



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RG14-LED35DMV35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000657-001
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA
 [LUMCAT] RG14-LED35DMV35
 [LUMINAIRE] Catalog Number: RG14-LED35DMV35
 [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 637mA.
 [MORE] 120.0Vac, 60.0Hz, 0.2916A, 35.00W
 [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 LLIA000657-001 Tuesday, March 5, 2019 3:39 PM
 [ISSUE DATE] Monday, October 10, 2016 1:30:39 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	35
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	5054	4410	3919
55	4041	3314	3089
65	2987	2192	2611
75	2736	2126	2961
85	3270	2785	3748

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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	1900.779	1900.779	1900.779	1900.779	1900.779
0.5	1883.314	1906.663	1902.494	1905.172	1894.527
1.0	1883.123	1906.491	1902.270	1905.047	1894.467
1.5	1882.806	1906.208	1901.907	1904.783	1894.184
2.0	1882.226	1905.561	1901.399	1904.361	1893.617
2.5	1881.362	1904.809	1900.819	1903.695	1892.799
3.0	1880.195	1903.853	1899.981	1902.659	1891.750
3.5	1879.100	1902.626	1898.860	1901.393	1890.517
4.0	1877.701	1901.235	1897.508	1899.823	1888.993
4.5	1876.409	1899.790	1895.978	1897.963	1887.061
5.0	1874.780	1898.299	1894.454	1896.064	1885.247
5.5	1872.999	1896.492	1892.429	1893.729	1882.985
6.0	1871.238	1894.718	1890.424	1891.302	1880.735
6.5	1868.877	1892.502	1888.030	1888.775	1878.255
7.0	1866.535	1890.075	1885.359	1885.959	1875.400
7.5	1864.293	1887.760	1882.701	1883.011	1872.141
8.0	1861.641	1885.293	1879.601	1879.845	1868.942
8.5	1858.726	1882.556	1876.475	1876.494	1865.486
9.0	1855.910	1879.654	1873.052	1872.807	1861.615
9.5	1852.823	1876.514	1869.305	1868.738	1857.756
10.0	1849.664	1873.071	1865.420	1864.464	1853.759
10.5	1846.597	1869.351	1861.364	1860.249	1849.703
11.0	1843.286	1865.321	1857.103	1855.863	1845.515
11.5	1839.460	1861.377	1852.717	1851.603	1841.063
12.0	1835.536	1857.110	1848.180	1847.078	1836.314
12.5	1831.235	1852.493	1843.371	1842.237	1831.427
13.0	1826.764	1847.771	1838.444	1836.901	1825.774
13.5	1822.166	1842.896	1833.254	1831.334	1820.095
14.0	1817.391	1837.818	1827.812	1825.444	1813.922
14.5	1812.313	1832.278	1822.048	1819.086	1807.010
15.0	1807.003	1826.731	1816.171	1812.286	1799.939
15.5	1801.601	1820.953	1809.984	1805.025	1792.064
16.0	1795.903	1814.793	1803.745	1797.248	1783.800
16.5	1790.026	1808.659	1797.169	1789.017	1775.384
17.0	1783.985	1802.155	1790.105	1780.311	1766.295
17.5	1777.455	1795.322	1782.824	1771.222	1756.732
18.0	1770.879	1788.212	1775.133	1761.902	1746.686
18.5	1764.396	1780.911	1767.021	1751.937	1735.870
19.0	1757.371	1773.451	1758.387	1741.456	1724.123
19.5	1750.195	1765.603	1749.364	1730.349	1712.132
20.0	1742.749	1757.470	1740.117	1718.635	1699.502
20.5	1734.913	1749.081	1730.184	1706.216	1685.558
21.0	1727.124	1740.520	1719.987	1693.467	1671.187
21.5	1719.156	1731.668	1709.718	1680.031	1656.340
22.0	1710.358	1722.494	1698.591	1665.692	1640.497
22.5	1701.579	1712.943	1687.062	1650.806	1624.285
23.0	1692.517	1703.037	1675.230	1635.181	1607.546
23.5	1683.177	1692.576	1662.672	1619.035	1589.962
24.0	1673.482	1681.964	1649.975	1602.513	1572.193
24.5	1663.344	1670.995	1636.777	1585.351	1553.897
25.0	1652.481	1659.440	1623.026	1567.425	1534.684
25.5	1641.460	1647.568	1608.700	1549.438	1515.524
26.0	1630.413	1635.564	1594.203	1530.944	1495.829
26.5	1618.745	1622.887	1579.020	1511.665	1475.594

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CANDELA TABULATION - (Cont.)

27.0	1606.761	1609.867	1563.414	1492.261	1455.807
27.5	1594.269	1596.610	1547.262	1472.738	1436.106
28.0	1581.269	1582.726	1530.595	1452.661	1415.779
28.5	1568.322	1568.526	1513.783	1432.703	1395.794
29.0	1554.972	1554.009	1496.390	1412.547	1375.961
29.5	1540.956	1538.945	1478.457	1392.173	1356.115
30.0	1526.888	1523.979	1460.299	1371.990	1336.150
30.5	1512.358	1508.539	1441.963	1351.742	1316.330
31.0	1497.168	1492.347	1422.955	1331.190	1296.240
31.5	1482.038	1476.207	1403.874	1310.935	1276.578
32.0	1466.769	1459.903	1384.641	1290.838	1257.029
32.5	1450.537	1443.058	1364.973	1270.616	1237.203
33.0	1434.451	1426.226	1345.206	1250.499	1217.765
33.5	1418.094	1409.044	1325.069	1230.422	1198.058
34.0	1401.275	1391.487	1304.702	1210.002	1178.218
34.5	1384.707	1374.180	1284.526	1190.123	1158.689
35.0	1367.624	1356.642	1264.198	1170.145	1138.961
35.5	1349.829	1338.511	1243.587	1149.752	1118.825
36.0	1332.463	1320.426	1223.108	1129.985	1098.959
36.5	1314.774	1302.407	1203.150	1110.066	1079.515
37.0	1296.649	1283.721	1182.670	1089.936	1059.669
37.5	1278.649	1265.432	1162.415	1070.077	1040.377
38.0	1260.479	1246.852	1142.450	1050.336	1021.164
38.5	1241.846	1227.949	1122.281	1030.391	1001.918
39.0	1223.688	1209.264	1102.560	1011.059	983.160
39.5	1205.425	1190.255	1082.793	991.747	964.481
40.0	1186.548	1170.792	1062.828	972.501	945.822
40.5	1168.074	1151.598	1043.523	953.875	927.836
41.0	1149.428	1132.405	1024.204	935.368	909.929
41.5	1130.697	1112.671	1004.873	916.894	892.187
42.0	1112.124	1093.359	985.679	898.994	874.847
42.5	1093.452	1073.843	966.737	881.291	857.916
43.0	1074.793	1054.221	947.610	863.648	841.058
43.5	1056.589	1034.599	929.036	846.453	824.424
44.0	1038.121	1014.938	910.457	829.469	808.165
44.5	1019.205	995.032	891.765	812.406	791.986
45.0	1001.219	975.654	873.587	796.115	776.282
45.5	983.134	956.098	855.416	779.837	760.671
46.0	964.851	936.384	837.265	763.408	745.131
46.5	946.983	916.960	819.484	747.506	729.961
47.0	929.109	897.608	801.867	731.709	714.970
47.5	911.129	878.158	784.078	715.794	699.978
48.0	893.598	858.747	766.600	700.228	685.336
48.5	875.810	839.475	749.346	684.782	670.707
49.0	858.035	820.057	731.934	669.229	656.031
49.5	840.728	801.095	714.943	654.092	641.956
50.0	823.335	782.159	698.026	638.896	627.941
50.5	805.409	763.078	680.943	623.535	613.681
51.0	788.260	744.353	664.302	608.721	600.022
51.5	770.907	725.720	647.701	594.026	586.441
52.0	753.402	706.864	630.856	579.239	572.821
52.5	735.990	688.403	614.360	564.682	559.696
53.0	718.670	669.988	597.898	550.363	546.696
53.5	701.205	651.553	581.330	536.143	533.723
54.0	683.970	633.633	565.131	522.358	521.211
54.5	666.743	615.660	549.031	508.672	508.778

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55.0	649.304	597.594	532.588	495.125	496.312
55.5	632.294	580.156	516.778	482.125	484.579
56.0	615.290	562.836	500.982	469.382	472.984
56.5	598.082	545.370	485.067	456.627	461.336
57.0	581.349	528.578	469.508	444.392	450.275
57.5	564.854	511.964	454.028	432.427	439.373
58.0	548.207	495.429	438.720	420.608	428.602
58.5	532.067	479.447	423.708	409.250	418.346
59.0	516.106	463.763	408.874	398.143	408.268
59.5	500.309	448.257	394.166	387.069	398.440
60.0	485.007	433.351	380.038	376.668	388.949
60.5	469.950	418.715	366.181	366.372	379.761
61.0	455.149	404.297	352.489	356.281	370.686
61.5	440.896	390.539	339.370	346.638	362.079
62.0	427.078	377.196	326.641	337.306	353.755
62.5	413.505	364.117	314.195	328.157	345.543
63.0	400.689	351.671	302.382	319.550	337.840
63.5	388.191	339.627	290.958	311.227	330.248
64.0	376.180	327.953	279.878	303.147	322.868
64.5	364.658	316.958	269.490	295.595	315.923
65.0	353.649	306.326	259.497	288.373	309.175
65.5	342.899	296.050	249.960	281.289	302.540
66.0	332.755	286.381	241.043	274.773	296.294
66.5	322.894	277.200	232.627	268.467	290.246
67.0	313.278	268.382	224.633	262.452	284.251
67.5	304.196	260.104	217.213	256.727	278.638
68.0	295.298	252.242	210.393	251.325	273.229
68.5	286.678	244.756	203.923	246.075	267.913
69.0	278.446	237.791	198.079	241.036	262.887
69.5	270.420	231.097	192.605	236.063	258.092
70.0	262.584	224.706	187.638	231.044	253.396
70.5	255.085	218.750	183.160	226.190	248.977
71.0	247.757	213.018	179.104	221.368	244.796
71.5	240.515	207.372	175.206	216.507	240.799
72.0	233.788	201.937	171.710	211.725	236.927
72.5	227.225	196.555	168.465	207.089	233.247
73.0	220.867	191.220	165.279	202.320	229.547
73.5	214.898	186.029	162.370	197.776	225.873
74.0	209.146	180.746	159.515	193.198	222.259
74.5	203.580	175.542	156.784	188.766	218.492
75.0	198.402	170.411	154.192	184.393	214.680
75.5	193.462	165.378	151.547	180.007	210.545
76.0	188.700	160.273	148.863	175.641	206.198
76.5	184.017	155.287	146.251	171.439	201.621
77.0	179.460	150.320	143.435	167.284	196.806
77.5	174.605	145.327	140.519	163.129	191.681
78.0	169.632	140.387	137.466	159.046	186.543
78.5	164.356	135.507	134.280	155.036	181.115
79.0	158.657	130.514	130.883	151.125	175.588
79.5	152.668	125.692	127.315	147.379	169.824
80.0	146.363	120.851	123.450	143.520	163.986
80.5	139.794	116.023	119.136	139.596	157.932
81.0	133.238	111.373	114.579	135.513	151.758
81.5	126.556	106.578	109.632	131.127	145.268
82.0	119.789	101.671	104.369	126.352	138.607
82.5	113.115	96.659	98.690	121.168	131.576

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CANDELA TABULATION - (Cont.)

83.0	106.532	91.580	92.958	115.660	124.281
83.5	99.897	86.336	86.890	109.764	116.623
84.0	93.334	81.126	80.869	103.525	108.550
84.5	86.752	75.823	74.557	96.830	100.280
85.0	79.853	70.283	68.007	89.694	91.527
85.5	72.881	64.366	61.372	82.175	82.801
86.0	65.428	57.956	54.631	74.201	73.600
86.5	57.408	50.865	47.581	65.263	63.958
87.0	49.058	43.478	40.411	55.858	54.196
87.5	40.391	35.840	33.044	45.767	44.256
88.0	31.217	28.031	25.499	35.056	34.159
88.5	21.957	20.150	18.144	24.384	24.265
89.0	12.624	11.885	10.810	14.095	14.570
89.5	4.010	4.083	4.023	5.619	6.009
90.0	0.178	0.251	0.732	0.864	0.693

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	690.66	N.A.	17.40
0-30	1428.93	N.A.	36.10
0-40	2215.35	N.A.	55.90
0-60	3390.3	N.A.	85.60
0-80	3879.39	N.A.	98.00
0-90	3959.7	N.A.	100.00
10-90	3779.99	N.A.	95.50
20-40	1524.68	N.A.	38.50
20-50	2206.53	N.A.	55.70
40-70	1474.58	N.A.	37.20
60-80	489.09	N.A.	12.40
70-80	189.46	N.A.	4.80
80-90	80.31	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	3959.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.72
10-20	510.95
20-30	738.26
30-40	786.42
40-50	681.85
50-60	493.11
60-70	299.63
70-80	189.46
80-90	80.31
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

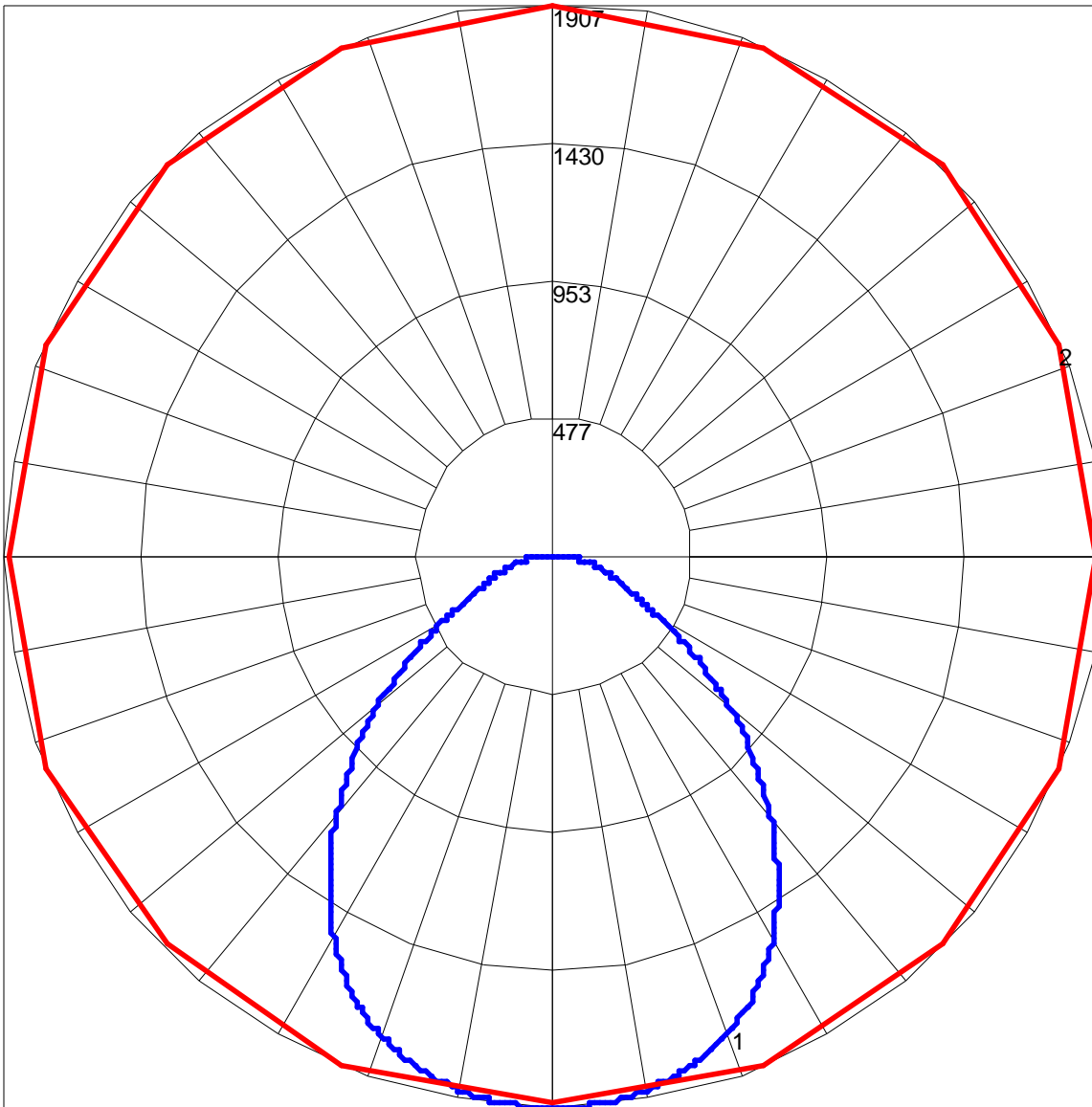
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 1906.663 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.)