



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPG-LED-5L-CA-W-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3353
[TESTLAB] TUV SUD America
[TESTDATE] 2/21/2018 4:39:34 PM
[ISSUE DATE] 04/24/2018
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMCAT] CPG-LED-5L-CA-W-50
[OTHER] TEST PROCEDURE: IESNA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	41.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.50
Spacing Criterion (90-270)	1.78
Spacing Criterion (Diagonal)	2.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.58 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	61784	52267	46675
55	95469	103317	90786
65	82420	179291	74920
75	31282	24151	17923
85	4745	8354	4835

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	796.905	796.905	796.905	796.905	796.905	796.905	796.905	796.905	796.905	796.905
2.5	798.371	796.489	794.773	793.286	792.932	793.286	794.773	796.489	798.371	796.489
5.0	801.138	796.052	788.938	784.341	783.135	784.341	788.938	796.052	801.138	796.052
7.5	809.042	799.515	783.229	776.697	777.457	776.697	783.229	799.515	809.042	799.515
10.0	820.014	805.308	782.823	775.657	777.779	775.657	782.823	805.308	820.014	805.308
12.5	833.056	813.608	788.606	778.351	779.526	778.351	788.606	813.608	833.056	813.608
15.0	849.946	825.079	798.517	782.095	779.817	782.095	798.517	825.079	849.946	825.079
17.5	873.180	841.938	811.080	788.814	783.364	788.814	811.080	841.938	873.180	841.938
20.0	888.874	860.076	826.712	799.536	789.334	799.536	826.712	860.076	888.874	860.076
22.5	907.282	876.061	845.734	811.320	795.854	811.320	845.734	876.061	907.282	876.061
25.0	927.344	894.573	867.325	824.569	801.595	824.569	867.325	894.573	927.344	894.573
27.5	953.511	919.024	888.115	838.360	810.758	838.360	888.115	919.024	953.511	919.024
30.0	989.766	952.991	912.014	856.446	824.850	856.446	912.014	952.991	989.766	952.991
32.5	1035.257	994.426	943.225	880.897	843.602	880.897	943.225	994.426	1035.257	994.426
35.0	1092.239	1044.804	982.496	907.719	863.175	907.719	982.496	1044.804	1092.239	1044.804
37.5	1154.495	1099.478	1023.598	931.733	883.892	931.733	1023.598	1099.478	1154.495	1099.478
40.0	1223.001	1162.607	1059.188	960.126	915.571	960.126	1059.188	1162.607	1223.001	1162.607
42.5	1298.299	1237.489	1105.770	1000.125	966.532	1000.125	1105.770	1237.489	1298.299	1237.489
45.0	1382.228	1327.502	1169.326	1065.022	1044.211	1065.022	1169.326	1327.502	1382.228	1327.502
47.5	1472.876	1433.272	1265.070	1169.929	1156.086	1169.929	1265.070	1433.272	1472.876	1433.272
50.0	1572.365	1566.676	1411.182	1323.488	1308.189	1323.488	1411.182	1566.676	1572.365	1566.676
52.5	1667.350	1733.069	1606.852	1530.067	1483.890	1530.067	1606.852	1733.069	1667.350	1733.069
55.0	1732.496	1912.399	1874.927	1769.074	1647.527	1769.074	1874.927	1912.399	1732.496	1912.399
57.5	1735.793	2067.165	2191.010	1972.315	1746.329	1972.315	2191.010	2067.165	1735.793	2067.165
60.0	1646.664	2119.270	2482.725	2070.285	1715.908	2070.285	2482.725	2119.270	1646.664	2119.270
62.5	1433.428	1986.053	2610.783	1970.193	1461.394	1970.193	2610.783	1986.053	1433.428	1986.053
65.0	1102.057	1617.179	2397.329	1629.015	1001.768	1629.015	2397.329	1617.179	1102.057	1617.179
67.5	712.705	1059.448	1780.930	1071.647	524.742	1071.647	1780.930	1059.448	712.705	1059.448
70.0	404.526	534.404	993.687	496.734	239.153	496.734	993.687	534.404	404.526	534.404
72.5	274.284	277.779	394.469	222.055	162.254	222.055	394.469	277.779	274.284	277.779
75.0	256.157	215.877	197.770	169.690	146.768	169.690	197.770	215.877	256.157	215.877
77.5	229.033	202.117	171.947	148.317	126.300	148.317	171.947	202.117	229.033	202.117
80.0	198.280	169.450	153.788	128.806	88.683	128.806	153.788	169.450	198.280	169.450
82.5	96.233	99.998	84.023	76.213	44.814	76.213	84.023	99.998	96.233	99.998
85.0	13.083	29.245	23.036	22.589	13.333	22.589	23.036	29.245	13.083	29.245
87.5	0.499	1.352	2.018	1.134	1.071	1.134	2.018	1.352	0.499	1.352
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	796.905	796.905	796.905	796.905	796.905	796.905	796.905
2.5	794.773	793.286	792.932	793.286	794.773	796.489	798.371
5.0	788.938	784.341	783.135	784.341	788.938	796.052	801.138
7.5	783.229	776.697	777.457	776.697	783.229	799.515	809.042
10.0	782.823	775.657	777.779	775.657	782.823	805.308	820.014
12.5	788.606	778.351	779.526	778.351	788.606	813.608	833.056
15.0	798.517	782.095	779.817	782.095	798.517	825.079	849.946
17.5	811.080	788.814	783.364	788.814	811.080	841.938	873.180
20.0	826.712	799.536	789.334	799.536	826.712	860.076	888.874
22.5	845.734	811.320	795.854	811.320	845.734	876.061	907.282
25.0	867.325	824.569	801.595	824.569	867.325	894.573	927.344
27.5	888.115	838.360	810.758	838.360	888.115	919.024	953.511
30.0	912.014	856.446	824.850	856.446	912.014	952.991	989.766
32.5	943.225	880.897	843.602	880.897	943.225	994.426	1035.257
35.0	982.496	907.719	863.175	907.719	982.496	1044.804	1092.239
37.5	1023.598	931.733	883.892	931.733	1023.598	1099.478	1154.495
40.0	1059.188	960.126	915.571	960.126	1059.188	1162.607	1223.001
42.5	1105.770	1000.125	966.532	1000.125	1105.770	1237.489	1298.299
45.0	1169.326	1065.022	1044.211	1065.022	1169.326	1327.502	1382.228
47.5	1265.070	1169.929	1156.086	1169.929	1265.070	1433.272	1472.876
50.0	1411.182	1323.488	1308.189	1323.488	1411.182	1566.676	1572.365
52.5	1606.852	1530.067	1483.890	1530.067	1606.852	1733.069	1667.350
55.0	1874.927	1769.074	1647.527	1769.074	1874.927	1912.399	1732.496
57.5	2191.010	1972.315	1746.329	1972.315	2191.010	2067.165	1735.793
60.0	2482.725	2070.285	1715.908	2070.285	2482.725	2119.270	1646.664
62.5	2610.783	1970.193	1461.394	1970.193	2610.783	1986.053	1433.428
65.0	2397.329	1629.015	1001.768	1629.015	2397.329	1617.179	1102.057
67.5	1780.930	1071.647	524.742	1071.647	1780.930	1059.448	712.705
70.0	993.687	496.734	239.153	496.734	993.687	534.404	404.526
72.5	394.469	222.055	162.254	222.055	394.469	277.779	274.284
75.0	197.770	169.690	146.768	169.690	197.770	215.877	256.157
77.5	171.947	148.317	126.300	148.317	171.947	202.117	229.033
80.0	153.788	128.806	88.683	128.806	153.788	169.450	198.280

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CANDELA TABULATION - (Cont.)

82.5	84.023	76.213	44.814	76.213	84.023	99.998	96.233
85.0	23.036	22.589	13.333	22.589	23.036	29.245	13.083
87.5	2.018	1.134	1.071	1.134	2.018	1.352	0.499
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	304.97	N.A.	5.30
0-30	706.36	N.A.	12.40
0-40	1324.09	N.A.	23.20
0-60	3884.3	N.A.	67.90
0-80	5667.49	N.A.	99.10
0-90	5716.51	N.A.	100.00
10-90	5641.06	N.A.	98.70
20-40	1019.13	N.A.	17.80
20-50	1963.44	N.A.	34.30
40-70	4075.77	N.A.	71.30
60-80	1783.19	N.A.	31.20
70-80	267.63	N.A.	4.70
80-90	49.01	N.A.	0.90
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	5716.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.45
10-20	229.52
20-30	401.39
30-40	617.73
40-50	944.31
50-60	1615.89
60-70	1515.56
70-80	267.63
80-90	49.01
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

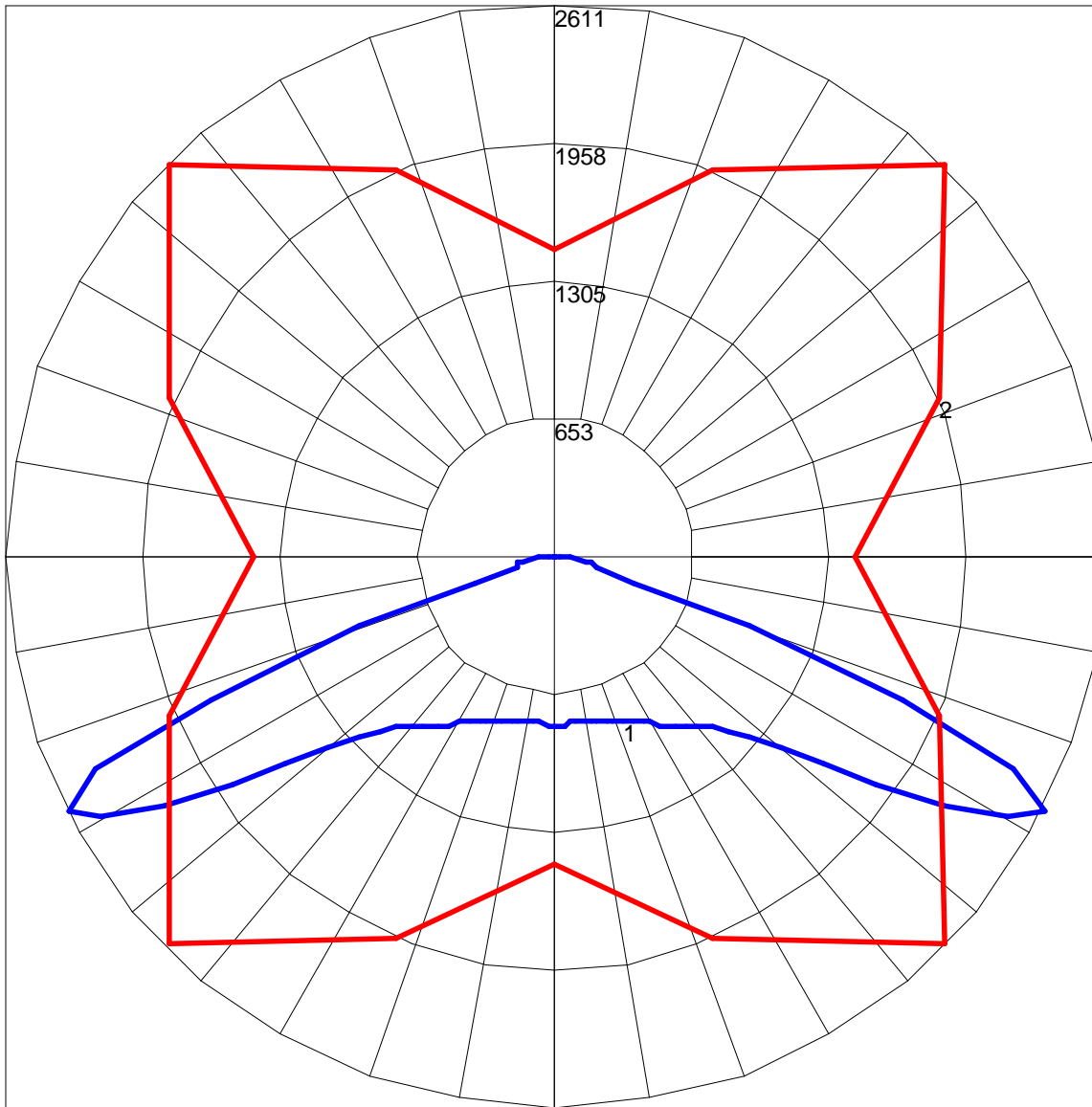
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81
2	96	86	78	72	93	84	77	71	81	74	69	77	72	67	74	70	66	64
3	85	73	63	56	82	71	62	55	68	60	54	65	59	53	62	57	52	50
4	76	62	52	44	74	61	51	44	58	50	43	56	48	42	53	47	42	39
5	69	54	43	36	66	52	43	35	50	42	35	48	40	34	46	39	34	32
6	62	47	37	29	60	46	36	29	44	35	29	42	34	28	40	34	28	26
7	57	42	32	25	55	41	31	24	39	30	24	37	30	24	36	29	24	21
8	52	37	27	21	51	36	27	21	35	27	21	34	26	20	32	25	20	18
9	49	33	24	18	47	33	24	18	32	24	18	30	23	18	29	23	18	16
10	45	30	22	16	44	30	21	16	29	21	16	28	21	16	27	20	15	14

POLAR GRAPH



Maximum Candela = 2610.783 Located At Horizontal Angle = 45, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)