

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00575\_1 ~ C12XXGV-27L35K-EX-TSG-SO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00575\_1\_M-27L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/21/2017  
 [UPDATE] 3/7/2018  
 [LUMCAT] C1216UDGV-27L-35K-EX-TSG-SO  
 [LUMINAIRE] Nom. 12" Diam. x 16"H LED Downlight Cylinder  
 [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	1818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	18
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\_1 ~ C12XXGV-27L35K-EX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7897	7268	6340
55	3196	3088	2507
65	1133	1177	908
75	447	464	310
85	333	331	249

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**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>	1149.576	1149.576	1149.576	1149.576	1149.576
<b>5</b>	1143.211	1144.927	1146.670	1146.239	1145.970
<b>10</b>	1131.191	1137.167	1140.186	1139.421	1138.919
<b>15</b>	1116.949	1126.470	1138.398	1136.820	1137.758
<b>20</b>	1116.667	1131.634	1148.312	1148.423	1151.195
<b>25</b>	1131.709	1146.239	1163.526	1162.987	1162.340
<b>30</b>	1109.124	1128.435	1111.219	1113.719	1080.140
<b>35</b>	913.271	904.468	853.165	843.218	785.839
<b>40</b>	556.529	534.410	489.804	472.790	433.741
<b>45</b>	280.945	271.212	258.566	245.077	225.552
<b>50</b>	163.193	166.726	159.527	152.275	135.557
<b>55</b>	92.224	94.533	89.126	83.176	72.352
<b>60</b>	44.947	48.158	44.858	41.703	36.235
<b>65</b>	24.099	26.806	25.025	22.873	19.313
<b>70</b>	12.255	13.865	13.166	11.190	9.614
<b>75</b>	5.819	6.876	6.045	5.133	4.034
<b>80</b>	2.896	2.771	2.523	2.295	2.305
<b>85</b>	1.460	1.048	1.450	1.092	1.091
<b>90</b>	0.980	0.357	0.659	0.391	0.878

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	431.11	N.A.	23.70
0-30	958.75	N.A.	52.70
0-40	1476.54	N.A.	81.20
0-60	1783.41	N.A.	98.10
0-80	1816.07	N.A.	99.90
0-90	1817.59	N.A.	100.00
10-90	1708.46	N.A.	94.00
20-40	1045.43	N.A.	57.50
20-50	1268.89	N.A.	69.80
40-70	332.60	N.A.	18.30
60-80	32.66	N.A.	1.80
70-80	6.93	N.A.	0.40
80-90	1.52	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	1817.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.13
10-20	321.98
20-30	527.64
30-40	517.79
40-50	223.46
50-60	83.41
60-70	25.73
70-80	6.93
80-90	1.52
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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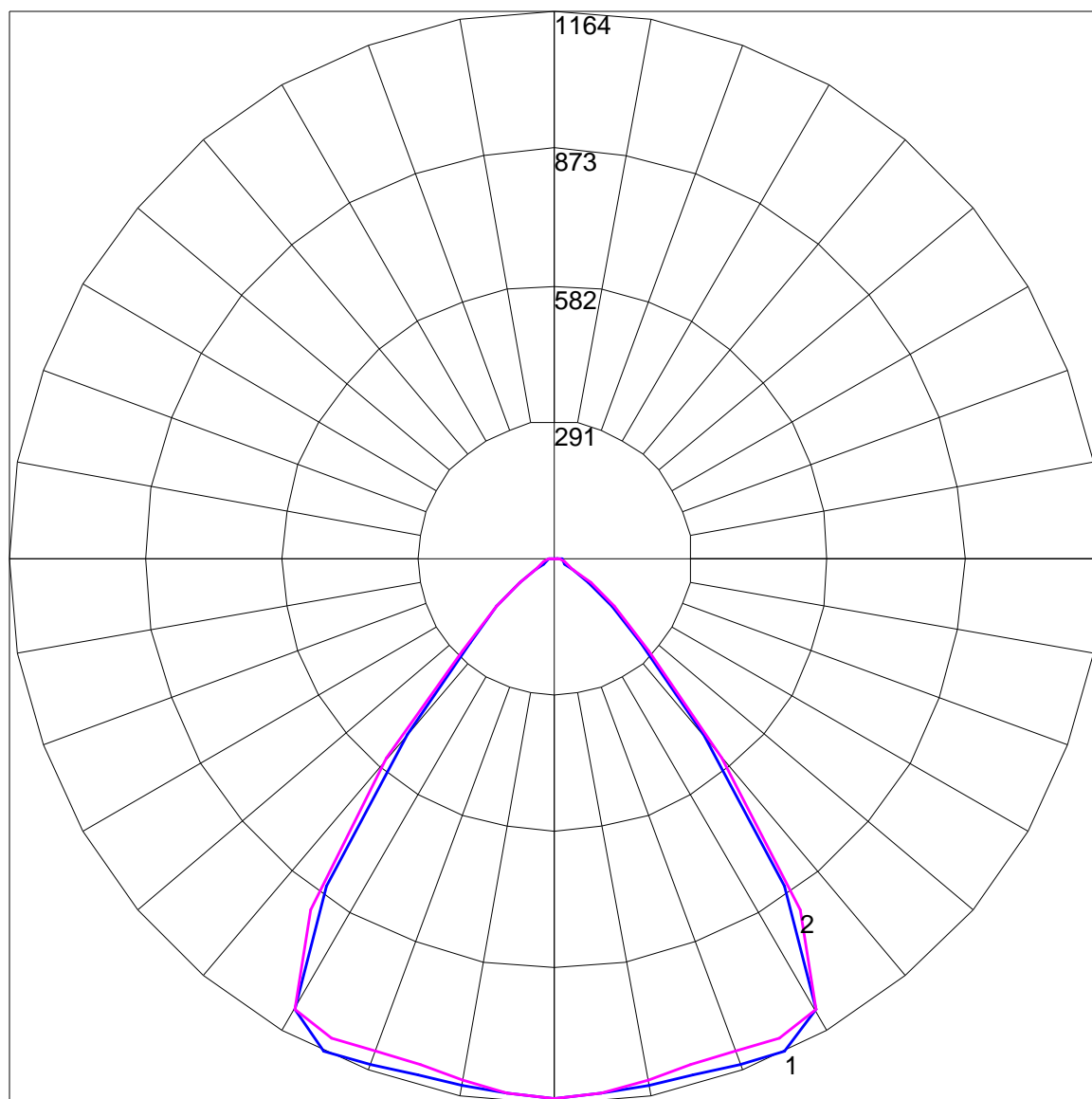
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	87	78	71	66	86	77	70	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 = 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)