

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGW6LEDOS-20L35KEX-AR6923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 102560753CRT-014\_M-20L  
[TESTLAB] Intertek  
[ISSUE DATE] 11/11/2016  
[UPDATE] 12/15/2016  
[LAB-REF LUMCAT] CRT1611041146-004\_M-20L  
[MANUFAC] Spectrum Lighting  
[LUMCAT] SGW6LEDOS-20L-35K-EX-AR6923OS-SG-SK  
[LUMINAIRE] 6" Aperture Recessed WallWasher Downlight  
[TRIM] Semi-diffuse anodized cone, regressed Linear Prism Lens  
[OTHER] Perpendicular Orientation  
[LAMP] N/A (Gen3)  
[LAMPCAT] N/A  
[OTHER] Total Luminaire Wattage is approximate  
[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	1492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	20.24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	46487	24117	10030
55	39964	12803	2452
65	37457	6222	179
75	26802	2432	0
85	14126	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>
<b>0.0</b>	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253
<b>2.5</b>	1592.207	1591.479	1584.932	1573.874	1557.287	1541.282	1525.568	1513.418	1501.851	1513.418
<b>5.0</b>	1600.646	1596.499	1582.604	1557.650	1529.642	1496.686	1456.382	1429.610	1416.079	1429.610
<b>7.5</b>	1590.315	1583.331	1560.197	1524.404	1485.191	1429.028	1373.447	1328.051	1305.935	1328.051
<b>10.0</b>	1564.343	1551.612	1519.238	1476.898	1425.973	1352.132	1274.507	1214.561	1180.878	1214.561
<b>12.5</b>	1532.624	1511.454	1465.985	1413.605	1354.823	1263.522	1165.746	1090.159	1044.908	1090.159
<b>15.0</b>	1480.535	1459.365	1405.748	1338.600	1271.816	1170.548	1049.201	955.571	905.810	955.571
<b>17.5</b>	1417.825	1392.071	1329.506	1251.737	1181.751	1070.007	931.709	819.456	764.675	819.456
<b>20.0</b>	1356.424	1321.940	1247.372	1161.454	1089.868	966.557	811.017	687.997	629.579	687.997
<b>22.5</b>	1294.441	1252.319	1168.874	1071.608	996.530	863.688	696.436	563.522	503.212	563.522
<b>25.0</b>	1233.549	1186.553	1088.413	978.560	902.173	764.312	584.183	448.213	392.268	448.213
<b>27.5</b>	1171.784	1115.767	1000.531	887.041	805.270	666.899	478.040	346.290	295.074	346.290
<b>30.0</b>	1111.402	1043.235	908.866	780.680	687.851	560.393	383.684	259.354	215.849	259.354
<b>32.5</b>	1040.180	960.664	810.435	654.314	561.703	448.795	302.931	190.096	155.103	190.096
<b>35.0</b>	961.901	865.580	701.674	529.693	445.521	349.418	227.198	137.643	113.563	137.643
<b>37.5</b>	868.126	766.058	585.128	421.368	351.019	265.756	162.887	99.377	82.353	99.377
<b>40.0</b>	773.333	671.337	477.167	335.378	279.433	204.646	115.236	72.168	55.436	72.168
<b>42.5</b>	679.922	587.165	384.993	259.208	193.806	150.302	80.971	49.034	34.338	49.034
<b>45.0</b>	600.188	511.433	311.370	180.129	129.495	97.849	57.982	30.264	20.516	30.264
<b>47.5</b>	535.513	445.594	254.843	123.311	89.628	64.311	40.449	17.533	12.731	17.533
<b>50.0</b>	486.916	394.378	205.883	87.737	62.565	44.378	25.826	10.549	9.458	10.549
<b>52.5</b>	451.850	356.912	165.725	61.401	39.867	28.809	15.132	7.566	6.620	7.566
<b>55.0</b>	418.531	326.066	134.078	40.740	25.681	17.460	7.857	4.947	4.147	4.947
<b>57.5</b>	383.756	294.638	106.070	25.390	13.532	9.021	4.147	2.765	2.037	2.765
<b>60.0</b>	349.928	263.210	81.407	13.386	5.165	3.710	2.255	0.946	0.364	0.946
<b>62.5</b>	320.609	232.364	62.201	8.003	2.619	1.819	0.655	0.000	0.000	0.000
<b>65.0</b>	289.036	200.499	48.015	5.384	1.382	0.509	0.000	0.000	0.000	0.000
<b>67.5</b>	245.677	165.725	35.575	3.347	0.218	0.000	0.000	0.000	0.000	0.000
<b>70.0</b>	208.356	133.205	25.463	1.892	0.000	0.000	0.000	0.000	0.000	0.000
<b>72.5</b>	165.943	101.850	17.678	0.728	0.000	0.000	0.000	0.000	0.000	0.000
<b>75.0</b>	126.658	74.060	11.495	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>77.5</b>	93.557	52.162	7.566	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80.0</b>	65.111	35.066	4.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>82.5</b>	44.087	21.098	1.601	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85.0</b>	22.480	9.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>87.5</b>	5.456	1.601	0.000	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	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>
<b>0.0</b>	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253	1567.253
<b>2.5</b>	1525.568	1541.282	1557.287	1573.874	1584.932	1591.479	1592.207
<b>5.0</b>	1456.382	1496.686	1529.642	1557.650	1582.604	1596.499	1600.646
<b>7.5</b>	1373.447	1429.028	1485.191	1524.404	1560.197	1583.331	1590.315
<b>10.0</b>	1274.507	1352.132	1425.973	1476.898	1519.238	1551.612	1564.343
<b>12.5</b>	1165.746	1263.522	1354.823	1413.605	1465.985	1511.454	1532.624
<b>15.0</b>	1049.201	1170.548	1271.816	1338.600	1405.748	1459.365	1480.535
<b>17.5</b>	931.709	1070.007	1181.751	1251.737	1329.506	1392.071	1417.825
<b>20.0</b>	811.017	966.557	1089.868	1161.454	1247.372	1321.940	1356.424
<b>22.5</b>	696.436	863.688	996.530	1071.608	1168.874	1252.319	1294.441
<b>25.0</b>	584.183	764.312	902.173	978.560	1088.413	1186.553	1233.549
<b>27.5</b>	478.040	666.899	805.270	887.041	1000.531	1115.767	1171.784
<b>30.0</b>	383.684	560.393	687.851	780.680	908.866	1043.235	1111.402

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	302.931	448.795	561.703	654.314	810.435	960.664	1040.180
<b>35.0</b>	227.198	349.418	445.521	529.693	701.674	865.580	961.901
<b>37.5</b>	162.887	265.756	351.019	421.368	585.128	766.058	868.126
<b>40.0</b>	115.236	204.646	279.433	335.378	477.167	671.337	773.333
<b>42.5</b>	80.971	150.302	193.806	259.208	384.993	587.165	679.922
<b>45.0</b>	57.982	97.849	129.495	180.129	311.370	511.433	600.188
<b>47.5</b>	40.449	64.311	89.628	123.311	254.843	445.594	535.513
<b>50.0</b>	25.826	44.378	62.565	87.737	205.883	394.378	486.916
<b>52.5</b>	15.132	28.809	39.867	61.401	165.725	356.912	451.850
<b>55.0</b>	7.857	17.460	25.681	40.740	134.078	326.066	418.531
<b>57.5</b>	4.147	9.021	13.532	25.390	106.070	294.638	383.756
<b>60.0</b>	2.255	3.710	5.165	13.386	81.407	263.210	349.928
<b>62.5</b>	0.655	1.819	2.619	8.003	62.201	232.364	320.609
<b>65.0</b>	0.000	0.509	1.382	5.384	48.015	200.499	289.036
<b>67.5</b>	0.000	0.000	0.218	3.347	35.575	165.725	245.677
<b>70.0</b>	0.000	0.000	0.000	1.892	25.463	133.205	208.356
<b>72.5</b>	0.000	0.000	0.000	0.728	17.678	101.850	165.943
<b>75.0</b>	0.000	0.000	0.000	0.000	11.495	74.060	126.658
<b>77.5</b>	0.000	0.000	0.000	0.000	7.566	52.162	93.557
<b>80.0</b>	0.000	0.000	0.000	0.000	4.001	35.066	65.111
<b>82.5</b>	0.000	0.000	0.000	0.000	1.601	21.098	44.087
<b>85.0</b>	0.000	0.000	0.000	0.000	0.000	9.167	22.480
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	1.601	5.456
<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	483.13	N.A.	32.40
0-30	869.99	N.A.	58.30
0-40	1167.64	N.A.	78.30
0-60	1418.15	N.A.	95.10
0-80	1488.21	N.A.	99.80
0-90	1491.79	N.A.	100.00
10-90	1350.6	N.A.	90.50
20-40	684.51	N.A.	45.90
20-50	847.72	N.A.	56.80
40-70	299.95	N.A.	20.10
60-80	70.07	N.A.	4.70
70-80	20.63	N.A.	1.40
80-90	3.58	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	1491.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	141.19
10-20	341.94
20-30	386.86
30-40	297.65
40-50	163.22
50-60	87.29
60-70	49.44
70-80	20.63
80-90	3.58
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

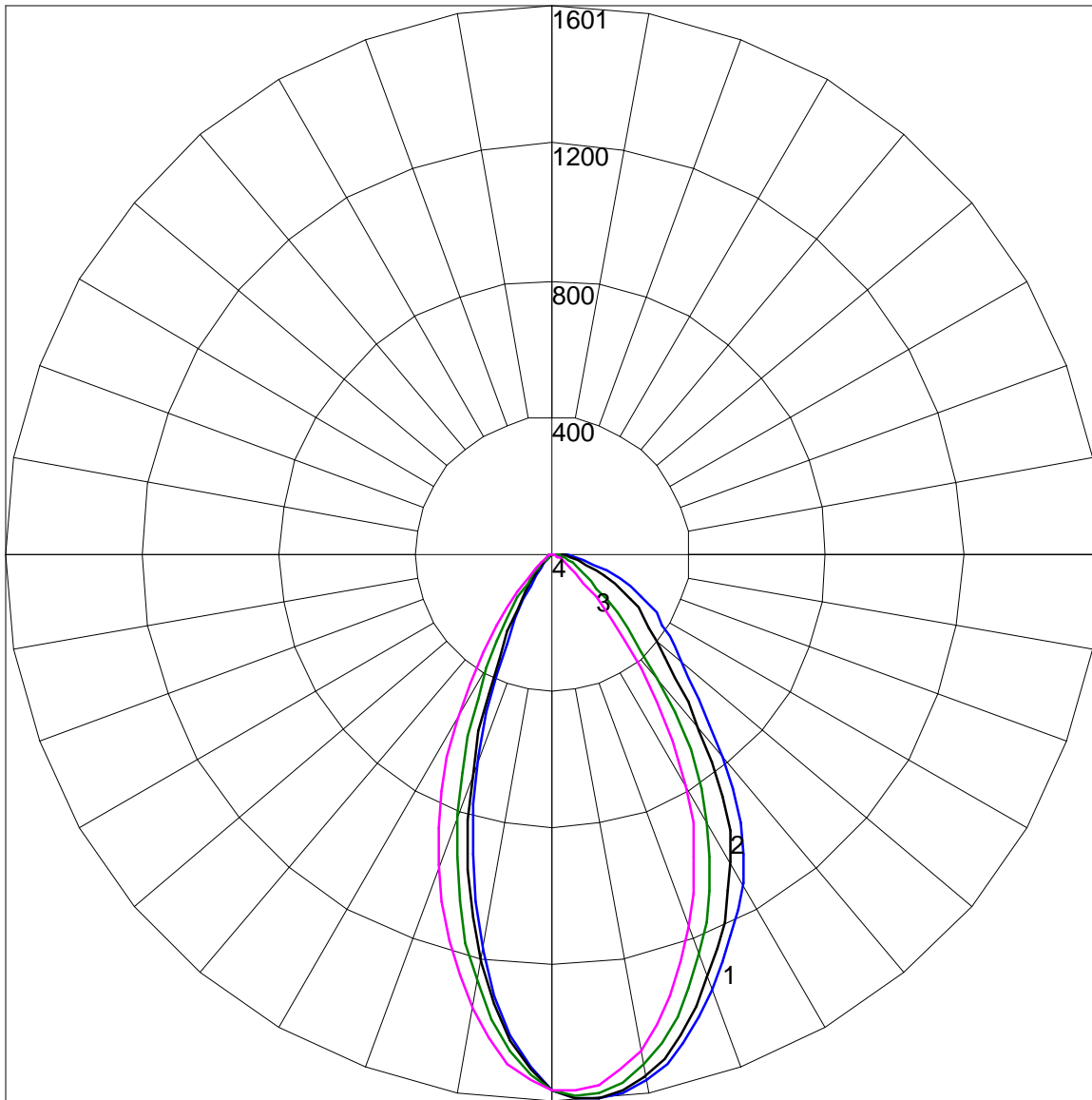
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80	85	81	78	83	80	77	75
4	93	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44

POLAR GRAPH



Maximum Candela = 1600.646 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)  
# 3 - Vertical Plane Through Horizontal Angles (45 - 225)  
# 4 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)