



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RG14-LED35DMV50.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-LED35DMV50
 [LUMINAIRE] Catalog Number: RG14-LED35DMV50
 [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 M10CC850D32N2S 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	4210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	5373	4688	4166
55	4296	3523	3284
65	3175	2330	2776
75	2909	2261	3148
85	3477	2961	3985

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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	2020.752	2020.752	2020.752	2020.752	2020.752
0.5	2002.185	2027.007	2022.576	2025.422	2014.105
1.0	2001.982	2026.825	2022.337	2025.289	2014.042
1.5	2001.645	2026.523	2021.951	2025.009	2013.741
2.0	2001.028	2025.836	2021.412	2024.560	2013.138
2.5	2000.109	2025.037	2020.795	2023.852	2012.268
3.0	1998.868	2024.020	2019.904	2022.751	2011.153
3.5	1997.704	2022.716	2018.712	2021.405	2009.842
4.0	1996.218	2021.236	2017.275	2019.736	2008.222
4.5	1994.843	2019.701	2015.648	2017.758	2006.168
5.0	1993.112	2018.116	2014.028	2015.739	2004.239
5.5	1991.218	2016.195	2011.875	2013.257	2001.834
6.0	1989.346	2014.308	2009.744	2010.676	1999.443
6.5	1986.836	2011.952	2007.198	2007.991	1996.807
7.0	1984.347	2009.372	2004.359	2004.997	1993.771
7.5	1981.963	2006.911	2001.533	2001.862	1990.307
8.0	1979.144	2004.288	1998.237	1998.497	1986.906
8.5	1976.045	2001.379	1994.914	1994.935	1983.232
9.0	1973.050	1998.293	1991.274	1991.015	1979.116
9.5	1969.769	1994.956	1987.292	1986.689	1975.014
10.0	1966.410	1991.295	1983.162	1982.145	1970.765
10.5	1963.150	1987.341	1978.849	1977.664	1966.452
11.0	1959.630	1983.056	1974.320	1973.001	1962.000
11.5	1955.563	1978.863	1969.657	1968.472	1957.267
12.0	1951.391	1974.327	1964.833	1963.662	1952.218
12.5	1946.819	1969.418	1959.721	1958.515	1947.022
13.0	1942.065	1964.398	1954.483	1952.842	1941.013
13.5	1937.178	1959.216	1948.965	1946.924	1934.976
14.0	1932.101	1953.817	1943.180	1940.663	1928.413
14.5	1926.702	1947.927	1937.051	1933.903	1921.064
15.0	1921.057	1942.030	1930.804	1926.674	1913.547
15.5	1915.314	1935.887	1924.227	1918.954	1905.175
16.0	1909.256	1929.338	1917.593	1910.687	1896.389
16.5	1903.009	1922.817	1910.602	1901.936	1887.442
17.0	1896.586	1915.903	1903.093	1892.680	1877.780
17.5	1889.644	1908.639	1895.352	1883.018	1867.613
18.0	1882.653	1901.080	1887.176	1873.110	1856.933
18.5	1875.760	1893.318	1878.551	1862.515	1845.434
19.0	1868.293	1885.388	1869.373	1851.373	1832.946
19.5	1860.664	1877.044	1859.780	1839.565	1820.198
20.0	1852.747	1868.398	1849.950	1827.112	1806.770
20.5	1844.417	1859.479	1839.390	1813.908	1791.947
21.0	1836.136	1850.377	1828.549	1800.354	1776.668
21.5	1827.666	1840.967	1817.632	1786.071	1760.884
22.0	1818.312	1831.214	1805.803	1770.827	1744.042
22.5	1808.979	1821.061	1793.546	1755.001	1726.807
23.0	1799.345	1810.529	1780.966	1738.390	1709.010
23.5	1789.416	1799.408	1767.616	1721.225	1690.317
24.0	1779.108	1788.126	1754.118	1703.660	1671.427
24.5	1768.331	1776.465	1740.087	1685.415	1651.976
25.0	1756.782	1764.180	1725.467	1666.357	1631.550
25.5	1745.066	1751.559	1710.237	1647.236	1611.180
26.0	1733.321	1738.797	1694.825	1627.574	1590.243
26.5	1720.917	1725.320	1678.684	1607.078	1568.730

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27.0	1708.176	1711.479	1662.094	1586.449	1547.695
27.5	1694.895	1697.385	1644.922	1565.694	1526.750
28.0	1681.075	1682.625	1627.203	1544.350	1505.139
28.5	1667.311	1667.528	1609.329	1523.132	1483.893
29.0	1653.119	1652.095	1590.839	1501.704	1462.809
29.5	1638.218	1636.080	1571.773	1480.044	1441.710
30.0	1623.262	1620.170	1552.470	1458.587	1420.485
30.5	1607.815	1603.755	1532.977	1437.061	1399.414
31.0	1591.666	1586.541	1512.768	1415.212	1378.056
31.5	1575.581	1569.382	1492.483	1393.678	1357.153
32.0	1559.348	1552.049	1472.036	1372.313	1336.370
32.5	1542.092	1534.141	1451.127	1350.814	1315.292
33.0	1524.990	1516.246	1430.112	1329.428	1294.628
33.5	1507.601	1497.980	1408.705	1308.084	1273.677
34.0	1489.720	1479.315	1387.052	1286.375	1252.585
34.5	1472.106	1460.915	1365.603	1265.241	1231.823
35.0	1453.946	1442.271	1343.992	1244.002	1210.850
35.5	1435.027	1422.995	1322.080	1222.321	1189.443
36.0	1416.565	1403.768	1300.308	1201.307	1168.323
36.5	1397.759	1384.612	1279.090	1180.131	1147.652
37.0	1378.490	1364.747	1257.318	1158.730	1126.553
37.5	1359.355	1345.303	1235.784	1137.618	1106.043
38.0	1340.037	1325.551	1214.559	1116.631	1085.617
38.5	1320.229	1305.454	1193.117	1095.427	1065.157
39.0	1300.925	1285.590	1172.151	1074.875	1045.215
39.5	1281.509	1265.381	1151.137	1054.344	1025.357
40.0	1261.441	1244.689	1129.912	1033.884	1005.520
40.5	1241.800	1224.285	1109.388	1014.082	986.399
41.0	1221.978	1203.880	1088.850	994.407	967.362
41.5	1202.064	1182.901	1068.298	974.766	948.500
42.0	1182.319	1162.370	1047.893	955.736	930.065
42.5	1162.468	1141.621	1027.755	936.916	912.066
43.0	1142.631	1120.761	1007.421	918.159	894.143
43.5	1123.278	1099.901	987.675	899.879	876.459
44.0	1103.645	1078.998	967.923	881.824	859.175
44.5	1083.535	1057.836	948.051	863.684	841.975
45.0	1064.413	1037.235	928.726	846.364	825.280
45.5	1045.187	1016.445	909.408	829.059	808.682
46.0	1025.750	995.486	890.112	811.592	792.162
46.5	1006.755	974.836	871.208	794.687	776.035
47.0	987.752	954.263	852.479	777.893	760.097
47.5	968.638	933.585	833.568	760.973	744.159
48.0	950.000	912.949	814.986	744.425	728.592
48.5	931.089	892.461	796.643	728.004	713.040
49.0	912.192	871.818	778.132	711.469	697.439
49.5	893.793	851.658	760.069	695.377	682.475
50.0	875.302	831.527	742.083	679.222	667.575
50.5	856.244	811.242	723.923	662.891	652.415
51.0	838.013	791.335	706.232	647.142	637.894
51.5	819.565	771.526	688.583	631.520	623.456
52.0	800.955	751.479	670.674	615.799	608.976
52.5	782.444	731.853	653.137	600.324	595.023
53.0	764.031	712.276	635.636	585.101	581.202
53.5	745.463	692.678	618.022	569.983	567.410
54.0	727.141	673.626	600.801	555.328	554.108
54.5	708.826	654.519	583.685	540.779	540.891

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55.0	690.286	635.313	566.204	526.376	527.638
55.5	672.203	616.774	549.396	512.556	515.164
56.0	654.126	598.360	532.603	499.009	502.837
56.5	635.832	579.793	515.683	485.448	490.454
57.0	618.043	561.941	499.142	472.441	478.695
57.5	600.506	544.278	482.685	459.721	467.105
58.0	582.808	526.699	466.411	447.156	455.654
58.5	565.650	509.709	450.451	435.081	444.751
59.0	548.681	493.035	434.682	423.273	434.037
59.5	531.888	476.550	419.045	411.500	423.589
60.0	515.620	460.703	404.026	400.443	413.499
60.5	499.612	445.143	389.294	389.497	403.731
61.0	483.877	429.815	374.737	378.769	394.083
61.5	468.724	415.189	360.790	368.517	384.932
62.0	454.035	401.004	347.257	358.596	376.083
62.5	439.604	387.099	334.026	348.870	367.353
63.0	425.980	373.867	321.468	339.720	359.164
63.5	412.692	361.064	309.323	330.871	351.093
64.0	399.924	348.653	297.543	322.281	343.247
64.5	387.674	336.964	286.499	314.252	335.863
65.0	375.971	325.661	275.876	306.574	328.690
65.5	364.542	314.736	265.737	299.044	321.636
66.0	353.757	304.457	256.257	292.116	314.996
66.5	343.275	294.696	247.310	285.412	308.566
67.0	333.051	285.321	238.811	279.018	302.192
67.5	323.396	276.521	230.923	272.931	296.225
68.0	313.937	268.163	223.673	267.188	290.475
68.5	304.772	260.205	216.794	261.607	284.823
69.0	296.021	252.800	210.581	256.250	279.480
69.5	287.488	245.683	204.762	250.963	274.383
70.0	279.158	238.888	199.482	245.627	269.390
70.5	271.185	232.557	194.720	240.466	264.692
71.0	263.395	226.463	190.408	235.340	260.247
71.5	255.696	220.461	186.264	230.173	255.997
72.0	248.544	214.683	182.548	225.089	251.881
72.5	241.567	208.962	179.098	220.160	247.969
73.0	234.807	203.289	175.711	215.090	244.035
73.5	228.462	197.771	172.619	210.259	240.130
74.0	222.347	192.154	169.583	205.393	236.287
74.5	216.429	186.622	166.680	200.681	232.283
75.0	210.925	181.166	163.924	196.032	228.230
75.5	205.673	175.816	161.112	191.369	223.834
76.0	200.610	170.389	158.259	186.727	219.213
76.5	195.632	165.088	155.482	182.260	214.347
77.0	190.787	159.808	152.488	177.843	209.228
77.5	185.626	154.500	149.389	173.425	203.780
78.0	180.339	149.248	146.142	169.085	198.318
78.5	174.730	144.059	142.755	164.822	192.547
79.0	168.671	138.751	139.144	160.664	186.671
79.5	162.304	133.626	135.351	156.681	180.542
80.0	155.601	128.479	131.242	152.579	174.337
80.5	148.617	123.346	126.656	148.407	167.900
81.0	141.647	118.403	121.811	144.066	161.337
81.5	134.544	113.305	116.552	139.404	154.437
82.0	127.350	108.088	110.956	134.327	147.355
82.5	120.254	102.759	104.919	128.816	139.880

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CANDELA TABULATION - (Cont.)

83.0	113.256	97.360	98.826	122.961	132.125
83.5	106.202	91.786	92.375	116.692	123.984
84.0	99.225	86.246	85.973	110.059	115.402
84.5	92.228	80.609	79.263	102.942	106.609
85.0	84.893	74.719	72.300	95.355	97.304
85.5	77.481	68.429	65.246	87.361	88.027
86.0	69.558	61.614	58.080	78.884	78.246
86.5	61.032	54.076	50.584	69.383	67.994
87.0	52.155	46.222	42.962	59.384	57.617
87.5	42.941	38.103	35.130	48.656	47.050
88.0	33.187	29.801	27.108	37.268	36.315
88.5	23.343	21.421	19.290	25.923	25.797
89.0	13.421	12.635	11.493	14.984	15.489
89.5	4.263	4.340	4.277	5.974	6.388
90.0	0.189	0.266	0.778	0.919	0.736

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	734.26	N.A.	17.40
0-30	1519.12	N.A.	36.10
0-40	2355.17	N.A.	55.90
0-60	3604.29	N.A.	85.60
0-80	4124.25	N.A.	98.00
0-90	4209.63	N.A.	100.00
10-90	4018.57	N.A.	95.50
20-40	1620.92	N.A.	38.50
20-50	2345.8	N.A.	55.70
40-70	1567.66	N.A.	37.20
60-80	519.97	N.A.	12.40
70-80	201.42	N.A.	4.80
80-90	85.38	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	4209.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.06
10-20	543.20
20-30	784.86
30-40	836.06
40-50	724.88
50-60	524.23
60-70	318.55
70-80	201.42
80-90	85.38
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

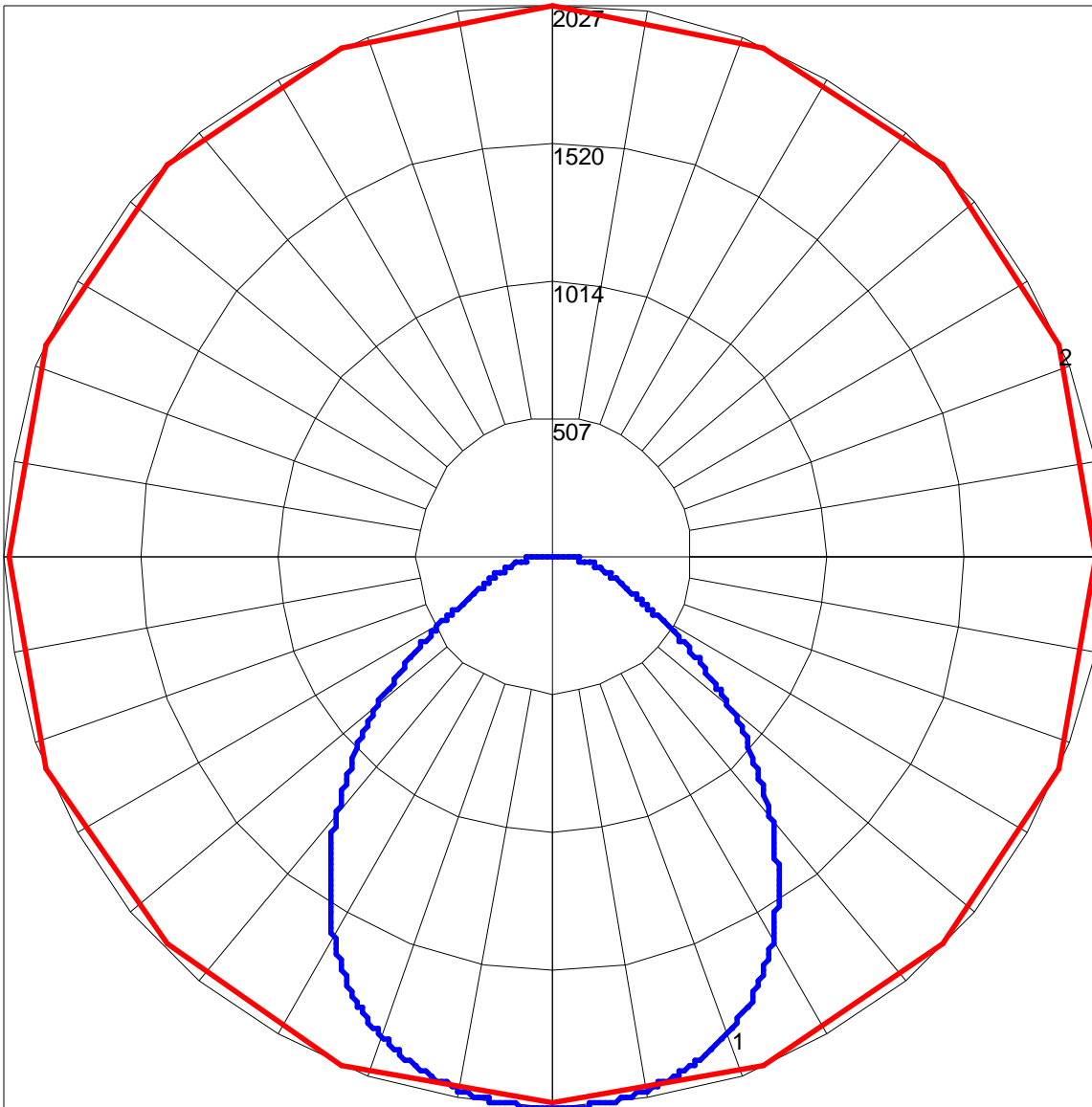
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2027.007 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.)