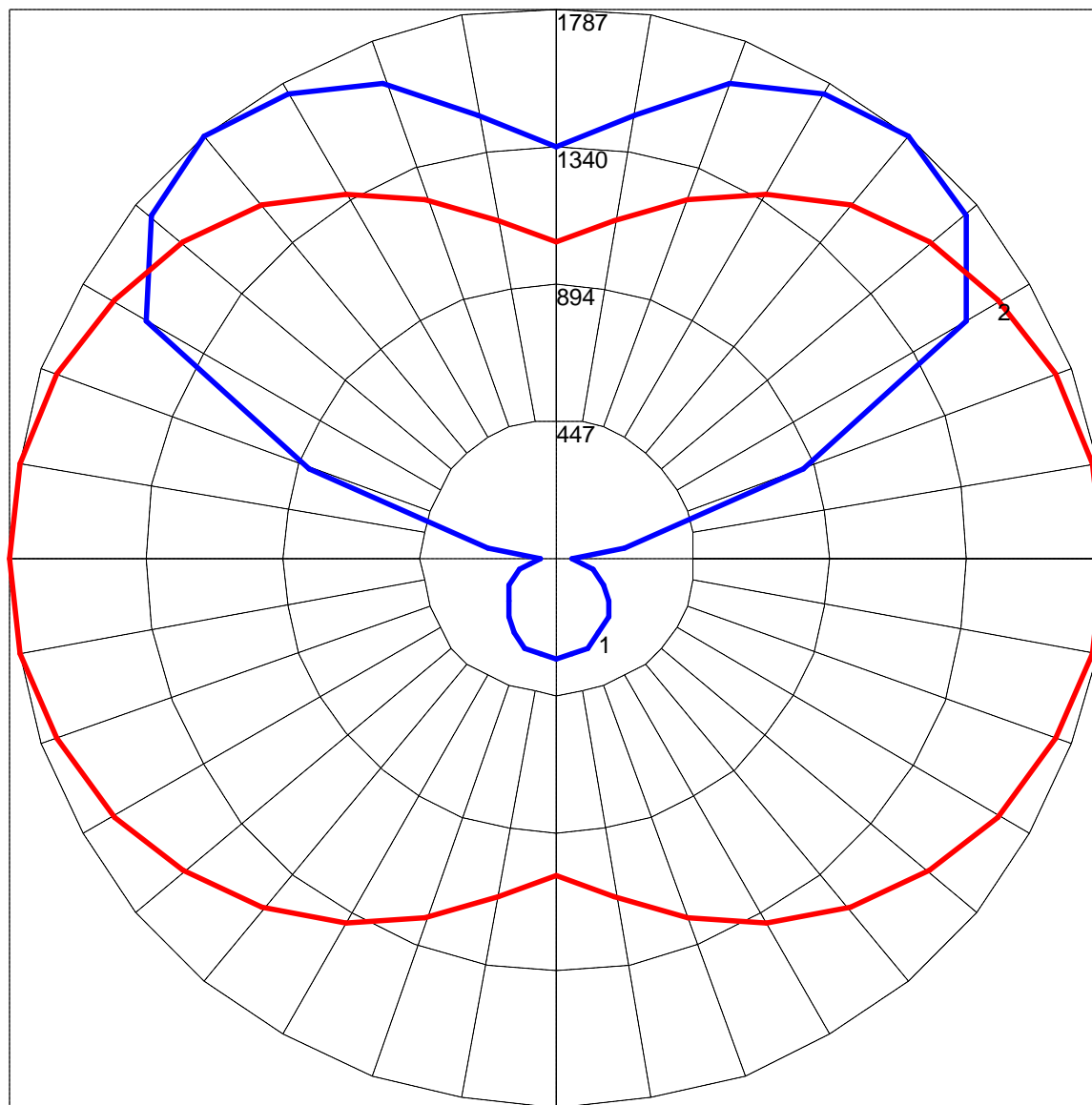
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1787.154 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.)