



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S8-LED-160L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9792
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/2018
[TEST DATE]02/27/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]S8-LED-160L-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	16021
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)	1.38
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	28759	28759	28584
55	28920	28807	28189
65	27876	27507	26909
75	24805	24057	23559
85	16904	18508	18693

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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	4884	4884	4884	4884	4884
2.5	4894	4905	4888	4893	4901
5.0	4899	4909	4891	4896	4903
7.5	4896	4906	4887	4894	4900
10.0	4885	4895	4876	4882	4887
12.5	4866	4877	4858	4864	4870
15.0	4838	4852	4833	4838	4846
17.5	4805	4818	4799	4804	4813
20.0	4762	4776	4757	4759	4767
22.5	4711	4725	4707	4707	4711
25.0	4650	4665	4648	4644	4649
27.5	4582	4595	4577	4570	4575
30.0	4503	4516	4491	4486	4491
32.5	4414	4427	4400	4389	4397
35.0	4315	4325	4299	4282	4292
37.5	4196	4210	4185	4165	4176
40.0	4072	4083	4059	4039	4049
42.5	3930	3944	3926	3901	3911
45.0	3782	3796	3782	3749	3759
47.5	3624	3637	3622	3586	3596
50.0	3454	3467	3452	3414	3410
52.5	3276	3286	3272	3224	3210
55.0	3085	3089	3073	3021	3007
57.5	2883	2887	2864	2813	2795
60.0	2660	2666	2638	2594	2573
62.5	2436	2436	2402	2368	2347
65.0	2191	2194	2162	2129	2115
67.5	1946	1951	1909	1890	1878
70.0	1696	1701	1659	1640	1636
72.5	1445	1446	1404	1391	1369
75.0	1194	1183	1158	1147	1134
77.5	936	927	921	915	906
80.0	701	685	687	694	688
82.5	469	462	485	491	484
85.0	274	278	300	307	303
87.5	117	129	149	157	151
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1836.00	N.A.	11.50
0-30	3981.83	N.A.	24.90
0-40	6673.53	N.A.	41.70
0-60	12312.34	N.A.	76.90
0-80	15678.28	N.A.	97.90
0-90	16020.88	N.A.	100.00
10-90	15553.71	N.A.	97.10
20-40	4837.53	N.A.	30.20
20-50	7747.14	N.A.	48.40
40-70	7772.29	N.A.	48.50
60-80	3365.95	N.A.	21.00
70-80	1232.46	N.A.	7.70
80-90	342.59	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	16020.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	467.17
10-20	1368.83
20-30	2145.84
30-40	2691.69
40-50	2909.61
50-60	2729.21
60-70	2133.48
70-80	1232.46
80-90	342.59
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

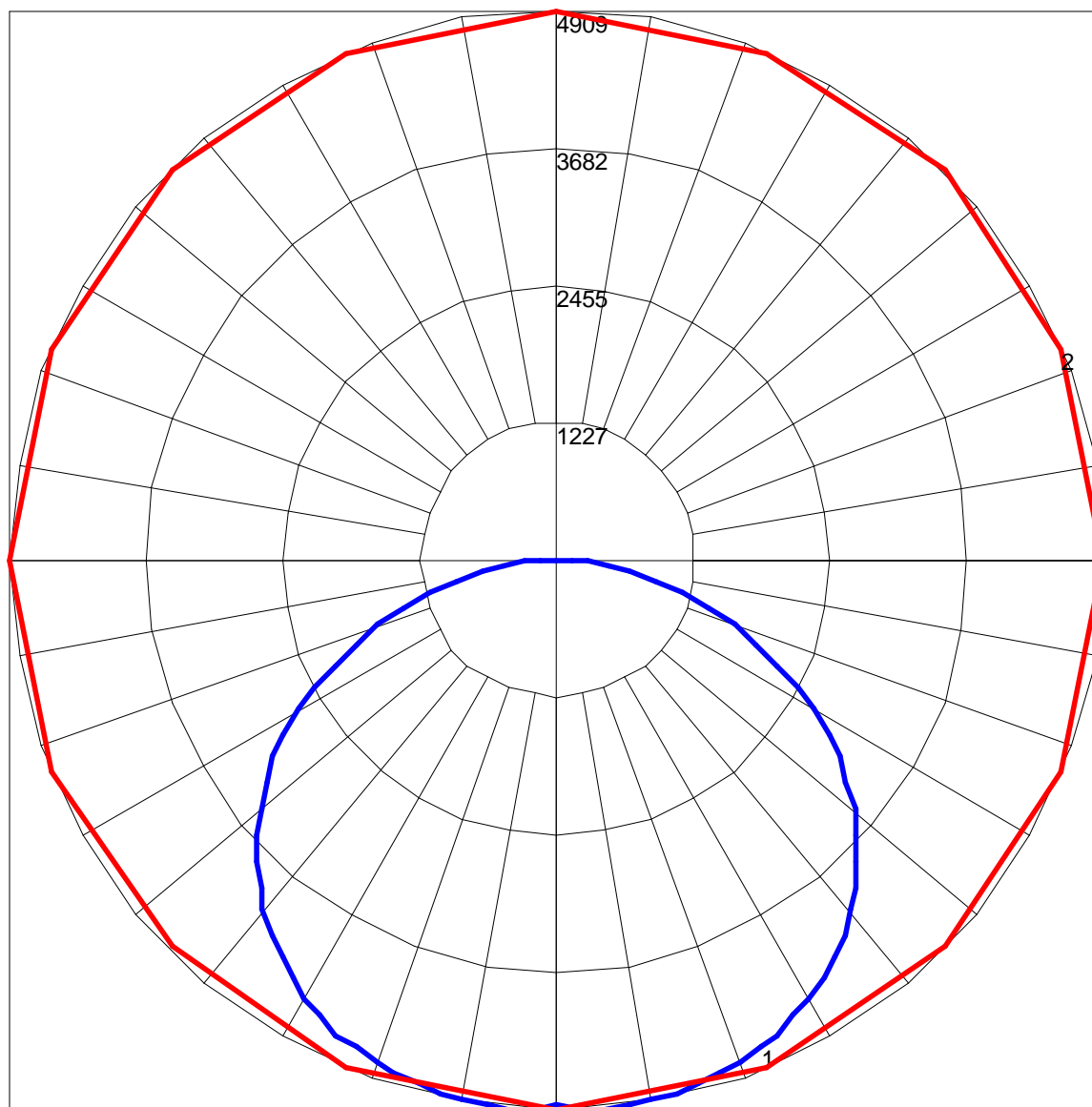
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	37	31	57	45	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	38	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 = 4909 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)