



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RG14-LED35DMV30.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-LED35DMV30
 [LUMINAIRE] Catalog Number: RG14-LED35DMV30
 [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 M10CC830D32N2S 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	3895
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	4971	4337	3854
55	3974	3260	3038
65	2938	2156	2568
75	2691	2092	2912
85	3217	2739	3687

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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	1869.568	1869.568	1869.568	1869.568	1869.568
0.5	1852.390	1875.355	1871.255	1873.889	1863.418
1.0	1852.202	1875.186	1871.035	1873.766	1863.360
1.5	1851.891	1874.907	1870.678	1873.506	1863.081
2.0	1851.320	1874.272	1870.178	1873.091	1862.523
2.5	1850.470	1873.532	1869.607	1872.436	1861.719
3.0	1849.322	1872.592	1868.783	1871.417	1860.687
3.5	1848.245	1871.385	1867.681	1870.172	1859.474
4.0	1846.869	1870.016	1866.351	1868.628	1857.976
4.5	1845.598	1868.595	1864.846	1866.798	1856.075
5.0	1843.996	1867.129	1863.347	1864.930	1854.291
5.5	1842.244	1865.352	1861.356	1862.634	1852.066
6.0	1840.512	1863.607	1859.383	1860.246	1849.854
6.5	1838.189	1861.427	1857.028	1857.762	1847.414
7.0	1835.886	1859.040	1854.401	1854.991	1844.605
7.5	1833.681	1856.763	1851.787	1852.092	1841.401
8.0	1831.073	1854.336	1848.738	1848.978	1838.254
8.5	1828.205	1851.644	1845.663	1845.682	1834.855
9.0	1825.435	1848.790	1842.296	1842.056	1831.047
9.5	1822.399	1845.702	1838.611	1838.053	1827.252
10.0	1819.292	1842.315	1834.790	1833.849	1823.320
10.5	1816.275	1838.656	1830.800	1829.704	1819.331
11.0	1813.019	1834.693	1826.610	1825.390	1815.211
11.5	1809.256	1830.813	1822.295	1821.199	1810.832
12.0	1805.396	1826.616	1817.832	1816.749	1806.162
12.5	1801.166	1822.075	1813.103	1811.987	1801.354
13.0	1796.768	1817.430	1808.257	1806.739	1795.795
13.5	1792.246	1812.636	1803.151	1801.264	1790.209
14.0	1787.550	1807.641	1797.799	1795.471	1784.137
14.5	1782.554	1802.191	1792.130	1789.217	1777.339
15.0	1777.332	1796.736	1786.349	1782.528	1770.384
15.5	1772.019	1791.053	1780.264	1775.386	1762.638
16.0	1766.414	1784.994	1774.127	1767.737	1754.510
16.5	1760.634	1778.960	1767.659	1759.641	1746.232
17.0	1754.691	1772.564	1760.712	1751.078	1737.292
17.5	1748.269	1765.843	1753.550	1742.138	1727.886
18.0	1741.801	1758.850	1745.985	1732.972	1718.006
18.5	1735.424	1751.668	1738.006	1723.170	1707.366
19.0	1728.515	1744.331	1729.514	1712.861	1695.813
19.5	1721.457	1736.611	1720.640	1701.937	1684.019
20.0	1714.133	1728.612	1711.544	1690.415	1671.596
20.5	1706.426	1720.361	1701.774	1678.200	1657.881
21.0	1698.764	1711.940	1691.745	1665.660	1643.746
21.5	1690.928	1703.234	1681.644	1652.445	1629.143
22.0	1682.274	1694.210	1670.700	1638.342	1613.560
22.5	1673.639	1684.817	1659.360	1623.700	1597.614
23.0	1664.725	1675.073	1647.722	1608.331	1581.150
23.5	1655.539	1664.784	1635.370	1592.450	1563.854
24.0	1646.003	1654.346	1622.882	1576.200	1546.378
24.5	1636.032	1643.557	1609.901	1559.320	1528.382
25.0	1625.348	1632.192	1596.375	1541.687	1509.484
25.5	1614.507	1620.515	1582.285	1523.996	1490.639
26.0	1603.641	1608.708	1568.026	1505.806	1471.268
26.5	1592.165	1596.239	1553.092	1486.844	1451.365

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CANDELA TABULATION - (Cont.)

27.0	1580.378	1583.433	1537.743	1467.758	1431.903
27.5	1568.091	1570.394	1521.856	1448.556	1412.525
28.0	1555.304	1556.738	1505.462	1428.808	1392.531
28.5	1542.570	1542.771	1488.926	1409.178	1372.875
29.0	1529.439	1528.492	1471.819	1389.353	1353.368
29.5	1515.654	1513.675	1454.180	1369.313	1333.847
30.0	1501.816	1498.955	1436.321	1349.462	1314.210
30.5	1487.525	1483.769	1418.286	1329.546	1294.716
31.0	1472.585	1467.842	1399.590	1309.332	1274.956
31.5	1457.703	1451.968	1380.822	1289.409	1255.617
32.0	1442.685	1435.931	1361.905	1269.642	1236.389
32.5	1426.719	1419.363	1342.560	1249.752	1216.888
33.0	1410.897	1402.807	1323.117	1229.966	1197.770
33.5	1394.808	1385.908	1303.312	1210.219	1178.386
34.0	1378.266	1368.639	1283.279	1190.134	1158.872
34.5	1361.970	1351.616	1263.434	1170.581	1139.663
35.0	1345.168	1334.366	1243.440	1150.931	1120.259
35.5	1327.665	1316.533	1223.167	1130.873	1100.454
36.0	1310.584	1298.744	1203.024	1111.430	1080.914
36.5	1293.185	1281.021	1183.394	1091.839	1061.789
37.0	1275.358	1262.643	1163.251	1072.039	1042.269
37.5	1257.654	1244.653	1143.328	1052.506	1023.294
38.0	1239.781	1226.379	1123.691	1033.090	1004.396
38.5	1221.455	1207.786	1103.853	1013.472	985.466
39.0	1203.595	1189.407	1084.456	994.458	967.016
39.5	1185.632	1170.711	1065.014	975.463	948.644
40.0	1167.065	1151.567	1045.376	956.533	930.292
40.5	1148.894	1132.689	1026.388	938.213	912.601
41.0	1130.555	1113.811	1007.387	920.009	894.988
41.5	1112.131	1094.401	988.373	901.838	877.537
42.0	1093.863	1075.406	969.495	884.232	860.482
42.5	1075.497	1056.210	950.863	866.820	843.829
43.0	1057.144	1036.911	932.050	849.466	827.247
43.5	1039.239	1017.611	913.782	832.554	810.887
44.0	1021.075	998.272	895.507	815.849	794.895
44.5	1002.469	978.694	877.122	799.067	778.982
45.0	984.779	959.634	859.243	783.043	763.536
45.5	966.990	940.399	841.370	767.032	748.180
46.0	949.008	921.008	823.517	750.873	732.896
46.5	931.434	901.903	806.028	735.232	717.975
47.0	913.853	882.870	788.700	719.695	703.230
47.5	896.169	863.739	771.204	704.041	688.484
48.0	878.925	844.646	754.012	688.731	674.082
48.5	861.429	825.691	737.042	673.537	659.694
49.0	843.946	806.592	719.915	658.240	645.259
49.5	826.923	787.941	703.204	643.352	631.415
50.0	809.816	769.316	686.564	628.405	617.630
50.5	792.184	750.548	669.762	613.296	603.604
51.0	775.317	732.131	653.394	598.726	590.169
51.5	758.249	713.804	637.066	584.272	576.812
52.0	741.031	695.257	620.497	569.728	563.416
52.5	723.905	677.099	604.273	555.410	550.506
53.0	706.869	658.986	588.080	541.326	537.719
53.5	689.691	640.854	571.784	527.340	524.959
54.0	672.739	623.228	555.851	513.781	512.652
54.5	655.795	605.551	540.016	500.320	500.424

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CANDELA TABULATION - (Cont.)

55.0	638.642	587.782	523.843	486.995	488.163
55.5	621.911	570.629	508.293	474.209	476.622
56.0	605.187	553.594	492.756	461.675	465.217
56.5	588.262	536.415	477.102	449.129	453.761
57.0	571.804	519.899	461.798	437.095	442.881
57.5	555.579	503.557	446.573	425.327	432.158
58.0	539.205	487.294	431.516	413.702	421.564
58.5	523.330	471.575	416.751	402.530	411.476
59.0	507.631	456.148	402.161	391.606	401.564
59.5	492.094	440.896	387.694	380.714	391.898
60.0	477.044	426.235	373.798	370.483	382.563
60.5	462.233	411.840	360.168	360.357	373.526
61.0	447.676	397.659	346.701	350.431	364.599
61.5	433.657	384.126	333.798	340.947	356.133
62.0	420.066	371.002	321.277	331.767	347.946
62.5	406.715	358.138	309.036	322.769	339.870
63.0	394.110	345.896	297.417	314.303	332.292
63.5	381.817	334.051	286.181	306.116	324.826
64.0	370.003	322.568	275.282	298.169	317.566
64.5	358.670	311.754	265.065	290.741	310.735
65.0	347.843	301.296	255.236	283.638	304.099
65.5	337.268	291.189	245.856	276.670	297.572
66.0	327.291	281.679	237.085	270.261	291.429
66.5	317.592	272.648	228.807	264.059	285.480
67.0	308.134	263.975	220.944	258.143	279.583
67.5	299.201	255.833	213.646	252.512	274.062
68.0	290.449	248.100	206.938	247.199	268.743
68.5	281.970	240.737	200.574	242.035	263.514
69.0	273.874	233.887	194.827	237.078	258.571
69.5	265.979	227.302	189.442	232.187	253.855
70.0	258.272	221.016	184.557	227.250	249.236
70.5	250.896	215.158	180.152	222.475	244.889
71.0	243.689	209.520	176.163	217.733	240.776
71.5	236.566	203.967	172.329	212.952	236.845
72.0	229.949	198.622	168.890	208.249	233.037
72.5	223.494	193.328	165.699	203.688	229.417
73.0	217.240	188.080	162.565	198.998	225.777
73.5	211.369	182.974	159.704	194.528	222.164
74.0	205.712	177.778	156.895	190.026	218.609
74.5	200.237	172.659	154.210	185.667	214.905
75.0	195.144	167.612	151.660	181.365	211.155
75.5	190.285	162.663	149.059	177.051	207.088
76.0	185.602	157.641	146.418	172.757	202.812
76.5	180.996	152.737	143.849	168.624	198.310
77.0	176.513	147.852	141.079	164.537	193.575
77.5	171.738	142.941	138.212	160.450	188.534
78.0	166.847	138.082	135.208	156.435	183.480
78.5	161.657	133.282	132.075	152.490	178.141
79.0	156.052	128.371	128.734	148.644	172.705
79.5	150.162	123.628	125.224	144.959	167.035
80.0	143.960	118.867	121.423	141.164	161.294
80.5	137.498	114.118	117.180	137.304	155.338
81.0	131.050	109.545	112.697	133.288	149.266
81.5	124.478	104.828	107.832	128.974	142.883
82.0	117.822	100.002	102.655	124.277	136.331
82.5	111.257	95.071	97.069	119.178	129.415

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CANDELA TABULATION - (Cont.)

83.0	104.783	90.076	91.432	113.761	122.240
83.5	98.257	84.919	85.464	107.962	114.708
84.0	91.802	79.794	79.541	101.825	106.768
84.5	85.327	74.578	73.332	95.240	98.633
85.0	78.542	69.129	66.891	88.221	90.024
85.5	71.685	63.310	60.364	80.825	81.442
86.0	64.354	57.004	53.734	72.982	72.392
86.5	56.465	50.030	46.799	64.192	62.907
87.0	48.253	42.764	39.748	54.941	53.306
87.5	39.728	35.252	32.501	45.015	43.530
88.0	30.704	27.571	25.080	34.480	33.598
88.5	21.596	19.819	17.847	23.984	23.867
89.0	12.417	11.690	10.633	13.863	14.330
89.5	3.944	4.016	3.957	5.527	5.910
90.0	0.175	0.247	0.720	0.850	0.681

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	679.32	N.A.	17.40
0-30	1405.46	N.A.	36.10
0-40	2178.97	N.A.	55.90
0-60	3334.63	N.A.	85.60
0-80	3815.69	N.A.	98.00
0-90	3894.69	N.A.	100.00
10-90	3717.92	N.A.	95.50
20-40	1499.65	N.A.	38.50
20-50	2170.3	N.A.	55.70
40-70	1450.37	N.A.	37.20
60-80	481.06	N.A.	12.40
70-80	186.35	N.A.	4.80
80-90	78.99	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	3894.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.77
10-20	502.56
20-30	726.14
30-40	773.51
40-50	670.65
50-60	485.01
60-70	294.71
70-80	186.35
80-90	78.99
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

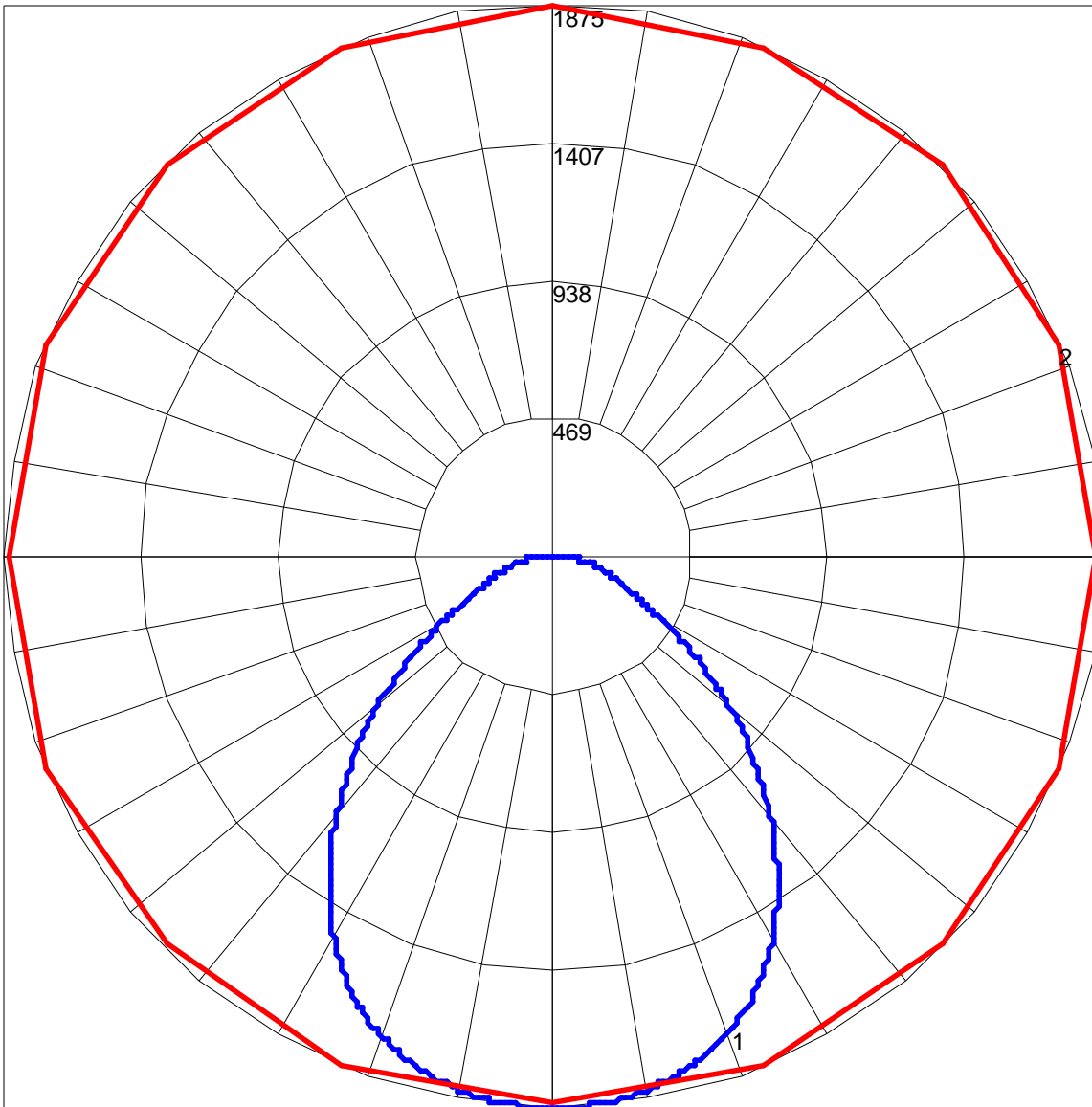
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1875.355 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.)