

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-008\_M-10L  
[TESTLAB] Intertek  
[ISSUE DATE] 09/19/2016  
[UPDATE] 10/28/2016  
[LAB-REF LUMCAT] CRT1609071034-005\_M-10L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGE5LEDOS-10L-35K-EX-AR5223OS-SG-SO  
[LUMINAIRE] 5" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE  
[OTHER] SHALLOW PROFILE  
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS  
[OTHER] 60.2 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	845
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
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	8873	8884	8805
55	3314	3291	3249
65	113	101	69
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	903.378	903.378	903.378	903.378	903.378	903.378	903.378	903.378	903.378	903.378
2.5	900.672	899.337	900.022	898.857	899.131	898.857	900.022	899.337	900.672	899.337
5.0	888.993	888.890	889.130	889.678	889.644	889.678	889.130	888.890	888.993	888.890
7.5	871.149	871.080	872.074	871.971	871.731	871.971	872.074	871.080	871.149	871.080
10.0	846.523	845.598	845.530	846.112	847.551	846.112	845.530	845.598	846.523	845.598
12.5	813.917	814.020	813.814	815.698	816.349	815.698	813.814	814.020	813.917	814.020
15.0	777.098	774.872	776.550	777.681	778.297	777.681	776.550	774.872	777.098	774.872
17.5	733.224	733.395	732.710	733.258	734.457	733.258	732.710	733.395	733.224	733.395
20.0	684.692	684.863	684.863	684.760	684.041	684.760	684.863	684.863	684.692	684.863
22.5	632.289	629.721	630.474	631.810	630.440	631.810	630.474	629.721	632.289	629.721
25.0	577.626	575.058	575.777	575.811	575.229	575.811	575.777	575.058	577.626	575.058
27.5	520.223	516.148	516.593	517.107	517.244	517.107	516.593	516.148	520.223	516.148
30.0	455.525	451.963	451.826	451.929	452.545	451.929	451.826	451.963	455.525	451.963
32.5	383.566	379.901	378.497	379.833	381.477	379.833	378.497	379.901	383.566	379.901
35.0	306.092	303.695	304.346	304.894	304.414	304.894	304.346	303.695	306.092	303.695
37.5	231.530	230.092	231.462	231.736	229.407	231.736	231.462	230.092	231.530	230.092
40.0	166.489	165.565	167.277	166.661	164.571	166.661	167.277	165.565	166.489	165.565
42.5	115.320	115.525	115.628	115.388	114.327	115.388	115.628	115.525	115.320	115.525
45.0	80.830	81.207	80.933	80.899	80.214	80.899	80.933	81.207	80.830	81.207
47.5	59.390	59.184	59.081	59.218	58.362	59.218	59.081	59.184	59.390	59.184
50.0	44.628	44.354	44.183	44.148	43.532	44.148	44.183	44.354	44.628	44.354
52.5	33.462	33.428	33.291	33.051	32.777	33.051	33.291	33.428	33.462	33.428
55.0	24.489	24.420	24.318	24.146	24.009	24.146	24.318	24.420	24.489	24.420
57.5	16.954	16.954	16.920	16.748	16.611	16.748	16.920	16.954	16.954	16.954
60.0	10.378	10.275	10.344	10.138	9.864	10.138	10.344	10.275	10.378	10.275
62.5	4.453	4.350	4.418	4.213	4.042	4.213	4.418	4.350	4.453	4.350
65.0	0.617	0.548	0.548	0.445	0.377	0.445	0.548	0.548	0.617	0.548
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	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	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	903.378	903.378	903.378	903.378	903.378	903.378	903.378
2.5	900.022	898.857	899.131	898.857	900.022	899.337	900.672
5.0	889.130	889.678	889.644	889.678	889.130	888.890	888.993
7.5	872.074	871.971	871.731	871.971	872.074	871.080	871.149
10.0	845.530	846.112	847.551	846.112	845.530	845.598	846.523
12.5	813.814	815.698	816.349	815.698	813.814	814.020	813.917
15.0	776.550	777.681	778.297	777.681	776.550	774.872	777.098
17.5	732.710	733.258	734.457	733.258	732.710	733.395	733.224
20.0	684.863	684.760	684.041	684.760	684.863	684.863	684.692
22.5	630.474	631.810	630.440	631.810	630.474	629.721	632.289
25.0	575.777	575.811	575.229	575.811	575.777	575.058	577.626
27.5	516.593	517.107	517.244	517.107	516.593	516.148	520.223
30.0	451.826	451.929	452.545	451.929	451.826	451.963	455.525

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	378.497	379.833	381.477	379.833	378.497	379.901	383.566
<b>35.0</b>	304.346	304.894	304.414	304.894	304.346	303.695	306.092
<b>37.5</b>	231.462	231.736	229.407	231.736	231.462	230.092	231.530
<b>40.0</b>	167.277	166.661	164.571	166.661	167.277	165.565	166.489
<b>42.5</b>	115.628	115.388	114.327	115.388	115.628	115.525	115.320
<b>45.0</b>	80.933	80.899	80.214	80.899	80.933	81.207	80.830
<b>47.5</b>	59.081	59.218	58.362	59.218	59.081	59.184	59.390
<b>50.0</b>	44.183	44.148	43.532	44.148	44.183	44.354	44.628
<b>52.5</b>	33.291	33.051	32.777	33.051	33.291	33.428	33.462
<b>55.0</b>	24.318	24.146	24.009	24.146	24.318	24.420	24.489
<b>57.5</b>	16.920	16.748	16.611	16.748	16.920	16.954	16.954
<b>60.0</b>	10.344	10.138	9.864	10.138	10.344	10.275	10.378
<b>62.5</b>	4.418	4.213	4.042	4.213	4.418	4.350	4.453
<b>65.0</b>	0.548	0.445	0.377	0.445	0.548	0.548	0.617
<b>67.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70.0</b>	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
<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	300.17	N.A.	35.50
0-30	562.31	N.A.	66.60
0-40	751.13	N.A.	88.90
0-60	842.18	N.A.	99.70
0-80	844.58	N.A.	100.00
0-90	844.58	N.A.	100.00
10-90	761.06	N.A.	90.10
20-40	450.97	N.A.	53.40
20-50	519.52	N.A.	61.50
40-70	93.45	N.A.	11.10
60-80	2.40	N.A.	0.30
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	844.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.52
10-20	216.65
20-30	262.14
30-40	188.83
40-50	68.55
50-60	22.49
60-70	2.40
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

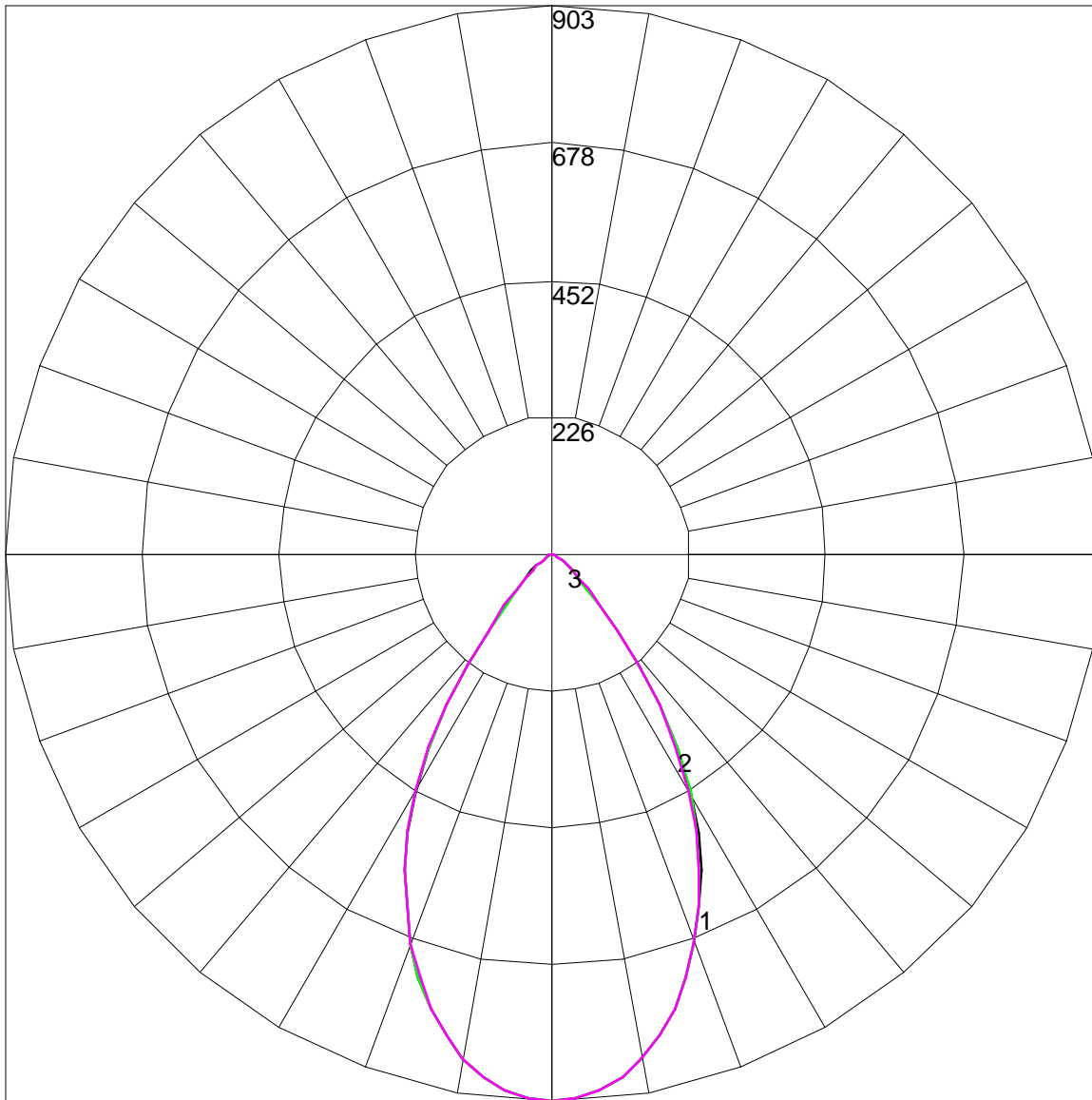
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	67	62	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 903.378 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)