



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 88RK-4-LED-SS-850-UE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12483

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 02/16/21

[TESTDATE] 02/11/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] 88RK-4-LED-SS-850-UE

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	23
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.13 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3250	2900	2712
55	2785	2405	2226
65	2257	1887	1804
75	1776	1493	1585
85	1289	1215	1539

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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	1200	1200	1200	1200	1200
2.5	1221	1209	1201	1194	1189
5.0	1222	1209	1201	1194	1188
7.5	1220	1208	1199	1192	1187
10.0	1217	1204	1195	1187	1182
12.5	1210	1198	1189	1181	1176
15.0	1201	1189	1180	1171	1165
17.5	1190	1178	1168	1158	1153
20.0	1175	1163	1152	1143	1137
22.5	1157	1147	1134	1123	1116
25.0	1136	1126	1112	1100	1093
27.5	1111	1101	1087	1072	1064
30.0	1081	1072	1056	1040	1031
32.5	1046	1038	1022	1003	991
35.0	1007	999	982	962	949
37.5	964	956	937	916	902
40.0	917	909	888	866	852
42.5	863	855	836	814	799
45.0	808	798	782	759	743
47.5	748	742	724	702	687
50.0	689	684	664	644	632
52.5	630	625	606	588	574
55.0	569	565	550	532	520
57.5	511	508	494	477	470
60.0	455	452	441	427	421
62.5	401	398	388	381	377
65.0	347	347	341	339	336
67.5	300	297	299	301	300
70.0	253	256	259	266	268
72.5	212	216	222	234	238
75.0	175	180	190	205	211
77.5	141	148	162	179	187
80.0	110	119	135	154	163
82.5	82	90	109	131	139
85.0	52	62	85	108	117
87.5	26	37	61	85	93
90.0	5	18	42	64	72
92.5	0	13	38	59	65
95.0	0	13	37	57	62
97.5	0	13	36	54	59
100.0	0	13	36	52	57
102.5	0	13	35	50	54
105.0	0	12	34	49	53
107.5	0	13	33	47	51
110.0	0	12	32	45	49
112.5	0	12	31	44	48
115.0	0	11	30	42	46
117.5	0	11	29	41	45
120.0	0	10	28	39	43
122.5	0	10	27	37	41
125.0	0	9	25	35	38
127.5	0	8	24	33	36
130.0	1	8	21	31	34
132.5	1	7	19	29	32

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CANDELA TABULATION - (Cont.)

135.0	1	5	17	27	30
137.5	1	4	15	24	27
140.0	1	3	14	21	24
142.5	1	2	12	18	21
145.0	1	1	11	16	18
147.5	1	1	10	14	16
150.0	1	1	8	13	14
152.5	1	1	6	11	12
155.0	1	1	4	9	10
157.5	1	1	1	7	8
160.0	1	1	1	4	6
162.5	1	1	1	1	3
165.0	1	1	1	1	1
167.5	1	1	1	1	1
170.0	1	1	1	1	1
172.5	1	1	1	1	1
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	1	1	1	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	448.08	N.A.	13.00
0-30	960.53	N.A.	27.90
0-40	1572.14	N.A.	45.70
0-60	2662.51	N.A.	77.40
0-80	3209.12	N.A.	93.30
0-90	3302.83	N.A.	96.00
10-90	3188.25	N.A.	92.70
20-40	1124.06	N.A.	32.70
20-50	1723.63	N.A.	50.10
40-70	1431.76	N.A.	41.60
60-80	546.62	N.A.	15.90
70-80	205.22	N.A.	6.00
80-90	93.70	N.A.	2.70
90-110	70.31	N.A.	2.00
90-120	96.79	N.A.	2.80
90-130	116.66	N.A.	3.40
90-150	135.28	N.A.	3.90
90-180	138.04	N.A.	4.00
110-180	67.73	N.A.	2.00
0-180	3440.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.57
10-20	333.51
20-30	512.45
30-40	611.61
40-50	599.57
50-60	490.80
60-70	341.40
70-80	205.22
80-90	93.70
90-100	38.13
100-110	32.18
110-120	26.48
120-130	19.87
130-140	12.51
140-150	6.11
150-160	2.30
160-170	0.36
170-180	0.10

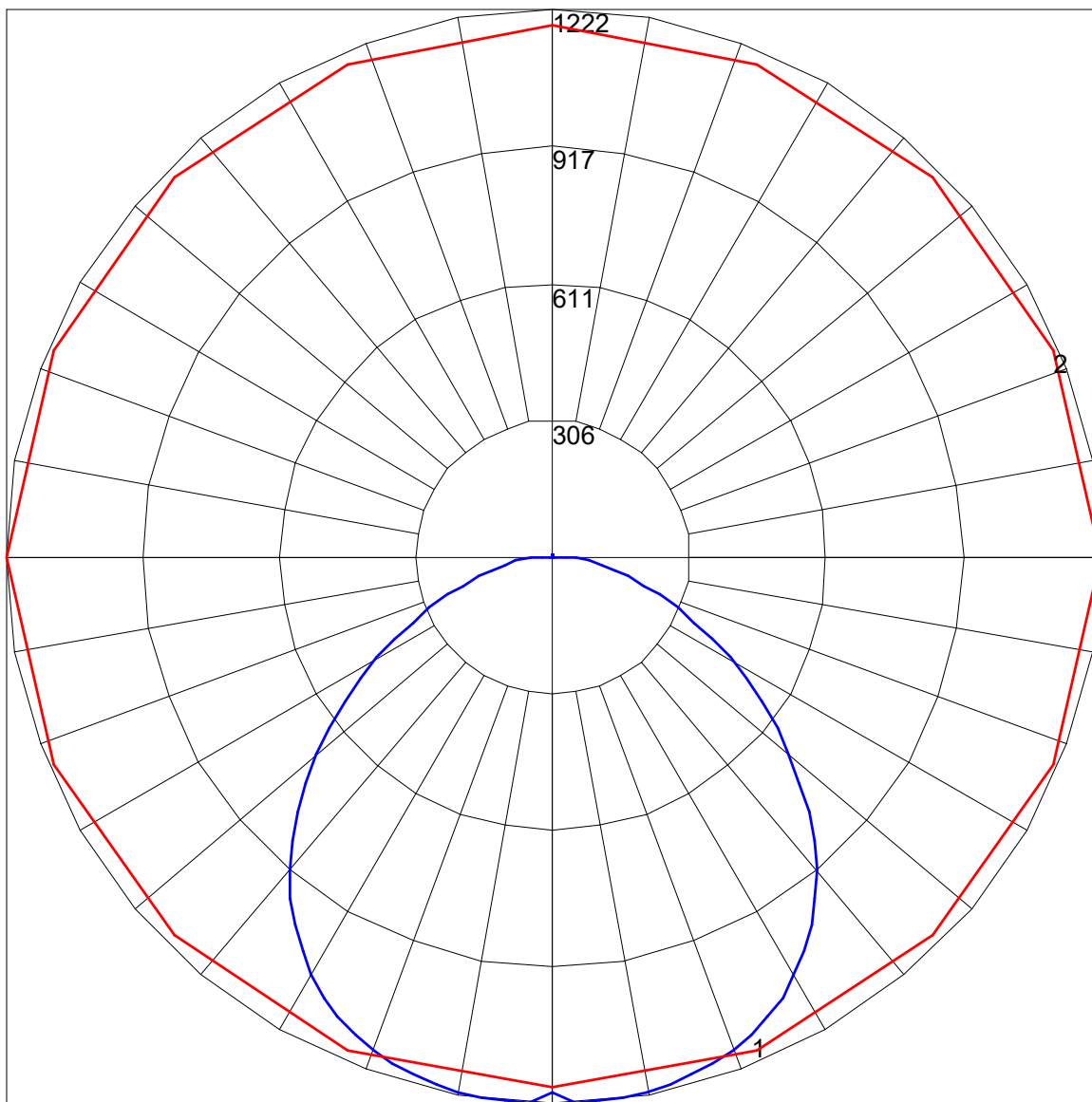
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	87	85	83	80
2	98	90	84	78	95	88	82	77	84	79	74	80	76	72	76	73	70	67
3	90	80	72	65	87	78	70	64	74	68	63	71	66	61	68	63	60	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	53	61	56	52	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	46	40	35	33
8	61	47	39	33	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1222 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)