

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00583 ~ C1210SQGV-27L35K-EX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00583\_M-27L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/20/2017

[UPDATE] 3/7/2018

[LUMCAT] C1210SQGV-27L-35K-EX-TSG-SO-xx-MW

[LUMINAIRE] Nom. 12" Square x 10"H LED Downlight Cylinder

[OTHER] Internal Reflector, Semi-diffuse, low iridescent clear finish

[OTHER] Solite lens, Matte White outer finish

[OTHER] 65.6 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Gen3

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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.67 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00583 ~ C1210SQGV-27L35K-EX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8837	9895	9072
55	7846	7604	8532
65	6429	6340	7052
75	4927	4970	5637
85	2440	2796	3830

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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>	1080.777	1080.777	1080.777	1080.777	1080.777
<b>5</b>	1084.495	1082.806	1081.738	1080.169	1080.047
<b>10</b>	1085.088	1083.777	1083.969	1082.043	1079.986
<b>15</b>	1075.777	1075.846	1082.151	1081.343	1074.209
<b>20</b>	1044.320	1059.120	1070.391	1067.732	1050.358
<b>25</b>	939.125	998.767	1040.809	1024.331	960.401
<b>30</b>	692.935	807.560	959.421	859.791	745.602
<b>35</b>	424.544	529.475	756.841	584.436	480.063
<b>40</b>	286.964	325.277	477.952	348.679	313.233
<b>45</b>	257.741	261.477	288.592	266.099	264.591
<b>50</b>	229.029	231.148	215.479	235.805	239.960
<b>55</b>	185.619	190.687	179.889	198.947	201.851
<b>60</b>	146.089	149.131	144.589	156.131	159.410
<b>65</b>	112.069	114.544	110.521	119.940	122.922
<b>70</b>	79.883	81.418	79.970	87.958	90.524
<b>75</b>	52.602	53.609	53.060	57.782	60.175
<b>80</b>	28.302	28.890	29.116	33.088	34.652
<b>85</b>	8.770	9.813	10.051	12.399	13.767
<b>90</b>	1.494	0.567	1.237	0.694	0.861

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	407.87	N.A.	22.70
0-30	857.25	N.A.	47.60
0-40	1223.41	N.A.	67.90
0-60	1611.49	N.A.	89.50
0-80	1785.95	N.A.	99.20
0-90	1800.46	N.A.	100.00
10-90	1697.17	N.A.	94.30
20-40	815.54	N.A.	45.30
20-50	1033.37	N.A.	57.40
40-70	503.27	N.A.	28.00
60-80	174.45	N.A.	9.70
70-80	59.26	N.A.	3.30
80-90	14.51	N.A.	0.80
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	1800.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.30
10-20	304.57
20-30	449.38
30-40	366.16
40-50	217.82
50-60	170.26
60-70	115.19
70-80	59.26
80-90	14.51
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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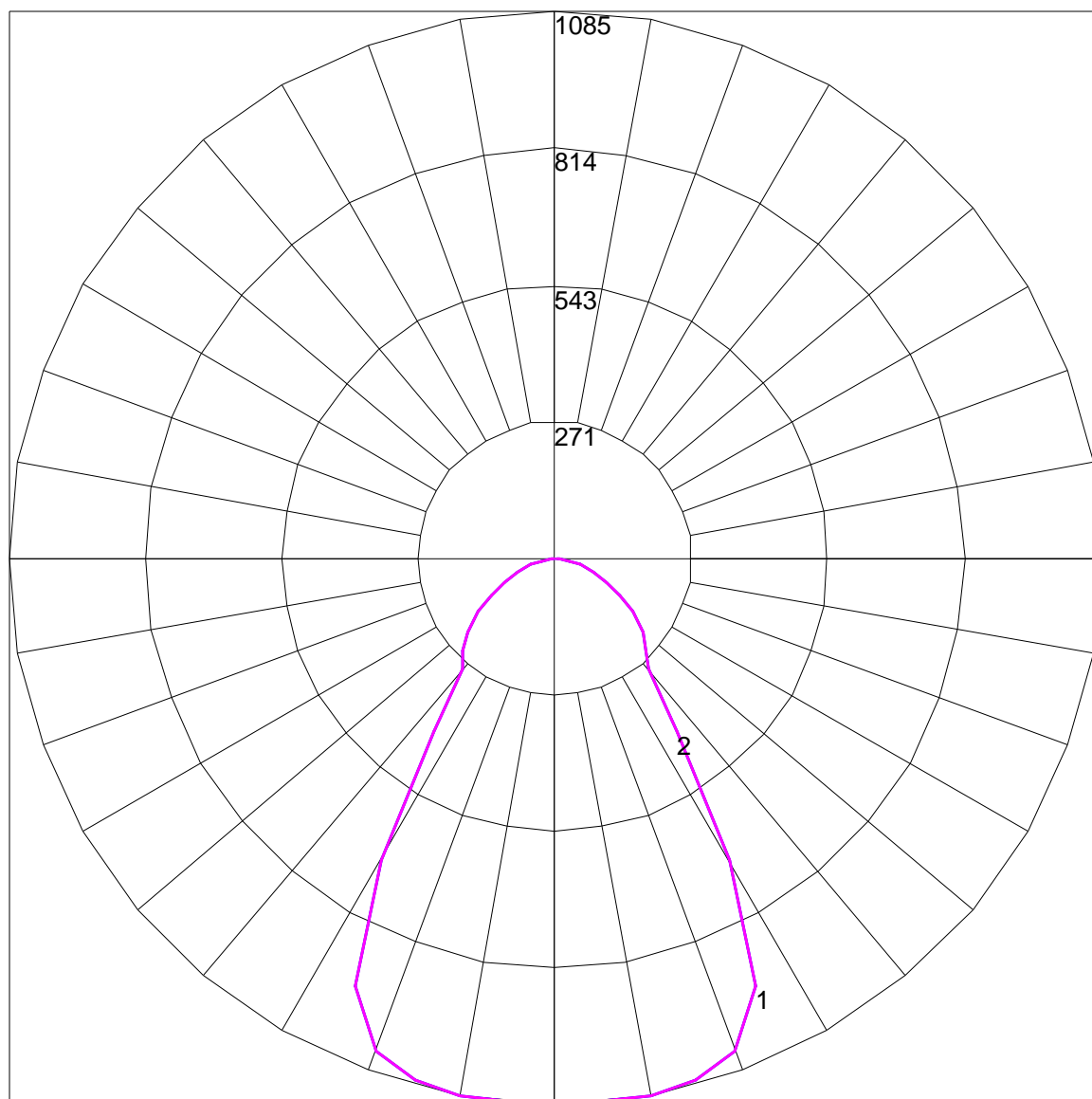
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36

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POLAR GRAPH



Maximum Candela = 1085.088 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)