



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-80L-830.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12471
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 02/17/21
[TEST DATE] 02/03/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] SW-4-80L-830
[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
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7674
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12951	9881	9245
55	10869	8362	8538
65	8655	7373	8674
75	6536	6984	8649
85	3942	6725	7753

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2089	2089	2089	2089	2089
2.5	2143	2107	2091	2077	2060
5.0	2141	2107	2094	2083	2068
7.5	2133	2104	2095	2084	2072
10.0	2119	2094	2089	2080	2067
12.5	2098	2079	2076	2069	2056
15.0	2072	2057	2055	2049	2037
17.5	2037	2028	2028	2022	2011
20.0	1998	1993	1993	1987	1977
22.5	1949	1951	1952	1944	1933
25.0	1894	1901	1903	1896	1881
27.5	1832	1845	1847	1839	1825
30.0	1762	1782	1788	1778	1763
32.5	1686	1711	1719	1712	1697
35.0	1605	1636	1647	1642	1629
37.5	1520	1552	1569	1571	1562
40.0	1428	1466	1492	1502	1495
42.5	1325	1377	1415	1434	1433
45.0	1231	1290	1336	1369	1375
47.5	1135	1200	1258	1309	1323
50.0	1042	1113	1186	1251	1277
52.5	949	1027	1117	1202	1235
55.0	858	944	1049	1156	1205
57.5	771	864	987	1117	1179
60.0	687	786	928	1085	1158
62.5	607	710	875	1055	1139
65.0	523	642	825	1030	1121
67.5	450	576	779	1006	1097
70.0	383	517	738	977	1068
72.5	321	463	700	945	1029
75.0	262	413	663	906	981
77.5	211	368	628	860	927
80.0	162	323	590	807	865
82.5	114	284	549	749	799
85.0	73	244	505	687	730
87.5	36	207	457	621	658
90.0	5	173	413	554	586
92.5	1	162	386	511	536
95.0	1	156	364	475	495
97.5	1	150	342	440	458
100.0	1	144	322	409	425
102.5	1	138	302	381	396
105.0	1	131	285	356	370
107.5	1	122	269	335	348
110.0	1	113	257	316	328
112.5	1	101	242	300	312
115.0	1	90	228	286	298
117.5	1	78	215	273	286
120.0	2	67	199	259	274
122.5	2	57	183	247	261
125.0	1	47	169	231	248
127.5	2	37	153	217	233
130.0	2	28	137	199	218
132.5	2	19	122	183	201

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CANDELA TABULATION - (Cont.)

135.0	2	9	107	168	185
137.5	2	3	93	150	169
140.0	2	2	76	134	151
142.5	2	2	62	115	134
145.0	2	2	49	99	114
147.5	2	2	34	80	97
150.0	2	2	20	63	77
152.5	2	2	6	46	59
155.0	2	2	2	29	41
157.5	2	2	2	11	22
160.0	2	2	2	2	5
162.5	2	2	2	2	1
165.0	2	2	2	2	1
167.5	3	2	2	2	1
170.0	2	2	2	2	1
172.5	3	2	2	2	1
175.0	3	2	2	2	1
177.5	3	2	2	2	1
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	779.19	N.A.	10.20
0-30	1652.00	N.A.	21.50
0-40	2674.06	N.A.	34.80
0-60	4636.3	N.A.	60.40
0-80	6148.00	N.A.	80.10
0-90	6648.43	N.A.	86.60
10-90	6448.5	N.A.	84.00
20-40	1894.87	N.A.	24.70
20-50	2918.5	N.A.	38.00
40-70	2786.52	N.A.	36.30
60-80	1511.69	N.A.	19.70
70-80	687.41	N.A.	9.00
80-90	500.43	N.A.	6.50
90-110	595.22	N.A.	7.80
90-120	782.82	N.A.	10.20
90-130	911.23	N.A.	11.90
90-150	1018.06	N.A.	13.30
90-180	1025.94	N.A.	13.40
110-180	430.73	N.A.	5.60
0-180	7674.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.93
10-20	579.27
20-30	872.81
30-40	1022.06
40-50	1023.63
50-60	938.61
60-70	824.28
70-80	687.41
80-90	500.43
90-100	340.64
100-110	254.57
110-120	187.60
120-130	128.42
130-140	73.86
140-150	32.97
150-160	7.13
160-170	0.56
170-180	0.19

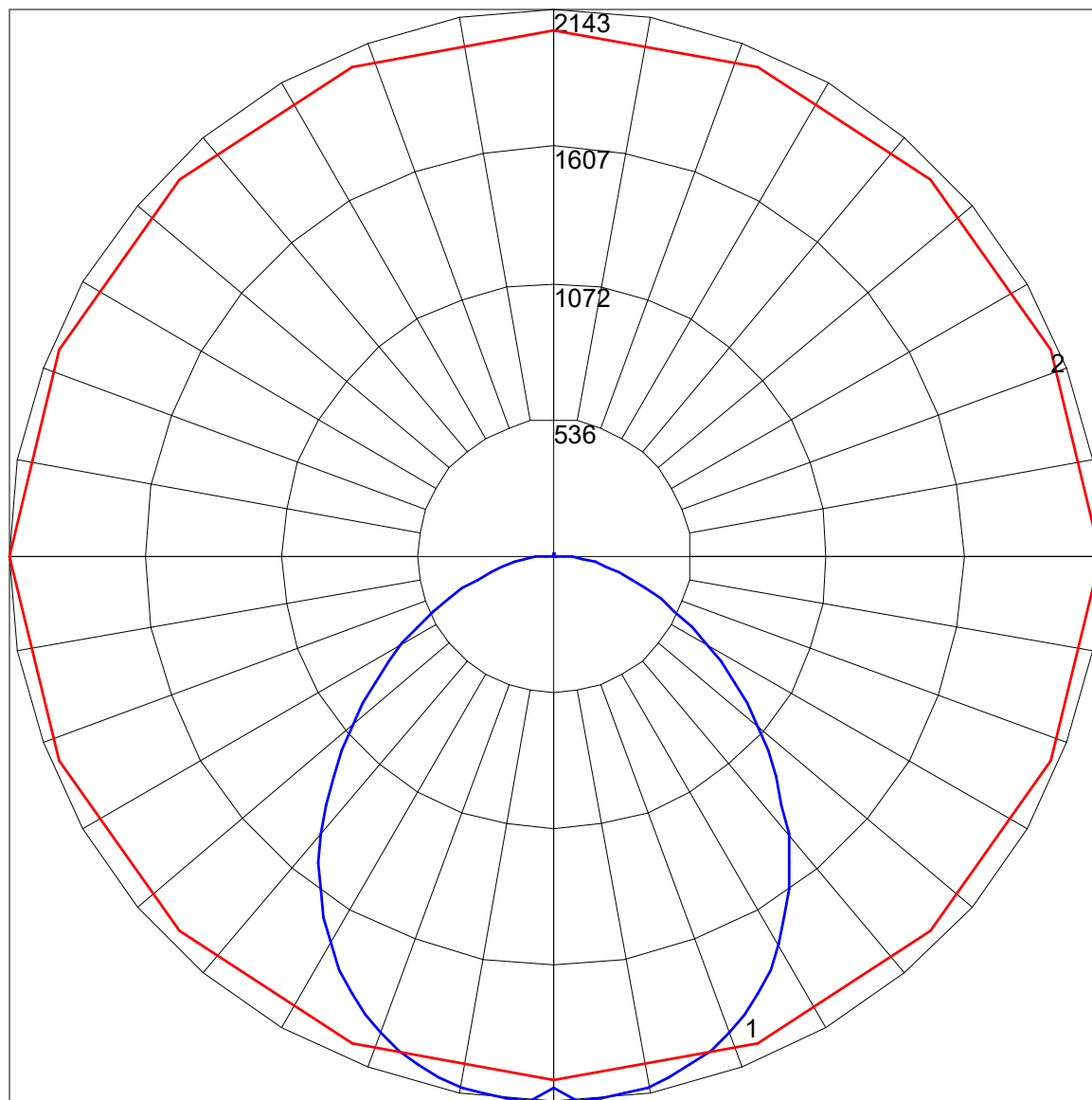
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	103	98	93	88	99	94	89	85	87	84	80	81	78	75	75	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	61	58	55
3	85	74	65	58	81	71	63	56	66	59	54	61	56	51	57	53	49	46
4	77	65	56	49	74	63	54	48	58	51	45	54	48	43	51	46	41	39
5	71	58	49	42	68	56	47	41	52	45	39	49	43	38	46	40	36	33
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	32	29
7	61	47	38	32	58	46	37	31	43	36	30	40	34	29	38	32	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 2143 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)