



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LAP-4-LED-SS-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-SS-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	4348
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	740	653	539
55	786	658	470
65	879	704	431
75	1107	858	481
85	2277	1825	962

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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	208.664	208.664	208.664	208.664	208.664	208.664	208.664	208.664	208.664	208.664
10	210.718	211.378	211.851	210.628	208.701	206.977	204.985	203.778	202.100	199.358
20	204.422	203.781	203.662	201.160	197.759	194.710	191.665	187.856	185.778	183.966
30	188.938	188.635	186.496	183.075	178.345	173.768	169.726	166.363	163.631	161.736
40	168.232	169.094	166.068	160.825	155.001	148.762	143.019	138.153	134.423	131.945
50	147.002	146.251	143.848	137.907	130.330	122.023	113.817	106.352	100.848	97.897
60	124.676	123.974	120.909	115.098	106.274	96.500	86.424	76.766	69.050	64.714
70	99.216	98.859	95.617	90.361	82.858	72.841	61.693	51.992	47.509	44.970
80	73.397	72.761	70.163	65.496	59.387	52.583	49.299	41.751	33.364	30.041
90	46.173	45.320	43.162	39.604	36.240	43.525	37.474	35.666	30.510	20.474
100	130.150	125.712	122.543	118.781	118.689	138.849	141.587	121.733	103.622	87.109
110	466.574	459.575	463.212	466.665	473.230	470.581	449.845	385.589	293.850	242.351
120	997.922	983.156	953.685	901.686	836.273	748.626	664.829	557.698	459.895	405.903
130	1065.843	1053.521	1026.677	978.081	923.140	848.880	762.508	675.192	583.848	530.835
140	1086.260	1075.575	1045.284	1006.515	958.575	899.483	822.651	749.866	673.514	626.104
150	1056.312	1046.886	1029.268	1000.730	959.176	911.511	851.044	791.219	731.988	702.206
160	991.585	984.602	972.477	947.226	918.639	885.294	847.266	805.724	769.061	754.659
170	887.053	882.763	875.898	865.083	851.289	836.963	818.906	802.367	790.138	786.713
180	803.607	803.607	803.607	803.607	803.607	803.607	803.607	803.607	803.607	803.607

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	76.95	N.A.	1.80
0-30	162.99	N.A.	3.70
0-40	265.98	N.A.	6.10
0-60	473.44	N.A.	10.90
0-80	628.44	N.A.	14.50
0-90	679.44	N.A.	15.60
10-90	659.59	N.A.	15.20
20-40	189.02	N.A.	4.30
20-50	296.12	N.A.	6.80
40-70	293.68	N.A.	6.80
60-80	155.01	N.A.	3.60
70-80	68.78	N.A.	1.60
80-90	51.00	N.A.	1.20
90-110	376.58	N.A.	8.70
90-120	962.49	N.A.	22.10
90-130	1683.11	N.A.	38.70
90-150	2928.7	N.A.	67.40
90-180	3668.94	N.A.	84.40
110-180	3292.36	N.A.	75.70
0-180	4348.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.85
10-20	57.10
20-30	86.04
30-40	102.98
40-50	107.10
50-60	100.36
60-70	86.22
70-80	68.78
80-90	51.00
90-100	87.59
100-110	289.00
110-120	585.91
120-130	720.62
130-140	677.12
140-150	568.48
150-160	416.69
160-170	245.10
170-180	78.45

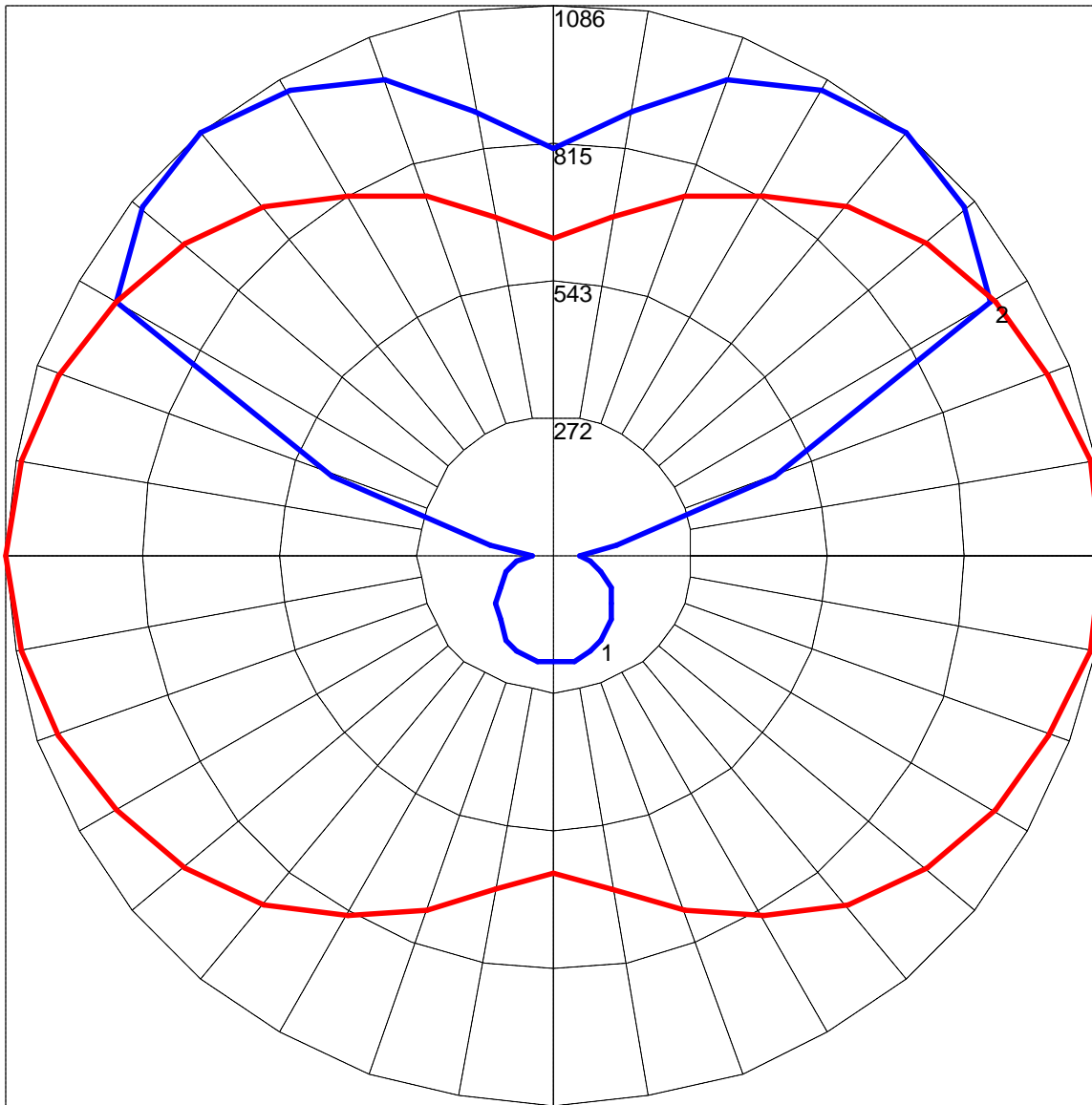
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1086.26 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.)