



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 88RK-4-LED-SS-840-UE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12479

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 02/16/21

[TEST DATE] 02/10/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] 88RK-4-LED-SS-840-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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	23
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
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	3053	2726	2559
55	2633	2265	2093
65	2120	1782	1708
75	1674	1414	1494
85	1215	1143	1473

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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	1129	1129	1129	1129	1129
2.5	1148	1137	1130	1123	1119
5.0	1148	1137	1130	1123	1118
7.5	1147	1136	1128	1121	1116
10.0	1144	1133	1124	1117	1113
12.5	1137	1127	1118	1111	1105
15.0	1130	1119	1110	1101	1096
17.5	1119	1108	1098	1090	1085
20.0	1105	1094	1084	1074	1070
22.5	1088	1078	1067	1056	1050
25.0	1069	1059	1047	1034	1027
27.5	1045	1036	1023	1009	1001
30.0	1018	1009	994	979	970
32.5	986	978	963	944	934
35.0	948	940	924	905	894
37.5	909	900	883	863	850
40.0	864	853	838	817	802
42.5	810	804	787	767	753
45.0	759	753	735	715	701
47.5	706	700	682	661	648
50.0	650	645	627	605	593
52.5	594	590	573	552	539
55.0	538	535	518	500	489
57.5	483	480	465	450	442
60.0	430	425	414	404	398
62.5	375	374	367	361	356
65.0	326	325	322	321	318
67.5	281	282	281	284	284
70.0	239	242	244	251	253
72.5	200	204	210	220	224
75.0	165	171	180	194	199
77.5	134	140	153	170	177
80.0	105	111	128	147	154
82.5	77	84	104	126	133
85.0	49	59	80	104	112
87.5	24	36	58	82	88
90.0	2	16	40	62	68
92.5	0	12	36	56	62
95.0	0	12	35	54	59
97.5	0	12	34	51	56
100.0	0	12	34	49	53
102.5	0	12	33	47	51
105.0	0	12	32	46	49
107.5	0	12	31	44	48
110.0	0	12	30	43	46
112.5	0	12	29	41	45
115.0	0	11	28	40	44
117.5	0	10	27	38	42
120.0	0	10	26	36	40
122.5	0	9	25	35	38
125.0	1	9	24	33	36
127.5	1	8	22	31	34
130.0	1	8	20	29	32
132.5	1	7	18	27	30

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CANDELA TABULATION - (Cont.)

135.0	1	5	17	25	28
137.5	1	4	15	22	25
140.0	1	2	14	20	23
142.5	1	1	12	18	20
145.0	1	1	11	16	18
147.5	1	1	10	14	16
150.0	1	1	8	12	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	421.46	N.A.	13.00
0-30	903.55	N.A.	27.90
0-40	1479.51	N.A.	45.60
0-60	2506.85	N.A.	77.30
0-80	3022.81	N.A.	93.20
0-90	3111.93	N.A.	96.00
10-90	3004.17	N.A.	92.70
20-40	1058.05	N.A.	32.60
20-50	1622.73	N.A.	50.00
40-70	1349.31	N.A.	41.60
60-80	515.96	N.A.	15.90
70-80	193.99	N.A.	6.00
80-90	89.13	N.A.	2.70
90-110	66.28	N.A.	2.00
90-120	91.21	N.A.	2.80
90-130	109.96	N.A.	3.40
90-150	127.81	N.A.	3.90
90-180	130.55	N.A.	4.00
110-180	64.27	N.A.	2.00
0-180	3242.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.77
10-20	313.70
20-30	482.09
30-40	575.96
40-50	564.69
50-60	462.65
60-70	321.97
70-80	193.99
80-90	89.13
90-100	36.00
100-110	30.28
110-120	24.93
120-130	18.75
130-140	11.87
140-150	5.97
150-160	2.28
160-170	0.36
170-180	0.10

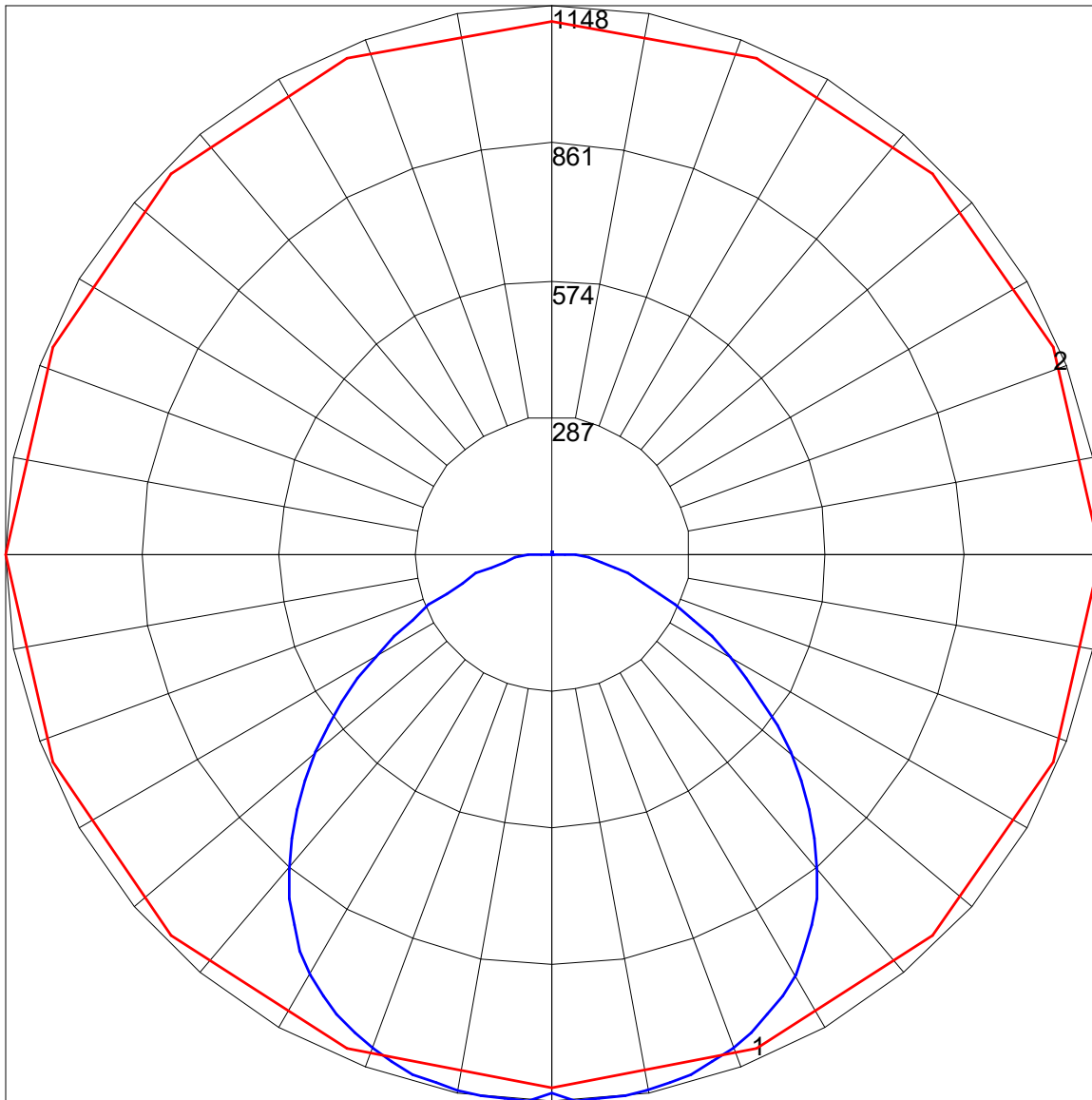
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	51	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	46	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	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1148 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.)