

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6SQLEDOS-20L35KEX-CA0366OS-SGSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-019_M-20L
[TESTLAB] Intertek
[ISSUE DATE] 11/14/2016
[UPDATE] 1/4/2017
[LAB-REF LUMCAT] CRT1611041146-003B_M-20L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGE6SQLEDOS-20L-35K-E1-CA0366OS-SG-SO
[LUMINAIRE] 6" Square, LED recessed downlight
[TRIM] Cast Alum, Semi-Diffuse finish, regressed Solite lens
[OTHER] 78.0 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 0.946
[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	1732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	20.24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.46 ft
Luminous Width (90-270)	0.46 ft
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	21903	29866	21250
55	12776	13143	12795
65	7655	6378	7707
75	3714	2914	4043
85	934	1739	1485

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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	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642
2.5	1006.787	1005.623	1007.442	1007.224	1006.787	1007.224	1007.442	1005.623	1006.787	1005.623
5.0	1007.879	1007.078	1006.933	1007.224	1005.405	1007.224	1006.933	1007.078	1007.879	1007.078
7.5	1006.569	1005.987	1006.205	1007.733	1004.605	1007.733	1006.205	1005.987	1006.569	1005.987
10.0	1002.713	1004.314	1006.424	1003.950	1001.913	1003.950	1006.424	1004.314	1002.713	1004.314
12.5	993.401	997.621	1002.131	1000.385	993.983	1000.385	1002.131	997.621	993.401	997.621
15.0	982.343	984.526	992.965	989.837	982.271	989.837	992.965	984.526	982.343	984.526
17.5	967.357	972.449	978.269	976.160	968.885	976.160	978.269	972.449	967.357	972.449
20.0	955.208	959.282	958.991	961.319	954.989	961.319	958.991	959.282	955.208	959.282
22.5	940.003	945.896	942.331	948.078	940.512	948.078	942.331	945.896	940.003	945.896
25.0	917.596	928.072	924.507	929.672	917.596	929.672	924.507	928.072	917.596	928.072
27.5	877.583	895.771	905.956	901.882	876.492	901.882	905.956	895.771	877.583	895.771
30.0	817.710	846.956	877.874	858.741	817.128	858.741	877.874	846.956	817.710	846.956
32.5	744.524	781.335	841.572	795.303	738.413	795.303	841.572	781.335	744.524	781.335
35.0	656.642	697.818	784.609	720.152	648.712	720.152	784.609	697.818	656.642	697.818
37.5	559.084	605.353	708.440	629.651	548.899	629.651	708.440	605.353	559.084	605.353
40.0	460.726	508.304	616.993	531.875	451.123	531.875	616.993	508.304	460.726	508.304
42.5	374.808	416.130	515.652	435.845	365.060	435.845	515.652	416.130	374.808	416.130
45.0	304.750	336.833	415.548	350.146	295.656	350.146	415.548	336.833	304.750	336.833
47.5	250.115	272.012	325.775	279.360	242.403	279.360	325.775	272.012	250.115	272.012
50.0	207.556	220.796	251.497	224.434	202.027	224.434	251.497	220.796	207.556	220.796
52.5	173.218	181.220	193.297	181.439	171.617	181.439	193.297	181.220	173.218	181.220
55.0	144.191	148.265	148.337	147.392	144.409	147.392	148.337	148.265	144.191	148.265
57.5	119.456	120.983	114.290	120.183	120.329	120.183	114.290	120.983	119.456	120.983
60.0	98.285	98.867	88.755	96.685	99.304	96.685	88.755	98.867	98.285	98.867
62.5	79.880	79.007	68.894	77.406	80.534	77.406	68.894	79.007	79.880	79.007
65.0	63.656	62.565	53.035	60.601	64.093	60.601	53.035	62.565	63.656	62.565
67.5	49.543	48.524	40.304	46.415	50.561	46.415	40.304	48.524	49.543	48.524
70.0	37.757	36.448	29.900	34.702	39.067	34.702	29.900	36.448	37.757	36.448
72.5	27.863	26.117	21.389	25.099	29.100	25.099	21.389	26.117	27.863	26.117
75.0	18.915	17.751	14.841	17.387	20.588	17.387	14.841	17.751	18.915	17.751
77.5	11.495	10.985	10.040	11.640	12.804	11.640	10.040	10.985	11.495	10.985
80.0	6.911	6.984	6.766	7.639	7.930	7.639	6.766	6.984	6.911	6.984
82.5	3.783	4.220	4.583	5.020	4.656	5.020	4.583	4.220	3.783	4.220
85.0	1.601	2.255	2.983	3.347	2.546	3.347	2.983	2.255	1.601	2.255
87.5	0.291	0.873	1.601	1.819	1.164	1.819	1.601	0.873	0.291	0.873
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	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642	1006.642
2.5	1007.442	1007.224	1006.787	1007.224	1007.442	1005.623	1006.787
5.0	1006.933	1007.224	1005.405	1007.224	1006.933	1007.078	1007.879
7.5	1006.205	1007.733	1004.605	1007.733	1006.205	1005.987	1006.569
10.0	1006.424	1003.950	1001.913	1003.950	1006.424	1004.314	1002.713
12.5	1002.131	1000.385	993.983	1000.385	1002.131	997.621	993.401
15.0	992.965	989.837	982.271	989.837	992.965	984.526	982.343
17.5	978.269	976.160	968.885	976.160	978.269	972.449	967.357
20.0	958.991	961.319	954.989	961.319	958.991	959.282	955.208
22.5	942.331	948.078	940.512	948.078	942.331	945.896	940.003
25.0	924.507	929.672	917.596	929.672	924.507	928.072	917.596
27.5	905.956	901.882	876.492	901.882	905.956	895.771	877.583
30.0	877.874	858.741	817.128	858.741	877.874	846.956	817.710

CANDELA TABULATION - (Cont.)

32.5	841.572	795.303	738.413	795.303	841.572	781.335	744.524
35.0	784.609	720.152	648.712	720.152	784.609	697.818	656.642
37.5	708.440	629.651	548.899	629.651	708.440	605.353	559.084
40.0	616.993	531.875	451.123	531.875	616.993	508.304	460.726
42.5	515.652	435.845	365.060	435.845	515.652	416.130	374.808
45.0	415.548	350.146	295.656	350.146	415.548	336.833	304.750
47.5	325.775	279.360	242.403	279.360	325.775	272.012	250.115
50.0	251.497	224.434	202.027	224.434	251.497	220.796	207.556
52.5	193.297	181.439	171.617	181.439	193.297	181.220	173.218
55.0	148.337	147.392	144.409	147.392	148.337	148.265	144.191
57.5	114.290	120.183	120.329	120.183	114.290	120.983	119.456
60.0	88.755	96.685	99.304	96.685	88.755	98.867	98.285
62.5	68.894	77.406	80.534	77.406	68.894	79.007	79.880
65.0	53.035	60.601	64.093	60.601	53.035	62.565	63.656
67.5	40.304	46.415	50.561	46.415	40.304	48.524	49.543
70.0	29.900	34.702	39.067	34.702	29.900	36.448	37.757
72.5	21.389	25.099	29.100	25.099	21.389	26.117	27.863
75.0	14.841	17.387	20.588	17.387	14.841	17.751	18.915
77.5	10.040	11.640	12.804	11.640	10.040	10.985	11.495
80.0	6.766	7.639	7.930	7.639	6.766	6.984	6.911
82.5	4.583	5.020	4.656	5.020	4.583	4.220	3.783
85.0	2.983	3.347	2.546	3.347	2.983	2.255	1.601
87.5	1.601	1.819	1.164	1.819	1.601	0.873	0.291
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	374.65	N.A.	21.60
0-30	797.77	N.A.	46.10
0-40	1236.26	N.A.	71.40
0-60	1647.76	N.A.	95.10
0-80	1728.64	N.A.	99.80
0-90	1731.91	N.A.	100.00
10-90	1635.87	N.A.	94.50
20-40	861.60	N.A.	49.70
20-50	1137.71	N.A.	65.70
40-70	472.67	N.A.	27.30
60-80	80.88	N.A.	4.70
70-80	19.71	N.A.	1.10
80-90	3.27	N.A.	0.20
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	1731.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.04
10-20	278.61
20-30	423.12
30-40	438.48
40-50	276.11
50-60	135.40
60-70	61.17
70-80	19.71
80-90	3.27
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

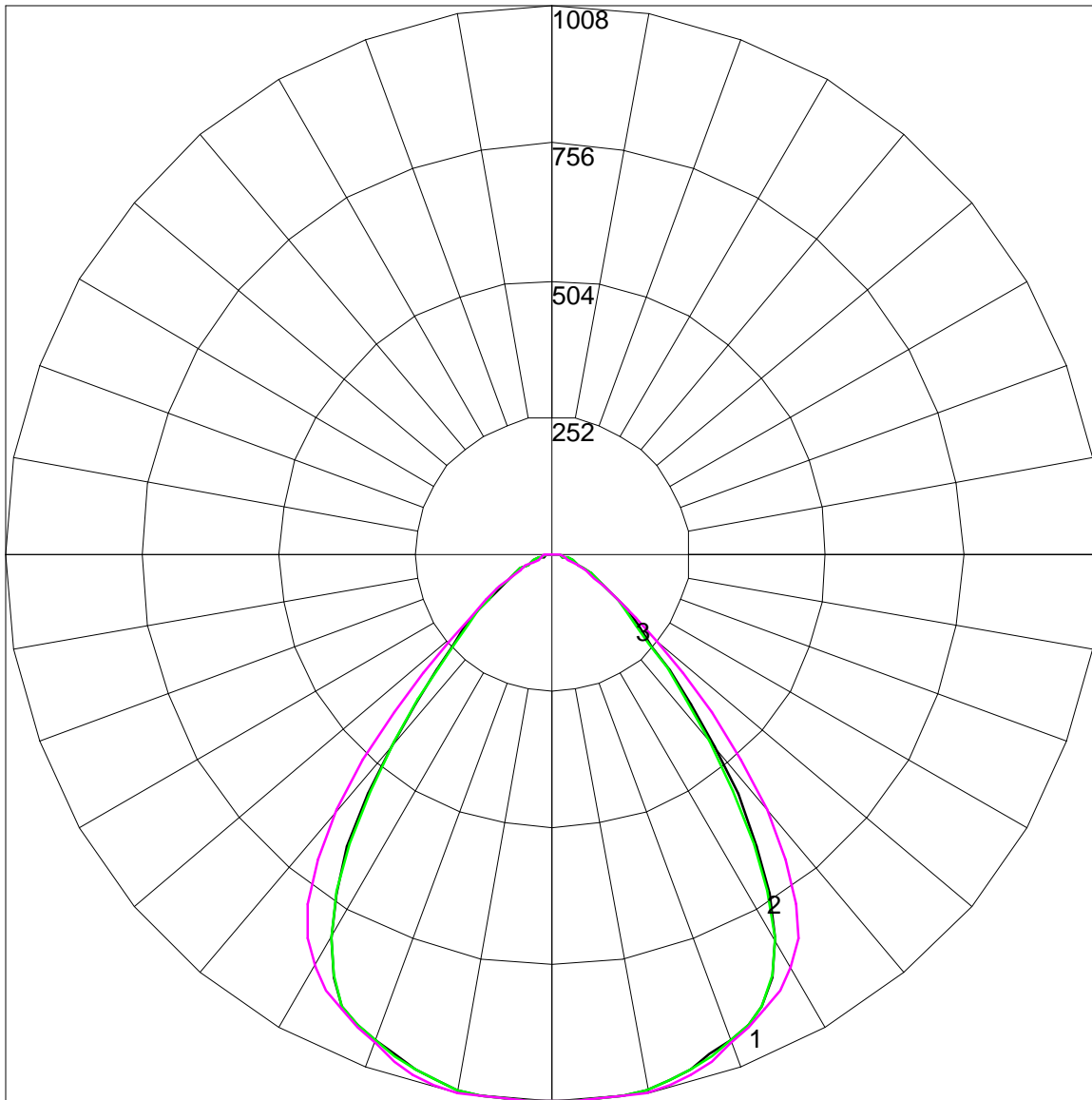
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37

POLAR GRAPH



Maximum Candela = 1007.879 Located At Horizontal Angle = 0, Vertical Angle = 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)