

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE8LEDGV-55L35KE1-AR8222GVSGSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Thu Aug 11 2016

[UPDATE] Fri Aug 12 2016

[TEST] SP-00307_52

[MANUFAC] Spectrum Lighting

[LUMCAT] SGE8LEDGV-55L-35K-E1-AR8222GV-SG-SO

[LUMINAIRE] 8" aperture, downlight

[TRIM] Semi-diffuse anodized cone, open aperture, regressed Solite lens

[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	42.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	29357	30068	29506
55	8246	8229	8624
65	1486	1489	1499
75	22	50	36
85	49	53	41

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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	2117.21	2117.21	2117.21	2117.21	2117.21
5	2103.51	2055.53	2137.17	2090.44	2083.93
10	2143.15	2134.64	2159.39	2129.48	2132.63
15	2059.79	2135.16	2081.35	2081.70	2130.08
20	1998.47	1988.82	1990.56	2007.42	1964.60
25	1796.48	1792.76	1788.85	1789.40	1766.51
30	1558.32	1562.11	1563.48	1568.55	1560.90
35	1309.60	1277.82	1285.33	1287.81	1271.72
40	945.44	959.93	965.59	962.36	979.80
45	580.90	597.67	594.98	600.51	583.86
50	285.38	289.41	288.68	285.64	289.69
55	132.36	136.70	132.09	134.12	138.43
60	65.08	67.21	64.41	66.61	69.12
65	17.57	17.31	17.61	18.83	17.73
70	0.49	0.54	0.59	0.56	0.34
75	0.16	0.51	0.36	0.35	0.26
80	0.38	0.35	0.11	0.23	0.39
85	0.12	0.07	0.13	0.08	0.10
90	0.00	0.00	0.00	0.00	0.06

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	790.37	N.A.	26.00
0-30	1610.98	N.A.	53.10
0-40	2405.56	N.A.	79.20
0-60	3010.21	N.A.	99.20
0-80	3035.72	N.A.	100.00
0-90	3035.85	N.A.	100.00
10-90	2834.02	N.A.	93.40
20-40	1615.2	N.A.	53.20
20-50	2081.56	N.A.	68.60
40-70	629.76	N.A.	20.70
60-80	25.52	N.A.	0.80
70-80	0.40	N.A.	0.00
80-90	0.13	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	3035.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.83
10-20	588.54
20-30	820.62
30-40	794.58
40-50	466.36
50-60	138.28
60-70	25.12
70-80	0.40
80-90	0.13
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

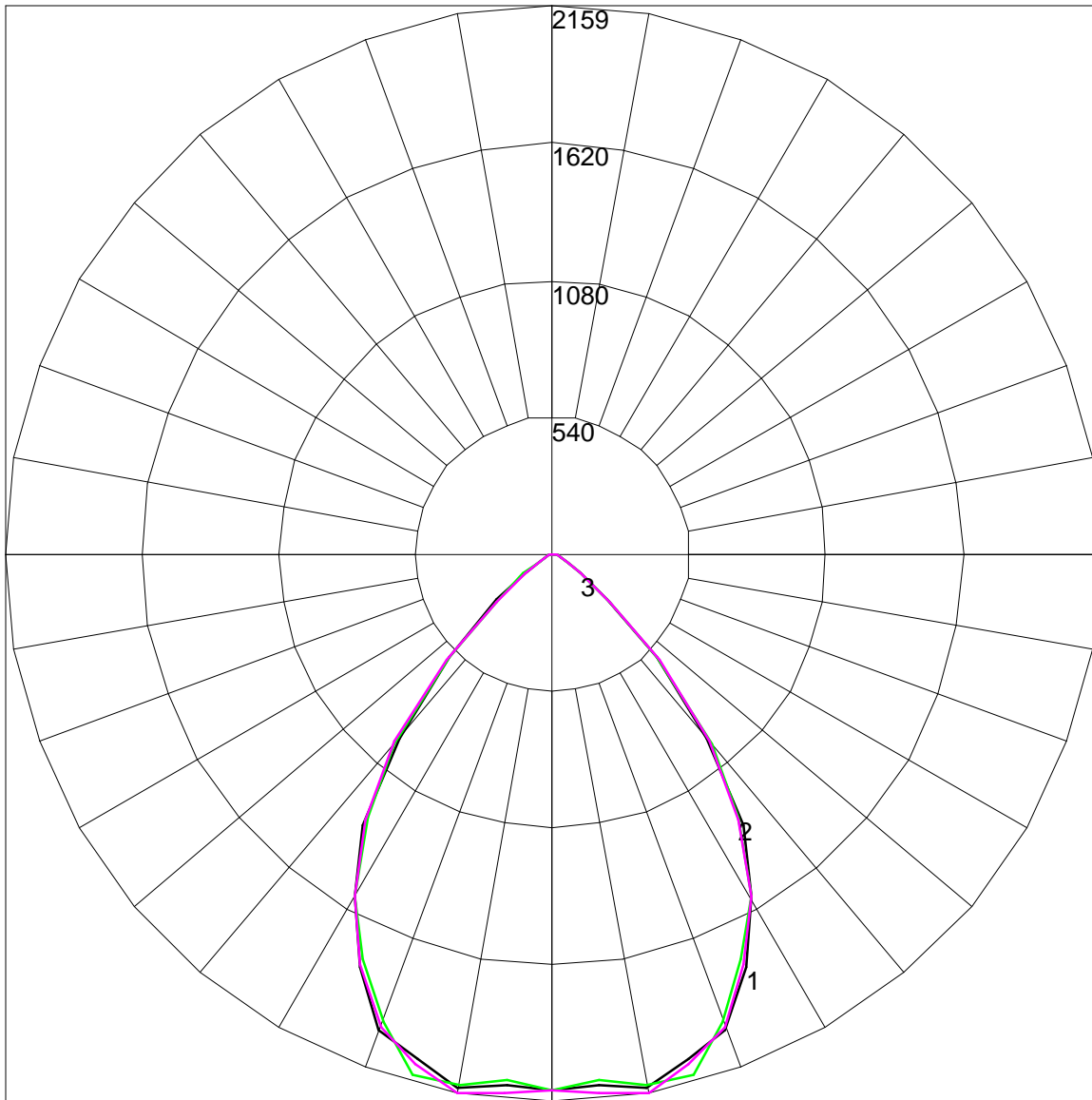
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	77	74	71	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	72	66	61	81	72	65	60	70	64	60	68	63	59	67	63	59	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	62	58	54	53
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 2159.39 Located At Horizontal Angle = 45, Vertical Angle = 10

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

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

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