

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGW4LEDOS-30L35KEX-AR4923OSSGSK.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 102560753CRT-012
[TESTLAB] Intertek
[ISSUE DATE] 11/11/2016
[UPDATE] 12/15/2016
[LAB-REF LUMCAT] CRT1611041146-005
[MANUFAC] Spectrum Lighting
[LUMCAT] SGW4LEDOS-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	27.5
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	91520	58144	38212
55	67494	28760	15257
65	59353	15262	4165
75	63444	7530	0
85	27698	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	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1
2.5	1762.0	1762.5	1765.5	1766.3	1767.5	1767.3	1764.7	1757.6	1755.7	1757.6
5.0	1739.0	1740.0	1743.6	1743.9	1746.0	1743.2	1736.5	1728.4	1721.8	1728.4
7.5	1711.1	1710.9	1709.1	1712.6	1713.8	1704.4	1690.2	1673.7	1667.3	1673.7
10.0	1676.3	1669.2	1665.9	1661.2	1662.7	1651.7	1628.8	1607.0	1592.7	1607.0
12.5	1628.6	1623.4	1614.3	1601.5	1601.8	1587.1	1553.0	1524.7	1501.8	1524.7
15.0	1579.4	1567.8	1548.4	1530.4	1528.5	1504.5	1462.9	1427.0	1397.3	1427.0
17.5	1515.5	1501.0	1477.4	1449.3	1441.8	1409.9	1359.6	1314.4	1279.0	1314.4
20.0	1445.4	1426.8	1395.1	1360.9	1345.3	1306.0	1246.0	1193.0	1151.0	1193.0
22.5	1372.7	1347.6	1306.7	1261.8	1242.0	1197.4	1129.5	1070.4	1021.2	1070.4
25.0	1287.4	1256.3	1203.3	1151.9	1121.4	1077.8	1012.2	944.5	898.8	944.5
27.5	1199.2	1159.3	1089.3	1028.8	1001.5	954.8	889.2	821.9	778.4	821.9
30.0	1100.1	1054.1	975.3	905.1	863.1	830.4	770.4	706.8	664.7	706.8
32.5	1006.1	946.5	860.5	768.0	723.1	700.6	660.9	599.8	559.6	599.8
35.0	902.5	834.9	744.4	632.2	593.1	573.5	556.9	498.0	461.6	498.0
37.5	797.3	725.3	615.3	513.7	484.6	461.6	444.0	402.6	370.7	402.6
40.0	694.4	622.6	500.8	419.8	407.4	371.9	344.5	313.2	289.6	313.2
42.5	599.5	534.3	404.1	339.3	298.3	298.7	261.9	239.7	220.7	239.7
45.0	514.7	454.4	327.0	247.3	214.9	212.0	197.0	179.9	164.6	179.9
47.5	440.2	382.0	266.2	180.6	161.0	152.2	150.9	132.9	125.0	132.9
50.0	382.6	321.5	209.8	139.8	126.9	115.2	110.4	100.0	95.2	100.0
52.5	340.3	276.0	162.9	106.6	90.6	88.6	79.3	75.7	69.4	75.7
55.0	307.9	241.3	131.2	78.1	69.6	64.0	59.0	55.6	47.4	55.6
57.5	280.4	213.8	107.4	60.8	54.4	49.8	44.1	37.7	28.7	37.7
60.0	251.4	187.4	87.0	45.3	39.5	37.1	30.5	22.0	14.8	22.0
62.5	224.8	162.7	67.8	30.5	25.5	24.3	18.3	9.6	7.1	9.6
65.0	199.5	140.9	51.3	18.2	14.0	13.7	8.7	4.3	3.7	4.3
67.5	177.4	121.0	36.6	8.2	4.9	3.9	2.4	1.5	1.1	1.5
70.0	162.9	107.8	29.4	5.4	2.8	1.3	0.1	0.0	0.0	0.0
72.5	146.8	94.5	22.5	3.1	0.8	0.0	0.0	0.0	0.0	0.0
75.0	130.6	79.5	15.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5	108.7	61.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	81.2	42.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	55.4	23.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	19.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1
2.5	1764.7	1767.3	1767.5	1766.3	1765.5	1762.5	1762.0
5.0	1736.5	1743.2	1746.0	1743.9	1743.6	1740.0	1739.0
7.5	1690.2	1704.4	1713.8	1712.6	1709.1	1710.9	1711.1
10.0	1628.8	1651.7	1662.7	1661.2	1665.9	1669.2	1676.3
12.5	1553.0	1587.1	1601.8	1601.5	1614.3	1623.4	1628.6
15.0	1462.9	1504.5	1528.5	1530.4	1548.4	1567.8	1579.4
17.5	1359.6	1409.9	1441.8	1449.3	1477.4	1501.0	1515.5
20.0	1246.0	1306.0	1345.3	1360.9	1395.1	1426.8	1445.4
22.5	1129.5	1197.4	1242.0	1261.8	1306.7	1347.6	1372.7
25.0	1012.2	1077.8	1121.4	1151.9	1203.3	1256.3	1287.4
27.5	889.2	954.8	1001.5	1028.8	1089.3	1159.3	1199.2
30.0	770.4	830.4	863.1	905.1	975.3	1054.1	1100.1

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CANDELA TABULATION - (Cont.)

32.5	660.9	700.6	723.1	768.0	860.5	946.5	1006.1
35.0	556.9	573.5	593.1	632.2	744.4	834.9	902.5
37.5	444.0	461.6	484.6	513.7	615.3	725.3	797.3
40.0	344.5	371.9	407.4	419.8	500.8	622.6	694.4
42.5	261.9	298.7	298.3	339.3	404.1	534.3	599.5
45.0	197.0	212.0	214.9	247.3	327.0	454.4	514.7
47.5	150.9	152.2	161.0	180.6	266.2	382.0	440.2
50.0	110.4	115.2	126.9	139.8	209.8	321.5	382.6
52.5	79.3	88.6	90.6	106.6	162.9	276.0	340.3
55.0	59.0	64.0	69.6	78.1	131.2	241.3	307.9
57.5	44.1	49.8	54.4	60.8	107.4	213.8	280.4
60.0	30.5	37.1	39.5	45.3	87.0	187.4	251.4
62.5	18.3	24.3	25.5	30.5	67.8	162.7	224.8
65.0	8.7	13.7	14.0	18.2	51.3	140.9	199.5
67.5	2.4	3.9	4.9	8.2	36.6	121.0	177.4
70.0	0.1	1.3	2.8	5.4	29.4	107.8	162.9
72.5	0.0	0.0	0.8	3.1	22.5	94.5	146.8
75.0	0.0	0.0	0.0	0.9	15.5	79.5	130.6
77.5	0.0	0.0	0.0	0.0	9.4	61.6	108.7
80.0	0.0	0.0	0.0	0.0	4.5	42.5	81.2
82.5	0.0	0.0	0.0	0.0	0.5	23.9	55.4
85.0	0.0	0.0	0.0	0.0	0.0	4.3	19.2
87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	583.19	N.A.	31.10
0-30	1088.06	N.A.	58.00
0-40	1487.37	N.A.	79.30
0-60	1806.09	N.A.	96.20
0-80	1872.77	N.A.	99.80
0-90	1876.5	N.A.	100.00
10-90	1713.39	N.A.	91.30
20-40	904.19	N.A.	48.20
20-50	1121.22	N.A.	59.80
40-70	364.34	N.A.	19.40
60-80	66.68	N.A.	3.60
70-80	21.05	N.A.	1.10
80-90	3.73	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	1876.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.11
10-20	420.08
20-30	504.87
30-40	399.32
40-50	217.04
50-60	101.68
60-70	45.63
70-80	21.05
80-90	3.73
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

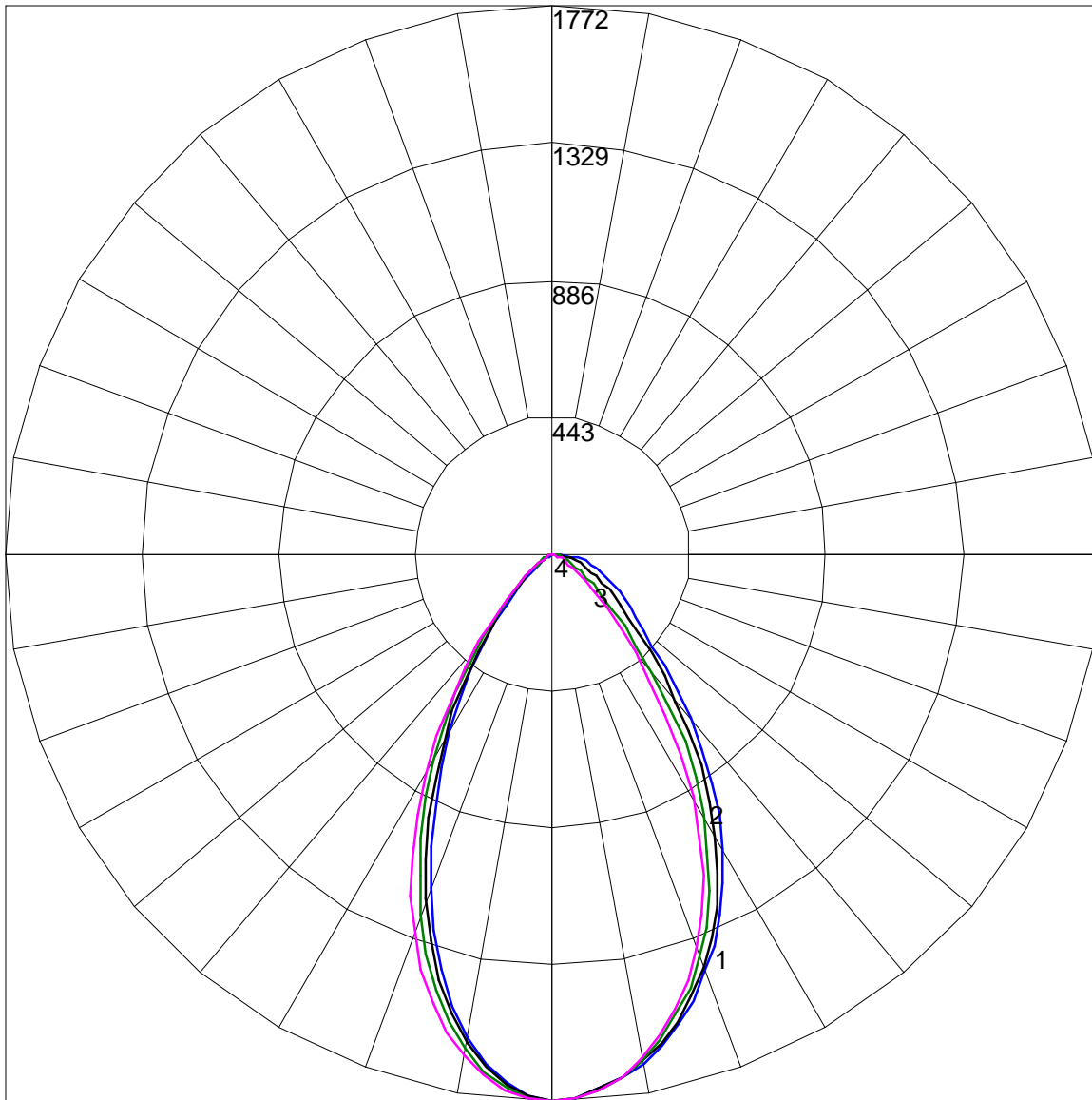
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	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	79	68	61	57	77	67	61	57	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	49	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 1772.1 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)