

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00575\_1 ~ C12XXGV-55L35K-EX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00575\_1

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/21/2017

[UPDATE] 3/7/2018

[LUMCAT] C1216UDGV-55L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	39
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-55L35K-EX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17059	15701	13696
55	6904	6672	5416
65	2448	2542	1962
75	965	1003	669
85	719	714	538

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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>	2483.422	2483.422	2483.422	2483.422	2483.422
<b>5</b>	2469.671	2473.379	2477.145	2476.213	2475.632
<b>10</b>	2443.704	2456.614	2463.137	2461.483	2460.399
<b>15</b>	2412.939	2433.506	2459.274	2455.866	2457.892
<b>20</b>	2412.329	2444.662	2480.692	2480.930	2486.919
<b>25</b>	2444.824	2476.212	2513.559	2512.394	2510.996
<b>30</b>	2396.033	2437.750	2400.560	2405.960	2333.419
<b>35</b>	1972.933	1953.916	1843.088	1821.598	1697.642
<b>40</b>	1202.267	1154.482	1058.121	1021.365	937.009
<b>45</b>	606.923	585.898	558.578	529.438	487.258
<b>50</b>	352.544	360.177	344.626	328.959	292.844
<b>55</b>	199.232	204.218	192.538	179.684	156.301
<b>60</b>	97.098	104.035	96.906	90.090	78.279
<b>65</b>	52.061	57.908	54.061	49.412	41.722
<b>70</b>	26.474	29.953	28.443	24.173	20.769
<b>75</b>	12.570	14.855	13.058	11.089	8.715
<b>80</b>	6.257	5.986	5.450	4.957	4.980
<b>85</b>	3.155	2.264	3.132	2.358	2.357
<b>90</b>	2.118	0.772	1.423	0.844	1.896

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Zone	Lumens	%Lamp	%Fixt
0-20	931.32	N.A.	23.70
0-30	2071.18	N.A.	52.70
0-40	3189.75	N.A.	81.20
0-60	3852.7	N.A.	98.10
0-80	3923.25	N.A.	99.90
0-90	3926.53	N.A.	100.00
10-90	3690.78	N.A.	94.00
20-40	2258.43	N.A.	57.50
20-50	2741.17	N.A.	69.80
40-70	718.52	N.A.	18.30
60-80	70.56	N.A.	1.80
70-80	14.98	N.A.	0.40
80-90	3.27	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	3926.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	235.75
10-20	695.57
20-30	1139.86
30-40	1118.57
40-50	482.74
50-60	180.20
60-70	55.58
70-80	14.98
80-90	3.27
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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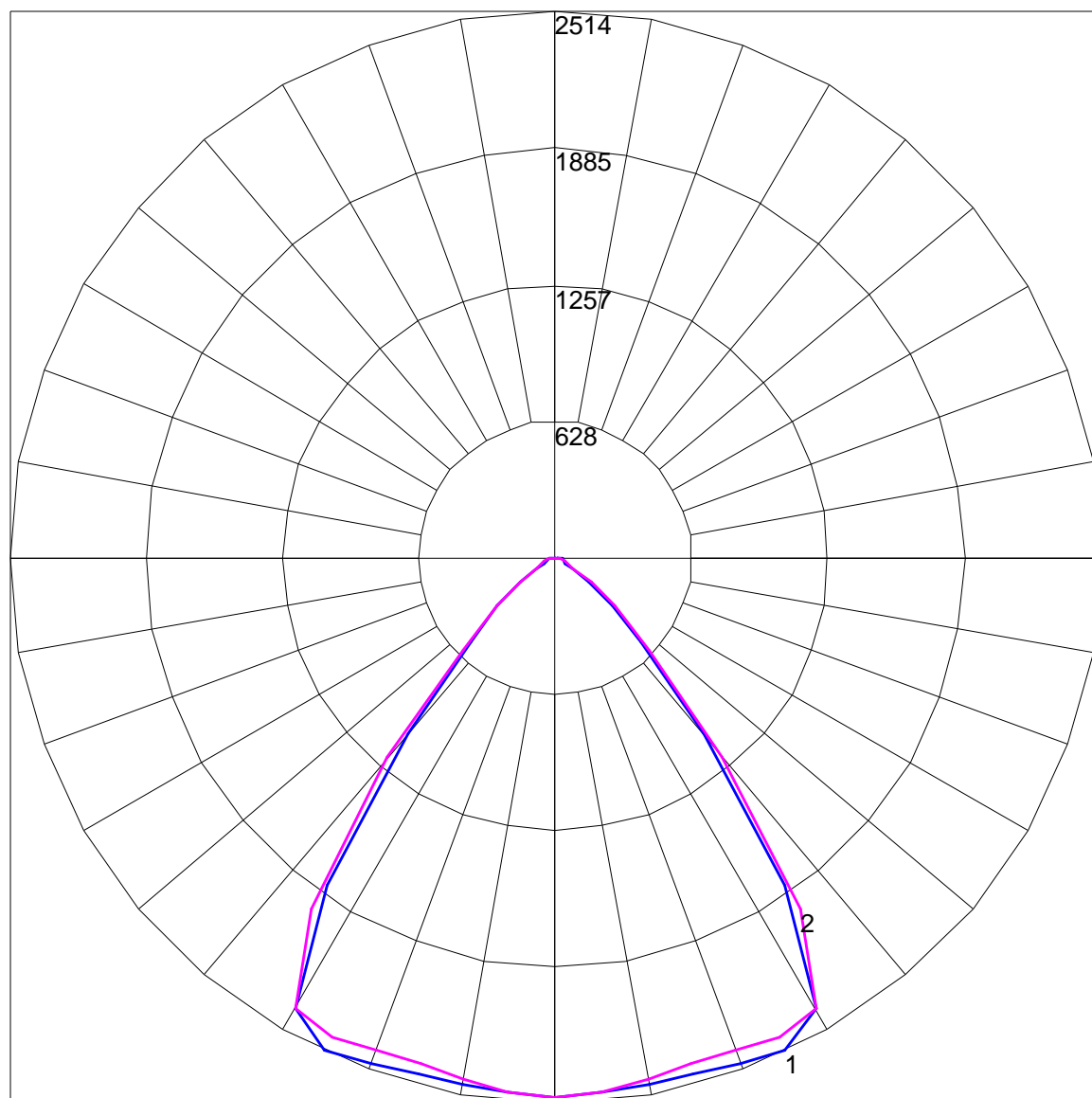
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	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 = 2513.559 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)