

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00575 ~ C1216UDGV-37L35K-EX-TSG-SO\_DOWN.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00575\_M-37L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/21/2017

[UPDATE] 3/7/2018

[LUMCAT] C1216UDGV-37L-35K-EX-TSG-SO (Down Only)

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

[OTHER] This file is for Downlight Only;

[OTHER] To be used w/ companion uplight only file: SP-00576 series

[OTHER] This allows separate Up/Down Illumination Calcs to be run

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

[OTHER] Lens: Regressed Solite

[OTHER] 70 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Gen 3

[OTHER] Total Luminaire Watts is approximate

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

[OTHER] Data applicable to C1216GV and C1220GV Pendant, Surface and Wall Mount variants

[OTHER] Data applicable to CYK1220GV Yoke mounted variant

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2666
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.83 ft (Diameter)
Luminous Width (90-270)	0.83 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00575 ~ C1216UDGV-37L35K-EX-TSG-SO\_DOWN.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11583	10661	9300
55	4688	4530	3678
65	1662	1726	1332
75	655	681	454
85	488	485	365

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00575 ~ C1216UDGV-37L35K-EX-TSG-SO\_DOWN.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1686.244	1686.244	1686.244	1686.244	1686.244
<b>5</b>	1676.907	1679.424	1681.982	1681.349	1680.954
<b>10</b>	1659.275	1668.041	1672.470	1671.347	1670.611
<b>15</b>	1638.386	1652.351	1669.847	1667.533	1668.909
<b>20</b>	1637.971	1659.926	1684.390	1684.552	1688.618
<b>25</b>	1660.036	1681.348	1706.707	1705.916	1704.966
<b>30</b>	1626.906	1655.232	1629.980	1633.647	1584.392
<b>35</b>	1339.622	1326.709	1251.457	1236.865	1152.699
<b>40</b>	816.339	783.893	718.464	693.507	636.229
<b>45</b>	412.101	397.825	379.274	359.488	330.848
<b>50</b>	239.377	244.560	234.001	223.363	198.841
<b>55</b>	135.279	138.664	130.733	122.005	106.128
<b>60</b>	65.930	70.640	65.799	61.171	53.151
<b>65</b>	35.349	39.320	36.707	33.551	28.329
<b>70</b>	17.976	20.338	19.313	16.413	14.102
<b>75</b>	8.535	10.087	8.866	7.529	5.917
<b>80</b>	4.249	4.064	3.701	3.366	3.381
<b>85</b>	2.142	1.537	2.127	1.601	1.600
<b>90</b>	1.438	0.524	0.966	0.573	1.287

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00575 ~ C1216UDGV-37L35K-EX-TSG-SO\_DOWN.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	632.37	N.A.	23.70
0-30	1406.33	N.A.	52.70
0-40	2165.84	N.A.	81.20
0-60	2615.98	N.A.	98.10
0-80	2663.89	N.A.	99.90
0-90	2666.11	N.A.	100.00
10-90	2506.04	N.A.	94.00
20-40	1533.47	N.A.	57.50
20-50	1861.25	N.A.	69.80
40-70	487.88	N.A.	18.30
60-80	47.91	N.A.	1.80
70-80	10.17	N.A.	0.40
80-90	2.22	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2666.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.07
10-20	472.29
20-30	773.97
30-40	759.51
40-50	327.78
50-60	122.36
60-70	37.74
70-80	10.17
80-90	2.22
90-100	0.00
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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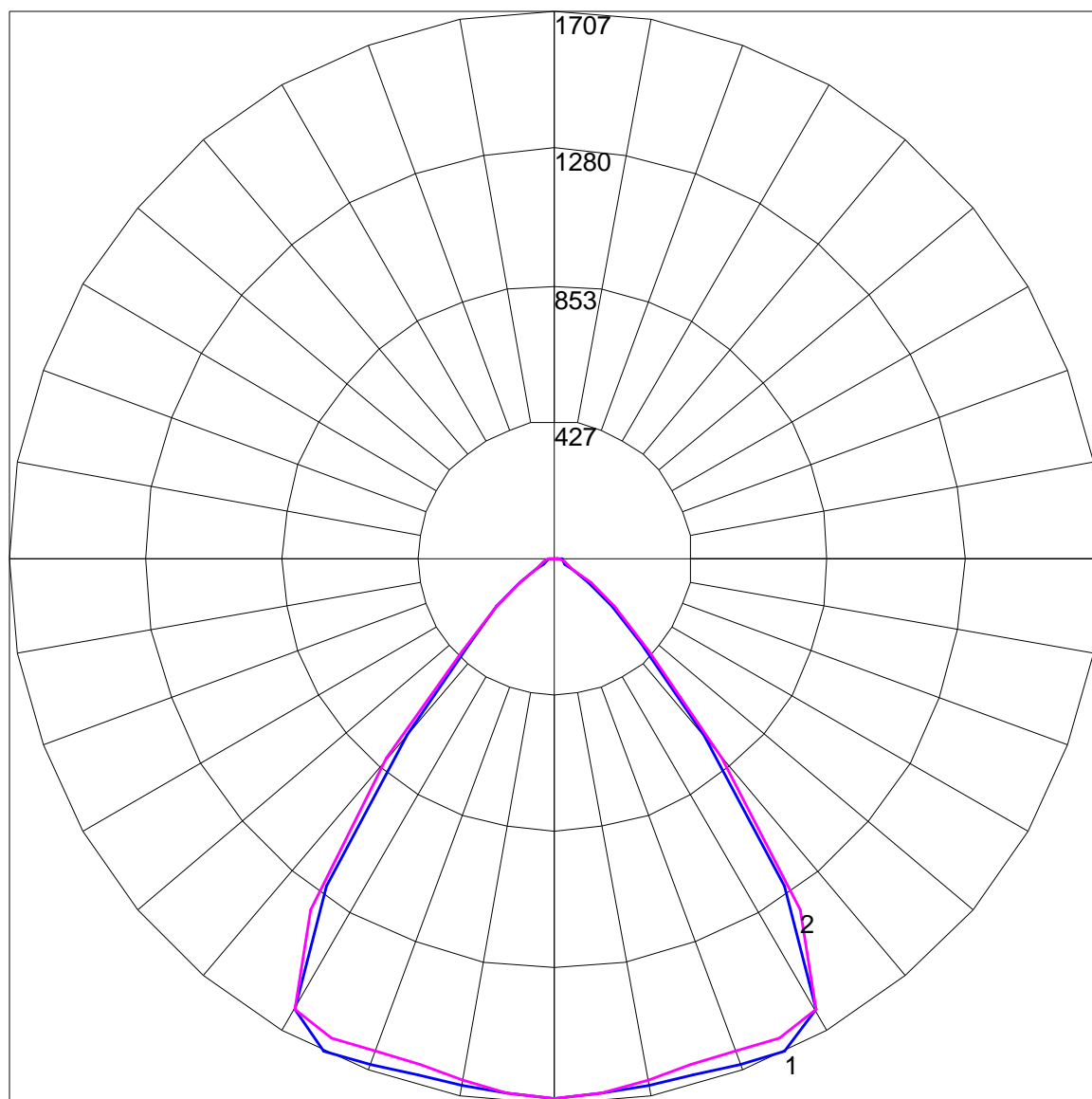
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	67	62	58	57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41

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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)