



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RG14-LED35DMV40.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-LED35DMV40
 [LUMINAIRE] Catalog Number: RG14-LED35DMV40
 [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 M10CC840D32N2S 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	4090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	5220	4554	4047
55	4173	3423	3190
65	3085	2264	2697
75	2826	2196	3058
85	3378	2877	3871

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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	1963.172	1963.172	1963.172	1963.172	1963.172
0.5	1945.134	1969.249	1964.943	1967.709	1956.714
1.0	1944.936	1969.072	1964.712	1967.580	1956.653
1.5	1944.609	1968.779	1964.337	1967.307	1956.360
2.0	1944.010	1968.111	1963.813	1966.871	1955.774
2.5	1943.117	1967.334	1963.213	1966.183	1954.930
3.0	1941.912	1966.347	1962.348	1965.114	1953.846
3.5	1940.781	1965.080	1961.190	1963.806	1952.573
4.0	1939.337	1963.642	1959.793	1962.184	1950.999
4.5	1938.002	1962.150	1958.213	1960.263	1949.003
5.0	1936.319	1960.611	1956.639	1958.302	1947.130
5.5	1934.480	1958.744	1954.548	1955.890	1944.793
6.0	1932.661	1956.912	1952.477	1953.383	1942.470
6.5	1930.222	1954.623	1950.004	1950.774	1939.909
7.0	1927.804	1952.116	1947.246	1947.865	1936.959
7.5	1925.488	1949.725	1944.500	1944.820	1933.594
8.0	1922.749	1947.177	1941.299	1941.551	1930.290
8.5	1919.738	1944.350	1938.070	1938.090	1926.721
9.0	1916.830	1941.353	1934.534	1934.282	1922.722
9.5	1913.641	1938.111	1930.665	1930.079	1918.737
10.0	1910.378	1934.555	1926.653	1925.665	1914.609
10.5	1907.211	1930.713	1922.463	1921.312	1910.419
11.0	1903.791	1926.550	1918.063	1916.782	1906.094
11.5	1899.840	1922.477	1913.532	1912.381	1901.495
12.0	1895.787	1918.069	1908.846	1907.708	1896.591
12.5	1891.345	1913.301	1903.880	1902.708	1891.543
13.0	1886.727	1908.423	1898.791	1897.197	1885.705
13.5	1881.979	1903.389	1893.430	1891.448	1879.840
14.0	1877.047	1898.144	1887.810	1885.364	1873.464
14.5	1871.802	1892.422	1881.856	1878.798	1866.325
15.0	1866.318	1886.693	1875.787	1871.774	1859.022
15.5	1860.739	1880.725	1869.397	1864.274	1850.888
16.0	1854.853	1874.363	1862.953	1856.243	1842.353
16.5	1848.783	1868.028	1856.161	1847.741	1833.661
17.0	1842.544	1861.311	1848.865	1838.749	1824.274
17.5	1835.800	1854.254	1841.345	1829.362	1814.396
18.0	1829.008	1846.910	1833.402	1819.737	1804.021
18.5	1822.312	1839.369	1825.023	1809.444	1792.849
19.0	1815.057	1831.665	1816.106	1798.619	1780.717
19.5	1807.645	1823.558	1806.787	1787.148	1768.333
20.0	1799.954	1815.159	1797.236	1775.049	1755.287
20.5	1791.862	1806.494	1786.977	1762.222	1740.887
21.0	1783.816	1797.652	1776.446	1749.054	1726.043
21.5	1775.587	1788.510	1765.839	1735.178	1710.709
22.0	1766.500	1779.034	1754.347	1720.369	1694.346
22.5	1757.433	1769.170	1742.440	1704.994	1677.602
23.0	1748.073	1758.939	1730.219	1688.856	1660.313
23.5	1738.427	1748.135	1717.249	1672.180	1642.152
24.0	1728.414	1737.174	1704.135	1655.115	1623.800
24.5	1717.943	1725.845	1690.504	1637.390	1604.903
25.0	1706.724	1713.911	1676.301	1618.875	1585.060
25.5	1695.341	1701.649	1661.505	1600.298	1565.271
26.0	1683.931	1689.251	1646.532	1581.197	1544.930
26.5	1671.880	1676.158	1630.851	1561.286	1524.030

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CANDELA TABULATION - (Cont.)

27.0	1659.502	1662.711	1614.733	1541.244	1503.594
27.5	1646.600	1649.019	1598.050	1521.081	1483.246
28.0	1633.174	1634.679	1580.836	1500.345	1462.251
28.5	1619.802	1620.013	1563.472	1479.731	1441.611
29.0	1606.014	1605.019	1545.509	1458.913	1421.127
29.5	1591.538	1589.460	1526.987	1437.871	1400.629
30.0	1577.008	1574.004	1508.233	1417.026	1380.009
30.5	1562.001	1558.057	1489.295	1396.113	1359.538
31.0	1546.313	1541.333	1469.663	1374.886	1338.789
31.5	1530.686	1524.664	1449.955	1353.966	1318.482
32.0	1514.916	1507.824	1430.091	1333.210	1298.291
32.5	1498.151	1490.426	1409.778	1312.324	1277.814
33.0	1481.536	1473.042	1389.362	1291.547	1257.738
33.5	1464.642	1455.296	1368.564	1270.811	1237.384
34.0	1447.271	1437.162	1347.529	1249.721	1216.893
34.5	1430.159	1419.287	1326.690	1229.189	1196.722
35.0	1412.516	1401.174	1305.696	1208.555	1176.347
35.5	1394.137	1382.448	1284.408	1187.492	1155.550
36.0	1376.201	1363.769	1263.256	1167.076	1135.032
36.5	1357.931	1345.158	1242.643	1146.504	1114.950
37.0	1339.211	1325.859	1221.491	1125.713	1094.452
37.5	1320.621	1306.969	1200.571	1105.202	1074.527
38.0	1301.854	1287.780	1179.951	1084.813	1054.683
38.5	1282.609	1268.256	1159.120	1064.213	1034.806
39.0	1263.856	1248.958	1138.751	1044.247	1015.432
39.5	1244.993	1229.325	1118.336	1024.301	996.140
40.0	1225.497	1209.223	1097.715	1004.424	976.869
40.5	1206.416	1189.399	1077.776	985.186	958.292
41.0	1187.158	1169.576	1057.824	966.072	939.797
41.5	1167.812	1149.194	1037.857	946.991	921.473
42.0	1148.629	1129.249	1018.034	928.503	903.564
42.5	1129.344	1109.092	998.470	910.219	886.077
43.0	1110.073	1088.826	978.715	891.997	868.665
43.5	1091.271	1068.560	959.532	874.238	851.485
44.0	1072.197	1048.253	940.342	856.696	834.693
44.5	1052.660	1027.694	921.037	839.074	817.983
45.0	1034.084	1007.680	902.263	822.248	801.764
45.5	1015.405	987.482	883.495	805.435	785.639
46.0	996.522	967.121	864.748	788.466	769.590
46.5	978.068	947.059	846.383	772.043	753.922
47.0	959.607	927.072	828.188	755.728	738.438
47.5	941.037	906.983	809.816	739.290	722.955
48.0	922.931	886.935	791.764	723.213	707.832
48.5	904.558	867.030	773.943	707.259	692.722
49.0	886.200	846.976	755.959	691.197	677.566
49.5	868.325	827.391	738.411	675.563	663.028
50.0	850.361	807.833	720.938	659.868	648.553
50.5	831.846	788.126	703.295	644.002	633.825
51.0	814.134	768.786	686.108	628.702	619.717
51.5	796.212	749.542	668.962	613.525	605.691
52.0	778.133	730.066	651.564	598.252	591.624
52.5	760.149	710.999	634.527	583.218	578.068
53.0	742.260	691.980	617.524	568.429	564.641
53.5	724.222	672.940	600.412	553.742	551.242
54.0	706.422	654.432	583.681	539.505	538.319
54.5	688.628	635.869	567.053	525.370	525.479

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55.0	670.617	617.210	550.070	511.378	512.604
55.5	653.049	599.199	533.742	497.951	500.485
56.0	635.487	581.311	517.427	484.790	488.509
56.5	617.714	563.272	500.989	471.615	476.479
57.0	600.432	545.928	484.919	458.979	465.055
57.5	583.395	528.769	468.931	446.622	453.795
58.0	566.201	511.691	453.120	434.414	442.671
58.5	549.532	495.185	437.616	422.684	432.078
59.0	533.047	478.986	422.296	411.212	421.669
59.5	516.732	462.971	407.105	399.775	411.519
60.0	500.928	447.575	392.513	389.032	401.716
60.5	485.376	432.459	378.201	378.399	392.227
61.0	470.089	417.568	364.059	367.976	382.854
61.5	455.368	403.358	350.510	358.017	373.964
62.0	441.097	389.577	337.362	348.378	365.367
62.5	427.078	376.069	324.508	338.929	356.886
63.0	413.842	363.214	312.308	330.039	348.929
63.5	400.933	350.775	300.509	321.443	341.089
64.0	388.528	338.718	289.065	313.098	333.466
64.5	376.627	327.362	278.336	305.298	326.293
65.0	365.258	316.381	268.015	297.839	319.324
65.5	354.154	305.768	258.165	290.522	312.471
66.0	343.677	295.781	248.955	283.792	306.020
66.5	333.493	286.299	240.263	277.280	299.773
67.0	323.561	277.191	232.006	271.067	293.581
67.5	314.181	268.642	224.343	265.154	287.784
68.0	304.991	260.522	217.299	259.575	282.198
68.5	296.088	252.790	210.617	254.153	276.707
69.0	287.586	245.597	204.581	248.948	271.517
69.5	279.296	238.682	198.927	243.812	266.564
70.0	271.203	232.081	193.797	238.628	261.714
70.5	263.458	225.930	189.172	233.614	257.150
71.0	255.890	220.010	184.983	228.635	252.831
71.5	248.410	214.179	180.957	223.614	248.703
72.0	241.462	208.566	177.346	218.675	244.704
72.5	234.684	203.007	173.995	213.886	240.903
73.0	228.117	197.496	170.704	208.961	237.082
73.5	221.952	192.135	167.700	204.268	233.287
74.0	216.012	186.679	164.751	199.540	229.554
74.5	210.262	181.304	161.930	194.962	225.664
75.0	204.915	176.004	159.253	190.446	221.727
75.5	199.813	170.807	156.522	185.916	217.456
76.0	194.894	165.534	153.749	181.406	212.967
76.5	190.058	160.384	151.052	177.067	208.239
77.0	185.350	155.255	148.143	172.775	203.266
77.5	180.337	150.098	145.132	168.484	197.973
78.0	175.200	144.996	141.978	164.267	192.667
78.5	169.751	139.955	138.688	160.125	187.060
79.0	163.865	134.798	135.179	156.086	181.352
79.5	157.680	129.818	131.494	152.216	175.398
80.0	151.167	124.818	127.502	148.231	169.369
80.5	144.382	119.832	123.047	144.178	163.116
81.0	137.611	115.029	118.340	139.961	156.740
81.5	130.711	110.077	113.231	135.431	150.036
82.0	123.721	105.009	107.795	130.499	143.156
82.5	116.828	99.831	101.929	125.145	135.895

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CANDELA TABULATION - (Cont.)

83.0	110.029	94.586	96.010	119.457	128.360
83.5	103.176	89.170	89.743	113.367	120.452
84.0	96.398	83.789	83.523	106.923	112.114
84.5	89.600	78.312	77.004	100.008	103.571
85.0	82.474	72.590	70.240	92.638	94.532
85.5	75.274	66.479	63.387	84.872	85.519
86.0	67.576	59.858	56.425	76.636	76.016
86.5	59.293	52.535	49.142	67.406	66.057
87.0	50.668	44.905	41.738	57.692	55.975
87.5	41.717	37.017	34.129	47.269	45.709
88.0	32.242	28.951	26.336	36.206	35.280
88.5	22.677	20.811	18.740	25.184	25.062
89.0	13.038	12.275	11.165	14.557	15.048
89.5	4.142	4.217	4.155	5.804	6.206
90.0	0.184	0.259	0.756	0.892	0.715

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	713.33	N.A.	17.40
0-30	1475.83	N.A.	36.10
0-40	2288.07	N.A.	55.90
0-60	3501.58	N.A.	85.60
0-80	4006.73	N.A.	98.00
0-90	4089.68	N.A.	100.00
10-90	3904.07	N.A.	95.50
20-40	1574.73	N.A.	38.50
20-50	2278.96	N.A.	55.70
40-70	1522.99	N.A.	37.20
60-80	505.15	N.A.	12.40
70-80	195.68	N.A.	4.80
80-90	82.95	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	4089.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.62
10-20	527.72
20-30	762.50
30-40	812.23
40-50	704.23
50-60	509.29
60-70	309.47
70-80	195.68
80-90	82.95
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

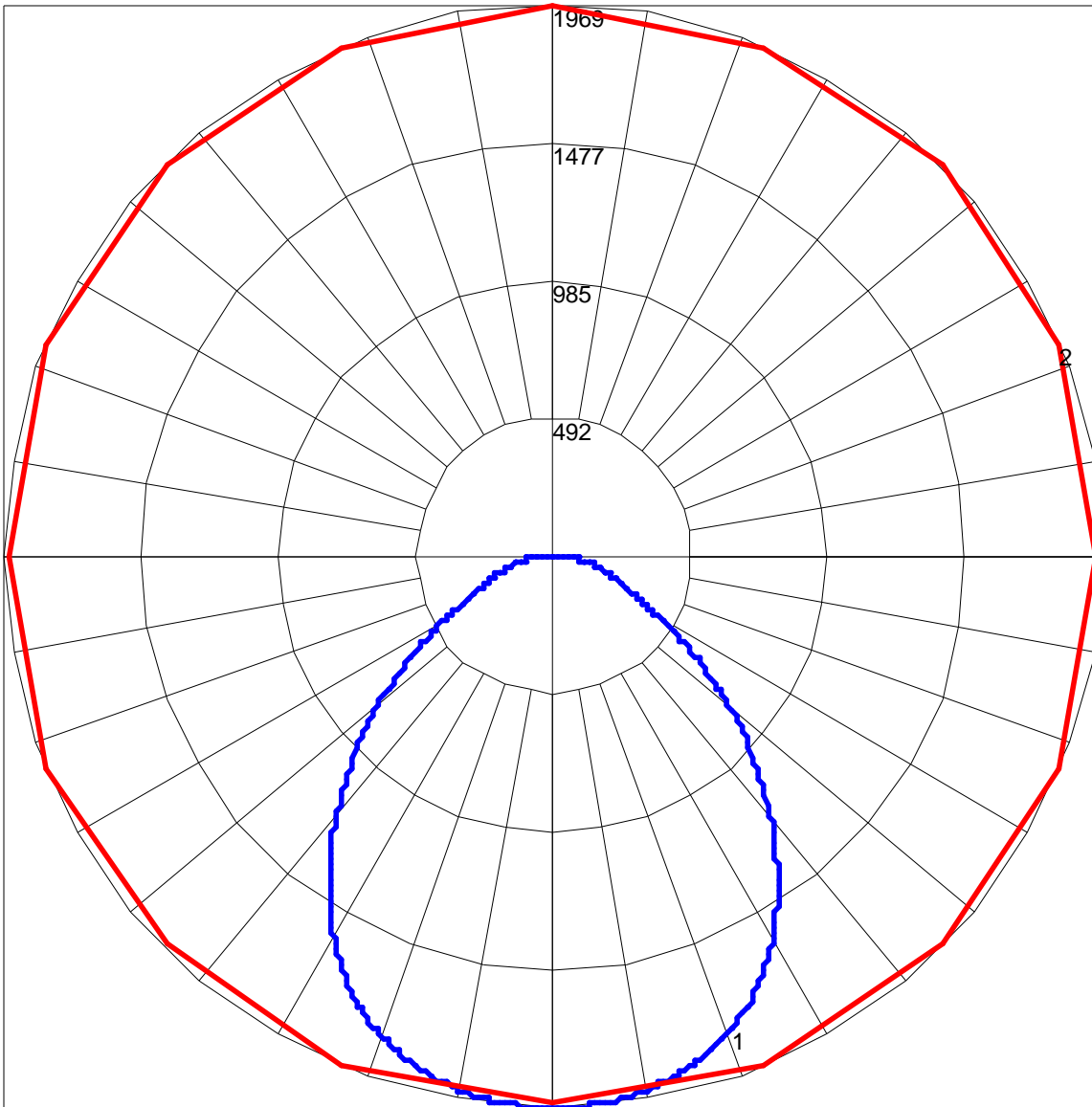
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1969.249 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.)