

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE5LEDOS-30L35KEX-AR5224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-009  
[TESTLAB] Intertek  
[ISSUE DATE] 09/19/2016  
[UPDATE] 10/28/2016  
[LAB-REF LUMCAT] CRT1609071034-005-2  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGE5LEDOS-30L-35K-EX-AR5224OS-SG-SO  
[LUMINAIRE] 5" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE  
[OTHER] DEEP PROFILE  
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS  
[OTHER] 39.5 DEGREE BEAM ANGLE  
[LAMP] N/A  
[LAMPCAT] N/A  
[OTHER] TOTAL LUMINAIRE WATTS IS APPROXIMATE  
[OTHER] PHOTOMETRIC MEASUREMENTS TAKEN AT 120VAC  
[OTHER] CCT OUTPUT MULTIPLIERS: 40K x 1.0, 30K x 1.0, 27K x 0.945  
[OTHER] THIS REPORT UPDATED BY SPECTRUM LIGHTING

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	27.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.42 ft (Diameter)
Luminous Width (90-270)	0.42 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12964	13008	12931
55	2328	2314	2179
65	0	0	0
75	0	0	0
85	0	0	0

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
<b>2.5</b>	4249.9	4247.2	4248.5	4247.7	4243.6	4247.7	4248.5	4247.2	4249.9	4247.2
<b>5.0</b>	4127.3	4124.3	4127.1	4128.6	4124.3	4128.6	4127.1	4124.3	4127.3	4124.3
<b>7.5</b>	3896.1	3890.7	3892.8	3893.8	3892.9	3893.8	3892.8	3890.7	3896.1	3890.7
<b>10.0</b>	3569.7	3554.3	3553.5	3555.1	3558.5	3555.1	3553.5	3554.3	3569.7	3554.3
<b>12.5</b>	3177.6	3168.0	3163.4	3157.4	3168.3	3157.4	3163.4	3168.0	3177.6	3168.0
<b>15.0</b>	2793.1	2787.8	2777.8	2774.7	2771.3	2774.7	2777.8	2787.8	2793.1	2787.8
<b>17.5</b>	2424.7	2421.9	2414.8	2410.4	2410.8	2410.4	2414.8	2421.9	2424.7	2421.9
<b>20.0</b>	2116.6	2117.6	2116.0	2108.3	2102.4	2108.3	2116.0	2117.6	2116.6	2117.6
<b>22.5</b>	1871.6	1871.6	1869.5	1869.3	1864.1	1869.3	1869.5	1871.6	1871.6	1871.6
<b>25.0</b>	1622.8	1621.9	1617.3	1620.9	1615.0	1620.9	1617.3	1621.9	1622.8	1621.9
<b>27.5</b>	1350.5	1347.5	1343.5	1349.3	1352.2	1349.3	1343.5	1347.5	1350.5	1347.5
<b>30.0</b>	1068.6	1068.2	1071.5	1072.0	1074.8	1072.0	1071.5	1068.2	1068.6	1068.2
<b>32.5</b>	800.9	801.4	808.6	809.7	803.5	809.7	808.6	801.4	800.9	801.4
<b>35.0</b>	558.8	558.7	562.0	564.3	560.4	564.3	562.0	558.7	558.8	558.7
<b>37.5</b>	372.4	373.4	372.3	373.9	371.6	373.9	372.3	373.4	372.4	373.4
<b>40.0</b>	249.0	249.2	246.6	248.0	247.7	248.0	246.6	249.2	249.0	249.2
<b>42.5</b>	170.0	170.4	170.0	170.0	169.2	170.0	170.0	170.4	170.0	170.4
<b>45.0</b>	118.1	118.6	118.5	118.2	117.8	118.2	118.5	118.6	118.1	118.6
<b>47.5</b>	82.5	82.3	82.1	81.9	81.7	81.9	82.1	82.3	82.5	82.3
<b>50.0</b>	55.7	55.6	55.4	55.2	55.0	55.2	55.4	55.6	55.7	55.6
<b>52.5</b>	33.5	33.6	33.6	33.2	32.9	33.2	33.6	33.6	33.5	33.6
<b>55.0</b>	17.2	17.5	17.1	16.6	16.1	16.6	17.1	17.5	17.2	17.5
<b>57.5</b>	5.8	6.1	5.8	6.0	6.0	6.0	5.8	6.1	5.8	6.1
<b>60.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>62.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>65.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>67.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>70.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>72.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>75.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>77.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>80.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>82.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>85.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>87.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
<b>0.0</b>	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
<b>2.5</b>	4248.5	4247.7	4243.6	4247.7	4248.5	4247.2	4249.9
<b>5.0</b>	4127.1	4128.6	4124.3	4128.6	4127.1	4124.3	4127.3
<b>7.5</b>	3892.8	3893.8	3892.9	3893.8	3892.8	3890.7	3896.1
<b>10.0</b>	3553.5	3555.1	3558.5	3555.1	3553.5	3554.3	3569.7
<b>12.5</b>	3163.4	3157.4	3168.3	3157.4	3163.4	3168.0	3177.6
<b>15.0</b>	2777.8	2774.7	2771.3	2774.7	2777.8	2787.8	2793.1
<b>17.5</b>	2414.8	2410.4	2410.8	2410.4	2414.8	2421.9	2424.7
<b>20.0</b>	2116.0	2108.3	2102.4	2108.3	2116.0	2117.6	2116.6
<b>22.5</b>	1869.5	1869.3	1864.1	1869.3	1869.5	1871.6	1871.6
<b>25.0</b>	1617.3	1620.9	1615.0	1620.9	1617.3	1621.9	1622.8
<b>27.5</b>	1343.5	1349.3	1352.2	1349.3	1343.5	1347.5	1350.5
<b>30.0</b>	1071.5	1072.0	1074.8	1072.0	1071.5	1068.2	1068.6

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	808.6	809.7	803.5	809.7	808.6	801.4	800.9
<b>35.0</b>	562.0	564.3	560.4	564.3	562.0	558.7	558.8
<b>37.5</b>	372.3	373.9	371.6	373.9	372.3	373.4	372.4
<b>40.0</b>	246.6	248.0	247.7	248.0	246.6	249.2	249.0
<b>42.5</b>	170.0	170.0	169.2	170.0	170.0	170.4	170.0
<b>45.0</b>	118.5	118.2	117.8	118.2	118.5	118.6	118.1
<b>47.5</b>	82.1	81.9	81.7	81.9	82.1	82.3	82.5
<b>50.0</b>	55.4	55.2	55.0	55.2	55.4	55.6	55.7
<b>52.5</b>	33.6	33.2	32.9	33.2	33.6	33.6	33.5
<b>55.0</b>	17.1	16.6	16.1	16.6	17.1	17.5	17.2
<b>57.5</b>	5.8	6.0	6.0	6.0	5.8	6.1	5.8
<b>60.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>62.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>65.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>67.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>70.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>72.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>75.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>77.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>80.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>82.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>85.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>87.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1147.91	N.A.	48.60
0-30	1877.74	N.A.	79.50
0-40	2244.21	N.A.	95.00
0-60	2361.69	N.A.	100.00
0-80	2361.69	N.A.	100.00
0-90	2361.69	N.A.	100.00
10-90	1986.12	N.A.	84.10
20-40	1096.3	N.A.	46.40
20-50	1195.42	N.A.	50.60
40-70	117.49	N.A.	5.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	2361.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	375.57
10-20	772.34
20-30	729.83
30-40	366.46
40-50	99.12
50-60	18.37
60-70	0.00
70-80	0.00
80-90	0.00
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

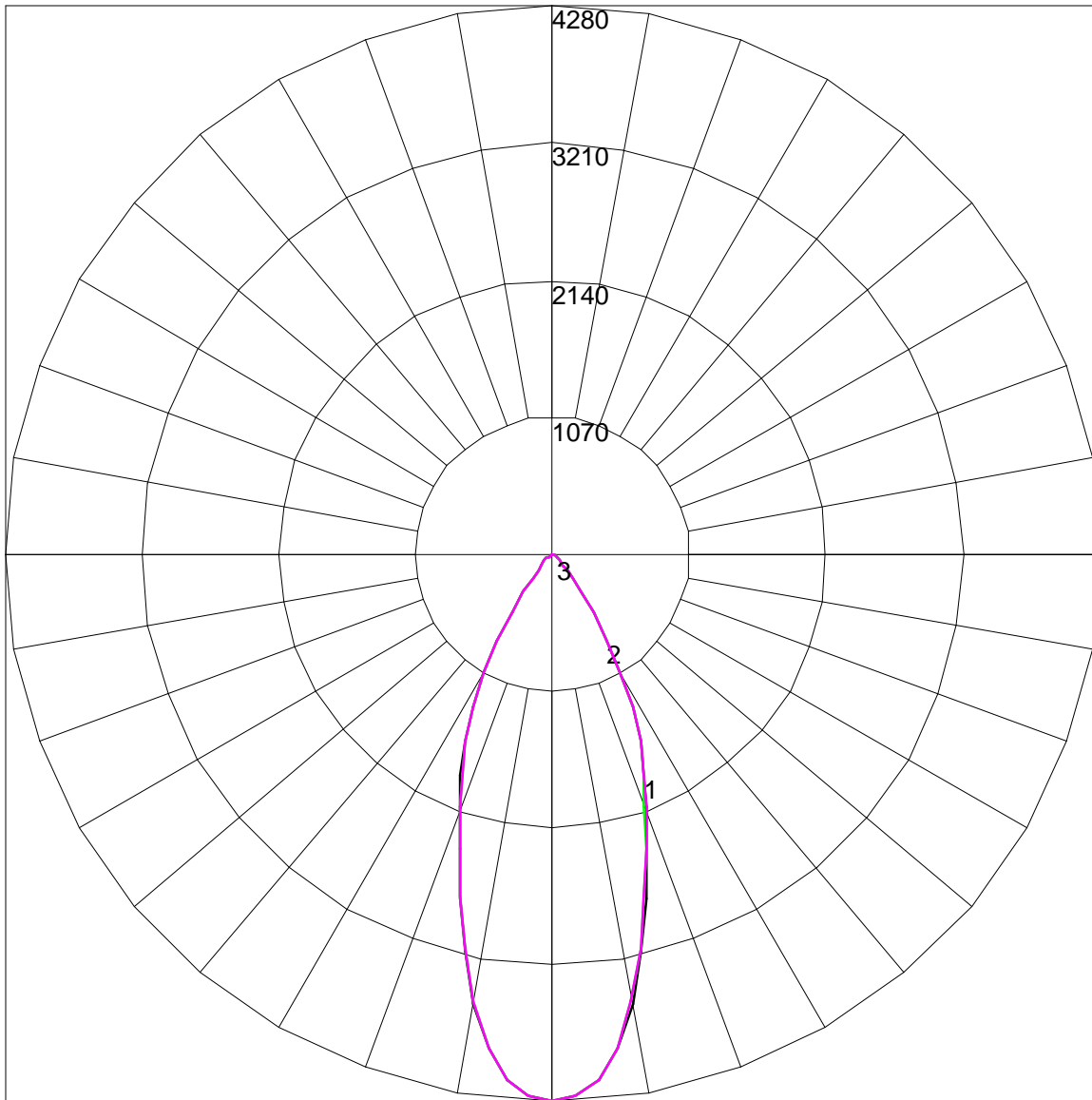
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	83	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57

POLAR GRAPH



Maximum Candela = 4279.5 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)