

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE8LEDOS-20L35KEX-AR8223OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-006_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/28/2016
[LAB-REF LUMCAT] CRT1609071034-003_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE8LEDOS-20L-35K-EX-AR8223OS-SG-SO
[LUMINAIRE] 8" DIAM. LED DOWNLIGHT SEMI-DIFFUSE CLEAR ANODIZED CONE
[OTHER] REGRESSED, INTEGRAL SOLITE GLASS LENS
[OTHER] 79 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	1833
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	20.24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.62 ft (Diameter)
Luminous Width (90-270)	0.62 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	14629	14772	14717
55	2792	2783	2688
65	92	98	67
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	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436
2.5	1330.234	1341.146	1334.599	1341.874	1332.053	1341.874	1334.599	1341.146	1330.234	1341.146
5.0	1325.287	1321.577	1328.561	1333.144	1326.596	1333.144	1328.561	1321.577	1325.287	1321.577
7.5	1314.083	1311.173	1318.667	1318.448	1314.884	1318.448	1318.667	1311.173	1314.083	1311.173
10.0	1307.681	1314.011	1305.790	1310.955	1311.246	1310.955	1305.790	1314.011	1307.681	1314.011
12.5	1298.151	1297.787	1293.495	1288.475	1296.478	1288.475	1293.495	1297.787	1298.151	1297.787
15.0	1275.599	1272.470	1267.087	1275.526	1276.690	1275.526	1267.087	1272.470	1275.599	1272.470
17.5	1248.172	1249.845	1247.299	1256.975	1251.300	1256.975	1247.299	1249.845	1248.172	1249.845
20.0	1219.145	1220.236	1217.035	1229.693	1224.092	1229.693	1217.035	1220.236	1219.145	1220.236
22.5	1181.169	1184.952	1187.571	1180.223	1186.844	1180.223	1187.571	1184.952	1181.169	1184.952
25.0	1146.831	1146.249	1149.014	1143.703	1141.229	1143.703	1149.014	1146.249	1146.831	1146.249
27.5	1087.322	1083.611	1093.069	1087.976	1077.573	1087.976	1093.069	1083.611	1087.322	1083.611
30.0	1030.358	1026.430	1027.376	1018.136	1027.448	1018.136	1027.376	1026.430	1030.358	1026.430
32.5	950.333	946.550	951.788	950.188	942.695	950.188	951.788	946.550	950.333	946.550
35.0	877.365	852.412	862.961	856.486	860.269	856.486	862.961	852.412	877.365	852.412
37.5	761.911	759.874	756.818	753.545	755.291	753.545	756.818	759.874	761.911	759.874
40.0	645.002	638.236	635.544	640.055	641.873	640.055	635.544	638.236	645.002	638.236
42.5	468.437	468.146	463.563	464.436	463.709	464.436	463.563	468.146	468.437	468.146
45.0	290.418	295.147	293.255	294.783	292.164	294.783	293.255	295.147	290.418	295.147
47.5	166.961	170.017	171.908	172.345	168.053	172.345	171.908	170.017	166.961	170.017
50.0	103.014	103.742	104.178	104.615	103.014	104.615	104.178	103.742	103.014	103.742
52.5	67.730	67.876	67.803	67.439	66.275	67.439	67.803	67.876	67.730	67.876
55.0	44.960	45.396	44.814	44.450	43.286	44.450	44.814	45.396	44.960	45.396
57.5	30.410	30.628	30.264	29.755	29.391	29.755	30.264	30.628	30.410	30.628
60.0	19.643	19.497	19.279	18.842	18.260	18.842	19.279	19.497	19.643	19.497
62.5	9.167	9.530	9.167	8.803	8.221	8.803	9.167	9.530	9.167	9.530
65.0	1.091	1.019	1.164	1.091	0.800	1.091	1.164	1.019	1.091	1.019
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	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436	1337.436
2.5	1334.599	1341.874	1332.053	1341.874	1334.599	1341.146	1330.234
5.0	1328.561	1333.144	1326.596	1333.144	1328.561	1321.577	1325.287
7.5	1318.667	1318.448	1314.884	1318.448	1318.667	1311.173	1314.083
10.0	1305.790	1310.955	1311.246	1310.955	1305.790	1314.011	1307.681
12.5	1293.495	1288.475	1296.478	1288.475	1293.495	1297.787	1298.151
15.0	1267.087	1275.526	1276.690	1275.526	1267.087	1272.470	1275.599
17.5	1247.299	1256.975	1251.300	1256.975	1247.299	1249.845	1248.172
20.0	1217.035	1229.693	1224.092	1229.693	1217.035	1220.236	1219.145
22.5	1187.571	1180.223	1186.844	1180.223	1187.571	1184.952	1181.169
25.0	1149.014	1143.703	1141.229	1143.703	1149.014	1146.249	1146.831
27.5	1093.069	1087.976	1077.573	1087.976	1093.069	1083.611	1087.322
30.0	1027.376	1018.136	1027.448	1018.136	1027.376	1026.430	1030.358

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CANDELA TABULATION - (Cont.)

32.5	951.788	950.188	942.695	950.188	951.788	946.550	950.333
35.0	862.961	856.486	860.269	856.486	862.961	852.412	877.365
37.5	756.818	753.545	755.291	753.545	756.818	759.874	761.911
40.0	635.544	640.055	641.873	640.055	635.544	638.236	645.002
42.5	463.563	464.436	463.709	464.436	463.563	468.146	468.437
45.0	293.255	294.783	292.164	294.783	293.255	295.147	290.418
47.5	171.908	172.345	168.053	172.345	171.908	170.017	166.961
50.0	104.178	104.615	103.014	104.615	104.178	103.742	103.014
52.5	67.803	67.439	66.275	67.439	67.803	67.876	67.730
55.0	44.814	44.450	43.286	44.450	44.814	45.396	44.960
57.5	30.264	29.755	29.391	29.755	30.264	30.628	30.410
60.0	19.279	18.842	18.260	18.842	19.279	19.497	19.643
62.5	9.167	8.803	8.221	8.803	9.167	9.530	9.167
65.0	1.164	1.091	0.800	1.091	1.164	1.019	1.091
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	485.11	N.A.	26.50
0-30	1007.85	N.A.	55.00
0-40	1536.86	N.A.	83.90
0-60	1827.92	N.A.	99.70
0-80	1832.69	N.A.	100.00
0-90	1832.69	N.A.	100.00
10-90	1706.61	N.A.	93.10
20-40	1051.76	N.A.	57.40
20-50	1297.78	N.A.	70.80
40-70	295.82	N.A.	16.10
60-80	4.76	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	1832.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

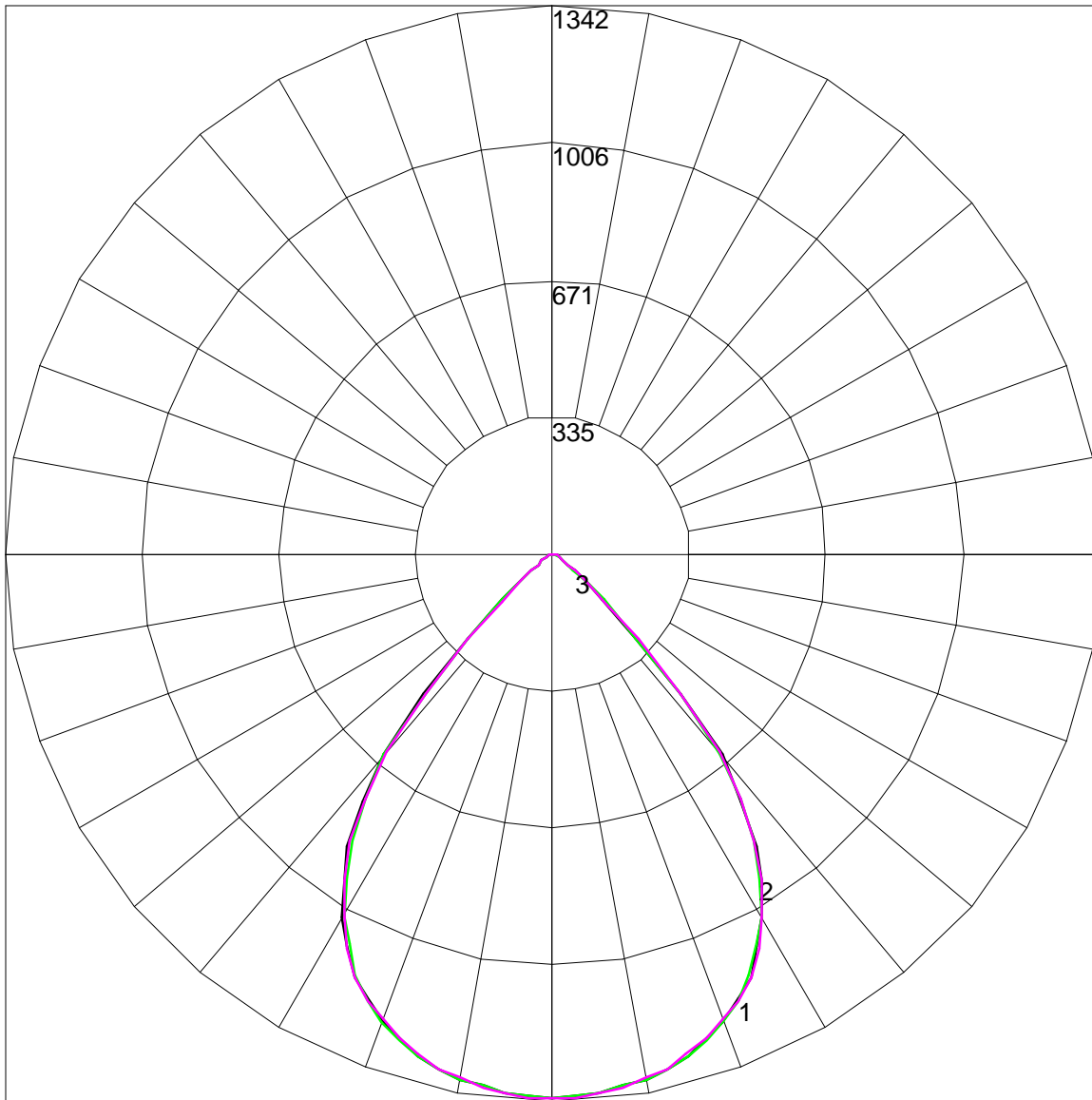
Zone	Lumens
0-10	126.07
10-20	359.04
20-30	522.74
30-40	529.01
40-50	246.03
50-60	45.03
60-70	4.76
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66	64
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	66	55	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 1341.874 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)