



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-20L-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9737  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/2018  
[TEST DATE]02/19/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-20L-30  
[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	1973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	14.4
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)	4.00 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	7285	7041	6859
55	7275	7031	6768
65	7074	6616	6438
75	6316	5900	5858
85	4319	4689	4812

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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>
<b>0.0</b>	607	607	607	607	607
<b>2.5</b>	621	611	607	602	596
<b>5.0</b>	622	612	607	603	596
<b>7.5</b>	620	611	607	603	595
<b>10.0</b>	620	610	605	599	594
<b>12.5</b>	617	609	602	598	591
<b>15.0</b>	614	605	599	594	588
<b>17.5</b>	610	601	594	589	583
<b>20.0</b>	604	595	588	583	577
<b>22.5</b>	597	589	582	577	571
<b>25.0</b>	590	583	575	569	563
<b>27.5</b>	580	574	564	558	554
<b>30.0</b>	570	563	556	550	544
<b>32.5</b>	558	552	544	538	532
<b>35.0</b>	545	539	530	524	519
<b>37.5</b>	529	523	514	509	503
<b>40.0</b>	513	507	498	494	487
<b>42.5</b>	497	491	481	476	470
<b>45.0</b>	479	473	463	458	451
<b>47.5</b>	459	452	443	438	432
<b>50.0</b>	438	431	424	416	411
<b>52.5</b>	414	406	400	392	386
<b>55.0</b>	388	382	375	368	361
<b>57.5</b>	362	357	350	341	335
<b>60.0</b>	335	329	320	312	308
<b>62.5</b>	308	301	291	284	281
<b>65.0</b>	278	271	260	254	253
<b>67.5</b>	248	240	230	226	226
<b>70.0</b>	218	209	201	198	198
<b>72.5</b>	183	176	171	169	168
<b>75.0</b>	152	145	142	141	141
<b>77.5</b>	120	114	114	113	114
<b>80.0</b>	89	86	85	85	86
<b>82.5</b>	61	60	60	60	62
<b>85.0</b>	35	37	38	37	39
<b>87.5</b>	13	17	18	18	19
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	227.44	N.A.	11.50
0-30	492.84	N.A.	25.00
0-40	825.03	N.A.	41.80
0-60	1517.8	N.A.	76.90
0-80	1929.69	N.A.	97.80
0-90	1972.62	N.A.	100.00
10-90	1914.69	N.A.	97.10
20-40	597.58	N.A.	30.30
20-50	955.75	N.A.	48.50
40-70	952.79	N.A.	48.30
60-80	411.89	N.A.	20.90
70-80	151.87	N.A.	7.70
80-90	42.93	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	1972.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.93
10-20	169.51
20-30	265.40
30-40	332.18
40-50	358.16
50-60	334.61
60-70	260.02
70-80	151.87
80-90	42.93
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

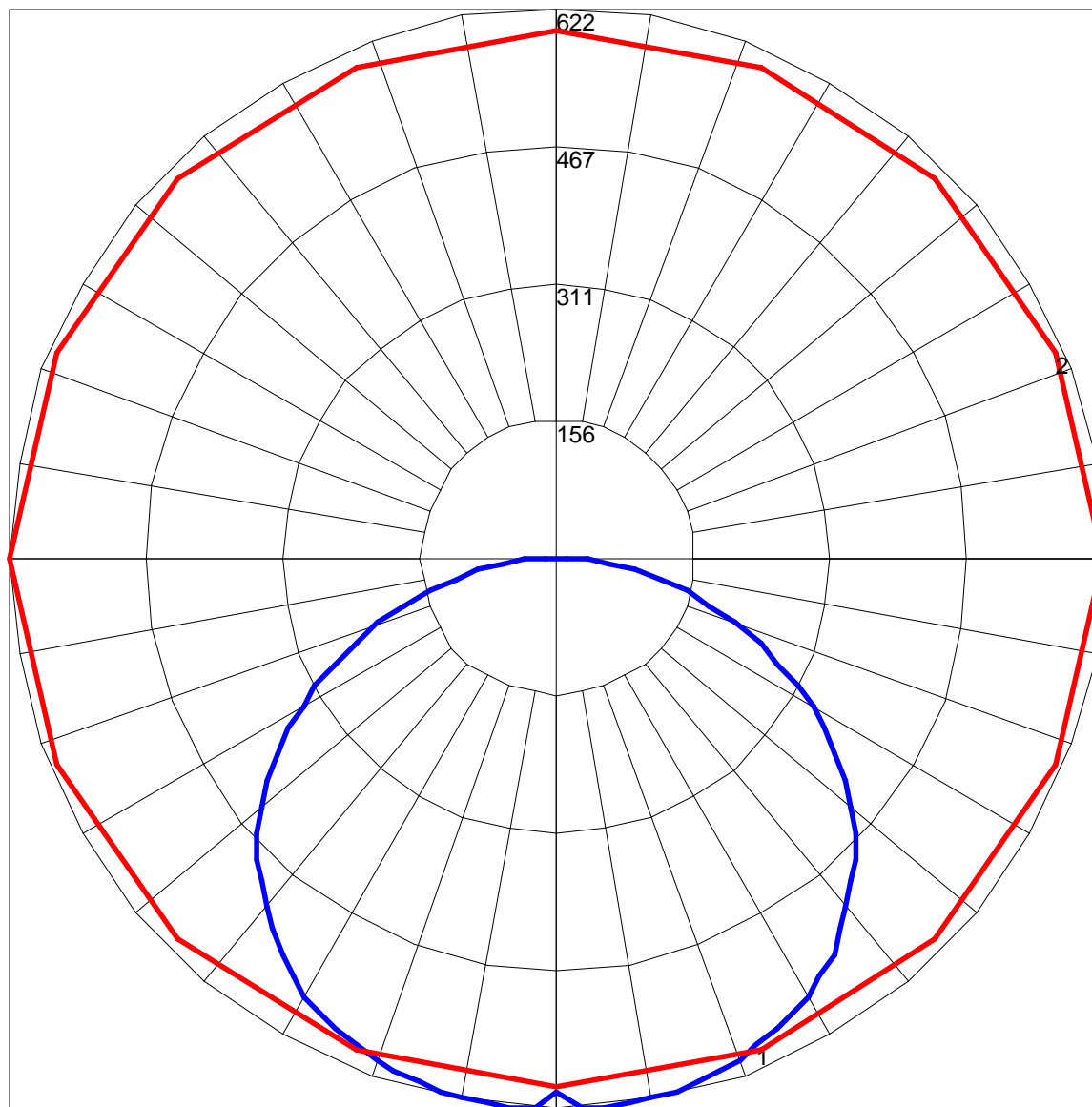
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	76	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	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	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	30	25	36	29	24	35	29	24	23

POLAR GRAPH



Maximum Candela = 622 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.)