SPECTRUM LIGHTING INC.
www.speclight.com

PHOTOMETRY

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4LEDGV-15L35KE1-AR4222GVSG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies
[ISSUEDATE]
[TESTDATE] Fri Aug 05 2016
[UPDATE] Wed Aug 10 2016
[TEST] SP-00521_M-15L
[MANUFAC] Spectrum Lighting
[LUMCAT]SGE4LEDGV-15L-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	840
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	13.3
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	19107	19373	19078
55	7852	7720	7748
65	2001	2035	1972
75	236	203	213
85	102	98	109

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	884.767	884.767	884.767	884.767	884.767
5	858.709	865.970	861.013	863.305	856.954
10	849.159	843.405	837.809	837.657	838.511
15	752.069	742.380	742.203	745.259	746.522
20	619.183	617.812	621.171	619.979	615.503
25	501.106	500.783	499.812	501.071	503.985
30	396.296	400.458	399.706	399.045	398.801
35	302.582	300.862	302.626	303.674	302.502
40	198.245	200.266	200.183	199.304	199.614
45	109.616	109.693	111.145	110.603	109.450
50	56.226	57.059	56.774	56.774	56.884
55	36.542	35.552	35.926	35.621	36.056
60	19.914	19.460	20.077	19.507	19.441
65	6.860	6.702	6.979	6.796	6.763
70	0.785	0.769	0.807	0.758	0.901
75	0.495	0.456	0.426	0.401	0.448
80	0.216	0.199	0.199	0.205	0.257
85	0.072	0.066	0.069	0.097	0.077
90	0.000	0.000	0.006	0.000	0.019

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.24	N.A.	34.30
0-30	519.65	N.A.	61.90
0-40	706.74	N.A.	84.20
0-60	830.85	N.A.	98.90
0-80	839.72	N.A.	100.00
0-90	839.82	N.A.	100.00
10-90	758.03	N.A.	90.30
20-40	418.50	N.A.	49.80
20-50	509.63	N.A.	60.70
40-70	132.48	N.A.	15.80
60-80	8.87	N.A.	1.10
70-80	0.50	N.A.	0.10
80-90	0.10	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	839.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.79
10-20	206.45
20-30	231.41
30-40	187.09
40-50	91.13
50-60	32.98
60-70	8.37
70-80	0.50
80-90	0.10
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

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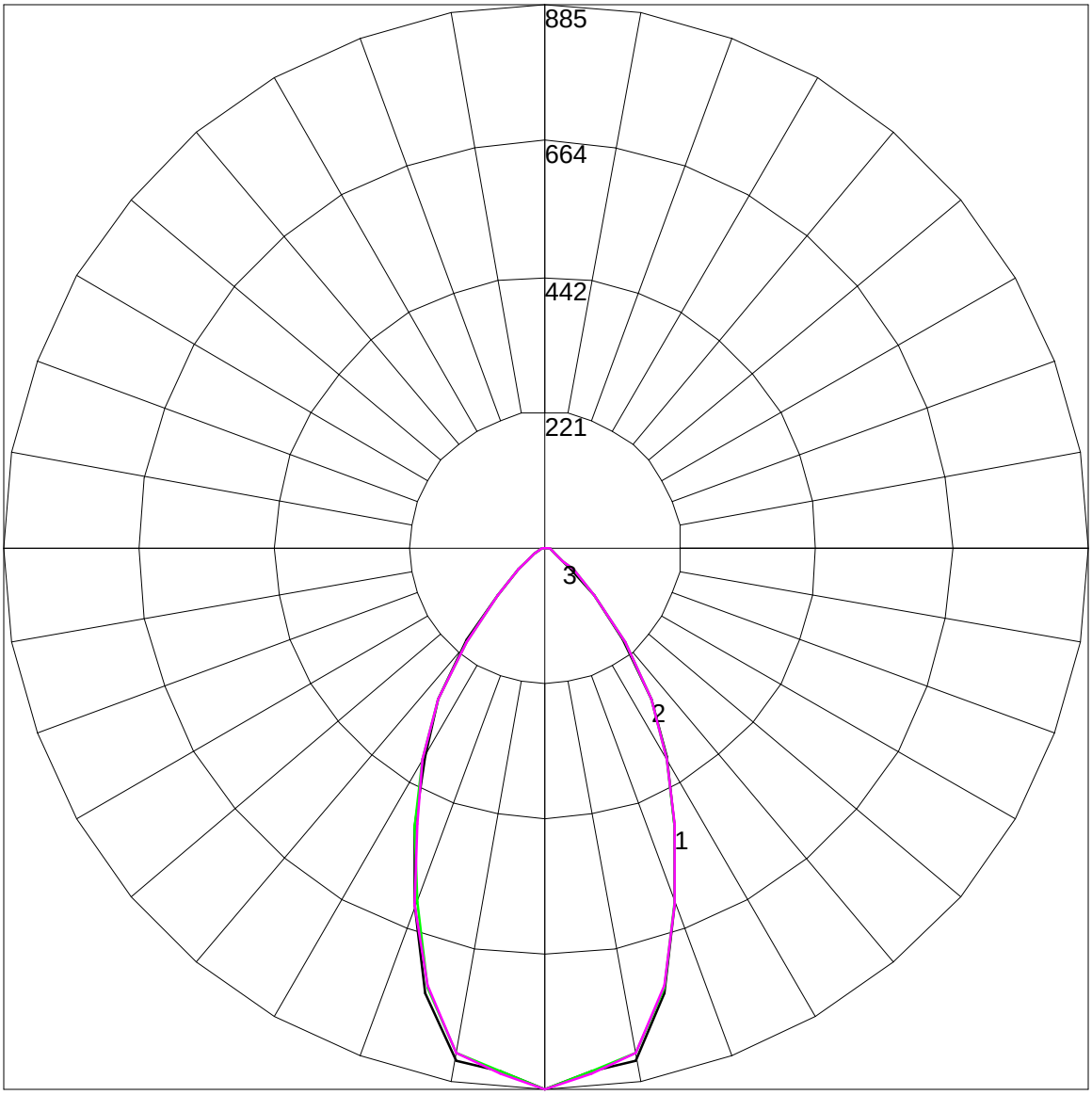
POLAR GRAPH



Maximum Candela = 884.767 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)

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