

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE9LEDOS-10L35KEX-AR9223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-007\_M-10L  
[TESTLAB] Intertek  
[ISSUE DATE] 09/19/2016  
[UPDATE] 10/28/2016  
[LAB-REF LUMCAT] CRT1609071034-004\_M-10L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGE9LEDOS-10L-35K-EX-AR9223OS-SG-SO  
[LUMINAIRE] 9" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE  
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS  
[OTHER] 81.3 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	860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.71 ft (Diameter)
Luminous Width (90-270)	0.71 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	7650	7619	7628
55	1596	1612	1648
65	381	396	420
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>	570.194	570.194	570.194	570.194	570.194	570.194	570.194	570.194	570.194	570.194
<b>2.5</b>	567.317	568.345	568.756	568.790	569.201	568.790	568.756	568.345	567.317	568.345
<b>5.0</b>	565.673	565.605	565.947	566.153	567.112	566.153	565.947	565.605	565.673	565.605
<b>7.5</b>	560.399	561.084	561.323	562.522	562.419	562.522	561.323	561.084	560.399	561.084
<b>10.0</b>	555.021	556.254	554.747	556.974	556.186	556.974	554.747	556.254	555.021	556.254
<b>12.5</b>	549.302	548.514	549.404	549.952	549.713	549.952	549.404	548.514	549.302	548.514
<b>15.0</b>	542.075	541.219	540.088	540.534	541.013	540.534	540.088	541.219	542.075	541.219
<b>17.5</b>	529.642	529.094	529.163	529.916	530.361	529.916	529.163	529.094	529.642	529.094
<b>20.0</b>	516.593	516.045	516.216	515.394	516.935	515.394	516.216	516.045	516.593	516.045
<b>22.5</b>	502.756	502.037	502.311	502.824	502.037	502.824	502.311	502.037	502.756	502.037
<b>25.0</b>	487.583	488.165	488.268	486.556	485.699	486.556	488.268	488.165	487.583	488.165
<b>27.5</b>	469.020	470.732	470.081	469.739	470.116	469.739	470.081	470.732	469.020	470.732
<b>30.0</b>	446.038	445.627	444.565	443.195	443.812	443.195	444.565	445.627	446.038	445.627
<b>32.5</b>	419.049	418.021	415.624	414.185	416.138	414.185	415.624	418.021	419.049	418.021
<b>35.0</b>	387.847	383.840	379.627	380.586	382.812	380.586	379.627	383.840	387.847	383.840
<b>37.5</b>	346.918	343.904	340.137	339.555	341.473	339.555	340.137	343.904	346.918	343.904
<b>40.0</b>	300.133	297.633	294.379	293.968	297.050	293.968	294.379	297.633	300.133	297.633
<b>42.5</b>	249.443	249.237	247.354	245.915	248.039	245.915	247.354	249.237	249.443	249.237
<b>45.0</b>	199.164	198.958	198.342	197.760	198.582	197.760	198.342	198.958	199.164	198.958
<b>47.5</b>	150.837	152.584	153.783	152.515	150.803	152.515	153.783	152.584	150.837	152.584
<b>50.0</b>	93.057	92.578	93.537	94.188	95.112	94.188	93.537	92.578	93.057	92.578
<b>52.5</b>	54.081	54.184	54.629	55.211	56.170	55.211	54.629	54.184	54.081	54.184
<b>55.0</b>	33.702	33.942	34.045	34.079	34.798	34.079	34.045	33.942	33.702	33.942
<b>57.5</b>	21.954	22.160	22.228	22.297	22.537	22.297	22.228	22.160	21.954	22.160
<b>60.0</b>	15.139	15.207	15.276	15.310	15.447	15.310	15.276	15.207	15.139	15.207
<b>62.5</b>	10.412	10.618	10.686	10.652	10.789	10.652	10.686	10.618	10.412	10.618
<b>65.0</b>	5.925	6.028	6.165	6.234	6.542	6.234	6.165	6.028	5.925	6.028
<b>67.5</b>	1.473	2.021	2.329	2.466	2.398	2.466	2.329	2.021	1.473	2.021
<b>70.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>72.5</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>77.5</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>82.5</b>	0.000	0.000	0.000	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	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	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	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>
<b>0.0</b>	570.194	570.194	570.194	570.194	570.194	570.194	570.194
<b>2.5</b>	568.756	568.790	569.201	568.790	568.756	568.345	567.317
<b>5.0</b>	565.947	566.153	567.112	566.153	565.947	565.605	565.673
<b>7.5</b>	561.323	562.522	562.419	562.522	561.323	561.084	560.399
<b>10.0</b>	554.747	556.974	556.186	556.974	554.747	556.254	555.021
<b>12.5</b>	549.404	549.952	549.713	549.952	549.404	548.514	549.302
<b>15.0</b>	540.088	540.534	541.013	540.534	540.088	541.219	542.075
<b>17.5</b>	529.163	529.916	530.361	529.916	529.163	529.094	529.642
<b>20.0</b>	516.216	515.394	516.935	515.394	516.216	516.045	516.593
<b>22.5</b>	502.311	502.824	502.037	502.824	502.311	502.037	502.756
<b>25.0</b>	488.268	486.556	485.699	486.556	488.268	488.165	487.583
<b>27.5</b>	470.081	469.739	470.116	469.739	470.081	470.732	469.020
<b>30.0</b>	444.565	443.195	443.812	443.195	444.565	445.627	446.038

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**CANDELA TABULATION - (Cont.)**

32.5	415.624	414.185	416.138	414.185	415.624	418.021	419.049
35.0	379.627	380.586	382.812	380.586	379.627	383.840	387.847
37.5	340.137	339.555	341.473	339.555	340.137	343.904	346.918
40.0	294.379	293.968	297.050	293.968	294.379	297.633	300.133
42.5	247.354	245.915	248.039	245.915	247.354	249.237	249.443
45.0	198.342	197.760	198.582	197.760	198.342	198.958	199.164
47.5	153.783	152.515	150.803	152.515	153.783	152.584	150.837
50.0	93.537	94.188	95.112	94.188	93.537	92.578	93.057
52.5	54.629	55.211	56.170	55.211	54.629	54.184	54.081
55.0	34.045	34.079	34.798	34.079	34.045	33.942	33.702
57.5	22.228	22.297	22.537	22.297	22.228	22.160	21.954
60.0	15.276	15.310	15.447	15.310	15.276	15.207	15.139
62.5	10.686	10.652	10.789	10.652	10.686	10.618	10.412
65.0	6.165	6.234	6.542	6.234	6.165	6.028	5.925
67.5	2.329	2.466	2.398	2.466	2.329	2.021	1.473
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	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
77.5	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
82.5	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
87.5	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	205.90	N.A.	24.00
0-30	429.48	N.A.	50.00
0-40	664.96	N.A.	77.40
0-60	853.02	N.A.	99.20
0-80	859.53	N.A.	100.00
0-90	859.53	N.A.	100.00
10-90	805.82	N.A.	93.80
20-40	459.07	N.A.	53.40
20-50	610.62	N.A.	71.00
40-70	194.56	N.A.	22.60
60-80	6.51	N.A.	0.80
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	859.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.70
10-20	152.20
20-30	223.58
30-40	235.49
40-50	151.56
50-60	36.50
60-70	6.51
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

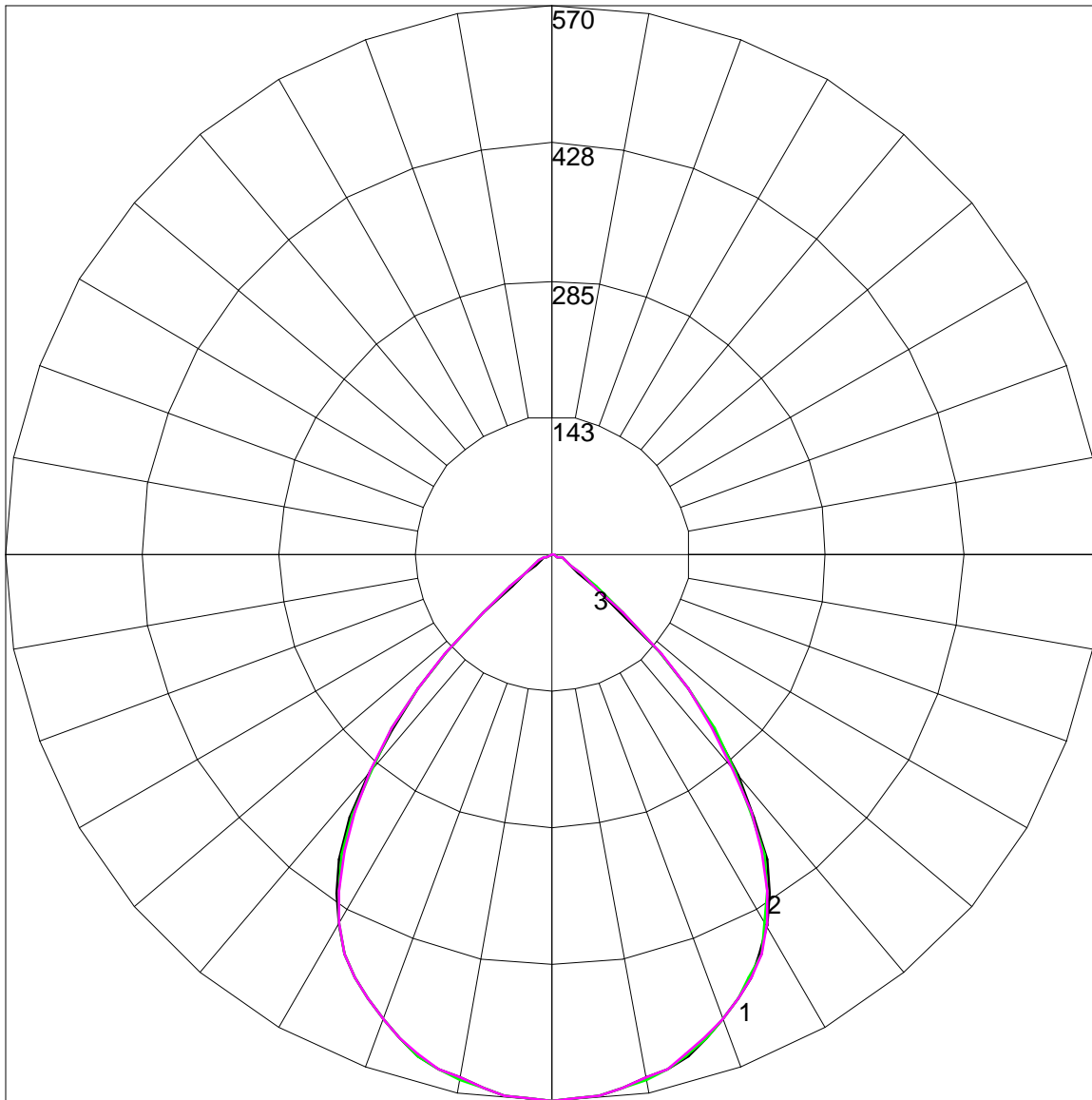
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	53	49	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 570.194 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)