



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S8-LED-160L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-9762_scaled

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]6/12/2018

[TEST DATE]02/23/18

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]S8-LED-160L-50

[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]SCALED FROM ORIGINAL TEST DATA

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	110.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 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	30951	30584	30327
55	30937	30507	30145
65	29610	29026	28627
75	26080	25378	25077
85	18170	19809	19511

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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	5231.528	5231.528	5231.528	5231.528	5231.528
2.5	5294.297	5243.599	5221.871	5224.286	5243.599
5.0	5299.125	5246.013	5226.700	5231.528	5248.427
7.5	5291.883	5241.185	5219.457	5229.114	5243.599
10.0	5279.812	5229.114	5207.386	5217.043	5229.114
12.5	5260.498	5207.386	5185.659	5195.315	5207.386
15.0	5231.528	5180.830	5159.103	5163.931	5176.002
17.5	5188.073	5144.618	5122.890	5125.304	5134.961
20.0	5137.375	5096.334	5077.021	5077.021	5086.677
22.5	5077.021	5038.394	5021.494	5019.080	5028.737
25.0	5007.009	4973.211	4956.312	4951.483	4961.140
27.5	4932.170	4893.543	4883.886	4871.815	4879.058
30.0	4838.017	4804.218	4794.562	4782.491	4787.319
32.5	4741.450	4707.651	4693.166	4676.267	4683.509
35.0	4630.397	4596.599	4582.114	4560.386	4574.871
37.5	4504.860	4475.890	4458.991	4437.263	4449.334
40.0	4369.666	4343.110	4326.211	4302.069	4304.483
42.5	4224.815	4198.259	4181.360	4147.561	4157.218
45.0	4070.308	4034.095	4022.024	3980.983	3988.225
47.5	3898.901	3865.102	3850.617	3802.334	3816.819
50.0	3715.423	3684.039	3662.311	3618.856	3630.927
52.5	3517.460	3483.662	3469.177	3420.893	3430.550
55.0	3300.184	3263.971	3254.315	3210.859	3215.688
57.5	3063.594	3046.695	3024.968	2991.169	2995.997
60.0	2827.005	2817.348	2781.135	2749.751	2756.994
62.5	2583.173	2575.930	2534.889	2505.919	2498.676
65.0	2327.270	2327.270	2281.400	2242.773	2250.016
67.5	2066.538	2066.538	2020.669	1984.456	1977.213
70.0	1800.978	1800.978	1747.866	1716.482	1716.482
72.5	1523.348	1523.348	1482.307	1462.993	1460.579
75.0	1255.374	1240.889	1221.575	1211.918	1207.090
77.5	982.571	970.500	960.844	960.844	965.672
80.0	731.497	724.254	726.668	731.497	721.840
82.5	497.321	499.735	511.806	509.392	511.806
85.0	294.530	306.601	321.086	311.429	316.258
87.5	132.780	144.851	156.922	149.679	154.508
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1963.53	N.A.	11.50
0-30	4254.54	N.A.	25.00
0-40	7124.04	N.A.	41.80
0-60	13119.23	N.A.	77.00
0-80	16673.97	N.A.	97.90
0-90	17035.77	N.A.	100.00
10-90	16535.8	N.A.	97.10
20-40	5160.5	N.A.	30.30
20-50	8257.7	N.A.	48.50
40-70	8251.45	N.A.	48.40
60-80	3554.74	N.A.	20.90
70-80	1298.48	N.A.	7.60
80-90	361.80	N.A.	2.10
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	17035.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	499.97
10-20	1463.56
20-30	2291.01
30-40	2869.5
40-50	3097.2
50-60	2898.00
60-70	2256.26
70-80	1298.48
80-90	361.80
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

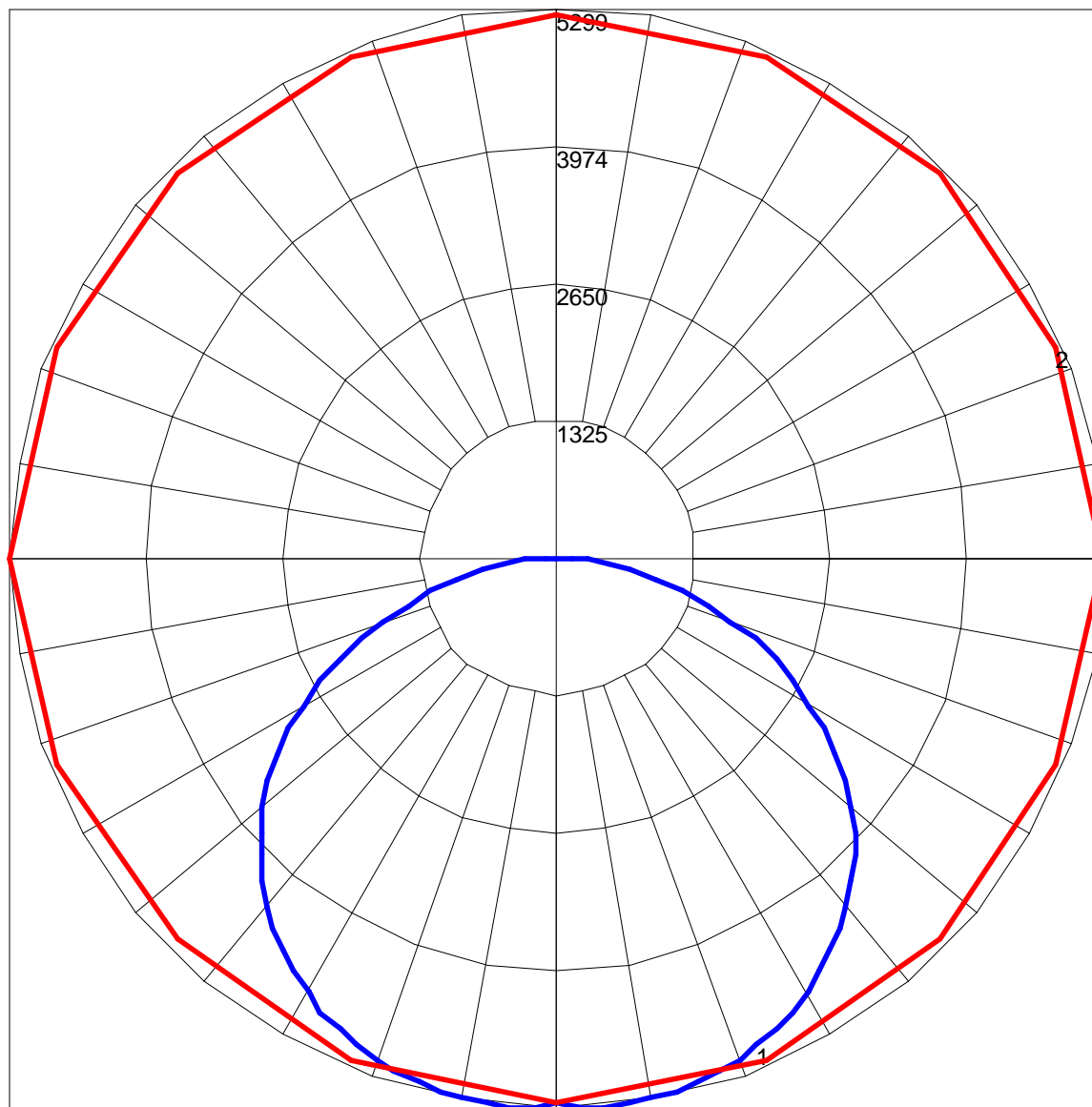
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	82	77	95	88	81	76	84	79	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	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	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 = 5299.125 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.)