

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-009_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/28/2016
[LAB-REF LUMCAT] CRT1609071034-005-2_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE5LEDOS-10L-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, SCALED FROM 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	10.46
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4440	4455	4429
55	797	793	746
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES

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	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729
2.5	1455.591	1454.666	1455.111	1454.837	1453.433	1454.837	1455.111	1454.666	1455.591	1454.666
5.0	1413.600	1412.573	1413.532	1414.046	1412.573	1414.046	1413.532	1412.573	1413.600	1412.573
7.5	1334.414	1332.565	1333.284	1333.627	1333.318	1333.627	1333.284	1332.565	1334.414	1332.565
10.0	1222.622	1217.348	1217.074	1217.622	1218.786	1217.622	1217.074	1217.348	1222.622	1217.348
12.5	1088.328	1085.040	1083.465	1081.410	1085.143	1081.410	1083.465	1085.040	1088.328	1085.040
15.0	956.637	954.822	951.397	950.335	949.170	950.335	951.397	954.822	956.637	954.822
17.5	830.460	829.501	827.069	825.562	825.699	825.562	827.069	829.501	830.460	829.501
20.0	724.936	725.278	724.730	722.093	720.072	722.093	724.730	725.278	724.936	725.278
22.5	641.023	641.023	640.304	640.235	638.454	640.235	640.304	641.023	641.023	641.023
25.0	555.809	555.501	553.925	555.158	553.138	555.158	553.925	555.501	555.809	555.501
27.5	462.546	461.519	460.149	462.135	463.129	462.135	460.149	461.519	462.546	461.519
30.0	365.996	365.859	366.989	367.160	368.119	367.160	366.989	365.859	365.996	365.859
32.5	274.308	274.480	276.946	277.322	275.199	277.322	276.946	274.480	274.308	274.480
35.0	191.389	191.355	192.485	193.273	191.937	193.273	192.485	191.355	191.389	191.355
37.5	127.547	127.890	127.513	128.061	127.273	128.061	127.513	127.890	127.547	127.890
40.0	85.283	85.351	84.461	84.940	84.837	84.940	84.461	85.351	85.283	85.351
42.5	58.225	58.362	58.225	58.225	57.951	58.225	58.225	58.362	58.225	58.362
45.0	40.449	40.621	40.586	40.484	40.347	40.484	40.586	40.621	40.449	40.621
47.5	28.256	28.188	28.119	28.051	27.982	28.051	28.119	28.188	28.256	28.188
50.0	19.077	19.043	18.975	18.906	18.838	18.906	18.975	19.043	19.077	19.043
52.5	11.474	11.508	11.508	11.371	11.268	11.371	11.508	11.508	11.474	11.508
55.0	5.891	5.994	5.857	5.686	5.514	5.686	5.857	5.994	5.891	5.994
57.5	1.987	2.089	1.987	2.055	2.055	2.055	1.987	2.089	1.987	2.089
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729	1465.729
2.5	1455.111	1454.837	1453.433	1454.837	1455.111	1454.666	1455.591
5.0	1413.532	1414.046	1412.573	1414.046	1413.532	1412.573	1413.600
7.5	1333.284	1333.627	1333.318	1333.627	1333.284	1332.565	1334.414
10.0	1217.074	1217.622	1218.786	1217.622	1217.074	1217.348	1222.622
12.5	1083.465	1081.410	1085.143	1081.410	1083.465	1085.040	1088.328
15.0	951.397	950.335	949.170	950.335	951.397	954.822	956.637
17.5	827.069	825.562	825.699	825.562	827.069	829.501	830.460
20.0	724.730	722.093	720.072	722.093	724.730	725.278	724.936
22.5	640.304	640.235	638.454	640.235	640.304	641.023	641.023
25.0	553.925	555.158	553.138	555.158	553.925	555.501	555.809
27.5	460.149	462.135	463.129	462.135	460.149	461.519	462.546
30.0	366.989	367.160	368.119	367.160	366.989	365.859	365.996

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES

CANDELA TABULATION - (Cont.)

32.5	276.946	277.322	275.199	277.322	276.946	274.480	274.308
35.0	192.485	193.273	191.937	193.273	192.485	191.355	191.389
37.5	127.513	128.061	127.273	128.061	127.513	127.890	127.547
40.0	84.461	84.940	84.837	84.940	84.461	85.351	85.283
42.5	58.225	58.225	57.951	58.225	58.225	58.362	58.225
45.0	40.586	40.484	40.347	40.484	40.586	40.621	40.449
47.5	28.119	28.051	27.982	28.051	28.119	28.188	28.256
50.0	18.975	18.906	18.838	18.906	18.975	19.043	19.077
52.5	11.508	11.371	11.268	11.371	11.508	11.508	11.474
55.0	5.857	5.686	5.514	5.686	5.857	5.994	5.891
57.5	1.987	2.055	2.055	2.055	1.987	2.089	1.987
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	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
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	393.16	N.A.	48.60
0-30	643.13	N.A.	79.50
0-40	768.64	N.A.	95.00
0-60	808.88	N.A.	100.00
0-80	808.88	N.A.	100.00
0-90	808.88	N.A.	100.00
10-90	680.25	N.A.	84.10
20-40	375.48	N.A.	46.40
20-50	409.43	N.A.	50.60
40-70	40.24	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	808.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.63
10-20	264.53
20-30	249.97
30-40	125.51
40-50	33.95
50-60	6.29
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

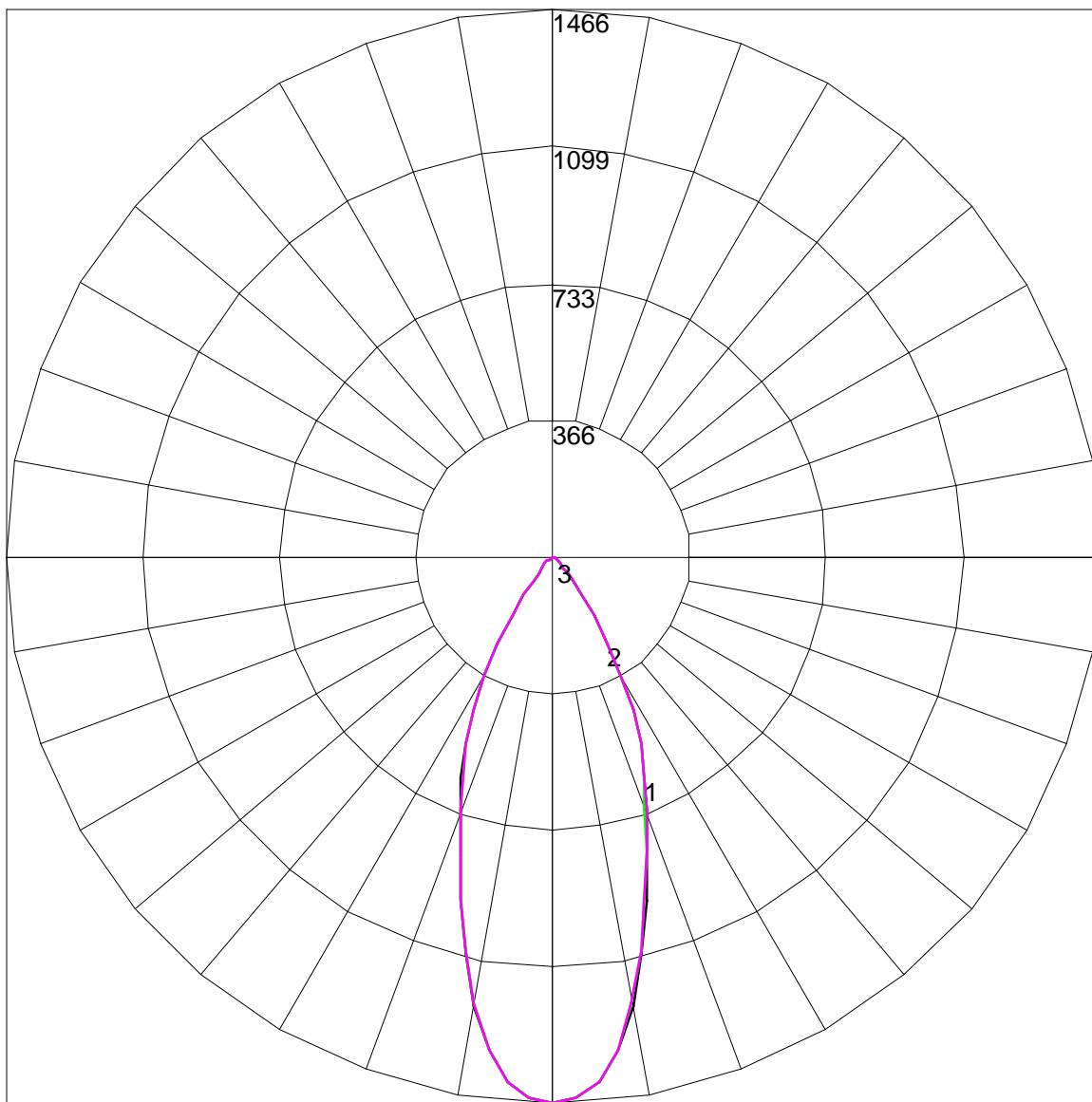
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE5LEDOS-10L35KEX-AR5224OSSGSO.IES

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 = 1465.729 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)