

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00577 ~ C1216UDGV-15L15L-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
 [ISSUEDATE] 4/21/2017
 [UPDATE] 3/15/2018
 [LUMCAT] C1216UDGV-15L-15L-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	2139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	20
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-15L15L-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	9166	8436	7359
55	3709	3585	2910
65	1316	1366	1054
75	519	539	360
85	386	384	289

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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	658.355	658.355	658.355	658.355	658.355
2.5	656.533	657.024	657.523	657.400	657.323
5.0	654.710	655.693	656.691	656.444	656.290
7.5	651.268	653.471	654.835	654.492	654.271
10.0	647.826	651.248	652.978	652.539	652.252
12.5	643.748	648.185	652.466	651.795	651.920
15.0	639.670	645.122	651.954	651.050	651.587
17.5	639.589	646.601	654.793	654.373	655.435
20.0	639.508	648.080	657.631	657.695	659.282
22.5	643.816	652.262	661.988	661.866	662.474
25.0	648.123	656.444	666.344	666.036	665.665
27.5	641.656	651.346	651.366	651.928	642.127
30.0	635.188	646.248	636.388	637.820	618.589
32.5	579.107	582.116	562.496	560.363	534.317
35.0	523.025	517.983	488.603	482.906	450.045
37.5	420.873	412.018	384.556	376.835	349.223
40.0	318.721	306.053	280.508	270.764	248.401
42.5	239.808	230.688	214.294	205.559	188.787
45.0	160.895	155.322	148.079	140.354	129.172
47.5	127.177	125.403	119.720	113.781	103.403
50.0	93.459	95.483	91.360	87.207	77.633
52.5	73.138	74.811	71.201	67.421	59.534
55.0	52.816	54.138	51.042	47.634	41.435
57.5	39.278	40.859	38.366	35.758	31.093
60.0	25.741	27.580	25.690	23.883	20.752
62.5	19.771	21.466	20.011	18.491	15.907
65.0	13.801	15.351	14.332	13.099	11.061
67.5	10.410	11.646	10.936	9.754	8.284
70.0	7.018	7.941	7.540	6.408	5.506
72.5	5.175	5.940	5.501	4.674	3.908
75.0	3.332	3.938	3.462	2.940	2.310
77.5	2.496	2.763	2.454	2.127	1.815
80.0	1.659	1.587	1.445	1.314	1.320
82.5	1.248	1.094	1.138	0.970	0.973
85.0	0.836	0.600	0.830	0.625	0.625
87.5	0.699	0.403	0.604	0.425	0.564
90.0	0.561	0.205	0.377	0.224	0.503
92.5	1.326	1.677	1.839	1.676	1.897
95.0	2.167	2.974	3.030	2.925	2.972
97.5	4.145	4.969	5.268	5.644	5.212
100.0	6.122	6.964	7.505	8.363	7.452
102.5	10.370	11.746	11.699	13.060	11.813
105.0	14.617	16.528	15.893	17.757	16.173
107.5	22.390	24.189	23.925	25.083	24.137
110.0	30.162	31.850	31.957	32.408	32.101
112.5	42.212	44.227	44.276	45.038	44.844
115.0	54.261	56.604	56.594	57.667	57.587
117.5	72.566	75.078	74.315	76.164	76.140
120.0	90.871	93.551	92.036	94.661	94.693
122.5	116.495	119.384	117.025	120.255	119.913
125.0	142.119	145.216	142.014	145.849	145.132

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127.5	174.902	178.004	173.789	178.117	177.260
130.0	207.685	210.792	205.563	210.385	209.387
132.5	244.779	246.978	241.409	246.018	245.540
135.0	281.873	283.163	277.255	281.650	281.692
137.5	318.119	318.227	312.464	316.336	315.906
140.0	354.364	353.290	347.672	351.021	350.120
142.5	383.193	381.934	377.226	379.393	378.699
145.0	412.021	410.577	406.779	407.764	407.278
147.5	431.633	430.809	427.748	428.202	427.753
150.0	451.244	451.041	448.717	448.640	448.227
152.5	464.779	465.351	463.002	463.204	462.030
155.0	478.314	479.660	477.286	477.768	475.832
157.5	489.355	490.872	488.622	489.240	487.809
160.0	500.395	502.084	499.958	500.712	499.786
162.5	509.559	511.405	509.089	509.887	508.983
165.0	518.722	520.725	518.219	519.062	518.180
167.5	526.511	527.497	525.750	526.110	525.893
170.0	534.300	534.269	533.280	533.157	533.605
172.5	539.162	538.258	537.661	537.643	538.298
175.0	544.024	542.247	542.041	542.128	542.990
177.5	544.777	543.888	543.785	543.829	544.260
180.0	545.000	545.000	545.000	545.000	545.000

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Zone	Lumens	%Lamp	%Fixt
0-20	246.88	N.A.	11.50
0-30	549.01	N.A.	25.70
0-40	844.69	N.A.	39.50
0-60	1019.9	N.A.	47.70
0-80	1038.58	N.A.	48.60
0-90	1039.45	N.A.	48.60
10-90	976.97	N.A.	45.70
20-40	597.81	N.A.	28.00
20-50	725.37	N.A.	33.90
40-70	189.92	N.A.	8.90
60-80	18.68	N.A.	0.90
70-80	3.97	N.A.	0.20
80-90	0.87	N.A.	0.00
90-110	22.65	N.A.	1.10
90-120	81.44	N.A.	3.80
90-130	212.88	N.A.	10.00
90-150	681.47	N.A.	31.90
90-180	1099.22	N.A.	51.40
110-180	1076.57	N.A.	50.30
0-180	2138.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.48
10-20	184.40
20-30	302.13
30-40	295.68
40-50	127.55
50-60	47.66
60-70	14.71
70-80	3.97
80-90	0.87
90-100	3.70
100-110	18.95
110-120	58.79
120-130	131.44
130-140	215.69
140-150	252.90
150-160	219.88
160-170	146.40
170-180	51.47

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

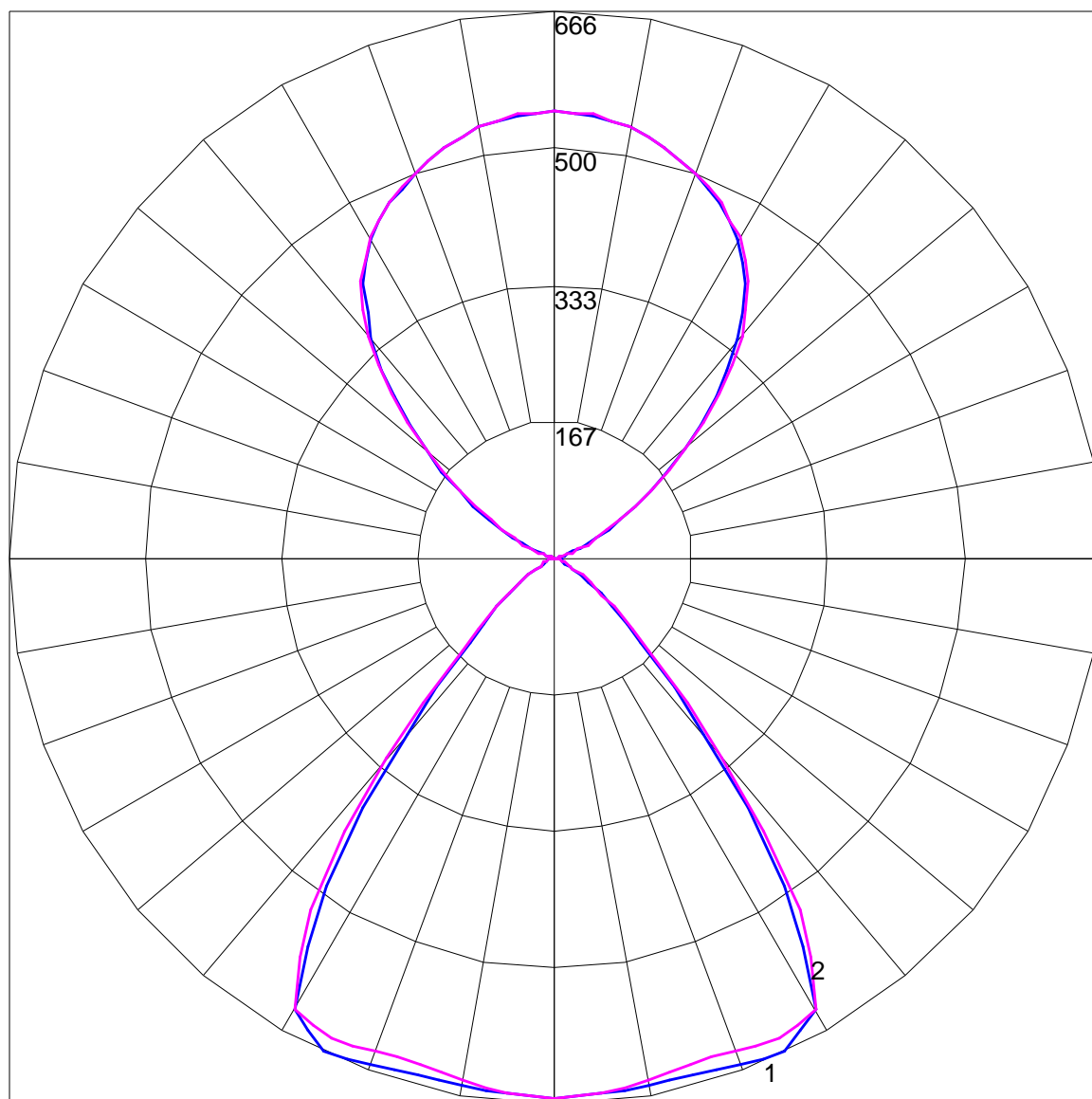
Effective Floor Cavity Reflectance 0.20

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	47	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 = 666.344 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)