



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S8-LED-160L-35.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
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]S8-LED-160L-35
[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	16105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	29260	28913	28670
55	29246	28840	28498
65	27991	27440	27062
75	24655	23991	23707
85	17177	18726	18445

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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	4945.636	4945.636	4945.636	4945.636	4945.636
2.5	5004.974	4957.047	4936.507	4938.789	4957.047
5.0	5009.539	4959.329	4941.071	4945.636	4961.611
7.5	5002.692	4954.765	4934.224	4943.353	4957.047
10.0	4991.281	4943.353	4922.813	4931.942	4943.353
12.5	4973.023	4922.813	4902.273	4911.402	4922.813
15.0	4945.636	4897.708	4877.168	4881.733	4893.144
17.5	4904.555	4863.475	4842.934	4845.217	4854.346
20.0	4856.628	4817.830	4799.572	4799.572	4808.701
22.5	4799.572	4763.056	4747.080	4744.798	4753.927
25.0	4733.386	4701.435	4685.459	4680.895	4690.024
27.5	4662.637	4626.121	4616.992	4605.580	4612.427
30.0	4573.629	4541.677	4532.548	4521.137	4525.702
32.5	4482.339	4450.387	4436.694	4420.718	4427.565
35.0	4377.355	4345.404	4331.710	4311.170	4324.864
37.5	4258.678	4231.291	4215.316	4194.775	4206.187
40.0	4130.872	4105.768	4089.792	4066.969	4069.252
42.5	3993.937	3968.833	3952.857	3920.905	3930.034
45.0	3847.873	3813.640	3802.228	3763.430	3770.277
47.5	3685.834	3653.882	3640.189	3594.544	3608.237
50.0	3512.383	3482.713	3462.173	3421.093	3432.504
52.5	3325.238	3293.287	3279.593	3233.948	3243.077
55.0	3119.836	3085.602	3076.473	3035.392	3039.957
57.5	2896.175	2880.199	2859.659	2827.708	2832.272
60.0	2672.515	2663.386	2629.152	2599.483	2606.329
62.5	2442.007	2435.161	2396.362	2368.975	2362.129
65.0	2200.089	2200.089	2156.726	2120.210	2127.057
67.5	1953.606	1953.606	1910.243	1876.009	1869.163
70.0	1702.558	1702.558	1652.349	1622.680	1622.680
72.5	1440.100	1440.100	1401.301	1383.043	1380.761
75.0	1186.770	1173.076	1154.818	1145.689	1141.125
77.5	928.876	917.464	908.335	908.335	912.900
80.0	691.522	684.675	686.957	691.522	682.393
82.5	470.143	472.426	483.837	481.555	483.837
85.0	278.434	289.846	303.539	294.410	298.975
87.5	125.524	136.935	148.346	141.499	146.064
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	1856.23	N.A.	11.50
0-30	4022.04	N.A.	25.00
0-40	6734.72	N.A.	41.80
0-60	12402.29	N.A.	77.00
0-80	15762.77	N.A.	97.90
0-90	16104.8	N.A.	100.00
10-90	15632.15	N.A.	97.10
20-40	4878.49	N.A.	30.30
20-50	7806.43	N.A.	48.50
40-70	7800.53	N.A.	48.40
60-80	3360.48	N.A.	20.90
70-80	1227.52	N.A.	7.60
80-90	342.03	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	16104.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	472.65
10-20	1383.58
20-30	2165.81
30-40	2712.68
40-50	2927.94
50-60	2739.63
60-70	2132.96
70-80	1227.52
80-90	342.03
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

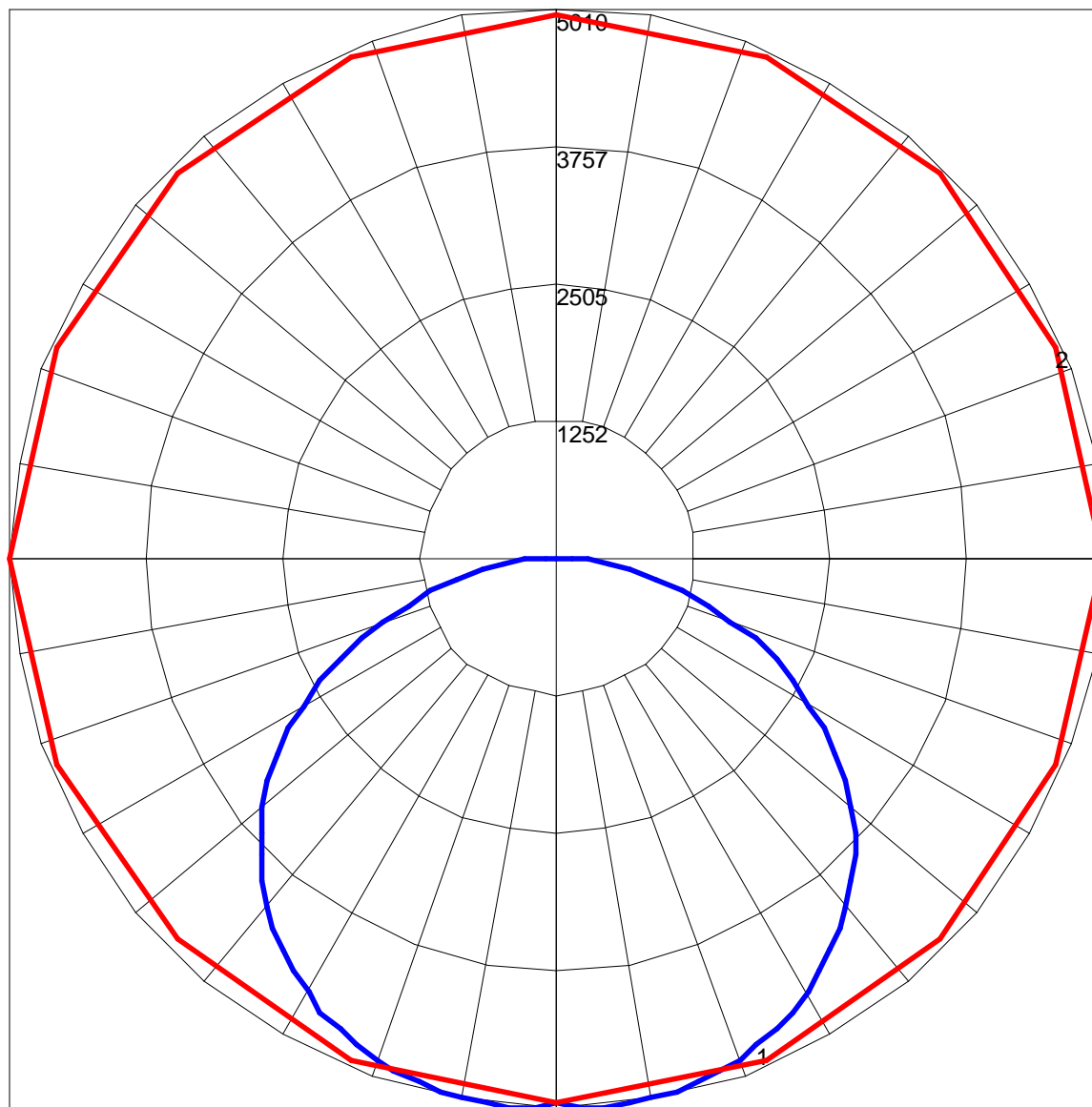
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5009.539 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.)