

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4LEDOS-10L35KEX-AR4923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-012_M-10L
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-005_M-10L
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4LEDOS-10L-35K-EX-AR4923OS-SG-SK
[LUMINAIRE] 4" 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	643
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	10.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	31346	19915	13087
55	23117	9850	5225
65	20328	5227	1427
75	21730	2579	0
85	9487	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	606.944	606.944	606.944	606.944	606.944	606.944	606.944	606.944	606.944	606.944
2.5	603.485	603.656	604.684	604.958	605.369	605.300	604.410	601.978	601.327	601.978
5.0	595.608	595.950	597.183	597.286	598.005	597.046	594.751	591.977	589.717	591.977
7.5	586.052	585.983	585.367	586.566	586.977	583.757	578.894	573.242	571.050	573.242
10.0	574.133	571.701	570.571	568.961	569.475	565.707	557.864	550.398	545.500	550.398
12.5	557.796	556.015	552.898	548.514	548.617	543.582	531.903	522.210	514.367	522.210
15.0	540.945	536.972	530.327	524.162	523.511	515.291	501.043	488.748	478.575	488.748
17.5	519.059	514.093	506.010	496.385	493.817	482.891	465.663	450.182	438.058	450.182
20.0	495.050	488.679	477.822	466.108	460.765	447.305	426.755	408.603	394.218	408.603
22.5	470.150	461.553	447.545	432.167	425.385	410.110	386.854	366.612	349.761	366.612
25.0	440.935	430.283	412.130	394.526	384.080	369.147	346.679	323.491	307.839	323.491
27.5	410.726	397.060	373.085	352.364	343.014	327.019	304.551	281.501	266.602	281.501
30.0	376.784	361.029	334.040	309.997	295.612	284.412	263.862	242.079	227.660	242.079
32.5	344.589	324.176	294.721	263.040	247.662	239.956	226.358	205.432	191.663	205.432
35.0	309.106	285.953	254.957	216.529	203.137	196.424	190.738	170.565	158.098	170.565
37.5	273.075	248.415	210.740	175.942	165.976	158.098	152.070	137.891	126.965	137.891
40.0	237.832	213.241	171.524	143.782	139.535	127.376	117.991	107.271	99.188	107.271
42.5	205.329	182.998	138.404	116.210	102.168	102.305	89.701	82.097	75.590	82.097
45.0	176.285	155.632	111.998	84.700	73.603	72.610	67.473	61.616	56.376	61.616
47.5	150.769	130.835	91.174	61.856	55.143	52.129	51.683	45.518	42.813	45.518
50.0	131.041	110.114	71.857	47.882	43.463	39.456	37.812	34.250	32.606	34.250
52.5	116.553	94.530	55.793	36.511	31.031	30.346	27.160	25.927	23.770	25.927
55.0	105.456	82.645	44.936	26.749	23.838	21.920	20.208	19.043	16.235	19.043
57.5	96.037	73.227	36.785	20.824	18.632	17.057	15.104	12.912	9.830	12.912
60.0	86.105	64.185	29.798	15.515	13.529	12.707	10.446	7.535	5.069	7.535
62.5	76.994	55.725	23.222	10.446	8.734	8.323	6.268	3.288	2.432	3.288
65.0	68.329	48.258	17.570	6.234	4.795	4.692	2.980	1.473	1.267	1.473
67.5	60.760	41.443	12.536	2.809	1.678	1.336	0.822	0.514	0.377	0.514
70.0	55.793	36.922	10.070	1.850	0.959	0.445	0.034	0.000	0.000	0.000
72.5	50.279	32.366	7.706	1.062	0.274	0.000	0.000	0.000	0.000	0.000
75.0	44.731	27.229	5.309	0.308	0.000	0.000	0.000	0.000	0.000	0.000
77.5	37.230	21.098	3.220	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	27.811	14.556	1.541	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	18.975	8.186	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	6.576	1.473	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	606.944	606.944	606.944	606.944	606.944	606.944	606.944
2.5	604.410	605.300	605.369	604.958	604.684	603.656	603.485
5.0	594.751	597.046	598.005	597.286	597.183	595.950	595.608
7.5	578.894	583.757	586.977	586.566	585.367	585.983	586.052
10.0	557.864	565.707	569.475	568.961	570.571	571.701	574.133
12.5	531.903	543.582	548.617	548.514	552.898	556.015	557.796
15.0	501.043	515.291	523.511	524.162	530.327	536.972	540.945
17.5	465.663	482.891	493.817	496.385	506.010	514.093	519.059
20.0	426.755	447.305	460.765	466.108	477.822	488.679	495.050
22.5	386.854	410.110	425.385	432.167	447.545	461.553	470.150
25.0	346.679	369.147	384.080	394.526	412.130	430.283	440.935
27.5	304.551	327.019	343.014	352.364	373.085	397.060	410.726
30.0	263.862	284.412	295.612	309.997	334.040	361.029	376.784

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32.5	226.358	239.956	247.662	263.040	294.721	324.176	344.589
35.0	190.738	196.424	203.137	216.529	254.957	285.953	309.106
37.5	152.070	158.098	165.976	175.942	210.740	248.415	273.075
40.0	117.991	127.376	139.535	143.782	171.524	213.241	237.832
42.5	89.701	102.305	102.168	116.210	138.404	182.998	205.329
45.0	67.473	72.610	73.603	84.700	111.998	155.632	176.285
47.5	51.683	52.129	55.143	61.856	91.174	130.835	150.769
50.0	37.812	39.456	43.463	47.882	71.857	110.114	131.041
52.5	27.160	30.346	31.031	36.511	55.793	94.530	116.553
55.0	20.208	21.920	23.838	26.749	44.936	82.645	105.456
57.5	15.104	17.057	18.632	20.824	36.785	73.227	96.037
60.0	10.446	12.707	13.529	15.515	29.798	64.185	86.105
62.5	6.268	8.323	8.734	10.446	23.222	55.725	76.994
65.0	2.980	4.692	4.795	6.234	17.570	48.258	68.329
67.5	0.822	1.336	1.678	2.809	12.536	41.443	60.760
70.0	0.034	0.445	0.959	1.850	10.070	36.922	55.793
72.5	0.000	0.000	0.274	1.062	7.706	32.366	50.279
75.0	0.000	0.000	0.000	0.308	5.309	27.229	44.731
77.5	0.000	0.000	0.000	0.000	3.220	21.098	37.230
80.0	0.000	0.000	0.000	0.000	1.541	14.556	27.811
82.5	0.000	0.000	0.000	0.000	0.171	8.186	18.975
85.0	0.000	0.000	0.000	0.000	0.000	1.473	6.576
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	199.74	N.A.	31.10
0-30	372.66	N.A.	58.00
0-40	509.43	N.A.	79.30
0-60	618.59	N.A.	96.20
0-80	641.42	N.A.	99.80
0-90	642.70	N.A.	100.00
10-90	586.84	N.A.	91.30
20-40	309.68	N.A.	48.20
20-50	384.02	N.A.	59.80
40-70	124.79	N.A.	19.40
60-80	22.84	N.A.	3.60
70-80	7.21	N.A.	1.10
80-90	1.28	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	642.70	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.87
10-20	143.88
20-30	172.92
30-40	136.77
40-50	74.34
50-60	34.83
60-70	15.63
70-80	7.21
80-90	1.28
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

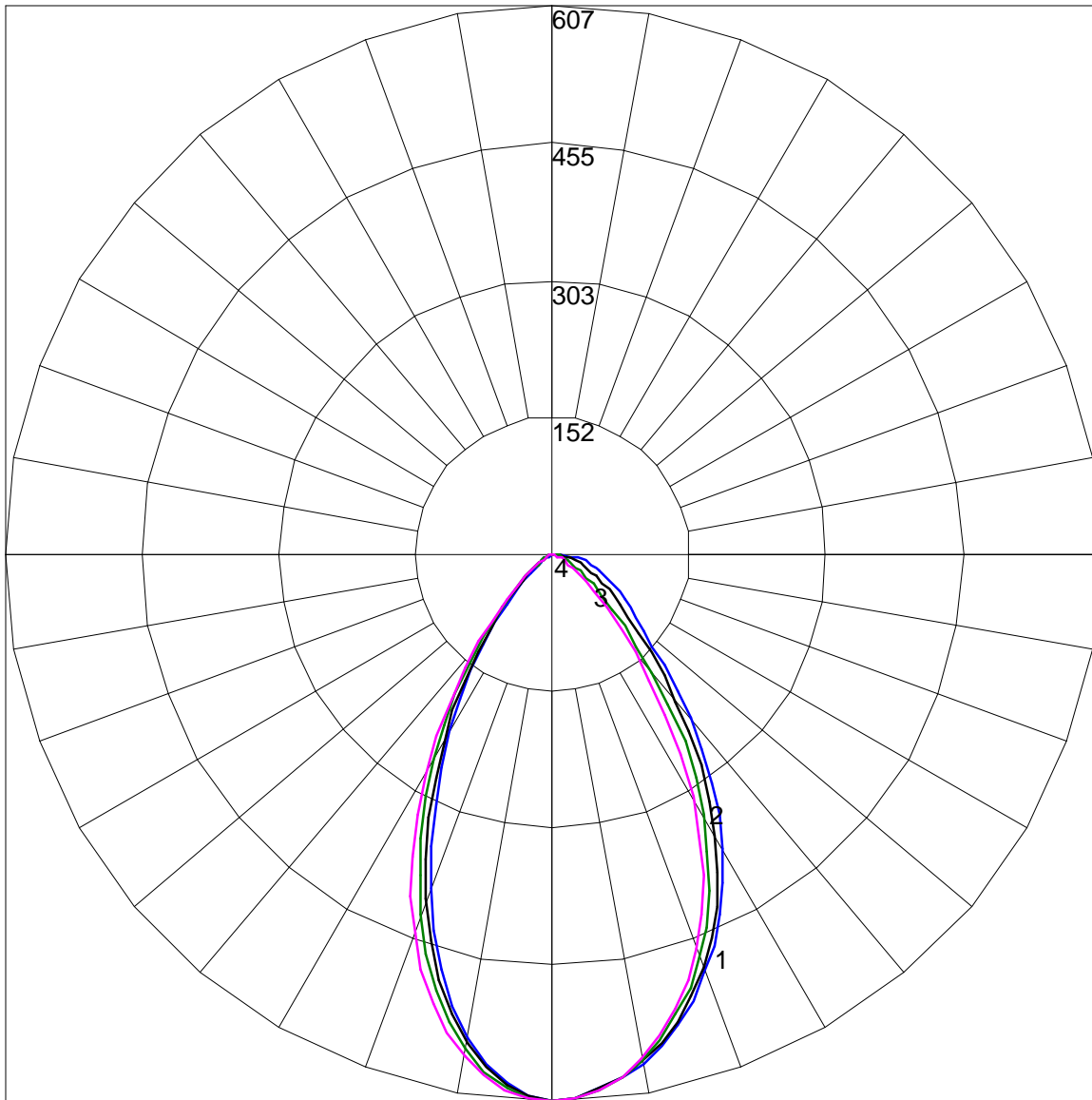
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	86	82	97	91	85	81	88	84	80	85	82	79	83	80	77	76
4	94	85	79	74	92	84	78	73	82	77	72	79	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	62	82	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	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 606.944 Located At Horizontal Angle = 0, Vertical Angle = 0
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)