



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AST-08-08L-835.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-835
[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] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	68
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.32
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	10001	6418	6146
55	9183	5453	5374
65	8022	4545	4703
75	6087	3755	4116
85	2489	3098	3638

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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	2432	2432	2432	2432	2432	2432	2432	2432	2432	2432
5	2419	2418	2415	2417	2417	2420	2417	2420	2417	2422
10	2381	2378	2379	2384	2386	2387	2381	2380	2375	2387
15	2313	2313	2319	2332	2340	2338	2322	2319	2305	2327
20	2222	2225	2239	2266	2281	2273	2244	2235	2212	2244
25	2109	2117	2141	2185	2207	2194	2150	2124	2098	2139
30	1976	1989	2031	2089	2122	2100	2037	1998	1966	2017
35	1832	1846	1906	1981	2026	1996	1915	1855	1819	1877
40	1667	1690	1769	1866	1919	1881	1780	1704	1656	1722
45	1497	1531	1629	1740	1806	1760	1648	1543	1483	1563
50	1316	1364	1479	1615	1686	1636	1498	1374	1306	1399
55	1132	1190	1330	1483	1560	1505	1352	1203	1122	1227
60	940	1013	1179	1350	1433	1369	1206	1031	934	1053
65	747	841	1030	1220	1307	1238	1060	862	742	879
70	551	675	892	1088	1182	1109	923	698	549	709
75	366	520	760	961	1058	984	790	546	364	551
80	198	384	640	841	942	859	669	411	199	411
85	63	268	533	732	831	746	557	295	66	292
90	0	184	439	633	727	644	459	205	0	201
95	0	128	363	546	631	553	379	146	0	143
100	0	92	299	470	543	474	312	106	0	107
105	0	69	245	400	464	403	257	77	0	80
110	0	53	201	337	392	341	210	58	0	63
115	2	42	162	280	328	284	170	47	1	52
120	4	36	132	232	273	235	138	38	4	45
125	7	31	106	191	225	192	111	33	6	38
130	9	28	85	153	181	155	90	28	7	34
135	10	26	71	123	145	123	73	26	9	31
140	12	25	60	99	115	96	57	24	10	28
145	12	26	52	79	89	75	46	21	10	25
150	14	26	45	63	68	57	34	20	12	24
155	17	26	39	51	54	43	27	18	14	23
160	20	25	33	39	42	30	22	20	16	22
165	21	23	29	31	32	23	21	20	18	20
170	21	23	24	24	21	22	22	22	21	21
175	23	24	22	24	21	24	25	25	23	23
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	2432	2432	2432	2432	2432	2432	2432
5	2426	2431	2433	2430	2426	2424	2419
10	2401	2410	2419	2412	2397	2387	2381
15	2352	2374	2390	2375	2348	2325	2313
20	2282	2321	2342	2322	2278	2243	2222
25	2197	2250	2282	2255	2189	2138	2109
30	2088	2166	2208	2171	2084	2014	1976
35	1969	2069	2122	2074	1966	1874	1832
40	1837	1959	2023	1966	1837	1723	1667
45	1697	1843	1914	1850	1700	1559	1497
50	1554	1720	1798	1725	1558	1392	1316
55	1405	1587	1678	1598	1411	1219	1132
60	1252	1451	1552	1464	1265	1048	940

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CANDELA TABULATION - (Cont.)

65	1106	1317	1422	1330	1122	877	747
70	962	1183	1292	1196	980	711	551
75	826	1054	1166	1064	847	559	366
80	699	931	1043	939	719	423	198
85	584	813	926	827	604	307	63
90	487	707	817	721	508	222	0
95	406	613	712	627	426	165	0
100	339	529	617	543	358	125	0
105	282	454	531	467	298	96	0
110	232	387	453	399	250	77	0
115	191	326	383	335	207	63	2
120	156	272	321	282	171	54	4
125	129	226	266	233	142	47	7
130	106	185	220	192	117	42	9
135	86	150	178	156	99	38	10
140	72	121	144	125	81	35	12
145	60	95	113	101	67	33	12
150	47	76	89	81	56	30	14
155	37	59	70	63	46	29	17
160	32	46	53	50	40	29	20
165	27	34	41	40	34	26	21
170	24	26	33	33	29	24	21
175	23	20	27	26	24	25	23
180	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	889.81	N.A.	9.70
0-30	1891.75	N.A.	20.60
0-40	3109.44	N.A.	33.80
0-60	5632.13	N.A.	61.20
0-80	7515.08	N.A.	81.70
0-90	8097.04	N.A.	88.00
10-90	7866.87	N.A.	85.50
20-40	2219.63	N.A.	24.10
20-50	3511.32	N.A.	38.20
40-70	3582.64	N.A.	39.00
60-80	1882.95	N.A.	20.50
70-80	823.00	N.A.	8.90
80-90	581.97	N.A.	6.30
90-110	676.40	N.A.	7.40
90-120	856.52	N.A.	9.30
90-130	968.87	N.A.	10.50
90-150	1070.87	N.A.	11.60
90-180	1099.07	N.A.	12.00
110-180	422.67	N.A.	4.60
0-180	9196.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.18
10-20	659.63
20-30	1001.94
30-40	1217.69
40-50	1291.69
50-60	1231.00
60-70	1059.95
70-80	823.00
80-90	581.97
90-100	401.51
100-110	274.89
110-120	180.12
120-130	112.35
130-140	65.91
140-150	36.09
150-160	18.18
160-170	8.02
170-180	2.00

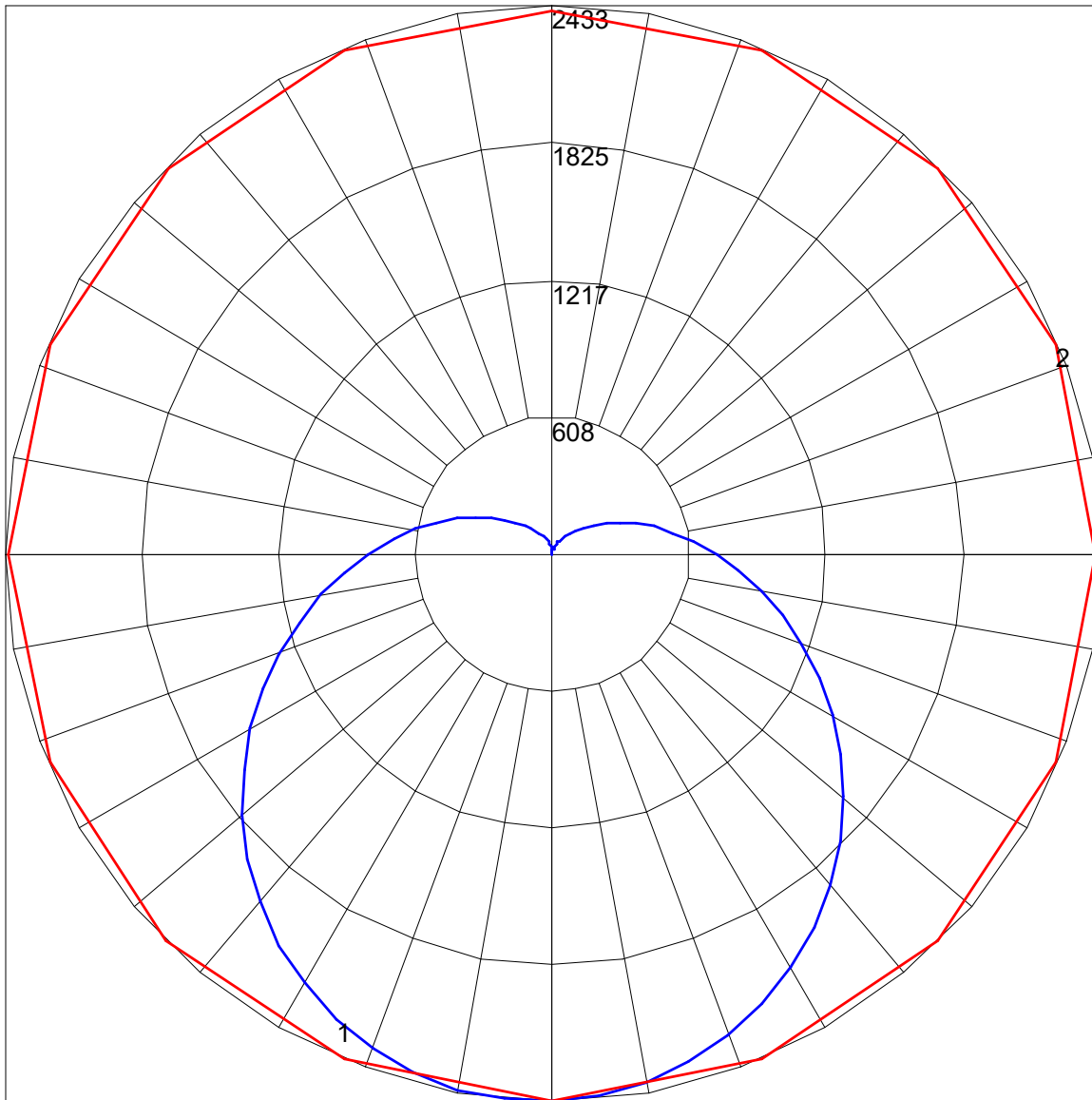
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	66	62	66	62	59	56
3	85	73	65	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46
4	77	65	55	48	74	62	54	47	58	51	45	55	48	43	51	46	42	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	38	33	41	36	31	29
7	61	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	53	39	31	25	50	38	30	24	36	29	24	34	28	23	32	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 2433 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.)