



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-20L-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9736
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/2018
[TEST DATE]02/16/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]S4-LED-20L-35
[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	1969
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)	1.54
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.62
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	7543	7330	7148
55	7574	7312	7068
65	7303	6972	6769
75	6482	6149	6108
85	4689	4935	4935

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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	524	524	524	524	524
2.5	543	530	526	520	514
5.0	542	529	524	519	513
7.5	544	532	527	522	516
10.0	548	535	529	523	517
12.5	550	538	532	526	520
15.0	551	538	533	527	521
17.5	555	543	537	531	525
20.0	557	546	539	534	527
22.5	561	551	543	538	531
25.0	555	545	537	531	525
27.5	551	542	532	527	520
30.0	546	537	528	522	516
32.5	540	532	523	517	510
35.0	535	528	519	513	506
37.5	526	520	510	504	498
40.0	519	512	503	497	491
42.5	507	502	492	487	482
45.0	496	492	482	477	470
47.5	475	469	460	455	450
50.0	452	447	439	433	428
52.5	429	423	414	409	403
55.0	404	398	390	382	377
57.5	378	371	363	353	349
60.0	350	344	334	325	322
62.5	320	315	304	296	295
65.0	287	285	274	267	266
67.5	255	251	242	238	236
70.0	223	216	210	206	206
72.5	189	185	179	177	178
75.0	156	152	148	147	147
77.5	124	120	119	117	117
80.0	95	91	91	89	89
82.5	65	63	64	63	64
85.0	38	39	40	39	40
87.5	15	18	19	19	19
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	202.06	N.A.	10.30
0-30	450.85	N.A.	22.90
0-40	776.07	N.A.	39.40
0-60	1493.36	N.A.	75.80
0-80	1923.69	N.A.	97.70
0-90	1968.99	N.A.	100.00
10-90	1918.66	N.A.	97.40
20-40	574.01	N.A.	29.20
20-50	943.32	N.A.	47.90
40-70	989.13	N.A.	50.20
60-80	430.33	N.A.	21.90
70-80	158.50	N.A.	8.00
80-90	45.30	N.A.	2.30
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	1968.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.32
10-20	151.74
20-30	248.79
30-40	325.22
40-50	369.31
50-60	347.98
60-70	271.84
70-80	158.50
80-90	45.30
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

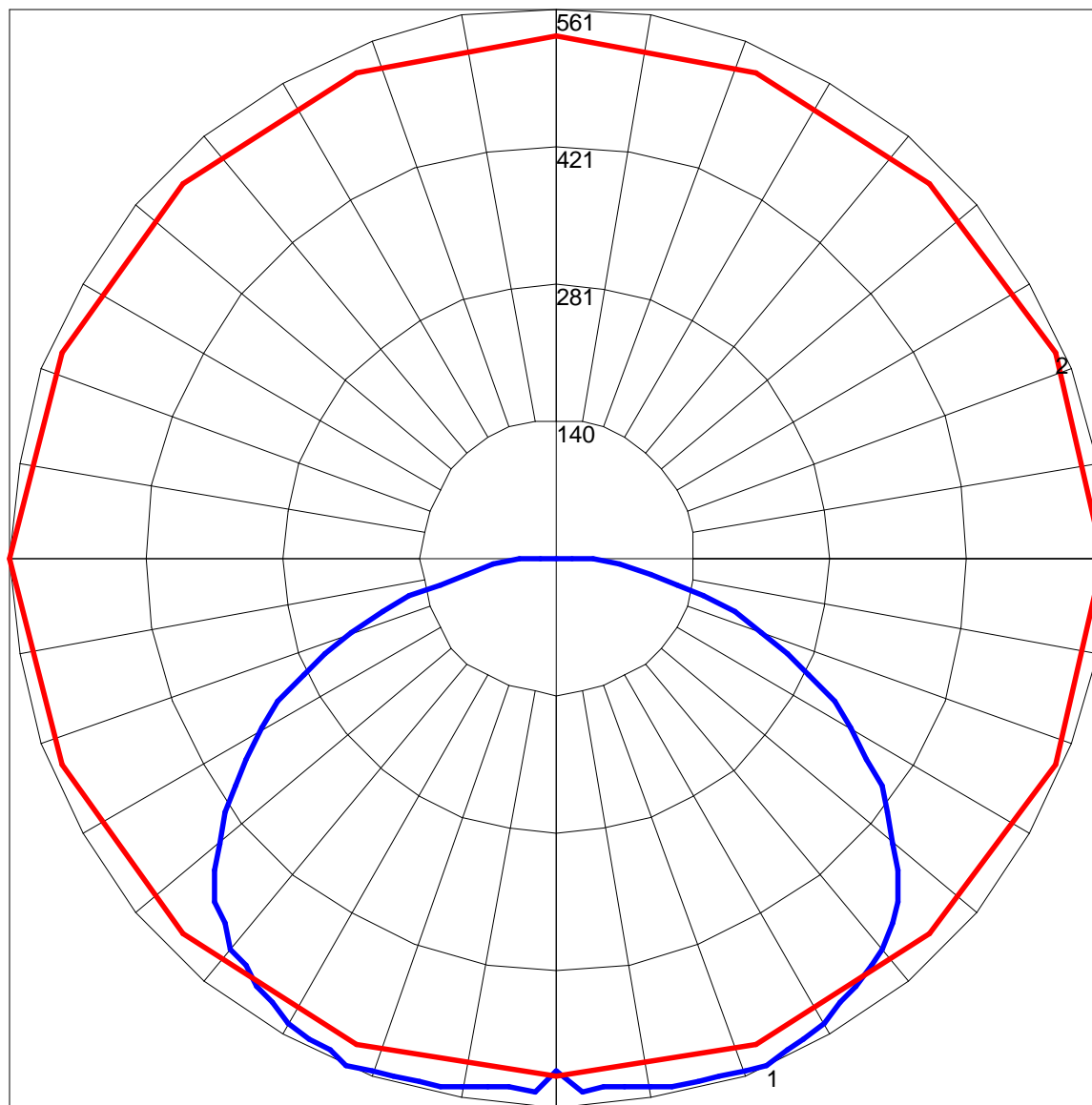
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	27	23	21

POLAR GRAPH



Maximum Candela = 561 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)