



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AST-04-04L-850.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-04-04L-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	4623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	34
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)	4.00 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	9498	6148	5927
55	8628	5188	5174
65	7399	4324	4515
75	5393	3528	3934
85	1958	2892	3468

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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	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3
5	1211.6	1210.0	1207.4	1209.0	1207.4	1207.7	1208.3	1209.9	1209.1	1213.1
10	1192.0	1188.6	1186.4	1189.8	1189.9	1189.7	1188.0	1189.6	1188.5	1196.3
15	1158.2	1155.8	1155.4	1162.2	1164.6	1163.7	1156.7	1155.9	1154.4	1166.7
20	1112.8	1112.1	1115.2	1127.4	1133.4	1130.4	1117.4	1112.5	1107.4	1126.3
25	1057.2	1056.2	1065.3	1085.5	1094.6	1088.0	1067.6	1059.6	1049.6	1074.5
30	991.4	993.8	1009.1	1036.2	1051.1	1041.2	1011.5	995.7	983.1	1014.0
35	916.6	920.3	947.2	981.6	1000.9	987.6	948.8	924.0	910.0	946.2
40	836.8	844.4	878.3	922.2	947.6	929.6	881.2	846.4	829.2	870.0
45	750.2	762.1	807.5	860.5	888.5	867.4	812.2	765.0	743.5	790.1
50	661.3	679.1	732.8	797.8	829.6	802.9	739.5	681.7	653.2	707.4
55	568.8	592.7	656.8	731.7	766.3	736.8	665.9	596.1	560.5	622.2
60	472.4	504.9	581.8	665.0	703.3	670.6	590.9	509.5	466.3	535.5
65	376.3	419.0	510.1	599.0	640.1	605.2	519.1	423.2	369.9	448.6
70	277.8	335.2	439.9	535.4	576.8	540.4	450.4	342.9	273.6	363.1
75	184.7	259.5	373.2	472.1	515.9	478.2	384.4	267.1	181.4	284.8
80	100.1	191.6	314.4	413.2	458.3	417.6	323.3	199.4	98.2	215.0
85	32.5	134.2	261.4	358.6	404.2	362.1	268.6	141.4	32.5	154.0
90	0.0	92.6	215.9	309.5	352.5	311.7	221.3	98.0	0.0	108.8
95	0.0	64.7	178.9	266.4	305.2	268.0	182.3	68.3	0.0	78.7
100	0.0	46.3	146.8	228.6	262.9	228.5	149.5	49.2	0.0	58.2
105	0.0	34.1	119.9	194.8	223.4	193.3	122.7	35.9	0.0	44.3
110	0.7	25.9	97.3	163.3	189.0	162.8	99.6	26.9	0.0	34.6
115	1.3	20.6	78.8	135.5	157.5	135.3	80.2	21.6	1.0	28.7
120	2.3	16.9	63.5	111.0	130.7	111.1	64.3	17.4	2.4	24.8
125	3.6	14.5	50.9	90.0	107.1	90.7	51.7	14.8	3.3	21.3
130	4.5	13.0	40.9	73.1	85.9	73.1	42.0	13.6	3.6	19.1
135	5.4	12.3	34.0	58.6	68.1	57.7	33.5	11.9	4.7	17.3
140	5.7	11.7	28.3	46.5	53.7	44.7	26.1	10.4	4.5	15.5
145	6.0	11.7	24.0	37.6	41.4	34.7	20.9	10.1	5.7	13.6
150	6.8	12.4	21.3	29.9	31.9	26.3	15.7	9.2	5.6	12.9
155	8.1	12.0	18.8	23.2	24.5	19.5	12.3	9.3	7.2	12.8
160	9.2	11.5	15.9	18.6	18.8	13.8	10.1	9.4	8.6	11.8
165	9.6	11.6	13.4	14.6	15.0	10.5	10.1	9.7	9.2	10.9
170	10.5	11.3	12.3	12.4	10.7	10.3	10.7	10.9	10.1	10.1
175	11.5	11.7	10.9	11.4	10.6	12.0	12.2	12.5	11.4	12.0
180	0.0	0.0	0.0	0.0	0.0	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	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3
5	1216.2	1218.8	1220.2	1218.3	1215.4	1213.0	1211.6
10	1203.7	1212.3	1215.3	1210.6	1202.8	1195.7	1192.0
15	1181.5	1195.1	1202.6	1194.8	1179.6	1167.0	1158.2
20	1148.2	1170.9	1182.3	1170.0	1146.1	1126.5	1112.8
25	1106.8	1137.5	1153.5	1138.0	1103.6	1074.3	1057.2
30	1054.9	1098.4	1118.1	1097.8	1053.1	1013.4	991.4
35	997.6	1050.5	1077.2	1052.2	994.1	944.8	916.6
40	932.3	997.6	1027.5	999.1	930.2	868.7	836.8
45	863.8	942.0	977.4	941.9	863.1	789.5	750.2
50	792.5	881.1	919.1	881.4	792.3	704.2	661.3
55	718.4	815.1	857.1	818.7	720.4	617.7	568.8
60	643.1	747.5	796.7	752.8	646.6	531.4	472.4

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CANDELA TABULATION - (Cont.)

65	569.0	680.1	733.1	686.0	574.4	446.0	376.3
70	497.2	614.6	667.7	617.5	503.5	362.7	277.8
75	428.9	549.9	604.3	551.0	435.9	284.8	184.7
80	364.7	485.8	542.5	488.7	371.6	217.1	100.1
85	307.7	426.3	483.1	430.6	313.5	157.9	32.5
90	257.0	372.2	426.7	376.6	264.0	115.2	0.0
95	215.2	323.6	373.8	328.3	222.0	85.2	0.0
100	180.5	279.9	324.3	284.4	186.9	64.7	0.0
105	150.1	241.5	279.8	245.6	156.5	50.3	0.0
110	125.0	206.5	239.6	209.6	131.0	40.1	0.7
115	102.5	173.7	203.0	177.1	108.8	33.6	1.3
120	84.9	145.6	170.4	148.7	90.6	28.8	2.3
125	70.0	120.8	142.3	123.7	75.2	24.8	3.6
130	57.8	99.3	117.2	102.5	62.5	22.3	4.5
135	47.8	81.0	95.8	83.4	52.2	20.4	5.4
140	39.5	65.1	77.3	67.1	43.3	18.5	5.7
145	33.3	52.5	61.3	54.3	36.3	17.5	6.0
150	25.9	41.5	48.0	42.6	29.8	16.8	6.8
155	20.5	32.8	37.4	33.8	25.4	15.8	8.1
160	17.4	25.2	28.8	26.7	21.3	14.8	9.2
165	14.4	18.2	22.3	21.1	18.2	14.7	9.6
170	13.3	13.4	17.9	17.3	15.3	12.9	10.5
175	11.2	9.9	14.9	13.7	12.1	12.6	11.5
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	445.37	N.A.	9.60
0-30	947.12	N.A.	20.50
0-40	1557.43	N.A.	33.70
0-60	2823.44	N.A.	61.10
0-80	3771.13	N.A.	81.60
0-90	4065.27	N.A.	87.90
10-90	3950.07	N.A.	85.40
20-40	1112.06	N.A.	24.10
20-50	1760.02	N.A.	38.10
40-70	1799.02	N.A.	38.90
60-80	947.68	N.A.	20.50
70-80	414.68	N.A.	9.00
80-90	294.15	N.A.	6.40
90-110	342.95	N.A.	7.40
90-120	434.38	N.A.	9.40
90-130	491.36	N.A.	10.60
90-150	543.19	N.A.	11.80
90-180	557.50	N.A.	12.10
110-180	214.55	N.A.	4.60
0-180	4622.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.20
10-20	330.17
20-30	501.76
30-40	610.31
40-50	647.95
50-60	618.06
60-70	533.00
70-80	414.68
80-90	294.15
90-100	203.51
100-110	139.44
110-120	91.42
120-130	56.98
130-140	33.50
140-150	18.33
150-160	9.23
160-170	4.07
170-180	1.01

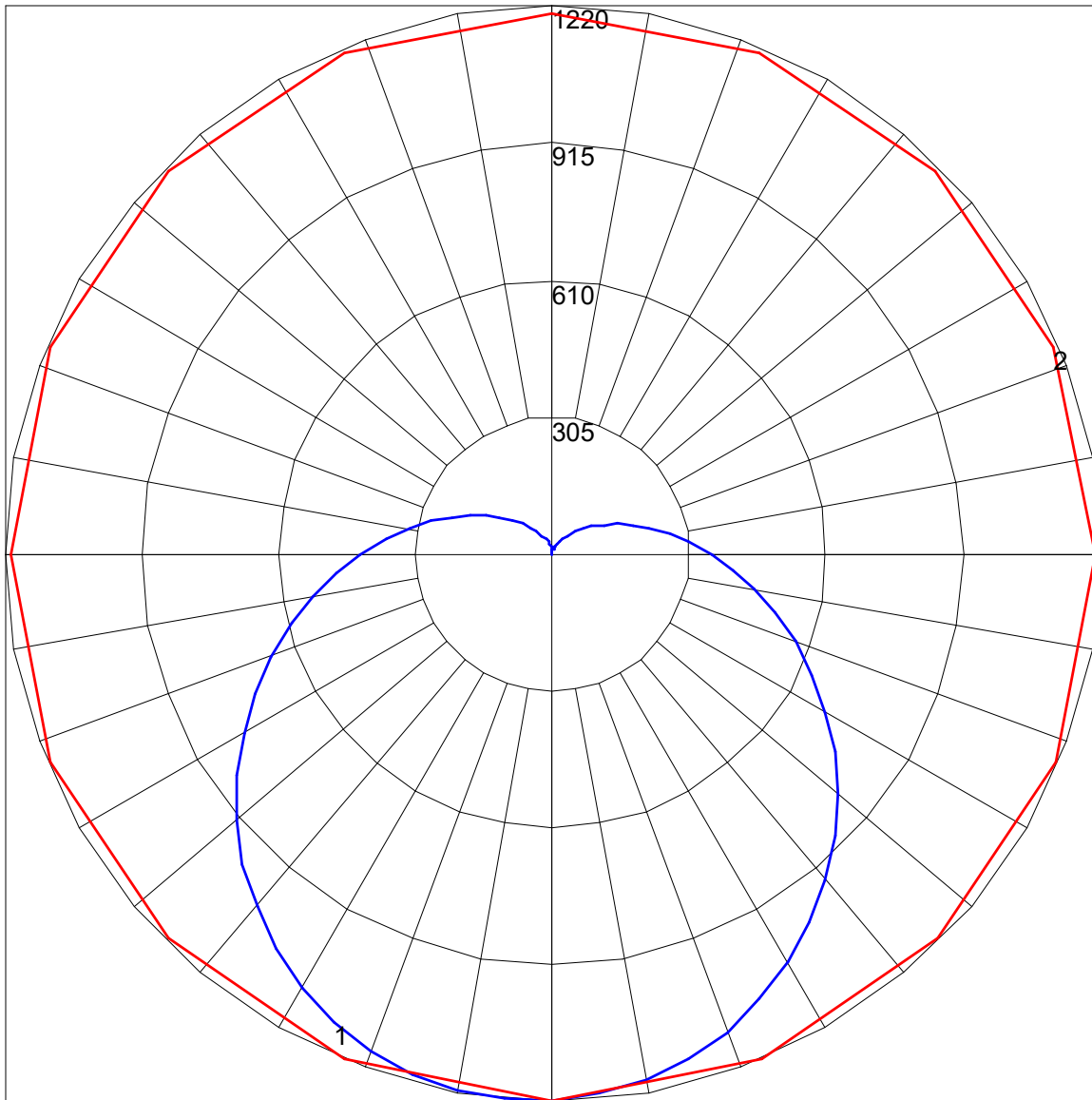
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1220.2 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.)