

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00577 ~ C1216UDGV-27L27L-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-27L-27L-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	3734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	36
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-27L27L-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	16006	14731	12850
55	6477	6260	5082
65	2297	2385	1841
75	906	941	628
85	675	670	504

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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>	1149.576	1149.576	1149.576	1149.576	1149.576
<b>2.5</b>	1146.394	1147.252	1148.123	1147.908	1147.773
<b>5.0</b>	1143.211	1144.927	1146.670	1146.239	1145.970
<b>7.5</b>	1137.201	1141.047	1143.428	1142.830	1142.445
<b>10.0</b>	1131.191	1137.167	1140.186	1139.421	1138.919
<b>12.5</b>	1124.070	1131.819	1139.292	1138.121	1138.339
<b>15.0</b>	1116.949	1126.470	1138.398	1136.820	1137.758
<b>17.5</b>	1116.808	1129.052	1143.355	1142.622	1144.477
<b>20.0</b>	1116.667	1131.634	1148.312	1148.423	1151.195
<b>22.5</b>	1124.188	1138.937	1155.919	1155.705	1156.768
<b>25.0</b>	1131.709	1146.239	1163.526	1162.987	1162.340
<b>27.5</b>	1120.417	1137.337	1137.373	1138.353	1121.240
<b>30.0</b>	1109.124	1128.435	1111.219	1113.719	1080.140
<b>32.5</b>	1011.198	1016.452	982.192	978.469	932.990
<b>35.0</b>	913.271	904.468	853.165	843.218	785.839
<b>37.5</b>	734.900	719.439	671.485	658.004	609.790
<b>40.0</b>	556.529	534.410	489.804	472.790	433.741
<b>42.5</b>	418.737	402.811	374.185	358.934	329.647
<b>45.0</b>	280.945	271.212	258.566	245.077	225.552
<b>47.5</b>	222.069	218.969	209.047	198.676	180.555
<b>50.0</b>	163.193	166.726	159.527	152.275	135.557
<b>52.5</b>	127.709	130.630	124.327	117.726	103.955
<b>55.0</b>	92.224	94.533	89.126	83.176	72.352
<b>57.5</b>	68.585	71.345	66.992	62.439	54.293
<b>60.0</b>	44.947	48.158	44.858	41.703	36.235
<b>62.5</b>	34.523	37.482	34.942	32.288	27.774
<b>65.0</b>	24.099	26.806	25.025	22.873	19.313
<b>67.5</b>	18.177	20.336	19.096	17.032	14.464
<b>70.0</b>	12.255	13.865	13.166	11.190	9.614
<b>72.5</b>	9.037	10.371	9.606	8.162	6.824
<b>75.0</b>	5.819	6.876	6.045	5.133	4.034
<b>77.5</b>	4.358	4.824	4.284	3.714	3.170
<b>80.0</b>	2.896	2.771	2.523	2.295	2.305
<b>82.5</b>	2.178	1.910	1.987	1.694	1.698
<b>85.0</b>	1.460	1.048	1.450	1.092	1.091
<b>87.5</b>	1.220	0.703	1.055	0.742	0.985
<b>90.0</b>	0.980	0.357	0.659	0.391	0.878
<b>92.5</b>	2.315	2.927	3.209	2.925	3.311
<b>95.0</b>	3.783	5.191	5.289	5.107	5.189
<b>97.5</b>	7.236	8.674	9.196	9.853	9.100
<b>100.0</b>	10.688	12.157	13.102	14.599	13.010
<b>102.5</b>	18.103	20.505	20.423	22.799	20.622
<b>105.0</b>	25.517	28.852	27.744	30.998	28.233
<b>107.5</b>	39.086	42.226	41.766	43.787	42.136
<b>110.0</b>	52.654	55.600	55.788	56.576	56.038
<b>112.5</b>	73.689	77.207	77.292	78.623	78.285
<b>115.0</b>	94.724	98.814	98.796	100.670	100.531
<b>117.5</b>	126.679	131.064	129.733	132.961	132.919
<b>120.0</b>	158.634	163.313	160.669	165.251	165.306
<b>122.5</b>	203.366	208.409	204.292	209.930	209.333
<b>125.0</b>	248.098	253.505	247.915	254.609	253.359

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127.5	305.328	310.744	303.384	310.940	309.444
130.0	362.557	367.982	358.853	367.271	365.529
132.5	427.313	431.151	421.431	429.475	428.641
135.0	492.068	494.320	484.008	491.679	491.752
137.5	555.342	555.532	545.472	552.230	551.480
140.0	618.616	616.743	606.935	612.781	611.208
142.5	668.943	666.746	658.527	662.310	661.099
145.0	719.270	716.748	710.119	711.839	710.990
147.5	753.506	752.068	746.724	747.518	746.732
150.0	787.742	787.387	783.329	783.196	782.474
152.5	811.370	812.368	808.266	808.620	806.569
155.0	834.998	837.348	833.202	834.044	830.664
157.5	854.272	856.921	852.993	854.071	851.573
160.0	873.545	876.493	872.783	874.098	872.482
162.5	889.542	892.764	888.722	890.115	888.538
165.0	905.538	909.035	904.660	906.132	904.593
167.5	919.136	920.857	917.807	918.435	918.057
170.0	932.733	932.679	930.953	930.738	931.520
172.5	941.221	939.643	938.600	938.569	939.712
175.0	949.709	946.607	946.246	946.399	947.903
177.5	951.022	949.471	949.291	949.367	950.119
180.0	952.000	952.000	952.000	952.000	952.000

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Zone	Lumens	%Lamp	%Fixt
0-20	431.08	N.A.	11.50
0-30	958.65	N.A.	25.70
0-40	1474.94	N.A.	39.50
0-60	1780.89	N.A.	47.70
0-80	1813.5	N.A.	48.60
0-90	1815.02	N.A.	48.60
10-90	1705.92	N.A.	45.70
20-40	1043.86	N.A.	28.00
20-50	1266.59	N.A.	33.90
40-70	331.63	N.A.	8.90
60-80	32.61	N.A.	0.90
70-80	6.92	N.A.	0.20
80-90	1.52	N.A.	0.00
90-110	39.54	N.A.	1.10
90-120	142.18	N.A.	3.80
90-130	371.62	N.A.	10.00
90-150	1189.65	N.A.	31.90
90-180	1918.92	N.A.	51.40
110-180	1879.37	N.A.	50.30
0-180	3733.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.09
10-20	321.99
20-30	527.57
30-40	516.29
40-50	222.73
50-60	83.22
60-70	25.69
70-80	6.92
80-90	1.52
90-100	6.45
100-110	33.09
110-120	102.64
120-130	229.45
130-140	376.53
140-150	441.49
150-160	383.84
160-170	255.58
170-180	89.85

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

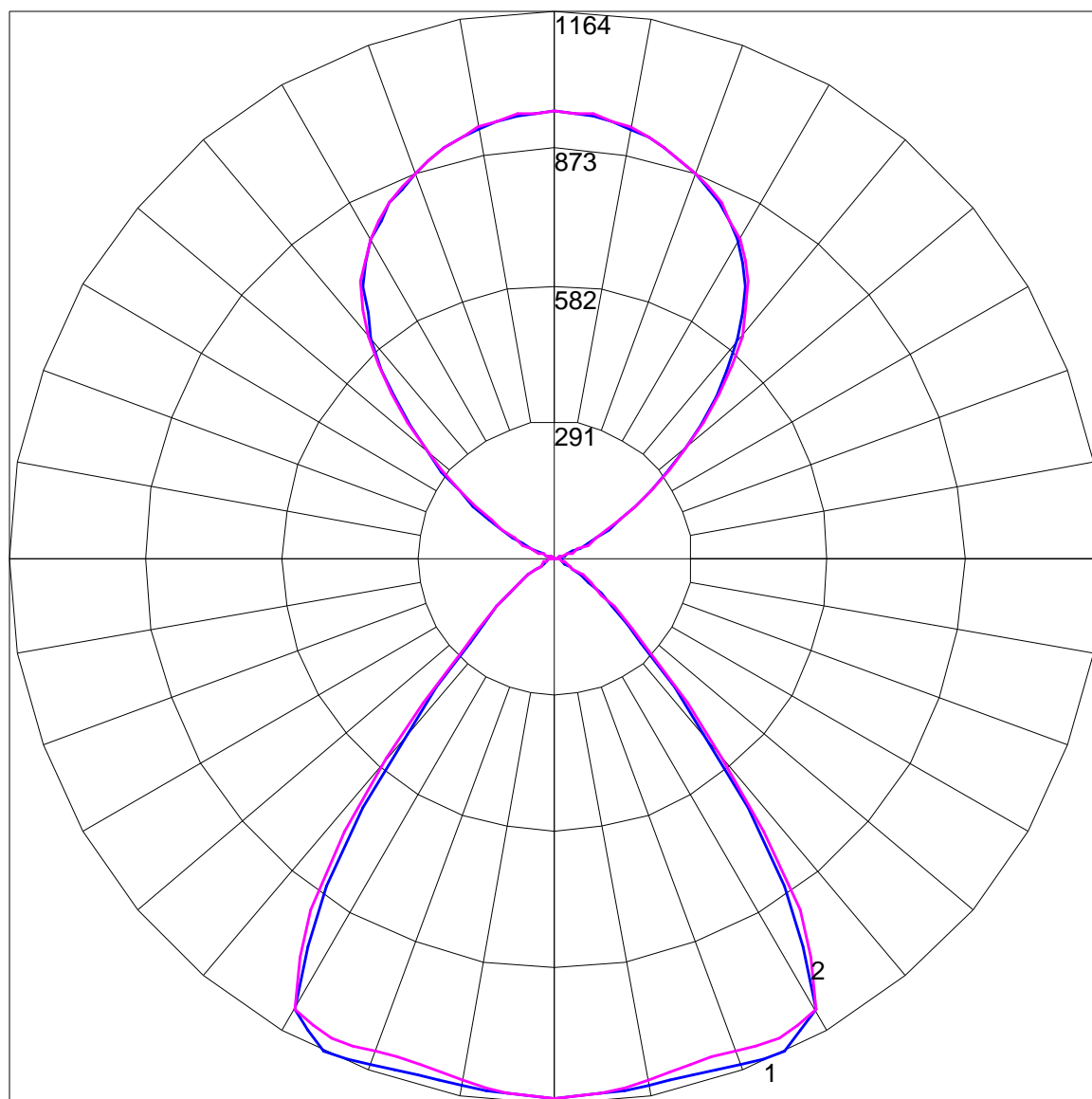
Effective Floor Cavity Reflectance 0.20

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 = 1163.526 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)