



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-4-LED-HO-840-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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] 88RK-4-LED-HO-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	5013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	4730	4220	3946
55	4082	3498	3244
65	3284	2756	2636
75	2598	2184	2321
85	1884	1772	2223

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-4-LED-HO-840-UE.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1746	1746	1746	1746	1746
2.5	1774	1759	1748	1738	1731
5.0	1775	1760	1748	1738	1731
7.5	1773	1757	1746	1735	1729
10.0	1767	1752	1740	1728	1722
12.5	1759	1744	1730	1718	1713
15.0	1747	1731	1717	1704	1698
17.5	1730	1714	1700	1686	1678
20.0	1710	1694	1679	1663	1655
22.5	1684	1670	1651	1634	1625
25.0	1654	1639	1620	1601	1590
27.5	1614	1601	1581	1561	1549
30.0	1571	1558	1538	1515	1501
32.5	1519	1509	1486	1462	1445
35.0	1463	1451	1428	1402	1383
37.5	1400	1388	1363	1336	1315
40.0	1330	1320	1293	1263	1242
42.5	1256	1246	1218	1184	1161
45.0	1176	1167	1138	1102	1081
47.5	1093	1085	1056	1020	996
50.0	1007	1000	970	937	914
52.5	921	908	883	853	835
55.0	834	822	800	774	758
57.5	740	736	719	698	684
60.0	658	655	638	627	616
62.5	579	577	566	558	552
65.0	505	505	498	495	491
67.5	435	437	434	438	438
70.0	370	374	377	386	388
72.5	310	315	324	341	347
75.0	256	261	278	301	309
77.5	202	213	236	264	274
80.0	157	170	196	229	240
82.5	116	130	159	193	206
85.0	76	91	124	158	169
87.5	38	56	90	125	135
90.0	4	26	63	98	108
92.5	0	19	55	88	96
95.0	0	19	54	84	91
97.5	0	19	53	80	87
100.0	0	19	52	77	83
102.5	0	19	51	74	79
105.0	0	18	50	71	77
107.5	1	19	48	69	74
110.0	1	19	47	66	72
112.5	1	18	45	64	70
115.0	1	17	43	62	68
117.5	1	16	42	59	65
120.0	1	15	40	57	62
122.5	1	15	39	54	59
125.0	1	14	37	51	56
127.5	1	13	34	48	53
130.0	1	12	31	45	50
132.5	1	10	29	43	47

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 88RK-4-LED-HO-840-UE.IES

CANDELA TABULATION - (Cont.)

135.0	1	9	26	39	43
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-4-LED-HO-840-UE.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	652.14	N.A.	13.00
0-30	1397.98	N.A.	27.90
0-40	2287.87	N.A.	45.60
0-60	3875.56	N.A.	77.30
0-80	4672.25	N.A.	93.20
0-90	4809.42	N.A.	95.90
10-90	4642.68	N.A.	92.60
20-40	1635.74	N.A.	32.60
20-50	2509.00	N.A.	50.10
40-70	2085.11	N.A.	41.60
60-80	796.69	N.A.	15.90
70-80	299.27	N.A.	6.00
80-90	137.17	N.A.	2.70
90-110	103.42	N.A.	2.10
90-120	142.23	N.A.	2.80
90-130	171.40	N.A.	3.40
90-150	199.14	N.A.	4.00
90-180	203.13	N.A.	4.10
110-180	99.71	N.A.	2.00
0-180	5012.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	166.74
10-20	485.40
20-30	745.85
30-40	889.89
40-50	873.26
50-60	714.43
60-70	497.42
70-80	299.27
80-90	137.17
90-100	56.22
100-110	47.20
110-120	38.81
120-130	29.17
130-140	18.54
140-150	9.21
150-160	3.46
160-170	0.43
170-180	0.10

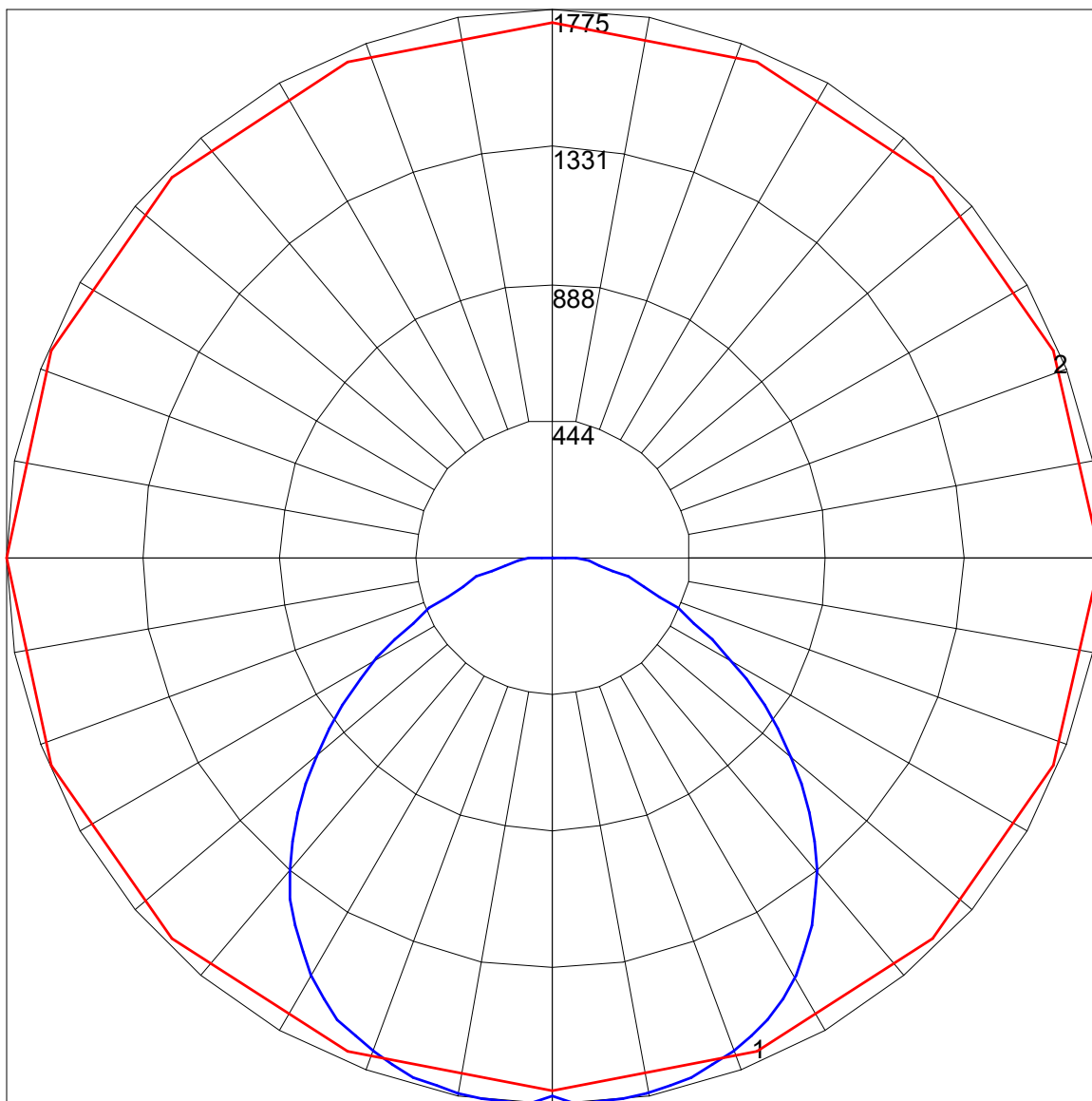
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-4-LED-HO-840-UE.IES**

**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	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	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 = 1775 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.)