



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 88RK-4-LED-SS-835-UE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12479
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 02/16/21
 [TESTDATE] 02/10/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] 88RK-4-LED-SS-835-UE
 [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] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	3069	2740	2570
55	2643	2274	2106
65	2133	1793	1718
75	1685	1422	1502
85	1240	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	1135	1135	1135	1135	1135
2.5	1154	1143	1136	1129	1124
5.0	1154	1143	1136	1129	1123
7.5	1153	1142	1134	1126	1121
10.0	1150	1139	1130	1122	1118
12.5	1143	1133	1123	1116	1111
15.0	1136	1124	1115	1107	1102
17.5	1124	1113	1104	1096	1091
20.0	1111	1100	1090	1080	1076
22.5	1094	1084	1073	1062	1056
25.0	1075	1065	1053	1039	1032
27.5	1051	1041	1028	1014	1006
30.0	1023	1014	999	984	975
32.5	991	983	968	949	939
35.0	953	945	929	910	899
37.5	914	905	888	867	854
40.0	868	857	842	821	807
42.5	815	809	791	771	757
45.0	763	757	739	719	704
47.5	709	703	685	665	652
50.0	654	649	631	608	596
52.5	597	593	576	555	541
55.0	540	537	520	503	492
57.5	486	483	468	452	444
60.0	432	427	416	406	400
62.5	377	375	369	363	358
65.0	328	327	324	323	320
67.5	282	283	282	285	285
70.0	240	243	245	252	254
72.5	201	205	212	222	225
75.0	166	172	181	195	200
77.5	135	141	154	171	178
80.0	105	111	129	148	155
82.5	77	84	104	127	134
85.0	50	60	80	104	112
87.5	24	36	59	82	88
90.0	2	16	40	63	69
92.5	0	12	36	57	63
95.0	0	12	35	55	60
97.5	0	12	34	52	57
100.0	0	12	34	50	54
102.5	0	12	33	48	52
105.0	0	12	32	47	50
107.5	0	12	31	45	49
110.0	0	12	30	44	47
112.5	0	12	29	41	46
115.0	0	11	28	40	45
117.5	0	10	27	38	43
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	423.61	N.A.	13.00
0-30	908.25	N.A.	27.90
0-40	1487.21	N.A.	45.60
0-60	2519.93	N.A.	77.30
0-80	3038.57	N.A.	93.20
0-90	3128.1	N.A.	96.00
10-90	3019.79	N.A.	92.60
20-40	1063.61	N.A.	32.60
20-50	1631.28	N.A.	50.00
40-70	1356.23	N.A.	41.60
60-80	518.64	N.A.	15.90
70-80	195.13	N.A.	6.00
80-90	89.53	N.A.	2.70
90-110	67.08	N.A.	2.10
90-120	92.16	N.A.	2.80
90-130	110.91	N.A.	3.40
90-150	128.75	N.A.	3.90
90-180	131.49	N.A.	4.00
110-180	64.41	N.A.	2.00
0-180	3259.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.31
10-20	315.29
20-30	484.65
30-40	578.96
40-50	567.67
50-60	465.04
60-70	323.51
70-80	195.13
80-90	89.53
90-100	36.41
100-110	30.68
110-120	25.08
120-130	18.75
130-140	11.87
140-150	5.97
150-160	2.28
160-170	0.36
170-180	0.10

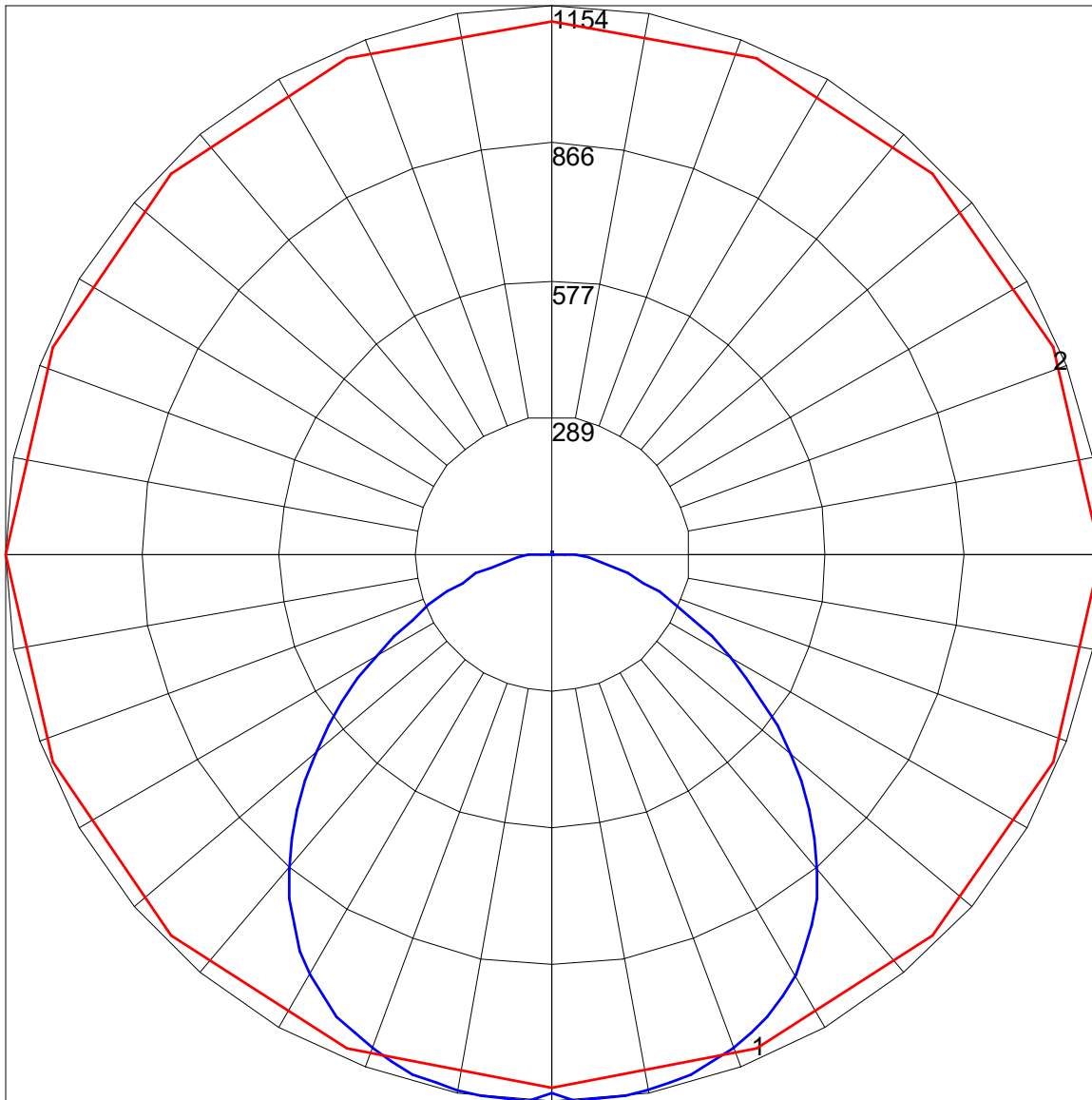
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	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	43	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 = 1154 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.)