



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 88RK-4-LED-HO-850-UE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12492
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 02/16/21
 [TEST DATE] 02/15/21
 [MANUFACT] LSI INDUSTRIES, INC.
 [LUMCAT] 88RK-4-LED-HO-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	5212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	4927	4387	4110
55	4244	3630	3360
65	3408	2844	2738
75	2699	2255	2381
85	1909	1801	2302

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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	1828	1828	1828	1828	1828
2.5	1861	1842	1830	1819	1810
5.0	1862	1843	1831	1819	1810
7.5	1860	1840	1827	1815	1807
10.0	1853	1834	1821	1808	1800
12.5	1844	1825	1810	1797	1789
15.0	1830	1811	1796	1782	1774
17.5	1812	1794	1777	1762	1753
20.0	1790	1772	1754	1738	1726
22.5	1763	1746	1726	1707	1696
25.0	1730	1714	1692	1671	1658
27.5	1691	1675	1652	1628	1615
30.0	1645	1630	1604	1579	1563
32.5	1590	1578	1550	1522	1505
35.0	1530	1515	1490	1459	1440
37.5	1463	1449	1422	1389	1367
40.0	1387	1375	1346	1314	1291
42.5	1308	1297	1268	1231	1210
45.0	1225	1214	1183	1146	1126
47.5	1137	1128	1096	1060	1032
50.0	1048	1039	1008	971	947
52.5	957	946	917	883	864
55.0	867	857	830	801	785
57.5	774	769	745	721	708
60.0	688	681	662	647	637
62.5	602	598	584	575	571
65.0	524	522	514	511	510
67.5	451	451	448	451	451
70.0	384	386	390	398	400
72.5	322	327	335	350	357
75.0	266	271	287	308	317
77.5	212	222	242	270	282
80.0	162	174	202	233	245
82.5	118	132	163	197	210
85.0	77	93	126	161	175
87.5	38	56	91	126	136
90.0	14	32	66	100	110
92.5	1	20	57	90	99
95.0	1	20	56	86	94
97.5	1	20	55	83	90
100.0	1	20	54	79	86
102.5	1	20	53	76	82
105.0	1	20	51	73	79
107.5	0	19	49	70	76
110.0	1	19	48	68	74
112.5	1	19	46	66	72
115.0	1	18	45	63	69
117.5	1	17	43	61	67
120.0	1	16	41	58	64
122.5	1	15	40	55	61
125.0	1	14	37	52	57
127.5	1	13	35	49	54
130.0	1	12	32	46	51
132.5	1	10	29	43	47

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CANDELA TABULATION - (Cont.)

135.0	1	8	27	40	44
137.5	1	6	24	35	40
140.0	1	5	21	32	36
142.5	1	3	19	28	31
145.0	1	2	17	25	28
147.5	1	2	15	22	25
150.0	1	1	12	20	22
152.5	2	1	9	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	2	1	1	1
170.0	1	2	1	2	1
172.5	1	1	1	1	1
175.0	1	1	2	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	682.25	N.A.	13.10
0-30	1461.49	N.A.	28.00
0-40	2389.49	N.A.	45.80
0-60	4039.39	N.A.	77.50
0-80	4862.36	N.A.	93.30
0-90	5002.53	N.A.	96.00
10-90	4827.98	N.A.	92.60
20-40	1707.24	N.A.	32.80
20-50	2615.39	N.A.	50.20
40-70	2164.21	N.A.	41.50
60-80	822.97	N.A.	15.80
70-80	308.66	N.A.	5.90
80-90	140.17	N.A.	2.70
90-110	107.16	N.A.	2.10
90-120	147.12	N.A.	2.80
90-130	176.87	N.A.	3.40
90-150	205.02	N.A.	3.90
90-180	209.05	N.A.	4.00
110-180	101.89	N.A.	2.00
0-180	5211.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.55
10-20	507.70
20-30	779.25
30-40	928.00
40-50	908.15
50-60	741.75
60-70	514.30
70-80	308.66
80-90	140.17
90-100	58.54
100-110	48.62
110-120	39.96
120-130	29.75
130-140	18.75
140-150	9.40
150-160	3.46
160-170	0.46
170-180	0.11

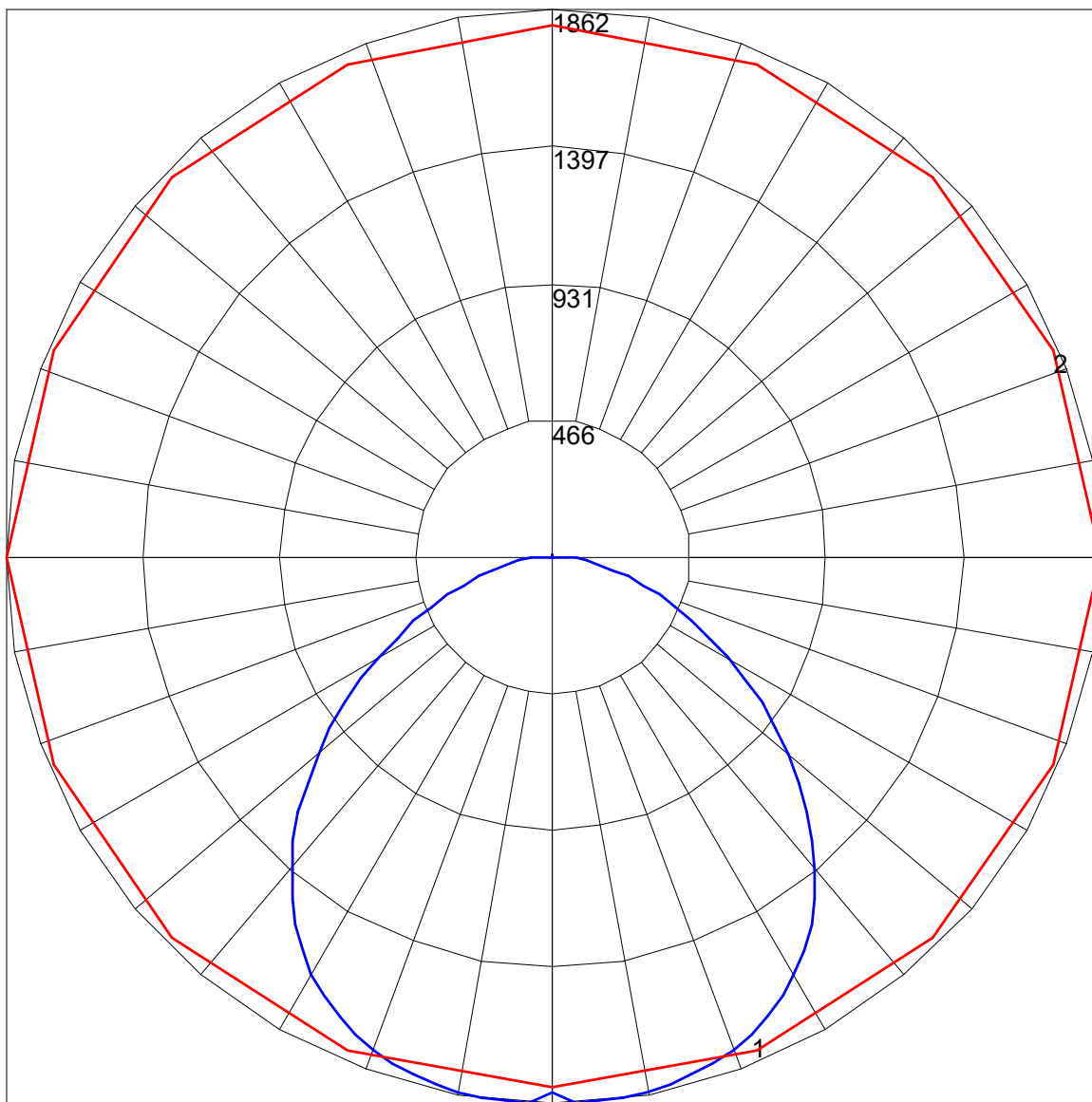
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	68
3	90	80	72	65	87	78	70	64	74	68	63	71	66	61	68	63	60	57
4	83	71	62	56	80	69	61	55	66	59	54	63	58	53	61	56	52	49
5	76	63	55	48	74	62	54	48	60	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	37	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	36	30	55	43	35	30	41	34	30	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	38	32	27	37	31	27	36	30	26	24

POLAR GRAPH



Maximum Candela = 1862 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.)