

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4LEDGV-27L35KE1-AR4222GVSG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Fri Aug 05 2016

[UPDATE] Wed Aug 10 2016

[TEST] SP-00521_M-27L

[MANUFAC] Spectrum Lighting

[LUMCAT]SGE4LEDGV-27L-35K-E1-AR4222GV-SG

[LUMINAIRE] 4" aperture, downlight

[TRIM]Semi-diffuse anodized cone, open aperture

[LAMP]N/A, Min. 85 CRI

[LAMPCAT]N/A

[OTHER]Total Luminaire Wattage is approximate

[OTHER]CCT Output Multipliers: 50K x 1.07, 40K x 1.03, 30K x 0.98, 27K x 0.97

[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	1519
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	22.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34551	35033	34499
55	14200	13960	14011
65	3618	3681	3567
75	426	367	386
85	184	177	198

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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>
0	1599.940	1599.940	1599.940	1599.940	1599.940
5	1552.820	1565.950	1556.985	1561.130	1549.645
10	1535.550	1525.145	1515.025	1514.750	1516.295
15	1359.980	1342.460	1342.140	1347.665	1349.950
20	1119.680	1117.200	1123.275	1121.120	1113.025
25	906.160	905.575	903.820	906.095	911.365
30	716.630	724.155	722.795	721.600	721.160
35	547.165	544.055	547.245	549.140	547.020
40	358.490	362.145	361.995	360.405	360.965
45	198.220	198.360	200.985	200.005	197.920
50	101.675	103.180	102.665	102.665	102.865
55	66.080	64.290	64.965	64.415	65.200
60	36.010	35.190	36.305	35.275	35.155
65	12.405	12.120	12.620	12.290	12.230
70	1.420	1.390	1.460	1.370	1.630
75	0.895	0.825	0.770	0.725	0.810
80	0.390	0.360	0.360	0.370	0.465
85	0.130	0.120	0.125	0.175	0.140
90	0.000	0.000	0.010	0.000	0.035

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	521.24	N.A.	34.30
0-30	939.69	N.A.	61.90
0-40	1278.01	N.A.	84.20
0-60	1502.45	N.A.	98.90
0-80	1518.48	N.A.	100.00
0-90	1518.66	N.A.	100.00
10-90	1370.75	N.A.	90.30
20-40	756.77	N.A.	49.80
20-50	921.57	N.A.	60.70
40-70	239.57	N.A.	15.80
60-80	16.03	N.A.	1.10
70-80	0.90	N.A.	0.10
80-90	0.18	N.A.	0.00
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	1518.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.91
10-20	373.33
20-30	418.46
30-40	338.32
40-50	164.80
50-60	59.64
60-70	15.14
70-80	0.90
80-90	0.18
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

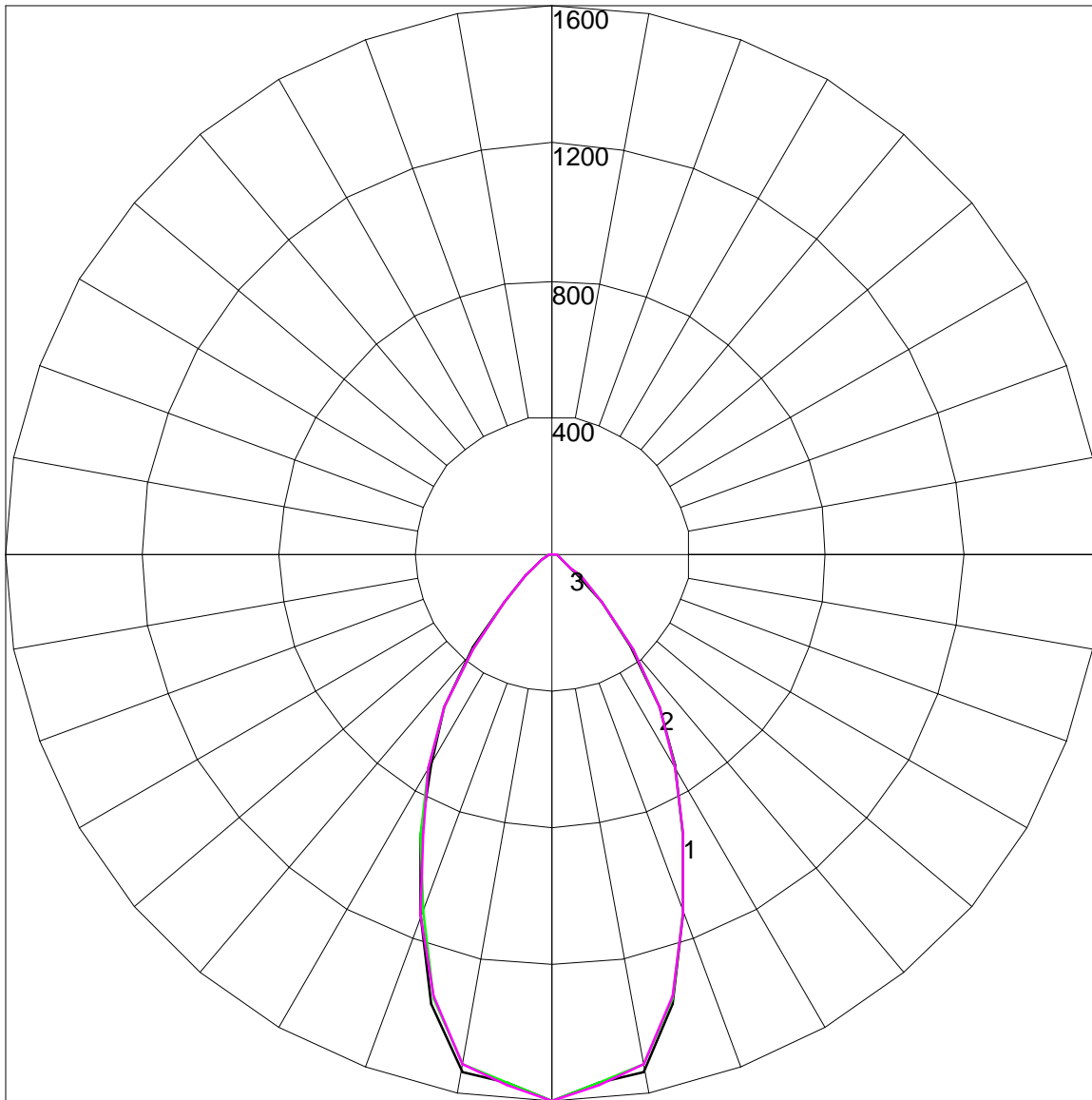
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	52	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

POLAR GRAPH



Maximum Candela = 1599.94 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)