



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-20L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9752
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/2018
[TEST DATE]02/22/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]S4-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)	143
Total Luminaire Watts	14.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
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	7467	7193	7026
55	7499	7181	6975
65	7277	6794	6641
75	6440	6025	5942
85	4565	4812	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>
0.0	614	614	614	614	614
2.5	633	618	613	608	603
5.0	634	619	614	609	603
7.5	632	618	612	607	601
10.0	631	617	610	606	600
12.5	630	615	609	604	598
15.0	627	613	606	601	596
17.5	622	609	602	596	591
20.0	617	603	596	590	586
22.5	610	597	590	584	580
25.0	603	591	582	577	572
27.5	595	583	574	569	564
30.0	584	573	564	558	553
32.5	572	561	551	546	541
35.0	559	547	538	533	528
37.5	544	534	524	519	513
40.0	530	518	508	503	499
42.5	511	501	491	486	482
45.0	491	482	473	467	462
47.5	470	461	453	448	443
50.0	448	439	430	426	422
52.5	424	415	407	401	399
55.0	400	391	383	376	372
57.5	374	365	356	348	345
60.0	347	337	329	321	319
62.5	317	310	297	291	290
65.0	286	278	267	261	261
67.5	254	248	238	233	232
70.0	221	214	207	203	201
72.5	188	183	177	174	173
75.0	155	149	145	143	143
77.5	124	118	117	114	115
80.0	94	89	89	86	87
82.5	64	61	62	60	60
85.0	37	38	39	37	39
87.5	15	17	19	18	18
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	230.34	N.A.	11.40
0-30	500.00	N.A.	24.80
0-40	838.36	N.A.	41.60
0-60	1546.85	N.A.	76.80
0-80	1969.95	N.A.	97.80
0-90	2013.8	N.A.	100.00
10-90	1955.22	N.A.	97.10
20-40	608.02	N.A.	30.20
20-50	974.00	N.A.	48.40
40-70	975.77	N.A.	48.50
60-80	423.10	N.A.	21.00
70-80	155.82	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	2013.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.58
10-20	171.76
20-30	269.66
30-40	338.36
40-50	365.98
50-60	342.51
60-70	267.28
70-80	155.82
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

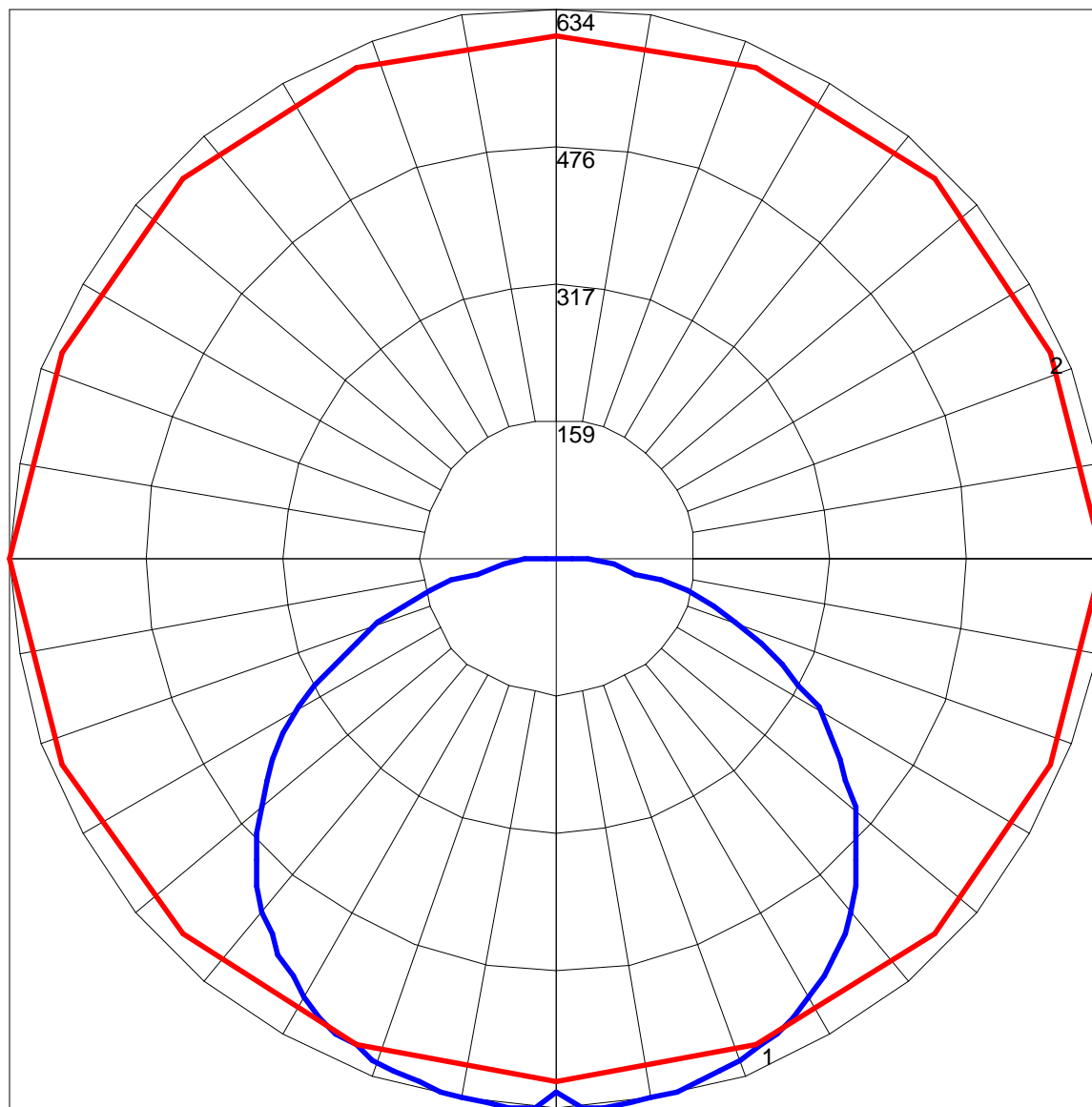
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	93	97	93	90	93	90	87	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	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	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	36	31	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 634 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.)