

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE5LEDOS-20L35KEX-AR5224OSSGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-009_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 09/19/2016
[UPDATE] 10/28/2016
[LAB-REF LUMCAT] CRT1609071034-005-2_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE5LEDOS-20L-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	1718
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	20.24
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9431	9463	9407
55	1693	1683	1585
65	0	0	0
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	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336
2.5	3091.802	3089.838	3090.784	3090.202	3087.219	3090.202	3090.784	3089.838	3091.802	3089.838
5.0	3002.611	3000.428	3002.465	3003.557	3000.428	3003.557	3002.465	3000.428	3002.611	3000.428
7.5	2834.413	2830.484	2832.012	2832.740	2832.085	2832.740	2832.012	2830.484	2834.413	2830.484
10.0	2596.957	2585.753	2585.171	2586.335	2588.809	2586.335	2585.171	2585.753	2596.957	2585.753
12.5	2311.704	2304.720	2301.374	2297.009	2304.938	2297.009	2301.374	2304.720	2311.704	2304.720
15.0	2031.980	2028.125	2020.850	2018.594	2016.121	2018.594	2020.850	2028.125	2031.980	2028.125
17.5	1763.969	1761.932	1756.767	1753.566	1753.857	1753.566	1756.767	1761.932	1763.969	1761.932
20.0	1539.827	1540.554	1539.390	1533.788	1529.496	1533.788	1539.390	1540.554	1539.827	1540.554
22.5	1361.589	1361.589	1360.061	1359.916	1356.133	1359.916	1360.061	1361.589	1361.589	1361.589
25.0	1180.587	1179.932	1176.586	1179.205	1174.913	1179.205	1176.586	1179.932	1180.587	1179.932
27.5	982.489	980.306	977.396	981.616	983.726	981.616	977.396	980.306	982.489	980.306
30.0	777.407	777.116	779.516	779.880	781.917	779.880	779.516	777.116	777.407	777.116
32.5	582.655	583.019	588.257	589.057	584.546	589.057	588.257	583.019	582.655	583.019
35.0	406.527	406.454	408.855	410.528	407.691	410.528	408.855	406.454	406.527	406.454
37.5	270.921	271.649	270.848	272.012	270.339	272.012	270.848	271.649	270.921	271.649
40.0	181.148	181.293	179.402	180.420	180.202	180.420	179.402	181.293	181.148	181.293
42.5	123.675	123.966	123.675	123.675	123.093	123.675	123.675	123.966	123.675	123.966
45.0	85.918	86.282	86.209	85.991	85.700	85.991	86.209	86.282	85.918	86.282
47.5	60.019	59.873	59.728	59.582	59.437	59.582	59.728	59.873	60.019	59.873
50.0	40.522	40.449	40.304	40.158	40.013	40.158	40.304	40.449	40.522	40.449
52.5	24.371	24.444	24.444	24.153	23.935	24.153	24.444	24.444	24.371	24.444
55.0	12.513	12.731	12.440	12.077	11.713	12.077	12.440	12.731	12.513	12.731
57.5	4.220	4.438	4.220	4.365	4.365	4.365	4.220	4.438	4.220	4.438
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	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336	3113.336
2.5	3090.784	3090.202	3087.219	3090.202	3090.784	3089.838	3091.802
5.0	3002.465	3003.557	3000.428	3003.557	3002.465	3000.428	3002.611
7.5	2832.012	2832.740	2832.085	2832.740	2832.012	2830.484	2834.413
10.0	2585.171	2586.335	2588.809	2586.335	2585.171	2585.753	2596.957
12.5	2301.374	2297.009	2304.938	2297.009	2301.374	2304.720	2311.704
15.0	2020.850	2018.594	2016.121	2018.594	2020.850	2028.125	2031.980
17.5	1756.767	1753.566	1753.857	1753.566	1756.767	1761.932	1763.969
20.0	1539.390	1533.788	1529.496	1533.788	1539.390	1540.554	1539.827
22.5	1360.061	1359.916	1356.133	1359.916	1360.061	1361.589	1361.589
25.0	1176.586	1179.205	1174.913	1179.205	1176.586	1179.932	1180.587
27.5	977.396	981.616	983.726	981.616	977.396	980.306	982.489
30.0	779.516	779.880	781.917	779.880	779.516	777.116	777.407

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CANDELA TABULATION - (Cont.)

32.5	588.257	589.057	584.546	589.057	588.257	583.019	582.655
35.0	408.855	410.528	407.691	410.528	408.855	406.454	406.527
37.5	270.848	272.012	270.339	272.012	270.848	271.649	270.921
40.0	179.402	180.420	180.202	180.420	179.402	181.293	181.148
42.5	123.675	123.675	123.093	123.675	123.675	123.966	123.675
45.0	86.209	85.991	85.700	85.991	86.209	86.282	85.918
47.5	59.728	59.582	59.437	59.582	59.728	59.873	60.019
50.0	40.304	40.158	40.013	40.158	40.304	40.449	40.522
52.5	24.444	24.153	23.935	24.153	24.444	24.444	24.371
55.0	12.440	12.077	11.713	12.077	12.440	12.731	12.513
57.5	4.220	4.365	4.365	4.365	4.220	4.438	4.220
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	835.10	N.A.	48.60
0-30	1366.06	N.A.	79.50
0-40	1632.66	N.A.	95.00
0-60	1718.13	N.A.	100.00
0-80	1718.13	N.A.	100.00
0-90	1718.13	N.A.	100.00
10-90	1444.91	N.A.	84.10
20-40	797.56	N.A.	46.40
20-50	869.67	N.A.	50.60
40-70	85.47	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	1718.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.22
10-20	561.88
20-30	530.95
30-40	266.60
40-50	72.11
50-60	13.36
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

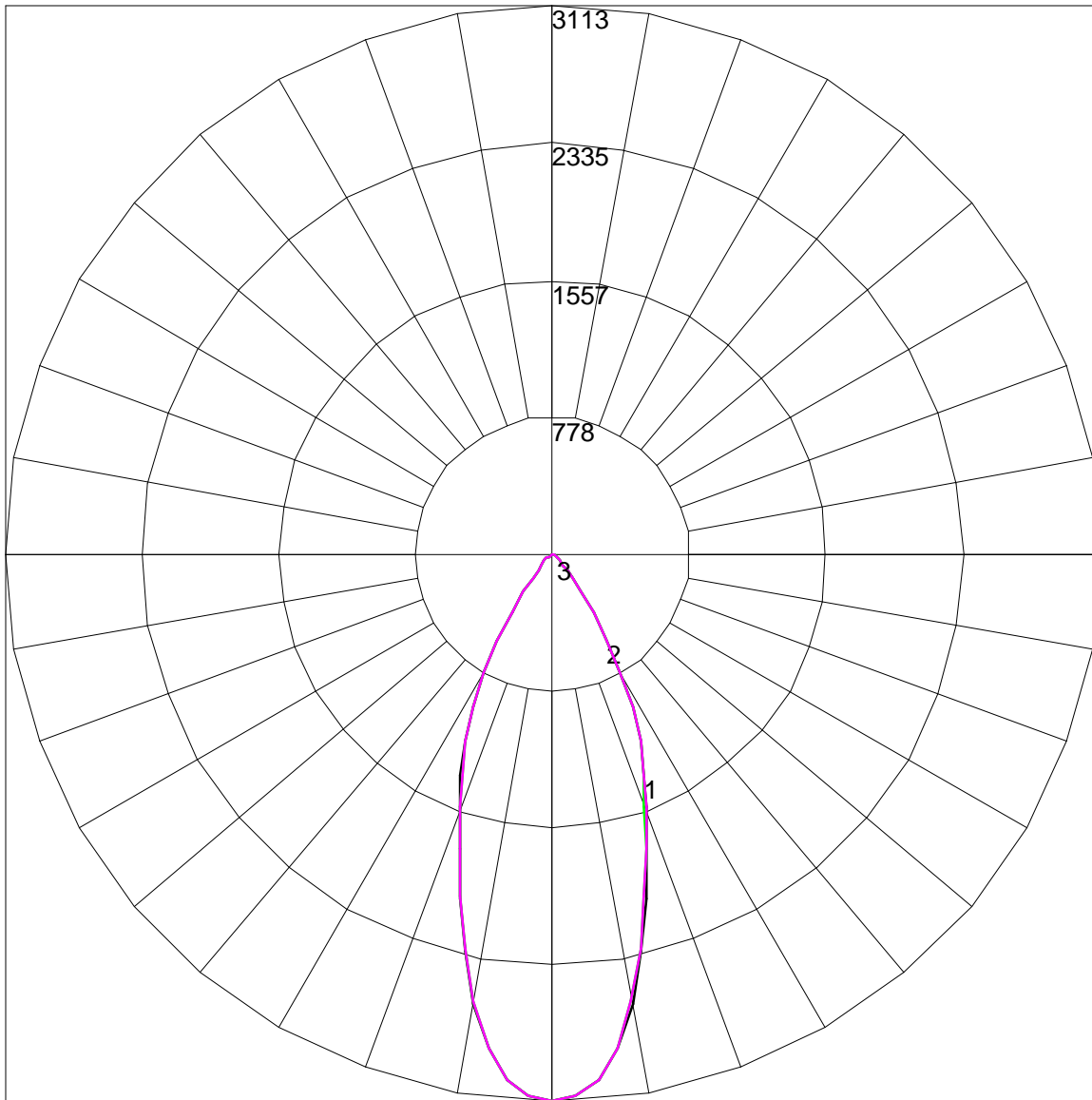
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 3113.336 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)