

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE4LEDOS-10L35KEX-AR4224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-005\_M-10L  
[TESTLAB] Intertek  
[ISSUE DATE] 09/19/2016  
[UPDATE] 1/4/2017  
[LAB-REF LUMCAT] CRT1609071034-002-2\_M-10L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGE4LEDOS-10L-35K-EX-AR4224OS-SG-SO  
[LUMINAIRE] 4" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE  
[OTHER] DEEP PROFILE  
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS  
[OTHER] 51.1 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, SCALED FROM 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.80
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13837	13636	13703
55	4715	4580	4542
65	795	724	734
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>
0.0	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795
2.5	1024.281	1025.616	1023.801	1024.281	1023.835	1024.281	1023.801	1025.616	1024.281	1025.616
5.0	1010.923	1008.457	1008.080	1015.067	1013.047	1015.067	1008.080	1008.457	1010.923	1008.457
7.5	982.256	983.523	985.921	987.119	981.982	987.119	985.921	983.523	982.256	983.523
10.0	941.567	944.512	939.991	944.581	947.835	944.581	939.991	944.512	941.567	944.512
12.5	891.391	890.911	890.329	888.342	890.158	888.342	890.329	890.911	891.391	890.911
15.0	840.735	836.556	833.234	831.008	839.262	831.008	833.234	836.556	840.735	836.556
17.5	773.194	776.071	770.899	776.516	777.646	776.516	770.899	776.071	773.194	776.071
20.0	707.468	709.968	700.687	707.537	706.304	707.537	700.687	709.968	707.468	709.968
22.5	628.145	627.905	619.411	623.521	624.138	623.521	619.411	627.905	628.145	627.905
25.0	536.800	536.287	534.095	532.074	535.259	532.074	534.095	536.287	536.800	536.287
27.5	439.462	442.305	439.291	438.777	439.907	438.777	439.291	442.305	439.462	442.305
30.0	350.720	351.131	349.453	348.391	346.679	348.391	349.453	351.131	350.720	351.131
32.5	267.767	267.664	267.767	265.403	265.164	265.403	267.767	267.664	267.767	267.664
35.0	200.328	199.609	197.520	197.554	199.301	197.554	197.520	199.609	200.328	199.609
37.5	151.419	150.632	148.611	149.193	150.906	149.193	148.611	150.632	151.419	150.632
40.0	118.950	119.122	118.060	117.923	118.848	117.923	118.060	119.122	118.950	119.122
42.5	96.174	95.900	95.215	95.284	95.729	95.284	95.215	95.900	96.174	95.900
45.0	77.816	77.234	76.686	76.583	77.063	76.583	76.686	77.234	77.816	77.234
47.5	61.342	60.691	60.109	60.040	60.588	60.040	60.109	60.691	61.342	60.691
50.0	46.546	45.964	45.416	45.176	45.621	45.176	45.416	45.964	46.546	45.964
52.5	32.914	32.743	32.298	31.818	32.229	31.818	32.298	32.743	32.914	32.743
55.0	21.509	21.235	20.893	20.687	20.721	20.687	20.893	21.235	21.509	21.235
57.5	12.638	12.330	11.988	11.953	11.988	11.953	11.988	12.330	12.638	12.330
60.0	7.021	6.816	6.576	6.473	6.439	6.473	6.576	6.816	7.021	6.816
62.5	4.453	4.384	4.213	3.939	4.042	3.939	4.213	4.384	4.453	4.384
65.0	2.672	2.637	2.432	2.363	2.466	2.363	2.432	2.637	2.672	2.637
67.5	1.473	1.370	1.336	1.130	1.165	1.130	1.336	1.370	1.473	1.370
70.0	0.480	0.548	0.445	0.308	0.308	0.308	0.445	0.548	0.480	0.548
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0.0	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795	1029.795
2.5	1023.801	1024.281	1023.835	1024.281	1023.801	1025.616	1024.281
5.0	1008.080	1015.067	1013.047	1015.067	1008.080	1008.457	1010.923
7.5	985.921	987.119	981.982	987.119	985.921	983.523	982.256
10.0	939.991	944.581	947.835	944.581	939.991	944.512	941.567
12.5	890.329	888.342	890.158	888.342	890.329	890.911	891.391
15.0	833.234	831.008	839.262	831.008	833.234	836.556	840.735
17.5	770.899	776.516	777.646	776.516	770.899	776.071	773.194
20.0	700.687	707.537	706.304	707.537	700.687	709.968	707.468
22.5	619.411	623.521	624.138	623.521	619.411	627.905	628.145
25.0	534.095	532.074	535.259	532.074	534.095	536.287	536.800
27.5	439.291	438.777	439.907	438.777	439.291	442.305	439.462
30.0	349.453	348.391	346.679	348.391	349.453	351.131	350.720

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	267.767	265.403	265.164	265.403	267.767	267.664	267.767
<b>35.0</b>	197.520	197.554	199.301	197.554	197.520	199.609	200.328
<b>37.5</b>	148.611	149.193	150.906	149.193	148.611	150.632	151.419
<b>40.0</b>	118.060	117.923	118.848	117.923	118.060	119.122	118.950
<b>42.5</b>	95.215	95.284	95.729	95.284	95.215	95.900	96.174
<b>45.0</b>	76.686	76.583	77.063	76.583	76.686	77.234	77.816
<b>47.5</b>	60.109	60.040	60.588	60.040	60.109	60.691	61.342
<b>50.0</b>	45.416	45.176	45.621	45.176	45.416	45.964	46.546
<b>52.5</b>	32.298	31.818	32.229	31.818	32.298	32.743	32.914
<b>55.0</b>	20.893	20.687	20.721	20.687	20.893	21.235	21.509
<b>57.5</b>	11.988	11.953	11.988	11.953	11.988	12.330	12.638
<b>60.0</b>	6.576	6.473	6.439	6.473	6.576	6.816	7.021
<b>62.5</b>	4.213	3.939	4.042	3.939	4.213	4.384	4.453
<b>65.0</b>	2.432	2.363	2.466	2.363	2.432	2.637	2.672
<b>67.5</b>	1.336	1.130	1.165	1.130	1.336	1.370	1.473
<b>70.0</b>	0.445	0.308	0.308	0.308	0.445	0.548	0.480
<b>72.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>77.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>82.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	326.61	N.A.	41.80
0-30	567.81	N.A.	72.60
0-40	698.35	N.A.	89.30
0-60	778.81	N.A.	99.60
0-80	781.68	N.A.	100.00
0-90	781.68	N.A.	100.00
10-90	687.31	N.A.	87.90
20-40	371.74	N.A.	47.60
20-50	431.99	N.A.	55.30
40-70	83.28	N.A.	10.70
60-80	2.88	N.A.	0.40
70-80	0.05	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	781.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.37
10-20	232.24
20-30	241.20
30-40	130.54
40-50	60.25
50-60	20.21
60-70	2.82
70-80	0.05
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

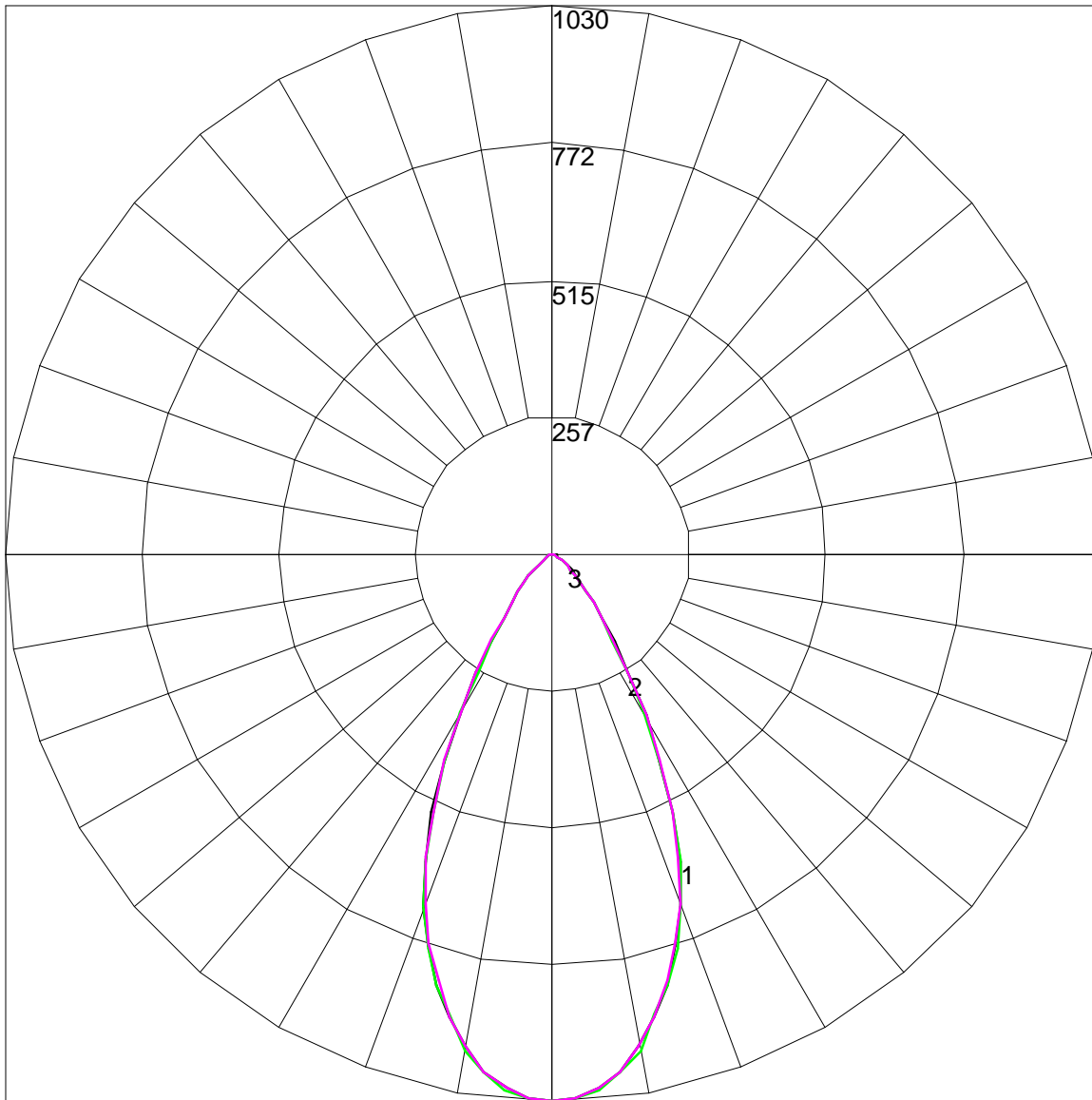
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

POLAR GRAPH



Maximum Candela = 1029.795 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)