



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S2-LED-20L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9731  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/2018  
[TEST DATE]02/16/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S2-LED-20L-40  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14874	14326	14052
55	14961	14362	13987
65	14555	13588	13232
75	13130	11966	11800
85	9624	9624	9131

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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>
0.0	615	615	615	615	615
2.5	631	623	616	605	601
5.0	632	624	615	606	601
7.5	630	623	615	606	600
10.0	629	622	614	604	600
12.5	627	620	612	602	597
15.0	624	616	609	599	593
17.5	621	614	605	596	591
20.0	616	610	600	590	586
22.5	611	603	594	584	580
25.0	604	595	584	576	572
27.5	596	587	576	568	564
30.0	585	577	567	559	554
32.5	572	564	554	546	542
35.0	559	551	541	534	529
37.5	542	535	524	518	514
40.0	526	519	509	503	500
42.5	509	500	490	485	481
45.0	489	482	471	466	462
47.5	469	461	452	446	442
50.0	447	439	430	424	421
52.5	423	415	407	400	397
55.0	399	392	383	375	373
57.5	372	364	355	349	346
60.0	344	336	328	321	319
62.5	316	309	298	292	291
65.0	286	278	267	262	260
67.5	254	247	236	232	230
70.0	224	216	206	202	202
72.5	191	183	175	172	173
75.0	158	150	144	143	142
77.5	127	117	115	115	114
80.0	93	87	87	86	86
82.5	64	61	61	60	60
85.0	39	39	39	37	37
87.5	16	18	19	19	18
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	230.82	N.A.	11.50
0-30	501.37	N.A.	24.90
0-40	840.45	N.A.	41.70
0-60	1547.87	N.A.	76.80
0-80	1970.43	N.A.	97.80
0-90	2014.29	N.A.	100.00
10-90	1955.61	N.A.	97.10
20-40	609.63	N.A.	30.30
20-50	974.94	N.A.	48.40
40-70	974.43	N.A.	48.40
60-80	422.56	N.A.	21.00
70-80	155.55	N.A.	7.70
80-90	43.85	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2014.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	58.68
10-20	172.15
20-30	270.55
30-40	339.08
40-50	365.31
50-60	342.10
60-70	267.01
70-80	155.55
80-90	43.85
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

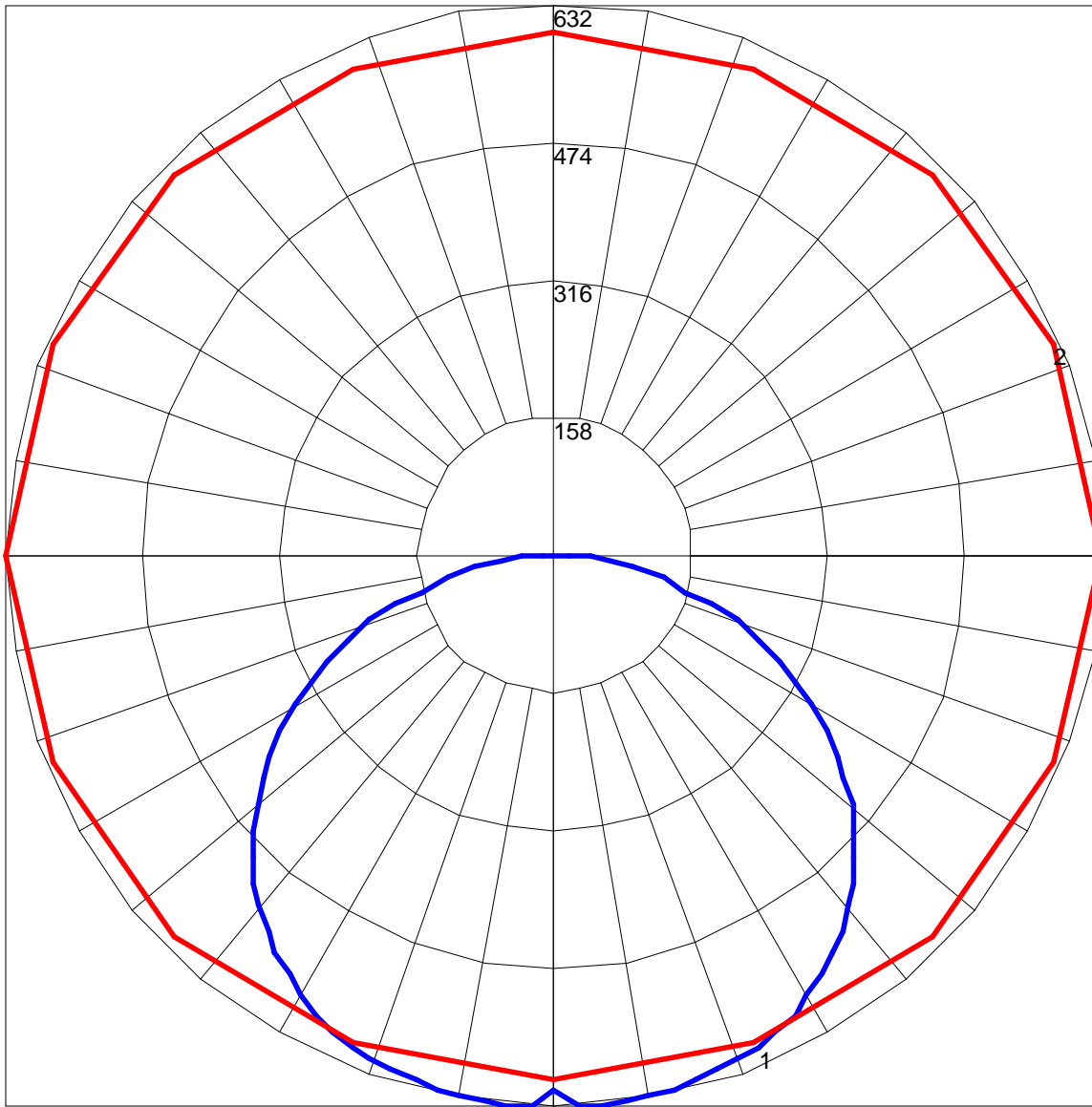
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 632 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.)