



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LCL4-LED-40L-CSM-UNV-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9087
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/23/17
[TEST DATE]07/31/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LCL4-LED-40L-CSM-UNV-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	29.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
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	10357	11148	12014
55	9693	11343	12899
65	8677	12112	14657
75	7147	14916	19279
85	4072	32327	45283

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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	1020	1020	1020	1020	1020
2.5	1047	1028	1020	1013	1004
5.0	1046	1028	1020	1013	1004
7.5	1044	1026	1017	1011	1003
10.0	1038	1019	1012	1007	1000
12.5	1029	1012	1006	1002	996
15.0	1017	1001	998	996	990
17.5	1003	988	985	987	982
20.0	987	974	974	977	972
22.5	968	955	958	964	961
25.0	946	937	942	950	948
27.5	922	914	922	934	934
30.0	893	889	901	916	918
32.5	863	861	877	897	899
35.0	829	830	851	877	880
37.5	794	798	823	854	859
40.0	758	763	794	830	836
42.5	720	729	764	805	814
45.0	681	693	733	780	790
47.5	641	656	702	752	765
50.0	601	618	670	724	739
52.5	560	579	637	697	713
55.0	517	540	605	668	688
57.5	473	499	572	639	661
60.0	428	460	539	610	634
62.5	384	420	507	580	604
65.0	341	383	476	551	576
67.5	297	346	445	522	548
70.0	255	310	415	492	517
72.5	214	277	387	466	490
75.0	172	244	359	438	464
77.5	132	213	333	413	439
80.0	95	186	307	388	413
82.5	61	160	284	364	390
85.0	33	139	262	340	367
87.5	13	119	241	318	344
90.0	3	103	222	298	322
92.5	0	88	203	278	302
95.0	1	75	186	259	282
97.5	1	65	171	241	263
100.0	2	56	155	223	246
102.5	3	50	143	207	229
105.0	4	45	131	192	212
107.5	6	40	119	177	196
110.0	6	37	108	163	182
112.5	7	34	99	150	169
115.0	8	32	90	139	155
117.5	9	31	82	128	144
120.0	9	29	75	117	132
122.5	10	29	70	107	122
125.0	11	28	64	98	111
127.5	11	28	59	90	102
130.0	12	27	55	82	93
132.5	12	27	51	76	86

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CANDELA TABULATION - (Cont.)

135.0	13	26	48	70	79
137.5	13	26	45	64	72
140.0	13	26	43	59	66
142.5	14	25	41	54	60
145.0	14	24	38	50	55
147.5	14	22	37	47	52
150.0	15	21	34	43	47
152.5	15	21	32	40	43
155.0	16	20	31	38	40
157.5	16	20	29	35	37
160.0	17	18	25	33	35
162.5	17	17	21	30	32
165.0	19	17	22	26	28
167.5	19	16	20	23	24
170.0	20	16	18	22	23
172.5	21	17	18	20	21
175.0	21	17	18	19	19
177.5	22	18	18	19	19
180.0	19	19	19	19	19

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	379.55	N.A.	9.30
0-30	814.63	N.A.	20.00
0-40	1348.38	N.A.	33.10
0-60	2456.01	N.A.	60.30
0-80	3279.19	N.A.	80.60
0-90	3537.61	N.A.	86.90
10-90	3440.33	N.A.	84.50
20-40	968.83	N.A.	23.80
20-50	1536.35	N.A.	37.70
40-70	1570.62	N.A.	38.60
60-80	823.18	N.A.	20.20
70-80	360.19	N.A.	8.80
80-90	258.42	N.A.	6.30
90-110	307.99	N.A.	7.60
90-120	393.63	N.A.	9.70
90-130	450.46	N.A.	11.10
90-150	510.81	N.A.	12.60
90-180	532.46	N.A.	13.10
110-180	224.47	N.A.	5.50
0-180	4070.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.28
10-20	282.27
20-30	435.08
30-40	533.75
40-50	567.53
50-60	540.10
60-70	462.99
70-80	360.19
80-90	258.42
90-100	181.62
100-110	126.37
110-120	85.65
120-130	56.82
130-140	37.04
140-150	23.31
150-160	13.54
160-170	6.31
170-180	1.81

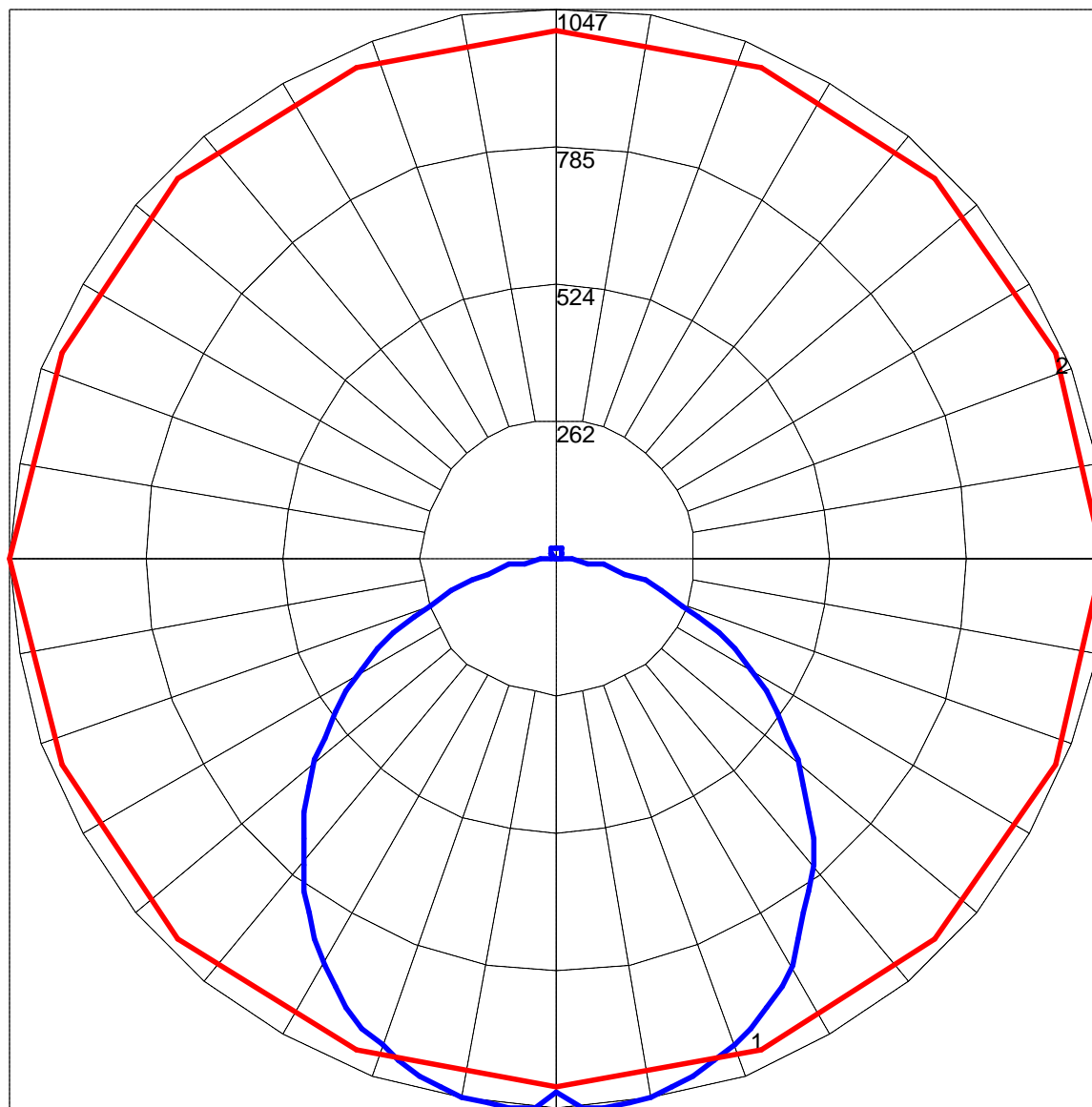
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	103	98	93	88	99	94	89	85	87	84	80	81	78	75	75	73	71	68
2	93	84	76	70	89	81	74	68	75	69	64	70	65	61	65	61	58	55
3	85	73	64	57	81	71	62	56	66	59	53	61	55	51	57	52	48	45
4	77	64	55	48	74	62	54	47	58	51	45	54	48	43	50	45	41	38
5	71	57	48	41	68	55	47	40	52	44	38	48	42	37	45	40	35	33
6	65	51	42	35	62	50	41	35	47	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	37	31	42	35	29	40	33	28	37	32	27	25
8	56	42	34	28	54	41	33	27	39	31	26	36	30	25	34	28	24	22
9	52	39	30	25	50	38	30	24	35	28	23	33	27	23	31	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 1047 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)