

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00423\_19 ~ C06XXUDXT-20LXWGL-20LXW-XXKEX-TSG-SO (UP\_DOWN).IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00423\_19  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/13/2017  
 [UPDATE] 1/30/2018  
 [LUMCAT] C06xxUDXT-20L-XW-GL-20L-XW-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: Xtra Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 55.5 Degree Beam Angle  
 [OTHER] Downlight: Xtra Wide Beam, Regressed Solite lens  
 [OTHER] Downlight: 52 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	43.4
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	5443	5343	5535
55	1293	1223	1261
65	211	181	165
75	299	219	245
85	697	786	694

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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>	1713.086	1713.086	1713.086	1713.086	1713.086
<b>2.5</b>	1690.257	1692.547	1699.141	1698.489	1703.240
<b>5.0</b>	1667.427	1672.008	1685.195	1683.892	1693.393
<b>7.5</b>	1615.424	1621.461	1635.584	1633.737	1642.957
<b>10.0</b>	1563.420	1570.914	1585.973	1583.582	1592.521
<b>12.5</b>	1491.553	1499.660	1511.157	1511.131	1520.109
<b>15.0</b>	1419.686	1428.405	1436.341	1438.679	1447.697
<b>17.5</b>	1329.567	1336.484	1346.282	1346.760	1356.582
<b>20.0</b>	1239.447	1244.562	1256.223	1254.841	1265.467
<b>22.5</b>	1125.311	1131.697	1140.445	1141.139	1151.919
<b>25.0</b>	1011.175	1018.832	1024.666	1027.436	1038.371
<b>27.5</b>	869.728	879.818	885.577	885.175	899.368
<b>30.0</b>	728.280	740.804	746.488	742.914	760.364
<b>32.5</b>	561.046	561.155	570.555	570.149	575.490
<b>35.0</b>	393.812	381.505	394.622	397.383	390.616
<b>37.5</b>	271.632	263.708	271.106	280.676	268.958
<b>40.0</b>	149.451	145.911	147.590	163.969	147.300
<b>42.5</b>	109.864	107.479	108.289	118.833	109.380
<b>45.0</b>	70.276	69.047	68.987	73.697	71.459
<b>47.5</b>	52.430	50.516	51.282	54.752	53.274
<b>50.0</b>	34.584	31.984	33.577	35.806	35.089
<b>52.5</b>	24.064	22.042	23.194	24.909	24.146
<b>55.0</b>	13.543	12.100	12.811	14.012	13.203
<b>57.5</b>	8.704	7.214	8.079	8.780	8.194
<b>60.0</b>	3.865	2.328	3.346	3.548	3.185
<b>62.5</b>	2.745	1.804	2.371	2.427	2.229
<b>65.0</b>	1.625	1.280	1.395	1.306	1.272
<b>67.5</b>	1.527	1.319	1.218	1.242	1.220
<b>70.0</b>	1.429	1.357	1.040	1.177	1.167
<b>72.5</b>	1.420	1.229	1.039	1.272	1.162
<b>75.0</b>	1.411	1.101	1.037	1.366	1.157
<b>77.5</b>	1.260	1.205	0.979	1.344	1.040
<b>80.0</b>	1.108	1.308	0.921	1.322	0.923
<b>82.5</b>	1.109	1.246	1.086	1.214	1.014
<b>85.0</b>	1.109	1.183	1.250	1.105	1.104
<b>87.5</b>	1.037	1.259	1.150	1.297	1.109
<b>90.0</b>	0.965	1.335	1.049	1.489	1.113
<b>92.5</b>	4.633	5.251	4.486	5.470	1.493
<b>95.0</b>	6.413	5.898	6.159	5.563	1.765
<b>97.5</b>	5.610	5.533	5.911	5.348	1.773
<b>100.0</b>	4.806	5.167	5.662	5.133	1.781
<b>102.5</b>	5.176	4.665	5.680	5.350	2.129
<b>105.0</b>	5.545	4.163	5.697	5.567	2.477
<b>107.5</b>	6.008	4.802	5.839	5.755	3.131
<b>110.0</b>	6.471	5.440	5.980	5.943	3.785
<b>112.5</b>	7.547	6.406	6.002	6.390	4.520
<b>115.0</b>	8.623	7.372	6.024	6.836	5.254
<b>117.5</b>	9.695	8.821	7.539	8.136	6.982
<b>120.0</b>	10.766	10.269	9.054	9.436	8.709
<b>122.5</b>	15.375	13.181	12.077	13.053	13.313
<b>125.0</b>	19.984	16.093	15.099	16.670	17.916

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<b>127.5</b>	29.173	23.133	21.946	24.012	26.481
<b>130.0</b>	38.362	30.173	28.793	31.353	35.045
<b>132.5</b>	55.567	48.896	45.865	52.398	56.832
<b>135.0</b>	72.771	67.618	62.936	73.442	78.618
<b>137.5</b>	140.713	134.842	138.142	149.799	158.365
<b>140.0</b>	208.655	202.065	213.348	226.155	238.111
<b>142.5</b>	355.927	329.451	348.260	360.023	378.595
<b>145.0</b>	503.199	456.837	483.172	493.890	519.079
<b>147.5</b>	657.242	594.291	618.293	626.728	656.894
<b>150.0</b>	811.285	731.745	753.415	759.566	794.710
<b>152.5</b>	916.415	841.522	847.298	860.038	892.902
<b>155.0</b>	1021.546	951.300	941.182	960.511	991.094
<b>157.5</b>	1105.841	1049.360	1043.743	1055.862	1081.989
<b>160.0</b>	1190.136	1147.420	1146.304	1151.214	1172.884
<b>162.5</b>	1274.721	1243.308	1250.105	1245.114	1261.975
<b>165.0</b>	1359.306	1339.197	1353.907	1339.014	1351.067
<b>167.5</b>	1422.179	1408.266	1420.702	1404.752	1412.556
<b>170.0</b>	1485.053	1477.335	1487.498	1470.490	1474.045
<b>172.5</b>	1518.534	1513.216	1521.173	1507.364	1510.976
<b>175.0</b>	1552.015	1549.096	1554.847	1544.237	1547.906
<b>177.5</b>	1563.302	1561.842	1564.718	1559.413	1561.247
<b>180.0</b>	1574.000	1574.000	1574.000	1574.000	1574.000

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Zone	Lumens	%Lamp	%Fixt
0-20	556.02	N.A.	20.50
0-30	1017.04	N.A.	37.40
0-40	1273.3	N.A.	46.80
0-60	1349.28	N.A.	49.60
0-80	1352.29	N.A.	49.70
0-90	1353.57	N.A.	49.80
10-90	1196.78	N.A.	44.00
20-40	717.28	N.A.	26.40
20-50	779.31	N.A.	28.70
40-70	77.74	N.A.	2.90
60-80	3.01	N.A.	0.10
70-80	1.26	N.A.	0.00
80-90	1.28	N.A.	0.00
90-110	10.27	N.A.	0.40
90-120	17.40	N.A.	0.60
90-130	33.98	N.A.	1.20
90-150	406.79	N.A.	15.00
90-180	1365.14	N.A.	50.20
110-180	1354.87	N.A.	49.80
0-180	2718.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.79
10-20	399.23
20-30	461.02
30-40	256.27
40-50	62.03
50-60	13.95
60-70	1.75
70-80	1.26
80-90	1.28
90-100	4.94
100-110	5.33
110-120	7.13
120-130	16.58
130-140	73.13
140-150	299.68
150-160	439.95
160-170	373.00
170-180	145.39

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

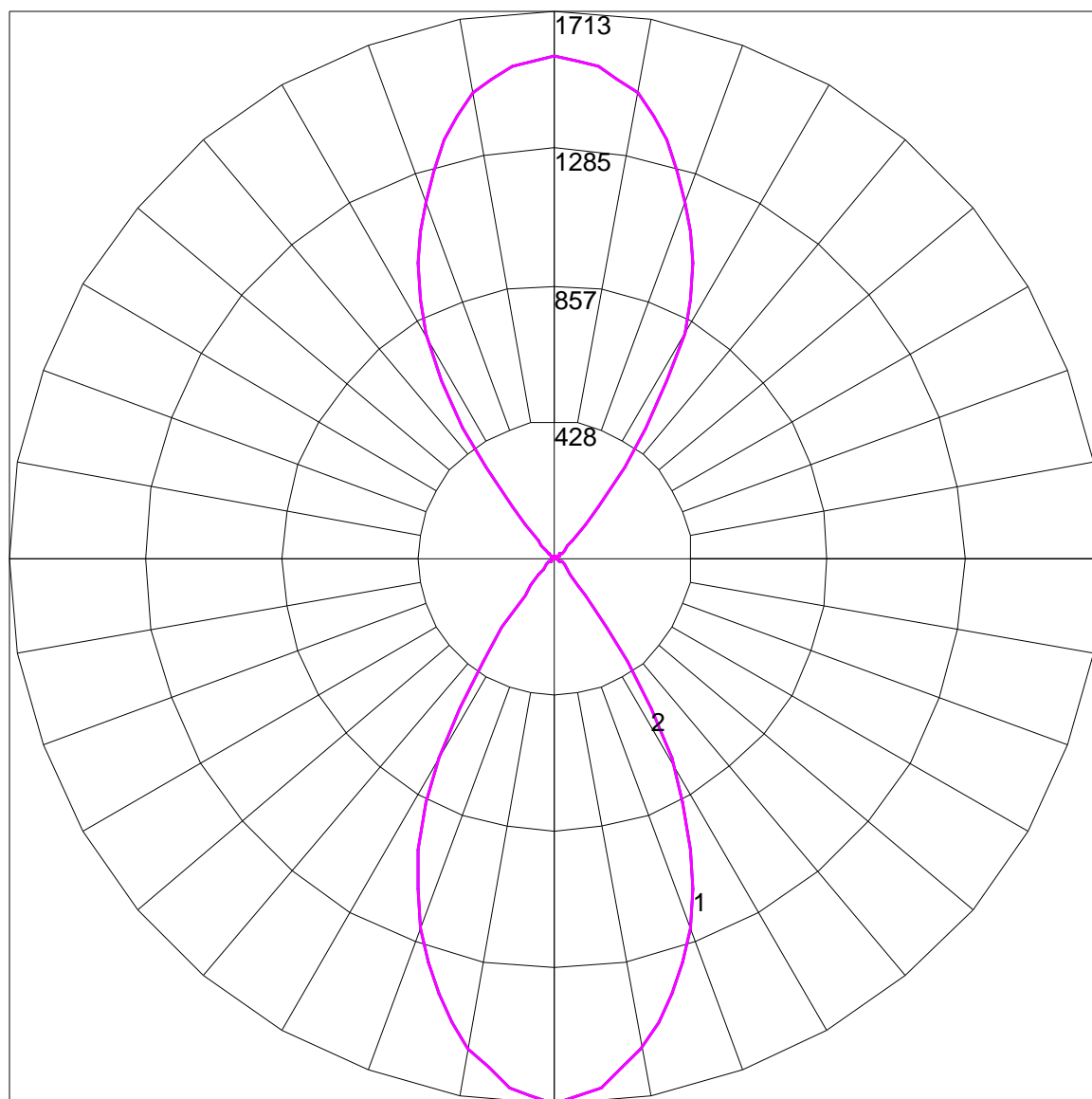
Effective Floor Cavity Reflectance 0.20

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	92	90	87	85	76	75	73	64	63	62	53	52	52	47
2	93	88	83	79	86	82	78	74	70	67	65	60	58	56	50	49	48	44
3	87	80	74	70	81	75	70	66	65	61	58	56	53	51	47	46	45	41
4	82	73	67	62	76	69	63	59	60	56	53	52	49	47	45	43	41	38
5	76	67	61	56	71	63	57	53	56	51	48	49	46	43	42	40	39	36
6	72	62	55	51	67	58	53	48	52	47	44	46	42	40	40	38	36	33
7	67	57	51	46	63	54	48	44	48	44	41	43	40	37	38	35	34	31
8	63	53	47	42	59	50	45	41	45	41	38	40	37	35	36	33	32	30
9	60	50	43	39	56	47	42	38	42	38	35	38	35	32	34	31	30	28
10	57	46	40	36	53	44	39	35	40	36	33	36	33	30	32	30	28	26

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## POLAR GRAPH



Maximum Candela = 1713.086 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)