



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AST-08-08L-840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] RKS200302004-10
[TESTLAB] BACL
[ISSUEDATE] 12/29/2021
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] AST-08-08L-840
[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9268
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)	1.32
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	10075	6485	6184
55	9264	5485	5419
65	8065	4603	4736
75	6154	3790	4155
85	2489	3121	3669

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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	2449	2449	2449	2449	2449	2449	2449	2449	2449	2449
5	2438	2434	2434	2433	2434	2434	2434	2436	2435	2439
10	2397	2394	2396	2401	2404	2404	2396	2398	2391	2403
15	2331	2329	2335	2348	2357	2353	2336	2334	2321	2344
20	2240	2240	2256	2281	2297	2290	2259	2248	2227	2258
25	2123	2132	2160	2200	2225	2208	2161	2136	2109	2155
30	1991	2003	2047	2104	2138	2114	2050	2010	1976	2030
35	1843	1858	1921	1996	2040	2008	1927	1869	1830	1889
40	1679	1701	1784	1877	1933	1894	1791	1715	1667	1736
45	1508	1539	1646	1755	1817	1773	1652	1550	1495	1573
50	1328	1371	1489	1626	1702	1645	1508	1383	1316	1407
55	1142	1198	1338	1494	1573	1511	1361	1211	1127	1235
60	949	1021	1188	1360	1445	1378	1212	1037	937	1060
65	751	845	1043	1229	1316	1247	1067	864	745	885
70	558	678	898	1100	1190	1116	925	702	554	714
75	370	525	767	969	1068	990	792	550	369	557
80	198	388	645	850	950	867	671	410	198	415
85	63	272	537	741	838	753	559	293	67	296
90	0	187	444	639	733	649	461	206	0	206
95	0	130	368	553	636	557	381	146	0	148
100	0	94	302	475	548	479	315	106	0	107
105	0	70	249	404	468	406	257	77	0	81
110	1	54	204	340	396	343	211	60	0	64
115	3	44	165	284	331	286	171	47	2	53
120	5	37	134	235	276	238	139	39	4	45
125	8	32	109	191	226	193	112	34	6	38
130	8	28	89	156	183	156	91	29	7	34
135	11	26	73	125	146	125	74	26	9	32
140	12	26	62	101	116	98	58	24	10	28
145	13	26	53	79	90	75	47	22	11	25
150	15	27	46	65	69	56	34	19	13	24
155	17	26	40	52	54	44	27	18	14	23
160	19	25	35	41	41	30	22	19	17	23
165	20	23	30	32	30	22	20	20	18	20
170	21	24	24	25	21	21	22	22	20	22
175	22	24	22	23	21	23	25	26	22	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	2449	2449	2449	2449	2449	2449	2449
5	2445	2447	2451	2448	2443	2439	2438
10	2417	2429	2436	2428	2415	2403	2397
15	2368	2393	2406	2392	2364	2342	2331
20	2298	2339	2361	2340	2293	2257	2240
25	2210	2269	2298	2270	2205	2152	2123
30	2103	2187	2223	2187	2099	2026	1991
35	1985	2086	2137	2090	1979	1887	1843
40	1855	1976	2038	1981	1849	1734	1679
45	1713	1857	1927	1863	1711	1573	1508
50	1568	1732	1810	1737	1570	1403	1328
55	1418	1601	1691	1609	1423	1227	1142
60	1268	1465	1561	1477	1274	1052	949

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CANDELA TABULATION - (Cont.)

65	1119	1328	1433	1343	1133	882	751
70	971	1197	1303	1207	985	717	558
75	833	1067	1173	1073	852	563	370
80	708	940	1051	949	726	424	198
85	593	824	933	833	611	308	63
90	494	715	823	729	512	224	0
95	413	621	719	635	430	166	0
100	344	536	625	548	361	126	0
105	286	462	537	472	301	97	0
110	236	393	458	402	252	77	1
115	194	330	388	339	209	65	3
120	159	275	325	283	172	53	5
125	131	228	270	236	143	46	8
130	108	187	222	194	119	41	8
135	89	153	181	158	98	38	11
140	73	122	146	127	81	35	12
145	60	97	115	101	67	34	13
150	49	77	89	79	57	31	15
155	38	60	70	64	47	30	17
160	33	47	55	51	41	30	19
165	28	34	42	41	35	27	20
170	25	26	34	34	30	25	21
175	24	20	28	26	25	25	22
180	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	896.04	N.A.	9.70
0-30	1904.93	N.A.	20.60
0-40	3131.23	N.A.	33.80
0-60	5672.01	N.A.	61.20
0-80	7569.62	N.A.	81.70
0-90	8156.77	N.A.	88.00
10-90	7924.98	N.A.	85.50
20-40	2235.19	N.A.	24.10
20-50	3536.11	N.A.	38.20
40-70	3608.77	N.A.	38.90
60-80	1897.61	N.A.	20.50
70-80	829.62	N.A.	9.00
80-90	587.15	N.A.	6.30
90-110	683.61	N.A.	7.40
90-120	865.91	N.A.	9.30
90-130	979.46	N.A.	10.60
90-150	1082.82	N.A.	11.70
90-180	1111.37	N.A.	12.00
110-180	427.76	N.A.	4.60
0-180	9268.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.79
10-20	664.25
20-30	1008.89
30-40	1226.3
40-50	1300.92
50-60	1239.86
60-70	1067.99
70-80	829.62
80-90	587.15
90-100	405.77
100-110	277.84
110-120	182.30
120-130	113.55
130-140	66.82
140-150	36.53
150-160	18.43
160-170	8.11
170-180	2.02

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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	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	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

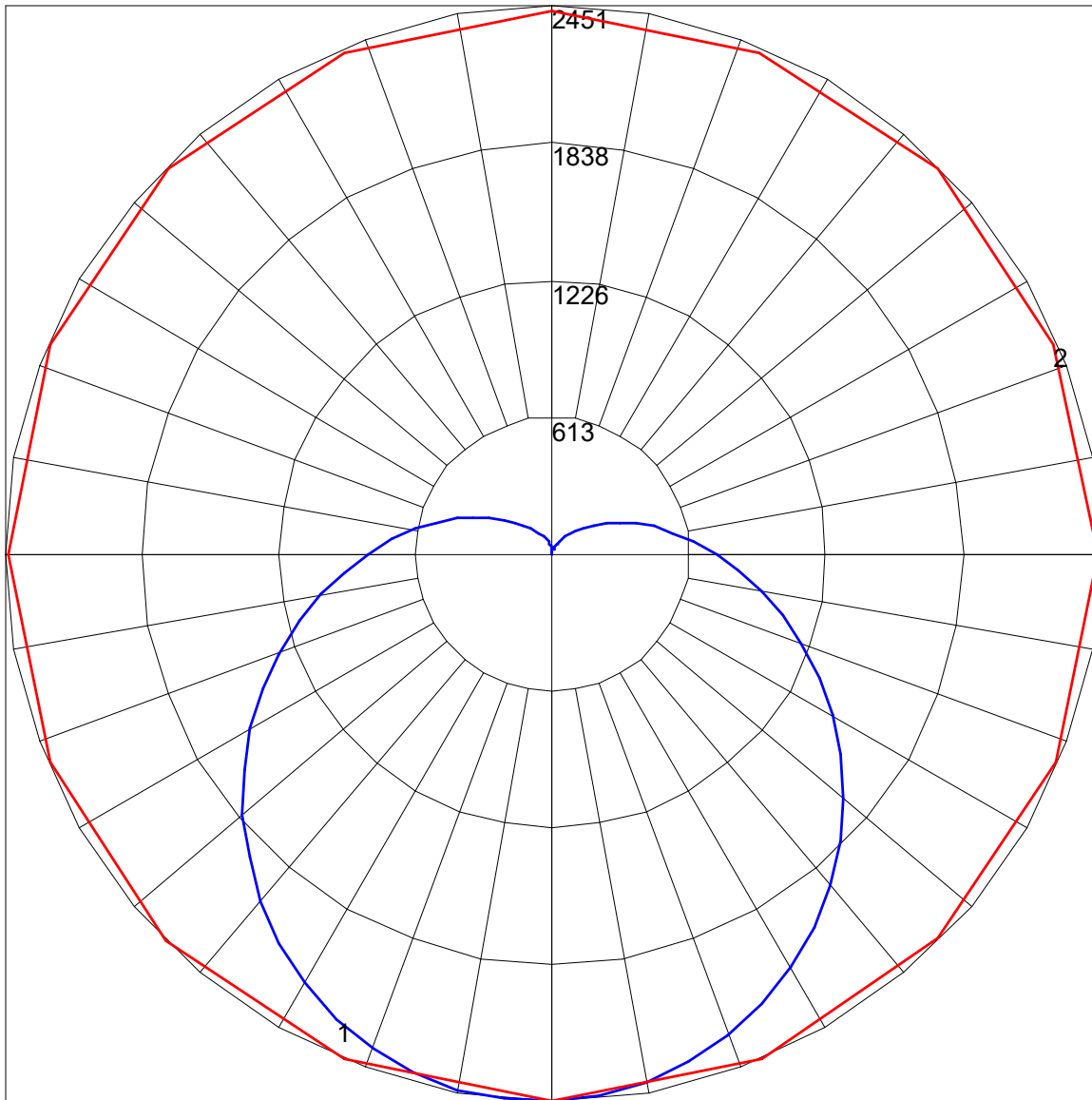
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	15.3	16.7	15.8	17.3	17.9	18.9	20.3	19.4	20.9	21.5
	3H	16.6	17.9	17.1	18.5	19.1	21.6	22.9	22.1	23.4	24.1
	4H	17.0	18.2	17.6	18.8	19.5	22.9	24.2	23.5	24.7	25.4
	6H	17.2	18.4	17.8	18.9	19.6	24.4	25.5	24.9	26.1	26.8
	8H	17.2	18.3	17.8	18.9	19.6	25.1	26.2	25.7	26.8	27.5
	12H	17.2	18.3	17.8	18.9	19.6	25.9	27.0	26.5	27.6	28.3
4H	2H	16.4	17.6	16.9	18.2	18.8	19.1	20.4	19.7	21.0	21.6
	3H	17.9	19.0	18.5	19.6	20.3	22.0	23.1	22.6	23.7	24.4
	4H	18.4	19.4	19.0	20.0	20.7	23.5	24.5	24.1	25.1	25.8
	6H	18.7	19.6	19.4	20.3	21.0	25.1	26.0	25.7	26.6	27.4
	8H	18.8	19.6	19.4	20.3	21.0	26.0	26.8	26.6	27.4	28.2
	12H	18.8	19.6	19.5	20.3	21.0	26.9	27.7	27.6	28.4	29.1
8H	4H	19.3	20.1	19.9	20.8	21.5	23.6	24.5	24.3	25.1	25.8
	6H	19.8	20.5	20.5	21.2	22.0	25.4	26.1	26.0	26.8	27.5
	8H	20.0	20.6	20.7	21.3	22.1	26.3	27.0	27.0	27.7	28.4
	12H	20.1	20.7	20.8	21.3	22.1	27.5	28.0	28.1	28.7	29.5
12H	4H	19.6	20.3	20.2	21.0	21.7	23.6	24.4	24.3	25.0	25.8
	6H	20.2	20.9	20.9	21.5	22.3	25.4	26.0	26.1	26.7	27.5
	8H	20.5	21.1	21.2	21.7	22.5	26.4	27.0	27.1	27.7	28.5

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 2451 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.)