

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00577 ~ C1216UDGV-37L55L-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-55L-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	6736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	65
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00577 ~ C1216UDGV-37L55L-35KEX-SO-TSG-SO-MW(UP\_DOWN).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34577	31823	27759
55	13993	13523	10978
65	4962	5153	3977
75	1956	2032	1356
85	1458	1448	1089

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	2483.422	2483.422	2483.422	2483.422	2483.422
<b>2.5</b>	2476.547	2478.401	2480.284	2479.818	2479.527
<b>5.0</b>	2469.671	2473.379	2477.145	2476.213	2475.632
<b>7.5</b>	2456.688	2464.997	2470.141	2468.848	2468.016
<b>10.0</b>	2443.704	2456.614	2463.137	2461.483	2460.399
<b>12.5</b>	2428.322	2445.060	2461.206	2458.675	2459.146
<b>15.0</b>	2412.939	2433.506	2459.274	2455.866	2457.892
<b>17.5</b>	2412.634	2439.084	2469.983	2468.398	2472.406
<b>20.0</b>	2412.329	2444.662	2480.692	2480.930	2486.919
<b>22.5</b>	2428.577	2460.437	2497.126	2496.662	2498.958
<b>25.0</b>	2444.824	2476.212	2513.559	2512.394	2510.996
<b>27.5</b>	2420.429	2456.981	2457.060	2459.177	2422.208
<b>30.0</b>	2396.033	2437.750	2400.560	2405.960	2333.419
<b>32.5</b>	2184.483	2195.833	2121.824	2113.779	2015.531
<b>35.0</b>	1972.933	1953.916	1843.088	1821.598	1697.642
<b>37.5</b>	1587.600	1554.199	1450.605	1421.482	1317.326
<b>40.0</b>	1202.267	1154.482	1058.121	1021.365	937.009
<b>42.5</b>	904.595	870.190	808.350	775.402	712.134
<b>45.0</b>	606.923	585.898	558.578	529.438	487.258
<b>47.5</b>	479.734	473.038	451.602	429.199	390.051
<b>50.0</b>	352.544	360.177	344.626	328.959	292.844
<b>52.5</b>	275.888	282.198	268.582	254.322	224.573
<b>55.0</b>	199.232	204.218	192.538	179.684	156.301
<b>57.5</b>	148.165	154.126	144.722	134.887	117.290
<b>60.0</b>	97.098	104.035	96.906	90.090	78.279
<b>62.5</b>	74.580	80.972	75.484	69.751	60.001
<b>65.0</b>	52.061	57.908	54.061	49.412	41.722
<b>67.5</b>	39.268	43.931	41.252	36.793	31.246
<b>70.0</b>	26.474	29.953	28.443	24.173	20.769
<b>72.5</b>	19.522	22.404	20.751	17.631	14.742
<b>75.0</b>	12.570	14.855	13.058	11.089	8.715
<b>77.5</b>	9.414	10.421	9.254	8.023	6.848
<b>80.0</b>	6.257	5.986	5.450	4.957	4.980
<b>82.5</b>	4.706	4.125	4.291	3.658	3.669
<b>85.0</b>	3.155	2.264	3.132	2.358	2.357
<b>87.5</b>	2.637	1.518	2.278	1.601	2.127
<b>90.0</b>	2.118	0.772	1.423	0.844	1.896
<b>92.5</b>	3.396	4.293	4.708	4.291	4.857
<b>95.0</b>	5.549	7.615	7.759	7.491	7.612
<b>97.5</b>	10.614	12.724	13.489	14.453	13.348
<b>100.0</b>	15.678	17.833	19.219	21.415	19.084
<b>102.5</b>	26.555	30.079	29.959	33.444	30.250
<b>105.0</b>	37.432	42.324	40.698	45.472	41.415
<b>107.5</b>	57.336	61.943	61.268	64.232	61.810
<b>110.0</b>	77.239	81.561	81.837	82.992	82.204
<b>112.5</b>	108.096	113.257	113.382	115.334	114.838
<b>115.0</b>	138.952	144.952	144.926	147.675	147.471
<b>117.5</b>	185.828	192.260	190.307	195.043	194.981
<b>120.0</b>	232.703	239.567	235.688	242.410	242.491
<b>122.5</b>	298.322	305.720	299.680	307.951	307.075
<b>125.0</b>	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	931.26	N.A.	13.80
0-30	2070.96	N.A.	30.70
0-40	3186.31	N.A.	47.30
0-60	3847.24	N.A.	57.10
0-80	3917.69	N.A.	58.20
0-90	3920.96	N.A.	58.20
10-90	3685.29	N.A.	54.70
20-40	2255.04	N.A.	33.50
20-50	2736.2	N.A.	40.60
40-70	716.42	N.A.	10.60
60-80	70.45	N.A.	1.00
70-80	14.96	N.A.	0.20
80-90	3.27	N.A.	0.00
90-110	58.06	N.A.	0.90
90-120	208.62	N.A.	3.10
90-130	545.20	N.A.	8.10
90-150	1745.17	N.A.	25.90
90-180	2814.95	N.A.	41.80
110-180	2756.9	N.A.	40.90
0-180	6735.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	235.68
10-20	695.59
20-30	1139.7
30-40	1115.34
40-50	481.16
50-60	179.78
60-70	55.49
70-80	14.96
80-90	3.27
90-100	9.52
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

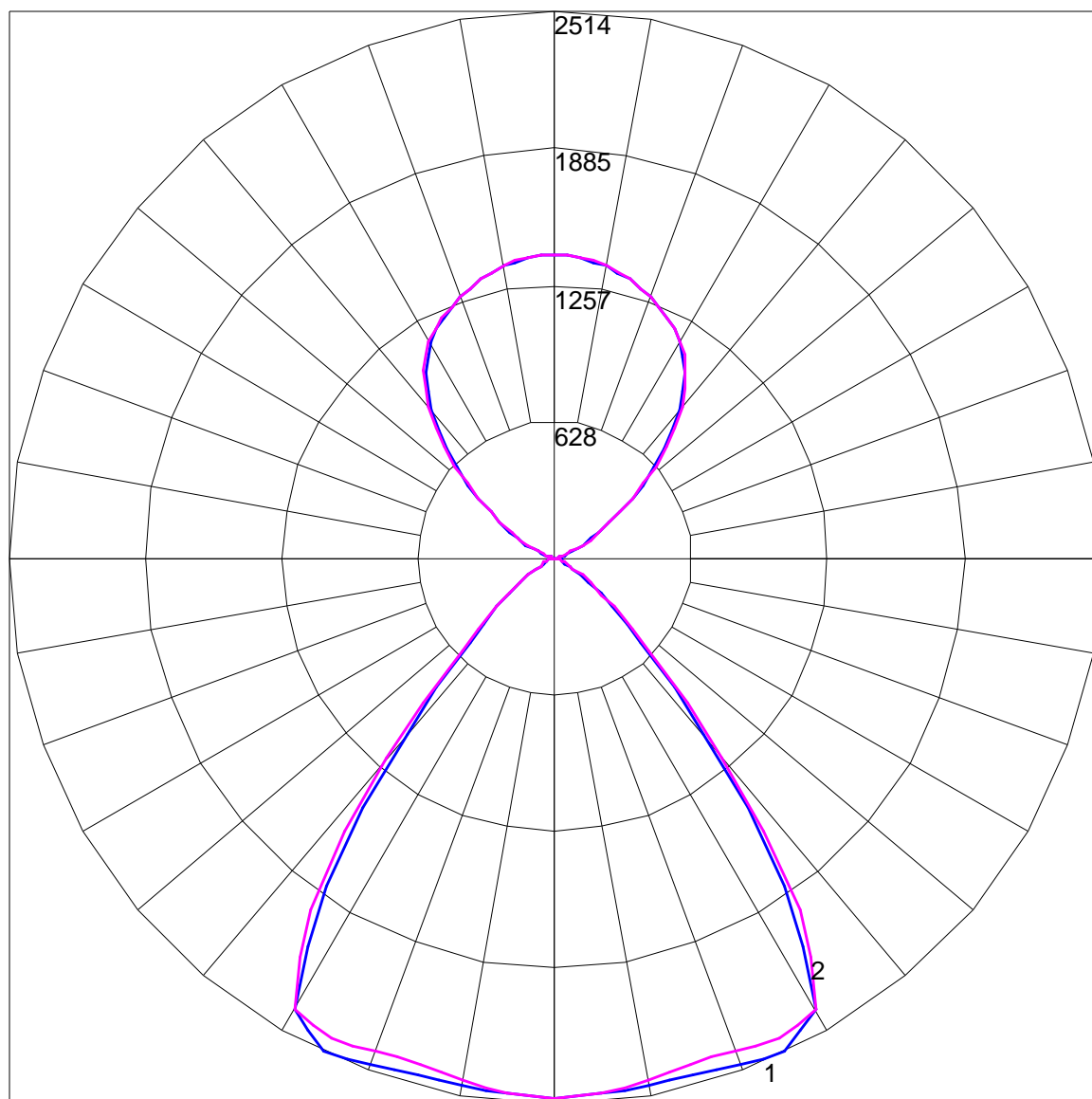
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	102	98	95	92	95	92	89	87	80	78	77	69	68	67	60	59	58	53
2	95	88	83	79	88	83	79	75	73	70	67	64	62	60	55	54	52	48
3	88	80	74	69	82	75	70	66	67	63	59	59	56	53	51	49	47	44
4	82	72	66	61	76	68	63	58	61	56	53	54	51	48	47	45	43	40
5	76	66	59	54	71	62	56	52	56	51	47	50	46	43	44	41	39	36
6	71	60	53	48	66	57	51	46	51	46	43	46	42	39	41	38	36	33
7	66	55	48	43	62	52	46	42	47	42	39	42	38	36	38	35	33	30
8	62	51	44	39	58	48	42	38	44	39	35	39	35	32	35	32	30	28
9	58	47	40	35	55	45	39	34	41	36	32	37	33	30	33	30	28	26
10	54	43	37	32	51	41	35	31	38	33	29	34	30	27	31	28	25	24

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## POLAR GRAPH



Maximum Candela = 2513.559 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)