



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SRG14-LED48DMV35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000657-001 -EXT
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] SRG14-LED48DMV35
 [LUMINAIRE] Catalog Number: SRG14-LED48DMV35
 [MORE] Recess mounted, white formed steel 1X4 housing, formed white enamel steel internal
 [MORE] reflector with clear prismatic acrylic lens. 128 white LEDs, four Universal Lighting
 [MORE] Technologies Everline M10CC835D32N2S boards with 32 LED each. One Universal
 [MORE] Lighting Technologies Everline D10CC55UNVTZ-C LED driver set at 860mA.
 [MORE] 120.0Vac, 60.0Hz, 0.35A, 58.84W, 0.998PF, 4.85%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.808a.
 [DATE] This file extrapolated from report LLIA000657-001 Tuesday, February 28, 2017
 [ISSUE DATE] Tuesday, February 28, 2017

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6650	5802	5156
55	5316	4361	4064
65	3930	2884	3436
75	3600	2798	3895
85	4303	3665	4932

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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	2500.904	2500.904	2500.904	2500.904	2500.904
0.5	2477.925	2508.645	2503.160	2506.684	2492.677
1.0	2477.673	2508.419	2502.865	2506.519	2492.599
1.5	2477.257	2508.046	2502.388	2506.172	2492.226
2.0	2476.493	2507.196	2501.720	2505.616	2491.480
2.5	2475.356	2506.206	2500.956	2504.740	2490.404
3.0	2473.820	2504.948	2499.854	2503.377	2489.024
3.5	2472.380	2503.334	2498.379	2501.711	2487.401
4.0	2470.540	2501.503	2496.600	2499.646	2485.397
4.5	2468.839	2499.602	2494.587	2497.199	2482.854
5.0	2466.695	2497.641	2492.582	2494.699	2480.467
5.5	2464.352	2495.263	2489.918	2491.627	2477.491
6.0	2462.035	2492.929	2487.280	2488.434	2474.532
6.5	2458.929	2490.013	2484.130	2485.110	2471.269
7.0	2455.848	2486.820	2480.615	2481.405	2467.511
7.5	2452.897	2483.774	2477.118	2477.526	2463.224
8.0	2449.409	2480.528	2473.039	2473.360	2459.015
8.5	2445.573	2476.927	2468.926	2468.952	2454.468
9.0	2441.868	2473.109	2464.422	2464.101	2449.374
9.5	2437.806	2468.978	2459.493	2458.746	2444.298
10.0	2433.650	2464.448	2454.381	2453.123	2439.039
10.5	2429.614	2459.553	2449.044	2447.578	2433.702
11.0	2425.258	2454.251	2443.438	2441.807	2428.191
11.5	2420.225	2449.062	2437.668	2436.201	2422.334
12.0	2415.061	2443.447	2431.697	2430.248	2416.085
12.5	2409.403	2437.372	2425.371	2423.878	2409.655
13.0	2403.520	2431.159	2418.888	2416.858	2402.218
13.5	2397.471	2424.746	2412.059	2409.533	2394.746
14.0	2391.188	2418.064	2404.899	2401.784	2386.624
14.5	2384.506	2410.774	2397.315	2393.418	2377.529
15.0	2377.520	2403.476	2389.583	2384.471	2368.226
15.5	2370.413	2395.874	2381.443	2374.917	2357.865
16.0	2362.915	2387.769	2373.233	2364.686	2346.991
16.5	2355.183	2379.699	2364.581	2353.855	2335.918
17.0	2347.234	2371.142	2355.287	2342.400	2323.960
17.5	2338.643	2362.152	2345.707	2330.442	2311.377
18.0	2329.991	2352.797	2335.588	2318.180	2298.160
18.5	2321.460	2343.190	2324.914	2305.068	2283.928
19.0	2312.218	2333.375	2313.555	2291.278	2268.473
19.5	2302.777	2323.049	2301.683	2276.665	2252.696
20.0	2292.979	2312.349	2289.517	2261.252	2236.078
20.5	2282.670	2301.310	2276.448	2244.912	2217.732
21.0	2272.421	2290.046	2263.031	2228.137	2198.823
21.5	2261.938	2278.400	2249.520	2210.460	2179.289
22.0	2250.362	2266.329	2234.880	2191.594	2158.444
22.5	2238.811	2253.763	2219.711	2172.008	2137.114
23.0	2226.888	2240.729	2204.143	2151.450	2115.089
23.5	2214.600	2226.966	2187.620	2130.206	2091.953
24.0	2201.843	2213.003	2170.915	2108.468	2068.575
24.5	2188.505	2198.571	2153.550	2085.887	2044.502
25.0	2174.212	2183.367	2135.456	2062.301	2019.223
25.5	2159.711	2167.747	2116.608	2038.636	1994.013
26.0	2145.176	2151.953	2097.533	2014.303	1968.101
26.5	2129.824	2135.274	2077.557	1988.937	1941.477

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27.0	2114.056	2118.144	2057.024	1963.406	1915.443
27.5	2097.620	2100.701	2035.772	1937.719	1889.522
28.0	2080.516	2082.434	2013.843	1911.303	1862.776
28.5	2063.481	2063.750	1991.722	1885.044	1836.482
29.0	2045.917	2044.650	1968.839	1858.524	1810.387
29.5	2027.476	2024.829	1945.243	1831.718	1784.275
30.0	2008.966	2005.139	1921.353	1805.163	1758.007
30.5	1989.848	1984.823	1897.228	1778.521	1731.929
31.0	1969.863	1963.519	1872.218	1751.481	1705.496
31.5	1949.955	1942.284	1847.112	1724.831	1679.627
32.0	1929.866	1920.832	1821.807	1698.389	1653.905
32.5	1908.509	1898.668	1795.929	1671.782	1627.819
33.0	1887.344	1876.522	1769.921	1645.314	1602.245
33.5	1865.822	1853.916	1743.428	1618.898	1576.315
34.0	1843.693	1830.815	1716.630	1592.031	1550.212
34.5	1821.894	1808.044	1690.084	1565.876	1524.516
35.0	1799.418	1784.969	1663.338	1539.590	1498.560
35.5	1776.005	1761.113	1636.220	1512.758	1472.066
36.0	1753.156	1737.318	1609.274	1486.750	1445.928
36.5	1729.881	1713.610	1583.015	1460.542	1420.346
37.0	1706.034	1689.025	1556.070	1434.057	1394.234
37.5	1682.352	1664.961	1529.419	1407.927	1368.850
38.0	1658.444	1640.515	1503.151	1381.954	1343.571
38.5	1633.929	1615.644	1476.614	1355.712	1318.249
39.0	1610.038	1591.059	1450.667	1330.277	1293.569
39.5	1586.009	1566.049	1424.659	1304.867	1268.993
40.0	1561.172	1540.440	1398.390	1279.545	1244.443
40.5	1536.865	1515.187	1372.990	1255.038	1220.778
41.0	1512.332	1489.934	1347.572	1230.688	1197.217
41.5	1487.687	1463.970	1322.137	1206.381	1173.873
42.0	1463.250	1438.561	1296.884	1182.829	1151.059
42.5	1438.682	1412.883	1271.960	1159.537	1128.782
43.0	1414.132	1387.065	1246.794	1136.323	1106.601
43.5	1390.181	1361.248	1222.357	1113.700	1084.715
44.0	1365.882	1335.379	1197.911	1091.354	1063.324
44.5	1340.994	1309.189	1173.318	1068.904	1042.037
45.0	1317.329	1283.693	1149.401	1047.469	1021.375
45.5	1293.534	1257.963	1125.493	1026.052	1000.834
46.0	1269.479	1232.024	1101.611	1004.435	980.388
46.5	1245.970	1206.468	1078.215	983.512	960.429
47.0	1222.453	1181.006	1055.037	962.729	940.704
47.5	1198.796	1155.415	1031.632	941.789	920.979
48.0	1175.730	1129.876	1008.635	921.309	901.714
48.5	1152.326	1104.518	985.934	900.985	882.466
49.0	1128.938	1078.970	963.024	880.522	863.157
49.5	1106.167	1054.021	940.669	860.606	844.638
50.0	1083.283	1029.107	918.410	840.612	826.198
50.5	1059.697	1004.001	895.934	820.401	807.436
51.0	1037.134	979.364	874.039	800.910	789.464
51.5	1014.302	954.849	852.197	781.575	771.596
52.0	991.271	930.039	830.033	762.119	753.676
52.5	968.361	905.749	808.330	742.967	736.406
53.0	945.572	881.520	786.669	724.127	719.302
53.5	922.593	857.265	764.870	705.417	702.232
54.0	899.917	833.687	743.557	687.280	685.770
54.5	877.250	810.039	722.374	669.273	669.412

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55.0	854.306	786.270	700.740	651.449	653.011
55.5	831.925	763.326	679.939	634.344	637.573
56.0	809.553	740.537	659.155	617.579	622.317
56.5	786.912	717.558	638.215	600.795	606.991
57.0	764.896	695.464	617.743	584.698	592.438
57.5	743.193	673.604	597.376	568.956	578.094
58.0	721.289	651.848	577.235	553.405	563.922
58.5	700.054	630.821	557.483	538.461	550.428
59.0	679.053	610.185	537.967	523.847	537.168
59.5	658.270	589.783	518.615	509.277	524.238
60.0	638.137	570.171	500.026	495.592	511.750
60.5	618.325	550.914	481.794	482.046	499.662
61.0	598.851	531.944	463.778	468.768	487.721
61.5	580.098	513.842	446.518	456.081	476.396
62.0	561.918	496.286	429.769	443.802	465.445
62.5	544.059	479.078	413.394	431.765	454.640
63.0	527.197	462.702	397.852	420.440	444.505
63.5	510.752	446.856	382.821	409.489	434.516
64.0	494.950	431.496	368.242	398.858	424.805
64.5	479.789	417.030	354.574	388.922	415.668
65.0	465.306	403.041	341.427	379.420	406.790
65.5	451.161	389.521	328.879	370.099	398.060
66.0	437.814	376.799	317.146	361.525	389.842
66.5	424.840	364.719	306.073	353.229	381.884
67.0	412.188	353.116	295.555	345.315	373.996
67.5	400.238	342.226	285.793	337.782	366.611
68.0	388.531	331.881	276.820	330.675	359.495
68.5	377.189	322.032	268.306	323.768	352.500
69.0	366.359	312.868	260.618	317.138	345.888
69.5	355.798	304.060	253.415	310.594	339.579
70.0	345.489	295.651	246.880	303.990	333.400
70.5	335.622	287.815	240.988	297.603	327.586
71.0	325.980	280.273	235.651	291.260	322.084
71.5	316.452	272.845	230.522	284.864	316.825
72.0	307.600	265.694	225.923	278.572	311.731
72.5	298.966	258.613	221.653	272.472	306.889
73.0	290.600	251.593	217.462	266.198	302.020
73.5	282.747	244.763	213.635	260.219	297.187
74.0	275.179	237.812	209.877	254.196	292.431
74.5	267.855	230.965	206.285	248.364	287.476
75.0	261.043	224.213	202.874	242.611	282.460
75.5	254.543	217.592	199.394	236.840	277.019
76.0	248.278	210.875	195.862	231.095	271.300
76.5	242.116	204.315	192.426	225.567	265.278
77.0	236.120	197.780	188.720	220.100	258.943
77.5	229.733	191.211	184.885	214.633	252.200
78.0	223.189	184.711	180.867	209.261	245.440
78.5	216.247	178.290	176.675	203.985	238.298
79.0	208.749	171.720	172.206	198.839	231.026
79.5	200.870	165.377	167.511	193.910	223.441
80.0	192.573	159.007	162.426	188.833	215.761
80.5	183.930	152.655	156.751	183.670	207.795
81.0	175.304	146.537	150.754	178.298	199.672
81.5	166.513	140.228	144.246	172.527	191.133
82.0	157.610	133.771	137.321	166.244	182.368
82.5	148.828	127.176	129.849	159.424	173.117

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CANDELA TABULATION - (Cont.)

83.0	140.167	120.494	122.308	152.177	163.520
83.5	131.437	113.595	114.324	144.419	153.444
84.0	122.802	106.739	106.401	136.210	142.823
84.5	114.142	99.762	98.096	127.402	131.940
85.0	105.065	92.473	89.479	118.012	120.425
85.5	95.892	84.689	80.749	108.119	108.944
86.0	86.086	76.254	71.880	97.627	96.838
86.5	75.533	66.925	62.603	85.869	84.151
87.0	64.547	57.205	53.170	73.494	71.307
87.5	53.144	47.156	43.477	60.217	58.229
88.0	41.073	36.881	33.549	46.124	44.943
88.5	28.889	26.511	23.873	32.083	31.926
89.0	16.610	15.638	14.223	18.545	19.170
89.5	5.276	5.372	5.294	7.394	7.906
90.0	0.234	0.330	0.963	1.137	0.911

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	908.72	N.A.	17.40
0-30	1880.08	N.A.	36.10
0-40	2914.79	N.A.	55.90
0-60	4460.7	N.A.	85.60
0-80	5104.22	N.A.	98.00
0-90	5209.89	N.A.	100.00
10-90	4973.43	N.A.	95.50
20-40	2006.06	N.A.	38.50
20-50	2903.19	N.A.	55.70
40-70	1940.15	N.A.	37.20
60-80	643.51	N.A.	12.40
70-80	249.28	N.A.	4.80
80-90	105.67	N.A.	2.00
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	5209.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	236.46
10-20	672.27
20-30	971.35
30-40	1034.71
40-50	897.12
50-60	648.79
60-70	394.24
70-80	249.28
80-90	105.67
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

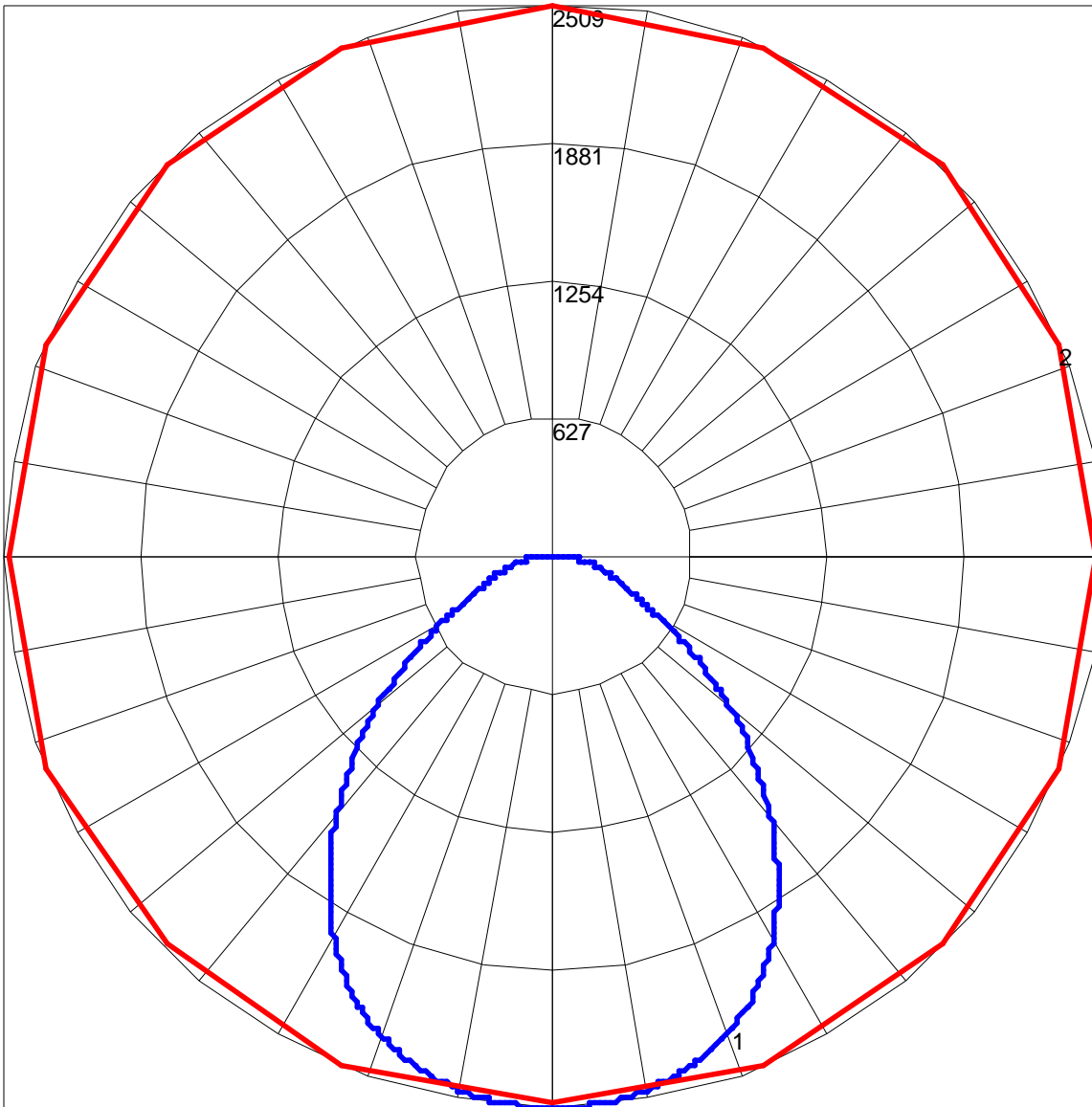
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	103	103	103	103	101	101	101	101	96	96	96	92	92	92	89	89	89	87
1	95	92	88	85	93	90	87	84	86	83	81	83	81	79	79	78	76	75
2	88	81	76	71	85	80	75	71	77	72	69	74	70	67	71	68	66	64
3	81	72	66	61	79	71	65	60	69	64	59	66	62	58	64	60	57	56
4	75	65	58	53	73	64	58	52	62	56	52	60	55	51	58	54	50	49
5	69	59	52	46	67	58	51	46	56	50	46	55	49	45	53	48	45	43
6	64	54	46	41	63	53	46	41	51	45	41	50	44	40	49	44	40	38
7	60	49	42	37	59	48	42	37	47	41	37	46	40	36	45	40	36	34
8	56	45	38	33	55	44	38	33	43	37	33	42	37	33	41	36	33	31
9	53	42	35	30	51	41	35	30	40	34	30	39	34	30	38	33	30	28
10	49	39	32	28	48	38	32	28	37	32	28	37	31	28	36	31	27	26

POLAR GRAPH



Maximum Candela = 2508.645 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.)