

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00583 ~ C1210SQGV-37L35K-EX-TSG-SO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00583\_M-37L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2017  
 [UPDATE] 3/7/2018  
 [LUMCAT] C1210SQGV-37L-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	2641
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	26
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-37L35K-EX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12963	14514	13307
55	11509	11154	12515
65	9430	9300	10344
75	7228	7291	8268
85	3578	4101	5617

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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>	1585.327	1585.327	1585.327	1585.327	1585.327
<b>5</b>	1590.780	1588.303	1586.736	1584.435	1584.255
<b>10</b>	1591.650	1589.727	1590.008	1587.184	1584.167
<b>15</b>	1577.993	1578.093	1587.342	1586.157	1575.692
<b>20</b>	1531.850	1553.559	1570.092	1566.191	1540.706
<b>25</b>	1377.546	1465.031	1526.700	1502.529	1408.755
<b>30</b>	1016.424	1184.561	1407.317	1261.175	1093.678
<b>35</b>	622.737	776.654	1110.164	857.274	704.175
<b>40</b>	420.930	477.129	701.078	511.456	459.462
<b>45</b>	378.064	383.545	423.318	390.324	388.112
<b>50</b>	335.948	339.057	316.074	345.887	351.983
<b>55</b>	272.274	279.708	263.869	291.824	296.083
<b>60</b>	214.289	218.751	212.088	229.019	233.829
<b>65</b>	164.387	168.017	162.116	175.933	180.307
<b>70</b>	117.175	119.427	117.303	129.021	132.785
<b>75</b>	77.158	78.636	77.831	84.758	88.267
<b>80</b>	41.515	42.376	42.708	48.534	50.829
<b>85</b>	12.864	14.393	14.744	18.187	20.193
<b>90</b>	2.191	0.832	1.814	1.018	1.263

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	598.28	N.A.	22.70
0-30	1257.44	N.A.	47.60
0-40	1794.55	N.A.	67.90
0-60	2363.8	N.A.	89.50
0-80	2619.69	N.A.	99.20
0-90	2640.99	N.A.	100.00
10-90	2489.47	N.A.	94.30
20-40	1196.27	N.A.	45.30
20-50	1515.78	N.A.	57.40
40-70	738.22	N.A.	28.00
60-80	255.89	N.A.	9.70
70-80	86.93	N.A.	3.30
80-90	21.29	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	2640.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	151.52
10-20	446.76
20-30	659.17
30-40	537.10
40-50	319.51
50-60	249.75
60-70	168.96
70-80	86.93
80-90	21.29
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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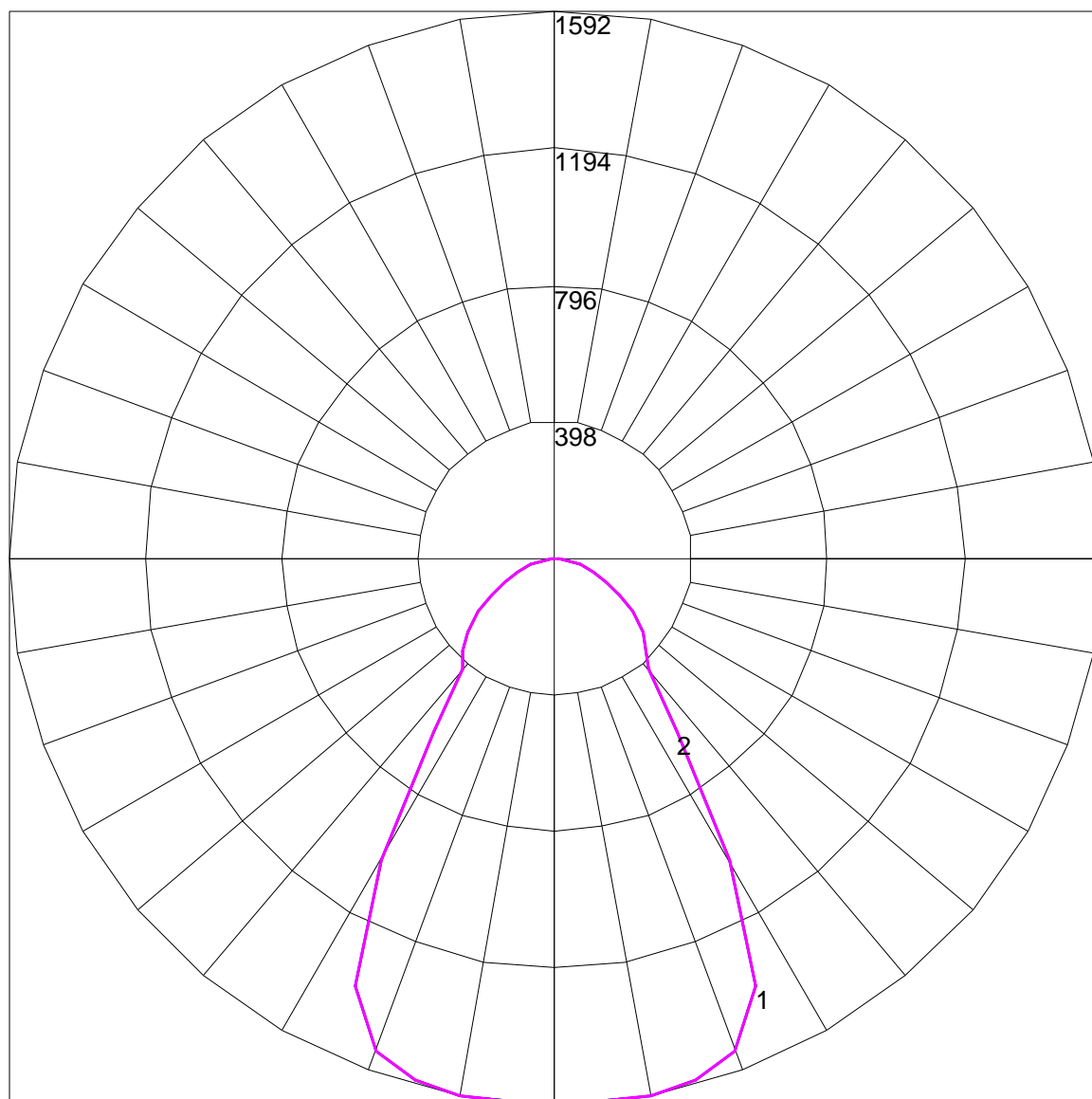
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	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	59	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 = 1591.65 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)