



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 88RK-4-LED-HO-835-UE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12481
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 02/16/21
[TEST DATE] 02/10/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] 88RK-4-LED-HO-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	5074
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	35
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	4790	4272	3993
55	4131	3542	3283
65	3323	2789	2669
75	2628	2208	2351
85	1909	1801	2249

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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	1768	1768	1768	1768	1768
2.5	1796	1781	1770	1759	1752
5.0	1797	1782	1770	1759	1752
7.5	1795	1779	1768	1756	1750
10.0	1789	1774	1762	1749	1743
12.5	1781	1766	1751	1739	1734
15.0	1769	1752	1738	1725	1719
17.5	1751	1735	1721	1707	1699
20.0	1731	1715	1700	1684	1675
22.5	1705	1691	1671	1654	1645
25.0	1674	1659	1640	1621	1610
27.5	1634	1621	1601	1580	1568
30.0	1590	1577	1557	1534	1520
32.5	1538	1528	1504	1480	1463
35.0	1481	1469	1446	1419	1400
37.5	1417	1405	1380	1353	1331
40.0	1346	1336	1309	1279	1257
42.5	1272	1261	1233	1199	1175
45.0	1191	1181	1152	1116	1094
47.5	1107	1098	1069	1033	1008
50.0	1019	1012	982	949	925
52.5	932	919	894	864	845
55.0	844	832	810	784	767
57.5	749	745	728	707	692
60.0	666	663	646	635	624
62.5	586	584	573	565	559
65.0	511	511	504	501	497
67.5	440	442	439	443	443
70.0	375	379	382	391	393
72.5	314	319	328	345	351
75.0	259	264	281	305	313
77.5	204	216	239	267	277
80.0	159	172	198	232	243
82.5	117	132	161	195	209
85.0	77	92	126	160	171
87.5	38	57	91	127	137
90.0	4	26	64	99	109
92.5	0	19	56	89	97
95.0	0	19	55	85	92
97.5	0	19	54	81	88
100.0	0	19	53	78	84
102.5	0	19	52	75	80
105.0	0	18	51	72	78
107.5	1	19	49	70	75
110.0	1	19	48	67	73
112.5	1	18	46	65	71
115.0	1	17	44	63	69
117.5	1	16	43	60	66
120.0	1	15	40	58	63
122.5	1	15	39	55	60
125.0	1	14	37	52	57
127.5	1	13	34	49	54
130.0	1	12	31	46	51
132.5	1	10	29	44	48

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CANDELA TABULATION - (Cont.)

135.0	1	9	26	39	44
137.5	1	6	24	35	39
140.0	1	4	21	31	35
142.5	1	2	19	28	31
145.0	1	1	17	25	28
147.5	1	1	15	22	25
150.0	1	1	12	19	22
152.5	1	1	10	17	19
155.0	1	1	5	14	16
157.5	1	1	2	11	13
160.0	1	1	1	6	9
162.5	1	1	1	2	4
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	660.20	N.A.	13.00
0-30	1415.27	N.A.	27.90
0-40	2316.17	N.A.	45.60
0-60	3923.47	N.A.	77.30
0-80	4729.89	N.A.	93.20
0-90	4868.8	N.A.	95.90
10-90	4700.00	N.A.	92.60
20-40	1655.97	N.A.	32.60
20-50	2540.00	N.A.	50.10
40-70	2110.78	N.A.	41.60
60-80	806.43	N.A.	15.90
70-80	302.95	N.A.	6.00
80-90	138.91	N.A.	2.70
90-110	104.76	N.A.	2.10
90-120	144.16	N.A.	2.80
90-130	173.67	N.A.	3.40
90-150	201.55	N.A.	4.00
90-180	205.54	N.A.	4.10
110-180	100.78	N.A.	2.00
0-180	5074.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.80
10-20	491.39
20-30	755.08
30-40	900.89
40-50	884.03
50-60	723.27
60-70	503.48
70-80	302.95
80-90	138.91
90-100	56.90
100-110	47.86
110-120	39.40
120-130	29.50
130-140	18.68
140-150	9.21
150-160	3.46
160-170	0.43
170-180	0.10

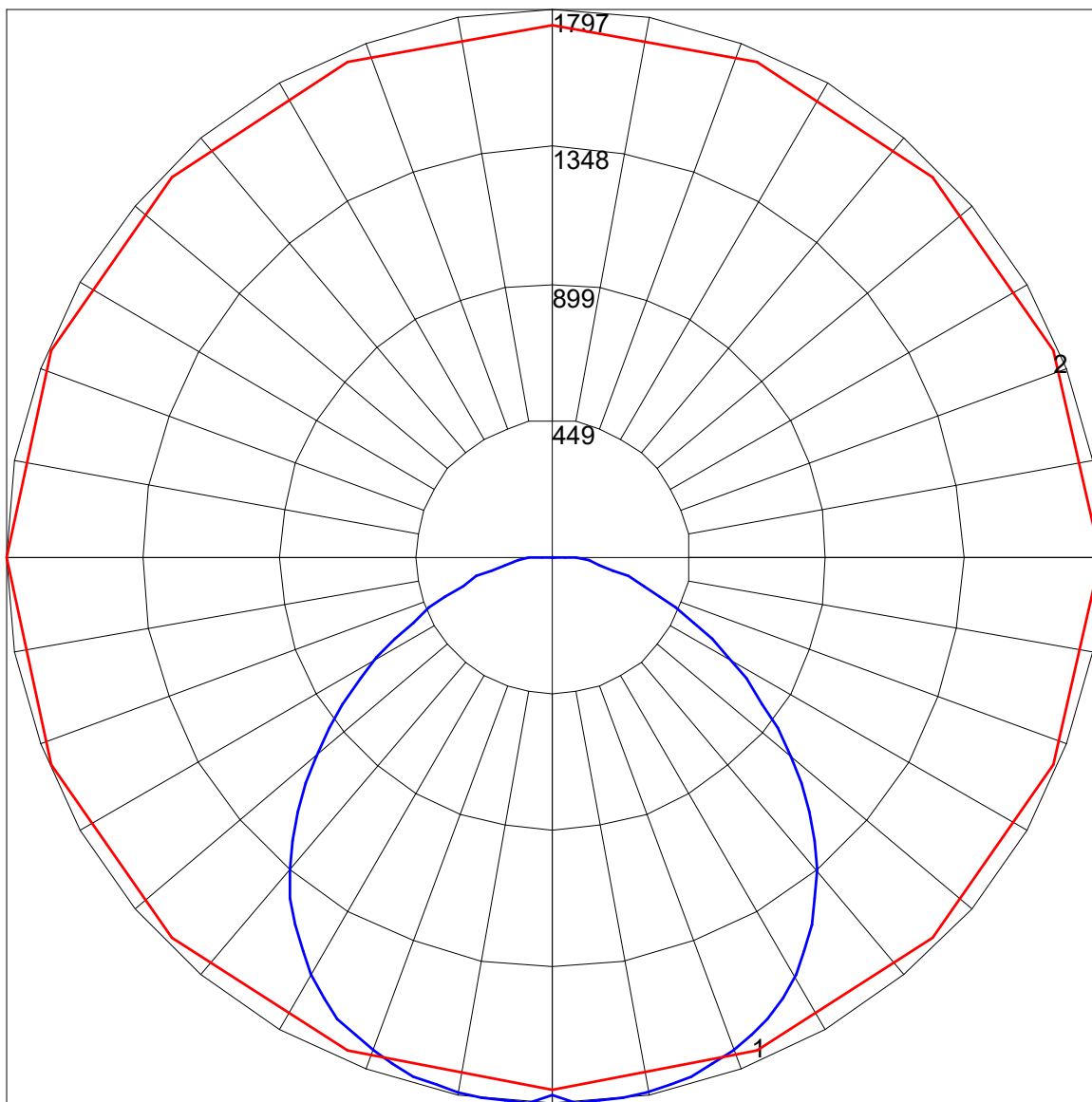
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	40	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1797 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.)