

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-55L35K-EX-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00671
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 5/24/2018
 [LUMCAT] ON2412GV-55L-35K-EX-MWI
 [LUMINAIRE] Nom. 24" diam x 11.4" H, Orion luminaire
 [OTHER] Regressed, 11" diam. frosted glass globe
 [OTHER] Reflector: Matte White interior finish
 [LAMP] N/A, Gen3
 [LAMPCAT] N/A
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03
 [OTHER] This report generated by Spectrum Lighting
 [CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5489	5482	5482
55	3970	3983	4043
65	2311	2287	2325
75	1712	1680	1686
85	1202	1167	1297

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837
2.5	1627.484	1628.258	1626.497	1627.112	1628.093	1627.347	1630.903	1630.995	1632.448	1632.203
5.0	1618.622	1619.015	1618.976	1618.519	1620.872	1617.833	1621.991	1622.875	1626.274	1627.845
7.5	1607.505	1607.206	1606.727	1608.077	1610.675	1604.226	1608.418	1608.992	1616.608	1620.112
10.0	1591.865	1593.071	1592.236	1594.813	1595.975	1587.178	1589.971	1591.503	1601.767	1605.765
12.5	1574.285	1576.400	1574.913	1579.171	1579.071	1567.965	1569.578	1569.838	1582.912	1586.591
15.0	1555.588	1557.746	1555.099	1560.407	1558.720	1544.736	1547.428	1546.080	1558.941	1563.911
17.5	1536.484	1536.783	1532.533	1538.853	1536.947	1519.280	1522.238	1520.198	1533.651	1539.000
20.0	1513.417	1514.220	1509.234	1514.050	1512.303	1493.730	1494.645	1493.425	1506.869	1511.989
22.5	1489.140	1489.487	1485.225	1487.805	1486.636	1468.134	1465.961	1465.858	1477.265	1483.818
25.0	1462.474	1463.465	1458.382	1460.108	1457.458	1438.576	1436.525	1434.542	1444.905	1453.026
27.5	1435.219	1434.612	1429.171	1430.889	1427.256	1407.453	1405.001	1400.353	1413.152	1421.005
30.0	1404.129	1404.327	1397.923	1400.347	1395.864	1374.209	1372.244	1367.855	1381.912	1388.374
32.5	1372.286	1371.051	1365.186	1367.924	1364.194	1340.244	1337.988	1336.487	1348.567	1355.498
35.0	1336.004	1336.453	1328.544	1334.050	1327.315	1303.338	1302.953	1300.226	1313.646	1320.290
37.5	1299.051	1296.919	1289.414	1296.055	1289.445	1265.615	1262.880	1261.121	1274.406	1284.293
40.0	1254.020	1255.560	1246.207	1255.327	1245.370	1220.185	1220.590	1214.741	1232.386	1239.117
42.5	1208.145	1203.503	1200.781	1204.822	1200.422	1173.058	1166.326	1164.763	1176.752	1191.407
45.0	1133.873	1148.194	1132.479	1148.679	1132.376	1095.658	1107.656	1087.905	1113.628	1113.353
47.5	1057.740	1054.958	1053.437	1061.456	1062.139	1012.869	1008.594	999.640	1015.398	1028.487
50.0	931.335	952.023	936.011	958.744	940.815	886.587	896.815	874.085	900.229	898.771
52.5	803.374	815.797	803.179	826.760	816.397	754.684	761.024	735.093	765.303	761.124
55.0	665.142	672.897	667.404	682.471	677.463	623.130	619.124	606.150	622.355	626.296
57.5	528.576	552.607	530.648	558.308	538.761	491.606	505.644	480.180	507.807	491.829
60.0	434.549	435.813	431.530	441.323	441.978	402.581	397.827	390.712	403.019	403.003
62.5	343.247	359.151	342.825	358.790	346.931	315.714	326.555	310.300	328.184	318.370
65.0	285.303	286.992	282.328	286.539	287.036	262.892	261.068	257.018	261.928	264.866
67.5	230.755	238.535	228.010	237.125	230.369	211.976	216.702	208.844	217.346	213.964
70.0	192.094	192.826	188.404	192.481	192.076	175.840	175.467	172.671	177.110	179.910
72.5	157.843	157.975	152.586	158.545	157.270	143.882	145.673	139.829	145.981	147.237
75.0	129.448	128.774	127.017	128.926	127.507	119.428	119.277	116.203	118.269	117.397
77.5	104.127	105.100	102.532	105.698	102.879	92.783	96.551	92.227	95.502	93.540
80.0	80.023	80.822	78.355	80.462	80.022	68.690	71.452	68.333	69.526	70.615
82.5	55.707	54.777	53.848	55.352	57.237	47.207	46.729	44.261	44.830	46.167
85.0	30.596	30.447	29.701	31.808	33.015	23.091	22.534	18.660	20.566	21.238
87.5	9.071	7.792	8.027	9.278	10.889	4.488	3.786	3.373	2.933	3.855
90.0	1.449	0.659	1.125	0.849	0.905	1.243	0.614	1.263	0.876	0.957
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837	1631.837
2.5	1630.869	1628.999	1628.450	1631.033	1630.633	1630.852	1627.484
5.0	1628.398	1622.578	1621.016	1625.816	1622.627	1621.812	1618.622
7.5	1619.252	1613.359	1610.645	1615.590	1610.811	1609.792	1607.505
10.0	1606.680	1599.099	1596.405	1600.129	1595.088	1596.091	1591.865
12.5	1589.615	1582.751	1578.766	1582.421	1576.906	1577.839	1574.285
15.0	1570.601	1560.872	1557.212	1562.684	1556.073	1557.406	1555.588
17.5	1545.443	1537.088	1533.707	1539.711	1533.792	1536.374	1536.484
20.0	1517.977	1512.092	1508.234	1514.181	1511.443	1515.093	1513.417
22.5	1490.414	1486.740	1481.453	1488.331	1489.062	1492.351	1489.140
25.0	1462.822	1457.033	1453.532	1462.261	1462.251	1469.102	1462.474
27.5	1430.603	1426.304	1423.461	1435.425	1433.689	1442.414	1435.219
30.0	1397.230	1394.732	1391.750	1408.136	1406.205	1414.749	1404.129
32.5	1364.137	1363.007	1358.572	1375.787	1379.080	1382.871	1372.286
35.0	1331.101	1325.250	1324.417	1340.847	1343.760	1349.994	1336.004
37.5	1292.736	1286.638	1285.170	1303.186	1306.167	1311.190	1299.051
40.0	1253.549	1241.557	1243.023	1264.328	1262.497	1271.298	1254.020
42.5	1197.056	1195.857	1186.107	1211.588	1217.488	1218.448	1208.145
45.0	1138.705	1113.448	1121.921	1153.741	1143.508	1163.857	1133.873
47.5	1033.501	1028.930	1017.395	1057.192	1064.371	1067.670	1057.740
50.0	924.907	891.404	895.844	948.457	937.198	967.420	931.335
52.5	779.120	752.771	757.786	809.966	803.817	827.080	803.374
55.0	632.221	617.008	613.924	663.906	666.688	684.526	665.142
57.5	517.445	483.655	501.942	544.170	529.244	560.985	528.576
60.0	404.264	397.641	399.325	429.681	433.397	438.412	434.549
62.5	334.697	314.454	326.815	352.922	339.662	363.438	343.247
65.0	267.248	262.662	261.551	282.135	284.567	290.344	285.303

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CANDELA TABULATION - (Cont.)

67.5	220.563	213.379	216.889	234.584	231.358	241.565	230.755
70.0	177.934	175.314	175.903	190.127	192.306	195.914	192.094
72.5	146.773	142.825	145.456	155.487	157.140	160.048	157.843
75.0	119.954	117.470	117.411	126.686	128.956	130.553	129.448
77.5	95.830	93.884	92.534	104.215	102.802	105.653	104.127
80.0	71.336	69.472	68.438	78.378	78.214	82.377	80.023
82.5	46.430	43.942	43.646	54.082	54.619	58.951	55.707
85.0	20.596	19.316	20.628	29.451	29.887	32.812	30.596
87.5	3.040	2.867	2.741	6.743	8.266	10.048	9.071
90.0	0.557	0.742	0.493	0.669	0.901	0.736	1.449
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	593.66	N.A.	14.90
0-30	1264.85	N.A.	31.80
0-40	2094.57	N.A.	52.60
0-60	3535.45	N.A.	88.80
0-80	3948.44	N.A.	99.20
0-90	3981.15	N.A.	100.00
10-90	3827.12	N.A.	96.10
20-40	1500.91	N.A.	37.70
20-50	2358.15	N.A.	59.20
40-70	1721.3	N.A.	43.20
60-80	412.99	N.A.	10.40
70-80	132.57	N.A.	3.30
80-90	32.70	N.A.	0.80
90-110	0.12	N.A.	0.00
90-120	0.12	N.A.	0.00
90-130	0.12	N.A.	0.00
90-150	0.12	N.A.	0.00
90-180	0.12	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3981.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.02
10-20	439.64
20-30	671.19
30-40	829.72
40-50	857.24
50-60	583.65
60-70	280.42
70-80	132.57
80-90	32.70
90-100	0.12
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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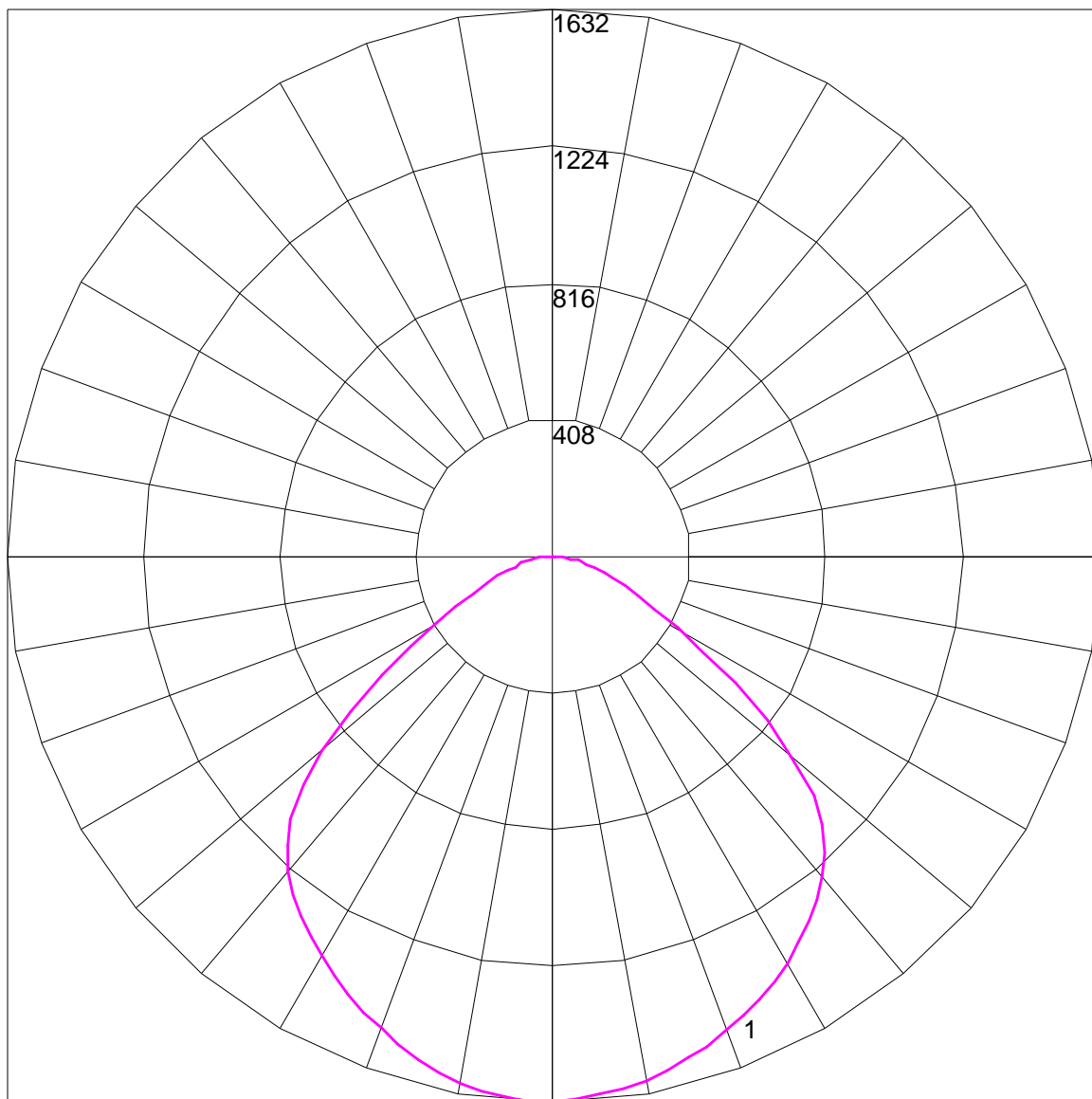
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-55L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1632.448 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)