

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00577 ~ C1216UDGV-37L37L-35KEX-SO-TSG-SO-MW(UP_DOWN).IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00577

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/21/2017

[UPDATE] 3/15/2018

[LUMCAT] C1216UDGV-37L-37L-35K-EX-SO-TSG-SO-MW (Up_Down)

[LUMINAIRE] Nom. 12" Diam. x 16"H Direct/Indirect Cylinder

[OTHER] Uplight Reflector: Semi-diffuse, clear anodized alum.

[OTHER] Lens: Flush Solite

[OTHER] Uplight: 91.1 Degree Beam Angle

[OTHER] Downlight Reflector: Semi-diffuse, clear anodized alum.

[OTHER] Lens: Regressed Solite

[OTHER] Downlight: 70 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Gen 3

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT: 3500K

[OTHER] CCT Output Multipliers: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971

[OTHER] Data applicable to CD3X (Cable and Cord Mount) and Wall Mount

[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.58 ft (Diameter)
Luminous Width (90-270)	0.58 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23478	21607	18849
55	9501	9182	7454
65	3369	3499	2700
75	1328	1380	921
85	990	983	740

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1686.244	1686.244	1686.244	1686.244	1686.244
2.5	1681.576	1682.834	1684.113	1683.797	1683.599
5.0	1676.907	1679.424	1681.982	1681.349	1680.954
7.5	1668.091	1673.733	1677.226	1676.348	1675.783
10.0	1659.275	1668.041	1672.470	1671.347	1670.611
12.5	1648.831	1660.196	1671.159	1669.440	1669.760
15.0	1638.386	1652.351	1669.847	1667.533	1668.909
17.5	1638.179	1656.139	1677.119	1676.043	1678.764
20.0	1637.971	1659.926	1684.390	1684.552	1688.618
22.5	1649.004	1670.637	1695.549	1695.234	1696.792
25.0	1660.036	1681.348	1706.707	1705.916	1704.966
27.5	1643.471	1668.290	1668.344	1669.782	1644.679
30.0	1626.906	1655.232	1629.980	1633.647	1584.392
32.5	1483.264	1490.971	1440.719	1435.256	1368.546
35.0	1339.622	1326.709	1251.457	1236.865	1152.699
37.5	1077.981	1055.301	984.961	965.186	894.464
40.0	816.339	783.893	718.464	693.507	636.229
42.5	614.220	590.859	548.869	526.498	483.539
45.0	412.101	397.825	379.274	359.488	330.848
47.5	325.739	321.193	306.638	291.426	264.845
50.0	239.377	244.560	234.001	223.363	198.841
52.5	187.328	191.612	182.367	172.684	152.485
55.0	135.279	138.664	130.733	122.005	106.128
57.5	100.604	104.652	98.266	91.588	79.639
60.0	65.930	70.640	65.799	61.171	53.151
62.5	50.640	54.980	51.253	47.361	40.740
65.0	35.349	39.320	36.707	33.551	28.329
67.5	26.663	29.829	28.010	24.982	21.216
70.0	17.976	20.338	19.313	16.413	14.102
72.5	13.256	15.213	14.090	11.971	10.010
75.0	8.535	10.087	8.866	7.529	5.917
77.5	6.392	7.076	6.284	5.448	4.649
80.0	4.249	4.064	3.701	3.366	3.381
82.5	3.196	2.801	2.914	2.484	2.491
85.0	2.142	1.537	2.127	1.601	1.600
87.5	1.790	1.031	1.547	1.087	1.444
90.0	1.438	0.524	0.966	0.573	1.287
92.5	3.396	4.293	4.708	4.291	4.857
95.0	5.549	7.615	7.759	7.491	7.612
97.5	10.614	12.724	13.489	14.453	13.348
100.0	15.678	17.833	19.219	21.415	19.084
102.5	26.555	30.079	29.959	33.444	30.250
105.0	37.432	42.324	40.698	45.472	41.415
107.5	57.336	61.943	61.268	64.232	61.810
110.0	77.239	81.561	81.837	82.992	82.204
112.5	108.096	113.257	113.382	115.334	114.838
115.0	138.952	144.952	144.926	147.675	147.471
117.5	185.828	192.260	190.307	195.043	194.981
120.0	232.703	239.567	235.688	242.410	242.491
122.5	298.322	305.720	299.680	307.951	307.075
125.0	363.940	371.872	363.672	373.492	371.658

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127.5	447.892	455.837	445.041	456.125	453.930
130.0	531.843	539.801	526.409	538.758	536.202
132.5	626.834	632.465	618.205	630.006	628.782
135.0	721.825	725.129	710.001	721.254	721.362
137.5	814.643	814.921	800.163	810.078	808.978
140.0	907.461	904.713	890.325	898.901	896.594
142.5	981.287	978.063	966.007	971.556	969.780
145.0	1055.112	1051.413	1041.688	1044.211	1042.966
147.5	1105.334	1103.224	1095.385	1096.549	1095.397
150.0	1155.555	1155.035	1149.082	1148.886	1147.828
152.5	1190.216	1191.679	1185.662	1186.182	1183.174
155.0	1224.876	1228.323	1222.242	1223.477	1218.519
157.5	1253.149	1257.035	1251.273	1252.855	1249.191
160.0	1281.421	1285.746	1280.303	1282.232	1279.862
162.5	1304.887	1309.615	1303.684	1305.728	1303.414
165.0	1328.353	1333.483	1327.065	1329.224	1326.966
167.5	1348.299	1350.825	1346.350	1347.272	1346.716
170.0	1368.245	1368.166	1365.634	1365.319	1366.466
172.5	1380.697	1378.382	1376.851	1376.806	1378.483
175.0	1393.148	1388.597	1388.068	1388.293	1390.499
177.5	1395.074	1392.799	1392.534	1392.647	1393.750
180.0	1397.000	1397.000	1397.000	1397.000	1397.000

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Zone	Lumens	%Lamp	%Fixt
0-20	632.33	N.A.	11.50
0-30	1406.19	N.A.	25.70
0-40	2163.5	N.A.	39.50
0-60	2612.28	N.A.	47.70
0-80	2660.11	N.A.	48.60
0-90	2662.34	N.A.	48.60
10-90	2502.31	N.A.	45.70
20-40	1531.17	N.A.	28.00
20-50	1857.88	N.A.	33.90
40-70	486.45	N.A.	8.90
60-80	47.84	N.A.	0.90
70-80	10.16	N.A.	0.20
80-90	2.22	N.A.	0.00
90-110	58.00	N.A.	1.10
90-120	208.56	N.A.	3.80
90-130	545.14	N.A.	10.00
90-150	1745.12	N.A.	31.90
90-180	2814.9	N.A.	51.40
110-180	2756.9	N.A.	50.30
0-180	5477.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.02
10-20	472.31
20-30	773.86
30-40	757.32
40-50	326.71
50-60	122.07
60-70	37.68
70-80	10.16
80-90	2.22
90-100	9.46
100-110	48.54
110-120	150.56
120-130	336.58
130-140	552.34
140-150	647.63
150-160	563.07
160-170	374.91
170-180	131.80

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

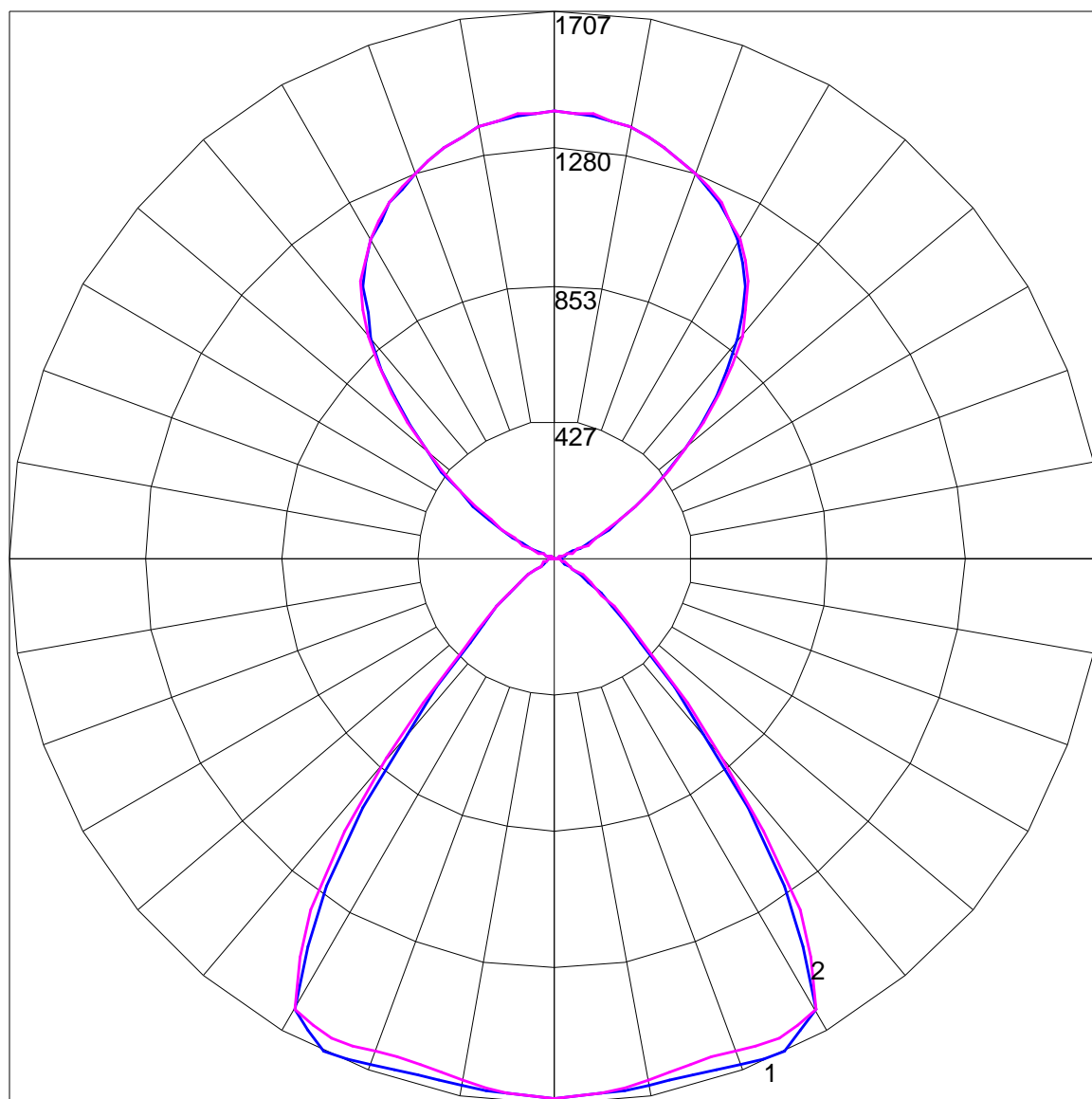
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	99	96	92	90	91	88	86	83	75	73	71	63	61	60	51	50	50	45
2	92	86	81	76	85	80	75	72	68	65	62	57	55	53	47	46	45	40
3	85	77	71	66	79	72	66	62	62	58	55	52	50	48	44	42	41	37
4	79	70	63	58	73	65	59	55	56	52	48	48	45	42	41	38	37	33
5	73	63	56	51	68	59	53	48	51	47	43	44	41	38	38	35	33	30
6	68	57	50	45	63	54	48	43	47	42	39	41	37	35	35	32	30	28
7	63	53	45	40	59	49	43	39	43	38	35	38	34	31	32	30	28	25
8	59	48	41	36	55	45	39	35	40	35	32	35	31	29	30	27	25	23
9	55	44	38	33	52	42	36	32	37	32	29	32	29	26	28	25	23	21
10	52	41	34	30	48	39	33	29	34	30	26	30	27	24	26	24	22	20

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POLAR GRAPH



Maximum Candela = 1706.707 Located At Horizontal Angle = 45, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (0 - 180)