



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AST-08-08L-850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] RKS200302004-10
[TESTLAB] BACL
[ISSUE DATE] 12/29/2021
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] AST-08-08L-850
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM PRELIMINARY 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	9246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	68
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.84 ft
Luminous Width (90-270)	0.28 ft
Luminous Height	0.29 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10021	6363	6047
55	9232	5387	5281
65	8087	4501	4606
75	6137	3686	4015
85	2568	3040	3538

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	2435	2435	2435	2435	2435	2435	2435	2435	2435	2435
5	2423	2420	2415	2418	2415	2415	2417	2420	2418	2426
10	2384	2377	2373	2380	2380	2379	2376	2379	2377	2393
15	2316	2312	2311	2324	2329	2327	2313	2312	2309	2333
20	2226	2224	2230	2255	2267	2261	2235	2225	2215	2253
25	2114	2112	2131	2171	2189	2176	2135	2119	2099	2149
30	1983	1988	2018	2072	2102	2082	2023	1991	1966	2028
35	1833	1841	1894	1963	2002	1975	1898	1848	1820	1892
40	1674	1689	1757	1844	1895	1859	1762	1693	1658	1740
45	1500	1524	1615	1721	1777	1735	1624	1530	1487	1580
50	1323	1358	1466	1596	1659	1606	1479	1363	1306	1415
55	1138	1185	1314	1463	1533	1474	1332	1192	1121	1244
60	945	1010	1164	1330	1407	1341	1182	1019	933	1071
65	753	838	1020	1198	1280	1210	1038	846	740	897
70	556	670	880	1071	1154	1081	901	686	547	726
75	369	519	746	944	1032	956	769	534	363	570
80	200	383	629	826	917	835	647	399	196	430
85	65	268	523	717	808	724	537	283	65	308
90	0	185	432	619	705	623	443	196	0	218
95	0	129	358	533	610	536	365	137	0	157
100	0	93	294	457	526	457	299	98	0	116
105	0	68	240	390	447	387	245	72	0	89
110	1	52	195	327	378	326	199	54	0	69
115	3	41	158	271	315	271	160	43	2	57
120	5	34	127	222	261	222	129	35	5	50
125	7	29	102	180	214	181	103	30	7	43
130	9	26	82	146	172	146	84	27	7	38
135	11	25	68	117	136	115	67	24	9	35
140	11	23	57	93	107	89	52	21	9	31
145	12	23	48	75	83	69	42	20	11	27
150	14	25	43	60	64	53	31	18	11	26
155	16	24	38	46	49	39	25	19	14	26
160	18	23	32	37	38	28	20	19	17	24
165	19	23	27	29	30	21	20	19	18	22
170	21	23	25	25	21	21	21	22	20	20
175	23	23	22	23	21	24	24	25	23	24
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2435	2435	2435	2435	2435	2435	2435
5	2432	2438	2440	2437	2431	2426	2423
10	2407	2425	2431	2421	2406	2391	2384
15	2363	2390	2405	2390	2359	2334	2316
20	2296	2342	2365	2340	2292	2253	2226
25	2214	2275	2307	2276	2207	2149	2114
30	2110	2197	2236	2196	2106	2027	1983
35	1995	2101	2154	2104	1988	1890	1833
40	1865	1995	2055	1998	1860	1737	1674
45	1728	1884	1955	1884	1726	1579	1500
50	1585	1762	1838	1763	1585	1408	1323
55	1437	1630	1714	1637	1441	1235	1138
60	1286	1495	1593	1506	1293	1063	945

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CANDELA TABULATION - (Cont.)

65	1138	1360	1466	1372	1149	892	753
70	994	1229	1335	1235	1007	725	556
75	858	1100	1209	1102	872	570	369
80	729	972	1085	977	743	434	200
85	615	853	966	861	627	316	65
90	514	744	853	753	528	230	0
95	430	647	748	657	444	170	0
100	361	560	649	569	374	129	0
105	300	483	560	491	313	101	0
110	250	413	479	419	262	80	1
115	205	347	406	354	218	67	3
120	170	291	341	297	181	58	5
125	140	242	285	247	150	50	7
130	116	199	234	205	125	45	9
135	96	162	192	167	104	41	11
140	79	130	155	134	87	37	11
145	67	105	123	109	73	35	12
150	52	83	96	85	60	34	14
155	41	66	75	68	51	32	16
160	35	50	58	53	43	30	18
165	29	36	45	42	36	29	19
170	27	27	36	35	31	26	21
175	22	20	30	27	24	25	23
180	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	890.74	N.A.	9.60
0-30	1894.25	N.A.	20.50
0-40	3114.81	N.A.	33.70
0-60	5646.83	N.A.	61.10
0-80	7542.18	N.A.	81.60
0-90	8130.4	N.A.	87.90
10-90	7899.99	N.A.	85.40
20-40	2224.08	N.A.	24.10
20-50	3519.96	N.A.	38.10
40-70	3598.00	N.A.	38.90
60-80	1895.35	N.A.	20.50
70-80	829.36	N.A.	9.00
80-90	588.22	N.A.	6.40
90-110	685.96	N.A.	7.40
90-120	868.82	N.A.	9.40
90-130	982.82	N.A.	10.60
90-150	1086.51	N.A.	11.80
90-180	1115.18	N.A.	12.10
110-180	429.22	N.A.	4.60
0-180	9245.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.41
10-20	660.33
20-30	1003.51
30-40	1220.57
40-50	1295.88
50-60	1236.13
60-70	1065.98
70-80	829.36
80-90	588.22
90-100	407.02
100-110	278.95
110-120	182.86
120-130	114.00
130-140	67.01
140-150	36.68
150-160	18.51
160-170	8.13
170-180	2.03

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	104	98	93	88	100	94	90	86	88	84	81	82	79	76	76	74	72	69
2	93	84	77	70	90	81	74	68	76	70	65	70	66	62	66	62	58	56
3	85	73	64	57	81	71	63	56	66	59	54	62	56	51	57	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	41	39
5	71	57	48	41	68	56	47	40	52	45	39	49	42	37	46	40	36	33
6	65	52	42	36	63	50	41	35	47	39	34	44	37	32	41	36	31	29
7	60	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25
8	56	42	34	28	54	41	33	27	39	32	26	37	30	26	35	29	25	23
9	52	39	30	25	50	38	30	24	36	29	24	34	27	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.3	16.8	15.8	17.3	17.9	18.7	20.2	19.2	20.7	21.3
	3H	16.6	17.9	17.1	18.5	19.1	21.4	22.7	21.9	23.3	23.9
	4H	17.0	18.3	17.6	18.8	19.5	22.7	24.0	23.3	24.6	25.2
	6H	17.2	18.4	17.8	19.0	19.6	24.2	25.3	24.7	25.9	26.6
	8H	17.2	18.4	17.8	19.0	19.6	24.9	26.0	25.5	26.6	27.3
	12H	17.2	18.3	17.8	18.9	19.6	25.7	26.8	26.3	27.4	28.1

UGR Viewed Endwise

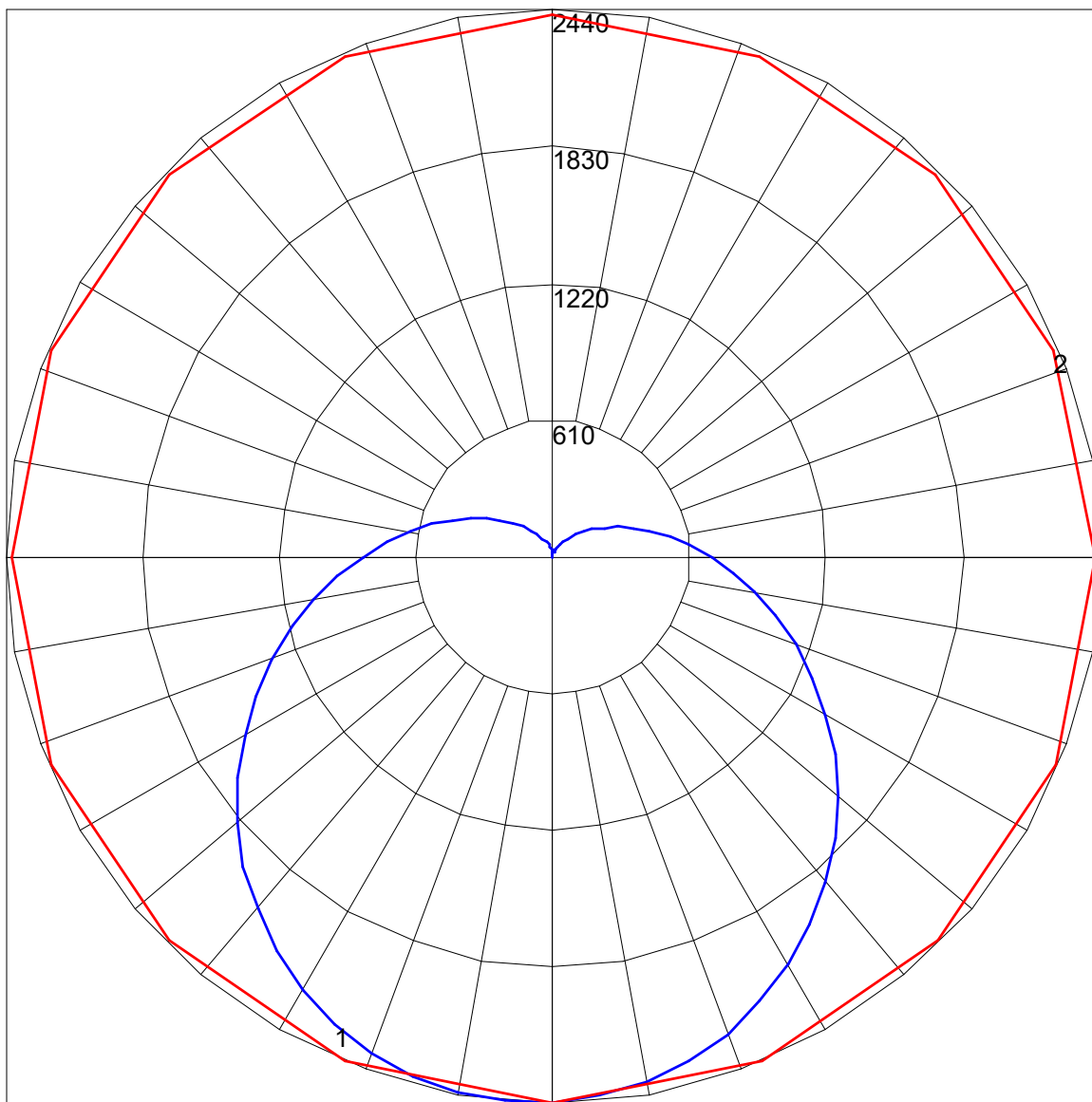
4H	2H	16.4	17.6	17.0	18.2	18.9	19.0	20.2	19.6	20.8	21.5
	3H	17.9	19.0	18.5	19.6	20.3	21.8	22.9	22.4	23.5	24.2
	4H	18.4	19.4	19.0	20.0	20.7	23.3	24.3	23.9	24.9	25.6
	6H	18.8	19.6	19.4	20.3	21.0	24.9	25.8	25.5	26.4	27.2
	8H	18.8	19.7	19.5	20.3	21.0	25.8	26.6	26.4	27.2	28.0
	12H	18.9	19.6	19.5	20.3	21.0	26.7	27.5	27.4	28.1	28.9

8H	4H	19.3	20.2	20.0	20.8	21.5	23.4	24.3	24.1	24.9	25.6
	6H	19.9	20.6	20.5	21.2	22.0	25.2	25.9	25.8	26.6	27.3
	8H	20.0	20.7	20.7	21.3	22.1	26.1	26.8	26.8	27.5	28.2
	12H	20.1	20.7	20.8	21.4	22.2	27.2	27.8	27.9	28.5	29.3

12H	4H	19.6	20.4	20.3	21.0	21.8	23.4	24.2	24.1	24.9	25.6
	6H	20.3	20.9	20.9	21.6	22.3	25.2	25.8	25.9	26.5	27.3
	8H	20.5	21.1	21.2	21.8	22.6	26.2	26.8	26.9	27.5	28.3

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 2440 Located At Horizontal Angle = 270, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)