



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LAP SS 4000k S
[TESTLAB]Orb Optronix, Inc.
[TESTDATE]12-01-2016
[ISSUE DATE]01-17-2017
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]LAP-4-LED-SS-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	4535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	38.5
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	772	681	563
55	820	687	491
65	917	734	449
75	1154	895	502
85	2375	1904	1003

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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	217.637	217.637	217.637	217.637	217.637	217.637	217.637	217.637	217.637	217.637
10	219.779	220.468	220.961	219.686	217.676	215.878	213.800	212.541	210.791	207.931
20	213.213	212.544	212.420	209.811	206.263	203.083	199.907	195.934	193.767	191.877
30	197.063	196.747	194.516	190.948	186.014	181.241	177.025	173.517	170.668	168.691
40	175.467	176.366	173.209	167.741	161.666	155.159	149.169	144.094	140.204	137.619
50	153.324	152.540	150.034	143.837	135.935	127.270	118.711	110.925	105.185	102.107
60	130.037	129.305	126.108	120.048	110.844	100.650	90.140	80.067	72.019	67.497
70	103.483	103.110	99.729	94.247	86.421	75.973	64.346	54.228	49.552	46.904
80	76.553	75.890	73.180	68.313	61.941	54.844	51.419	43.546	34.799	31.333
90	48.159	47.269	45.018	41.307	37.798	45.397	39.085	37.200	31.822	21.354
100	135.747	131.118	127.813	123.889	123.793	144.820	147.676	126.968	108.078	90.855
110	486.638	479.338	483.132	486.733	493.580	490.817	469.190	402.171	306.486	252.773
120	1040.836	1025.435	994.696	940.461	872.235	780.819	693.419	581.681	479.672	423.358
130	1111.678	1098.826	1070.827	1020.141	962.838	885.384	795.298	704.227	608.955	553.663
140	1132.972	1121.828	1090.234	1049.798	999.797	938.163	858.028	782.112	702.477	653.028
150	1101.737	1091.905	1073.530	1043.764	1000.424	950.709	887.641	825.244	763.466	732.403
160	1034.226	1026.943	1014.296	987.960	958.143	923.364	883.701	840.373	802.133	787.112
170	925.199	920.725	913.564	902.284	887.897	872.955	854.121	836.871	824.116	820.544
180	838.165	838.165	838.165	838.165	838.165	838.165	838.165	838.165	838.165	838.165

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	80.26	N.A.	1.80
0-30	170.00	N.A.	3.70
0-40	277.42	N.A.	6.10
0-60	493.79	N.A.	10.90
0-80	655.47	N.A.	14.50
0-90	708.66	N.A.	15.60
10-90	687.95	N.A.	15.20
20-40	197.15	N.A.	4.30
20-50	308.86	N.A.	6.80
40-70	306.31	N.A.	6.80
60-80	161.67	N.A.	3.60
70-80	71.74	N.A.	1.60
80-90	53.19	N.A.	1.20
90-110	392.78	N.A.	8.70
90-120	1003.88	N.A.	22.10
90-130	1755.48	N.A.	38.70
90-150	3054.64	N.A.	67.40
90-180	3826.71	N.A.	84.40
110-180	3433.94	N.A.	75.70
0-180	4535.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.71
10-20	59.56
20-30	89.74
30-40	107.41
40-50	111.71
50-60	104.67
60-70	89.93
70-80	71.74
80-90	53.19
90-100	91.35
100-110	301.42
110-120	611.10
120-130	751.61
130-140	706.23
140-150	592.92
150-160	434.61
160-170	255.64
170-180	81.82

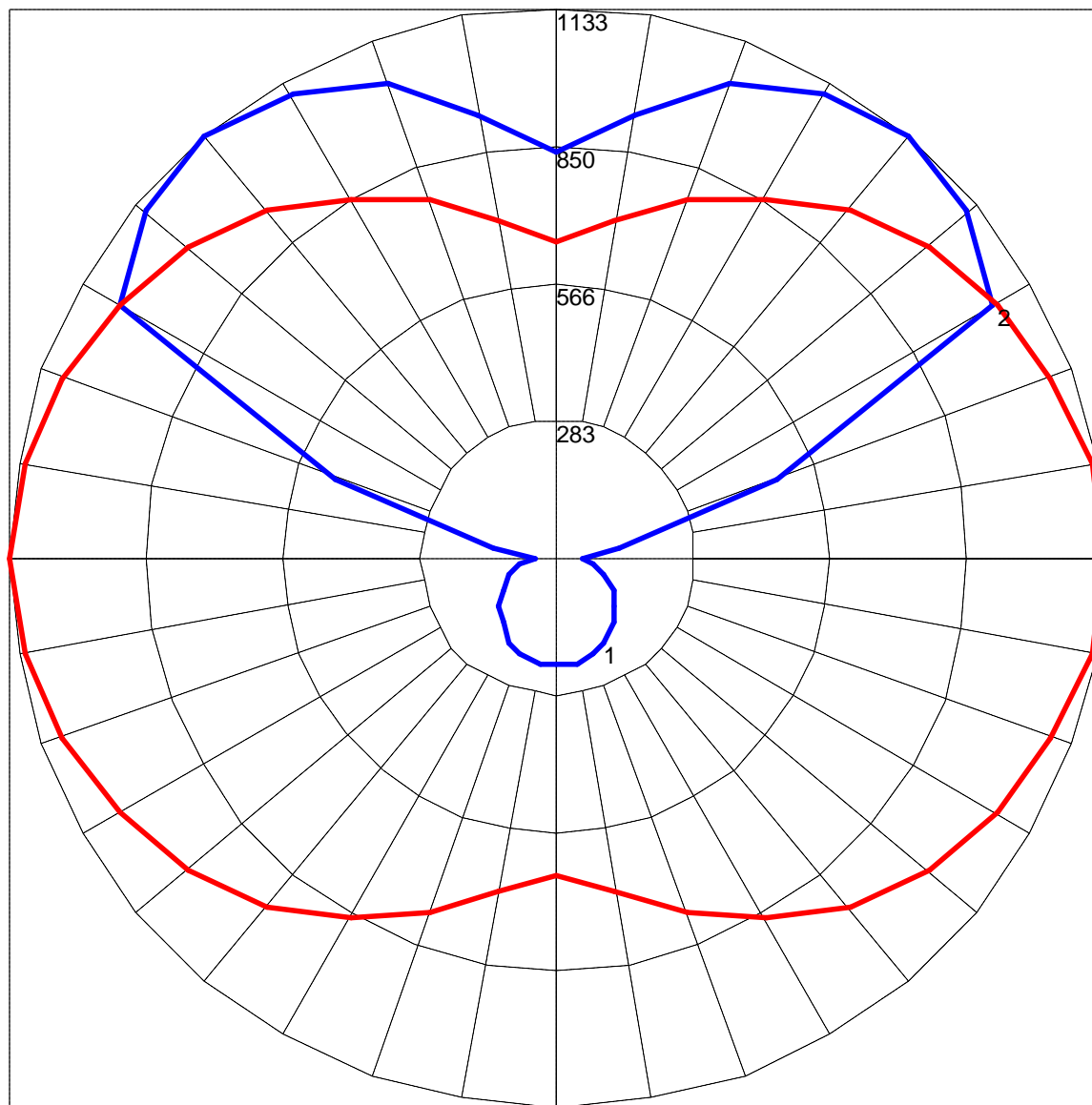
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	87	87	87	87	64	64	64	44	44	44	25	25	25	16
1	90	85	81	78	78	75	72	69	55	53	51	37	36	35	21	20	20	12
2	81	74	68	63	71	65	60	56	48	45	42	33	31	29	18	17	16	10
3	74	65	58	52	65	57	51	47	42	38	35	29	26	24	16	15	14	8
4	68	57	50	44	59	50	44	39	37	33	30	25	23	21	14	13	12	7
5	62	51	43	37	54	45	38	33	33	29	25	23	20	18	13	11	10	6
6	57	45	38	32	49	40	33	29	30	25	22	20	17	15	11	10	9	5
7	52	41	33	28	46	36	29	25	27	22	19	18	15	13	10	9	8	5
8	48	37	29	24	42	32	26	22	24	20	17	17	14	12	9	8	7	4
9	45	33	26	21	39	29	23	19	22	18	15	15	12	10	9	7	6	4
10	42	30	23	19	36	27	21	17	20	16	13	14	11	9	8	7	5	3

POLAR GRAPH



Maximum Candela = 1132.972 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.)