

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00423\_18 ~ C06XXUDXT-10LWDGL-10LWD-XXKEX-TSG-SO (UP\_DOWN).IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00423\_18\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/13/2017  
 [UPDATE] 1/30/2018  
 [LUMCAT] C06xxUDXT-10L-WD-GL-10L-WD-xxK-EX-TSG-SO-xx (Up/Down)  
 [LUMINAIRE] Nom. 6" Diam. x 18"H Direct/Indirect Cylinder  
 [OTHER] Cylinder also available as 24" H. variant  
 [OTHER] Uplight: Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 42 Degree Beam Angle  
 [OTHER] Downlight: Wide Beam, Regressed Solite lens  
 [OTHER] Downlight: 45.1 Degree Beam Angle  
 [OTHER] Trim: Semi-diffuse clear anodized aluminum  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES Uplight  
 [OTHER] N/A, 19mm LES Downlight  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] See Catalog cut sheet for different source lumen multipliers  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	18.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1369	1524	1579
55	294	306	325
65	94	86	81
75	85	98	91
85	261	329	324

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1041.805	1041.805	1041.805	1041.805	1041.805
<b>2.5</b>	1018.929	1022.158	1023.403	1024.262	1030.218
<b>5.0</b>	996.052	1002.511	1005.001	1006.719	1018.631
<b>7.5</b>	944.782	950.731	954.488	956.587	967.247
<b>10.0</b>	893.512	898.951	903.975	906.455	915.863
<b>12.5</b>	822.272	826.442	832.330	835.011	843.070
<b>15.0</b>	751.032	753.932	760.684	763.566	770.277
<b>17.5</b>	673.787	675.908	682.518	684.660	690.138
<b>20.0</b>	596.542	597.883	604.352	605.753	609.999
<b>22.5</b>	521.794	522.903	528.407	531.764	534.173
<b>25.0</b>	447.046	447.923	452.462	457.775	458.346
<b>27.5</b>	371.000	373.311	378.292	385.667	386.582
<b>30.0</b>	294.953	298.699	304.122	313.559	314.818
<b>32.5</b>	217.227	216.984	226.410	228.815	234.448
<b>35.0</b>	139.501	135.267	148.697	144.072	154.078
<b>37.5</b>	92.153	88.140	98.550	95.583	101.945
<b>40.0</b>	44.804	41.012	48.402	47.094	49.813
<b>42.5</b>	31.238	29.233	34.042	33.301	35.100
<b>45.0</b>	17.673	17.454	19.681	19.507	20.386
<b>47.5</b>	12.767	12.581	14.132	14.138	14.957
<b>50.0</b>	7.861	7.707	8.583	8.769	9.527
<b>52.5</b>	5.467	5.344	5.891	6.189	6.465
<b>55.0</b>	3.074	2.981	3.200	3.608	3.402
<b>57.5</b>	2.080	1.953	2.246	2.349	2.274
<b>60.0</b>	1.086	0.924	1.292	1.090	1.145
<b>62.5</b>	0.906	0.818	0.979	0.774	0.884
<b>65.0</b>	0.725	0.712	0.666	0.459	0.624
<b>67.5</b>	0.686	0.585	0.599	0.400	0.568
<b>70.0</b>	0.647	0.458	0.532	0.342	0.512
<b>72.5</b>	0.525	0.523	0.496	0.430	0.470
<b>75.0</b>	0.403	0.588	0.461	0.519	0.428
<b>77.5</b>	0.442	0.586	0.499	0.546	0.397
<b>80.0</b>	0.481	0.584	0.537	0.573	0.365
<b>82.5</b>	0.449	0.585	0.530	0.564	0.441
<b>85.0</b>	0.416	0.586	0.524	0.555	0.516
<b>87.5</b>	0.208	0.293	0.526	0.578	0.591
<b>90.0</b>	0.000	0.000	0.528	0.600	0.666
<b>92.5</b>	2.051	2.579	1.931	2.592	0.751
<b>95.0</b>	2.590	2.106	2.530	2.606	0.799
<b>97.5</b>	2.664	2.265	2.619	2.463	0.771
<b>100.0</b>	2.739	2.424	2.707	2.319	0.744
<b>102.5</b>	2.671	2.686	2.609	2.473	0.944
<b>105.0</b>	2.603	2.948	2.510	2.627	1.144
<b>107.5</b>	2.656	2.669	2.649	2.447	1.375
<b>110.0</b>	2.709	2.389	2.788	2.266	1.606
<b>112.5</b>	2.962	2.762	3.126	2.583	1.929
<b>115.0</b>	3.214	3.135	3.463	2.899	2.252
<b>117.5</b>	3.592	3.693	4.140	3.461	2.840
<b>120.0</b>	3.970	4.250	4.817	4.023	3.429
<b>122.5</b>	5.290	5.287	5.907	5.156	4.326
<b>125.0</b>	6.609	6.324	6.998	6.289	5.222

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<b>127.5</b>	8.623	8.577	9.107	8.613	7.140
<b>130.0</b>	10.637	10.831	11.215	10.935	9.057
<b>132.5</b>	16.610	17.143	17.082	17.102	14.402
<b>135.0</b>	22.582	23.454	22.949	23.268	19.746
<b>137.5</b>	51.295	51.827	49.772	49.395	45.561
<b>140.0</b>	80.007	80.200	76.595	75.521	71.375
<b>142.5</b>	139.775	137.475	138.546	131.381	126.885
<b>145.0</b>	199.544	194.749	200.495	187.240	182.395
<b>147.5</b>	260.546	253.509	263.052	248.636	245.085
<b>150.0</b>	321.549	312.270	325.608	310.031	307.775
<b>152.5</b>	369.185	361.625	370.688	361.838	358.590
<b>155.0</b>	416.822	410.980	415.768	413.645	409.406
<b>157.5</b>	482.382	474.796	480.406	477.206	472.696
<b>160.0</b>	547.943	538.613	545.044	540.769	535.987
<b>162.5</b>	631.578	617.890	625.528	618.702	617.240
<b>165.0</b>	715.212	697.167	706.013	696.634	698.493
<b>167.5</b>	788.386	770.141	777.719	769.633	772.812
<b>170.0</b>	861.560	843.116	849.426	842.633	847.132
<b>172.5</b>	908.351	894.231	898.471	892.266	897.455
<b>175.0</b>	955.142	945.346	947.517	941.900	947.778
<b>177.5</b>	970.321	965.422	966.507	963.699	966.638
<b>180.0</b>	985.265	985.265	985.265	985.265	985.265

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Zone	Lumens	%Lamp	%Fixt
0-20	302.44	N.A.	24.00
0-30	508.27	N.A.	40.40
0-40	605.39	N.A.	48.10
0-60	626.39	N.A.	49.80
0-80	627.62	N.A.	49.90
0-90	628.15	N.A.	49.90
10-90	535.80	N.A.	42.60
20-40	302.96	N.A.	24.10
20-50	320.41	N.A.	25.50
40-70	21.70	N.A.	1.70
60-80	1.23	N.A.	0.10
70-80	0.53	N.A.	0.00
80-90	0.53	N.A.	0.00
90-110	4.73	N.A.	0.40
90-120	7.87	N.A.	0.60
90-130	14.02	N.A.	1.10
90-150	158.57	N.A.	12.60
90-180	630.70	N.A.	50.10
110-180	625.98	N.A.	49.70
0-180	1258.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.35
10-20	210.09
20-30	205.83
30-40	97.13
40-50	17.46
50-60	3.54
60-70	0.70
70-80	0.53
80-90	0.53
90-100	2.17
100-110	2.56
110-120	3.14
120-130	6.15
130-140	25.07
140-150	119.48
150-160	191.80
160-170	193.47
170-180	86.86

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

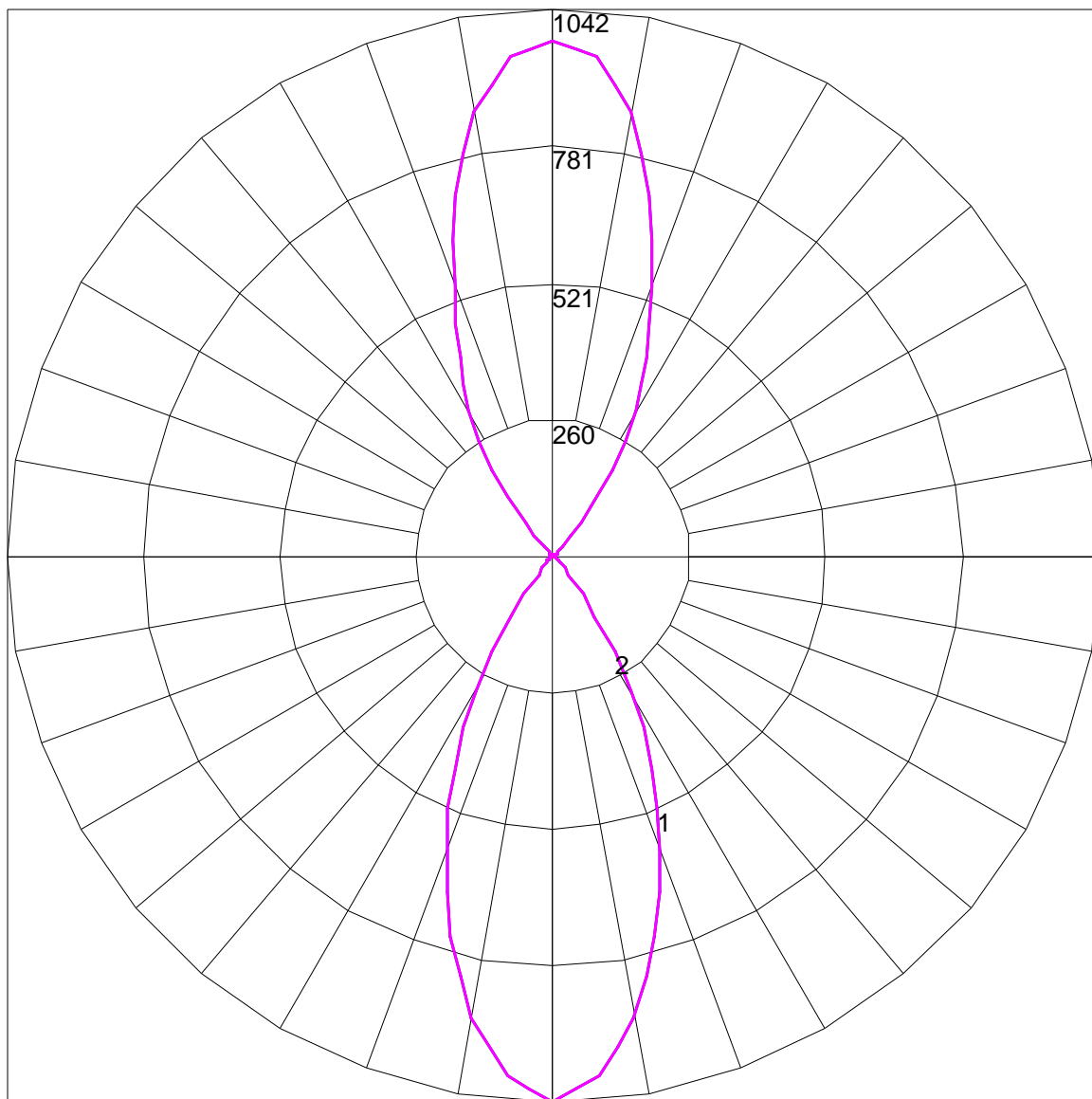
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	100	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	81	75	70	81	75	71	67	66	62	59	57	54	52	48	47	45	42
4	82	74	68	63	77	69	64	60	61	57	54	53	50	48	46	44	43	39
5	77	68	62	57	72	64	59	55	57	53	50	50	47	45	43	41	40	37
6	73	63	57	52	68	60	54	50	53	49	46	47	44	42	41	39	38	35
7	69	59	52	48	64	56	50	46	50	46	42	44	41	39	39	37	35	33
8	65	55	48	44	61	52	46	43	47	43	40	42	39	36	37	35	33	31
9	61	51	45	41	58	49	43	40	44	40	37	40	37	34	36	33	32	30
10	58	48	42	38	55	46	41	37	42	38	35	38	35	32	34	32	30	28

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## POLAR GRAPH



Maximum Candela = 1041.805 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 (0 - 180)