



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-8-LED-HO-850-UE.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12492  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 02/16/21  
 [TESTDATE] 02/15/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] 88RK-8-LED-HO-850-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] 5000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10422
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	70
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)	8.00 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	5003	4431	4110
55	4336	3679	3360
65	3519	2899	2738
75	2848	2321	2381
85	2198	1903	2302

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	3655	3655	3655	3655	3655
<b>2.5</b>	3721	3683	3659	3637	3619
<b>5.0</b>	3723	3685	3661	3637	3619
<b>7.5</b>	3719	3679	3653	3629	3613
<b>10.0</b>	3705	3667	3641	3615	3599
<b>12.5</b>	3687	3649	3619	3593	3577
<b>15.0</b>	3659	3621	3591	3563	3547
<b>17.5</b>	3623	3587	3553	3523	3505
<b>20.0</b>	3579	3543	3507	3475	3451
<b>22.5</b>	3525	3491	3451	3413	3391
<b>25.0</b>	3459	3427	3383	3341	3315
<b>27.5</b>	3381	3349	3303	3255	3229
<b>30.0</b>	3289	3259	3207	3157	3125
<b>32.5</b>	3179	3155	3099	3043	3009
<b>35.0</b>	3059	3029	2979	2917	2879
<b>37.5</b>	2925	2897	2843	2777	2733
<b>40.0</b>	2773	2749	2691	2627	2582
<b>42.5</b>	2615	2594	2536	2462	2420
<b>45.0</b>	2450	2428	2366	2292	2252
<b>47.5</b>	2274	2256	2192	2120	2064
<b>50.0</b>	2096	2078	2016	1942	1894
<b>52.5</b>	1914	1892	1834	1766	1728
<b>55.0</b>	1734	1714	1660	1602	1570
<b>57.5</b>	1548	1538	1490	1442	1416
<b>60.0</b>	1376	1362	1324	1294	1274
<b>62.5</b>	1204	1196	1168	1150	1142
<b>65.0</b>	1048	1044	1028	1022	1020
<b>67.5</b>	902	902	896	902	902
<b>70.0</b>	768	772	780	796	800
<b>72.5</b>	644	654	670	700	714
<b>75.0</b>	532	542	574	616	634
<b>77.5</b>	424	444	484	540	564
<b>80.0</b>	324	348	404	466	490
<b>82.5</b>	236	264	326	394	420
<b>85.0</b>	154	186	252	322	350
<b>87.5</b>	76	112	182	252	272
<b>90.0</b>	28	64	132	200	220
<b>92.5</b>	2	40	114	180	198
<b>95.0</b>	2	40	112	172	188
<b>97.5</b>	2	40	110	166	180
<b>100.0</b>	2	40	108	158	172
<b>102.5</b>	2	40	106	152	164
<b>105.0</b>	2	40	102	146	158
<b>107.5</b>	0	38	98	140	152
<b>110.0</b>	2	38	96	136	148
<b>112.5</b>	2	38	92	132	144
<b>115.0</b>	2	36	90	126	138
<b>117.5</b>	2	34	86	122	134
<b>120.0</b>	2	32	82	116	128
<b>122.5</b>	2	30	80	110	122
<b>125.0</b>	2	28	74	104	114
<b>127.5</b>	2	26	70	98	108
<b>130.0</b>	2	24	64	92	102
<b>132.5</b>	2	20	58	86	94

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CANDELA TABULATION - (Cont.)

135.0	2	16	54	80	88
137.5	2	12	48	70	80
140.0	2	10	42	64	72
142.5	2	6	38	56	62
145.0	2	4	34	50	56
147.5	2	4	30	44	50
150.0	2	2	24	40	44
152.5	4	2	18	34	38
155.0	2	2	10	28	32
157.5	2	2	4	22	26
160.0	2	2	2	12	18
162.5	2	2	2	4	8
165.0	2	2	2	2	2
167.5	2	4	2	2	2
170.0	2	4	2	4	2
172.5	2	2	2	2	2
175.0	2	2	4	2	2
177.5	2	2	2	2	2
180.0	2	2	2	2	2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1364.12	N.A.	13.10
0-30	2922.15	N.A.	28.00
0-40	4777.52	N.A.	45.80
0-60	8077.22	N.A.	77.50
0-80	9723.16	N.A.	93.30
0-90	10003.49	N.A.	96.00
10-90	9654.48	N.A.	92.60
20-40	3413.4	N.A.	32.80
20-50	5229.6	N.A.	50.20
40-70	4328.31	N.A.	41.50
60-80	1645.94	N.A.	15.80
70-80	617.33	N.A.	5.90
80-90	280.34	N.A.	2.70
90-110	214.33	N.A.	2.10
90-120	294.25	N.A.	2.80
90-130	353.74	N.A.	3.40
90-150	410.04	N.A.	3.90
90-180	418.10	N.A.	4.00
110-180	203.78	N.A.	2.00
0-180	10421.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	349.01
10-20	1015.11
20-30	1558.03
30-40	1855.37
40-50	1816.2
50-60	1483.5
60-70	1028.61
70-80	617.33
80-90	280.34
90-100	117.08
100-110	97.25
110-120	79.92
120-130	59.49
130-140	37.51
140-150	18.80
150-160	6.91
160-170	0.92
170-180	0.22

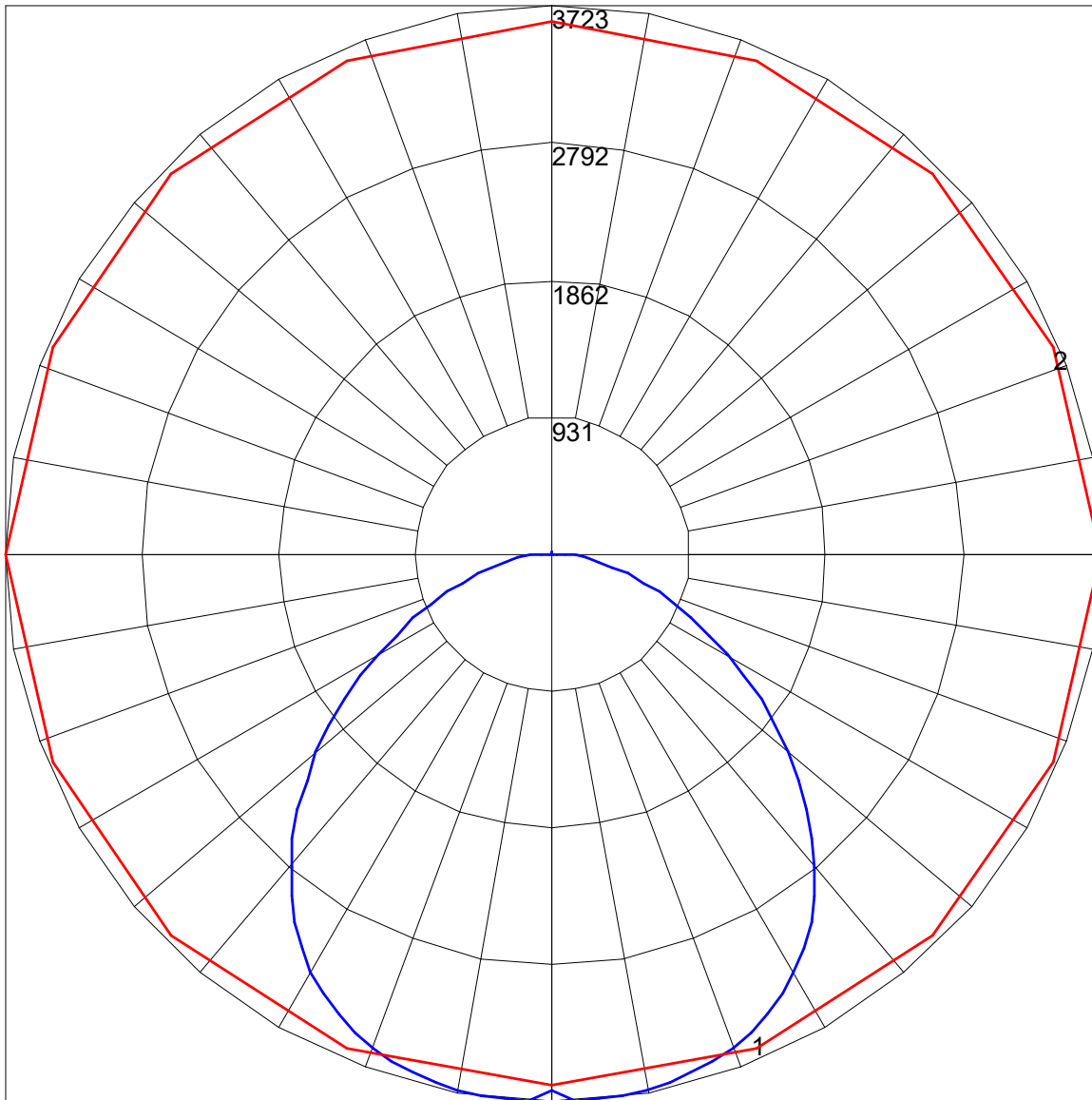
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 3723 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.)