

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00624\_50 ~ C0824UDXT-10LXNGL-10LXN-XXKEX-TSG-GLXXX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00624\_50  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/13/2017  
 [UPDATE] 12/15/2017  
 [LUMCAT] C0824UDXT-10L-XN-GL-10L-XN-xxK-EX-TSG-GL-xxx (Up/Down)  
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder  
 [OTHER] Uplight: Xtra Narrow Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 11.3 Degree Beam Angle  
 [OTHER] Downlight: Xtra Narrow Beam, Regressed Clear Glass lens  
 [OTHER] Downlight: 11.5 Degree Beam Angle  
 [OTHER] Trim: Semi-diffuse clear anodized alum.  
 [LAMP] N/A  
 [LAMPCAT] N/A, 9mm LES indirect  
 [OTHER] N/A, 9mm LES direct  
 [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	1545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	25.6
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)	0.67 ft (Diameter)
Luminous Width (90-270)	0.67 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52	62	84
55	45	42	45
65	48	40	69
75	113	75	123
85	179	266	389

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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>	9800.023	9800.023	9800.023	9800.023	9800.023
<b>2.5</b>	7882.139	7906.593	7931.050	7917.212	7903.369
<b>5.0</b>	5964.255	6013.166	6062.077	6034.401	6006.720
<b>7.5</b>	3663.685	3711.530	3759.375	3722.427	3685.479
<b>10.0</b>	1363.115	1409.894	1456.672	1410.455	1364.238
<b>12.5</b>	897.131	923.996	950.861	922.036	893.210
<b>15.0</b>	431.147	438.098	445.050	433.616	422.182
<b>17.5</b>	374.851	378.421	381.991	376.515	371.039
<b>20.0</b>	318.556	318.744	318.932	319.414	319.895
<b>22.5</b>	307.502	307.555	307.608	307.641	307.674
<b>25.0</b>	296.447	296.365	296.284	295.868	295.452
<b>27.5</b>	284.023	284.630	285.236	284.551	283.867
<b>30.0</b>	271.599	272.893	274.188	273.235	272.282
<b>32.5</b>	232.519	232.203	231.888	234.406	236.925
<b>35.0</b>	193.439	191.513	189.587	195.578	201.569
<b>37.5</b>	126.559	123.812	121.065	125.777	130.489
<b>40.0</b>	59.678	56.111	52.543	55.977	59.410
<b>42.5</b>	30.442	28.713	26.983	28.826	30.669
<b>45.0</b>	1.206	1.314	1.423	1.676	1.928
<b>47.5</b>	0.888	1.032	1.176	1.294	1.411
<b>50.0</b>	0.571	0.750	0.929	0.911	0.893
<b>52.5</b>	0.706	0.779	0.852	0.858	0.865
<b>55.0</b>	0.841	0.808	0.774	0.806	0.837
<b>57.5</b>	0.893	0.872	0.852	0.861	0.870
<b>60.0</b>	0.945	0.937	0.930	0.917	0.904
<b>62.5</b>	0.802	0.772	0.743	0.833	0.923
<b>65.0</b>	0.660	0.608	0.556	0.749	0.942
<b>67.5</b>	0.581	0.608	0.635	0.760	0.885
<b>70.0</b>	0.503	0.608	0.714	0.771	0.828
<b>72.5</b>	0.729	0.701	0.673	0.803	0.933
<b>75.0</b>	0.954	0.793	0.632	0.835	1.037
<b>77.5</b>	0.877	0.738	0.598	0.694	0.789
<b>80.0</b>	0.799	0.682	0.565	0.552	0.540
<b>82.5</b>	0.653	0.655	0.658	0.740	0.822
<b>85.0</b>	0.506	0.629	0.752	0.927	1.103
<b>87.5</b>	0.630	0.600	0.571	0.758	0.944
<b>90.0</b>	0.753	0.572	0.390	0.588	0.786
<b>92.5</b>	4.055	4.476	3.894	3.353	3.610
<b>95.0</b>	3.027	3.722	2.782	2.274	3.275
<b>97.5</b>	2.798	2.696	2.257	2.775	2.663
<b>100.0</b>	2.444	2.792	2.099	1.766	1.616
<b>102.5</b>	1.825	1.976	1.890	1.718	1.399
<b>105.0</b>	1.552	1.260	1.570	1.157	1.280
<b>107.5</b>	1.259	1.312	1.186	0.943	1.111
<b>110.0</b>	0.882	1.213	0.861	1.087	0.863
<b>112.5</b>	0.738	0.932	0.848	0.993	0.759
<b>115.0</b>	0.824	0.982	0.930	0.649	0.826
<b>117.5</b>	1.439	1.329	1.082	1.446	1.537
<b>120.0</b>	1.765	2.471	2.179	2.146	1.942
<b>122.5</b>	1.797	3.183	2.852	2.325	1.986
<b>125.0</b>	2.068	3.309	2.095	2.192	1.987

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127.5	2.525	3.288	1.770	1.567	1.967
130.0	2.576	3.094	2.481	1.596	2.377
132.5	2.297	3.401	3.446	2.510	2.937
135.0	4.691	4.329	5.054	6.294	6.154
137.5	9.400	16.964	16.116	14.201	10.319
140.0	53.912	44.961	53.435	50.475	61.757
142.5	134.952	96.498	102.509	130.084	132.122
145.0	198.749	181.974	186.803	197.533	192.226
147.5	245.774	242.581	255.160	244.510	247.924
150.0	275.257	265.101	271.844	278.025	272.676
152.5	286.032	283.807	286.943	287.409	283.201
155.0	298.399	296.303	296.322	297.380	294.994
157.5	312.565	309.522	307.269	308.468	307.421
160.0	334.953	323.993	324.553	326.694	330.020
162.5	367.194	356.866	354.464	359.472	358.156
165.0	480.103	424.985	440.481	454.043	500.322
167.5	695.517	605.584	594.609	688.682	708.590
170.0	1276.718	1016.113	1083.178	1208.356	1551.146
172.5	2368.448	1794.110	1747.480	2420.490	2784.908
175.0	3773.254	3374.979	3437.920	3807.728	4793.211
177.5	5642.041	4650.604	4938.185	5651.821	7318.372
180.0	7070.072	7070.072	7070.072	7070.072	7070.072

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Zone	Lumens	%Lamp	%Fixt
0-20	598.69	N.A.	38.80
0-30	735.12	N.A.	47.60
0-40	844.95	N.A.	54.70
0-60	856.71	N.A.	55.50
0-80	858.22	N.A.	55.60
0-90	858.97	N.A.	55.60
10-90	428.82	N.A.	27.80
20-40	246.26	N.A.	15.90
20-50	257.26	N.A.	16.70
40-70	12.50	N.A.	0.80
60-80	1.51	N.A.	0.10
70-80	0.78	N.A.	0.10
80-90	0.75	N.A.	0.00
90-110	4.53	N.A.	0.30
90-120	5.67	N.A.	0.40
90-130	7.80	N.A.	0.50
90-150	126.43	N.A.	8.20
90-180	685.58	N.A.	44.40
110-180	681.05	N.A.	44.10
0-180	1544.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	430.15
10-20	168.55
20-30	136.43
30-40	109.83
40-50	11.00
50-60	0.76
60-70	0.74
70-80	0.78
80-90	0.75
90-100	2.96
100-110	1.56
110-120	1.15
120-130	2.13
130-140	9.19
140-150	109.44
150-160	137.10
160-170	146.02
170-180	276.03

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

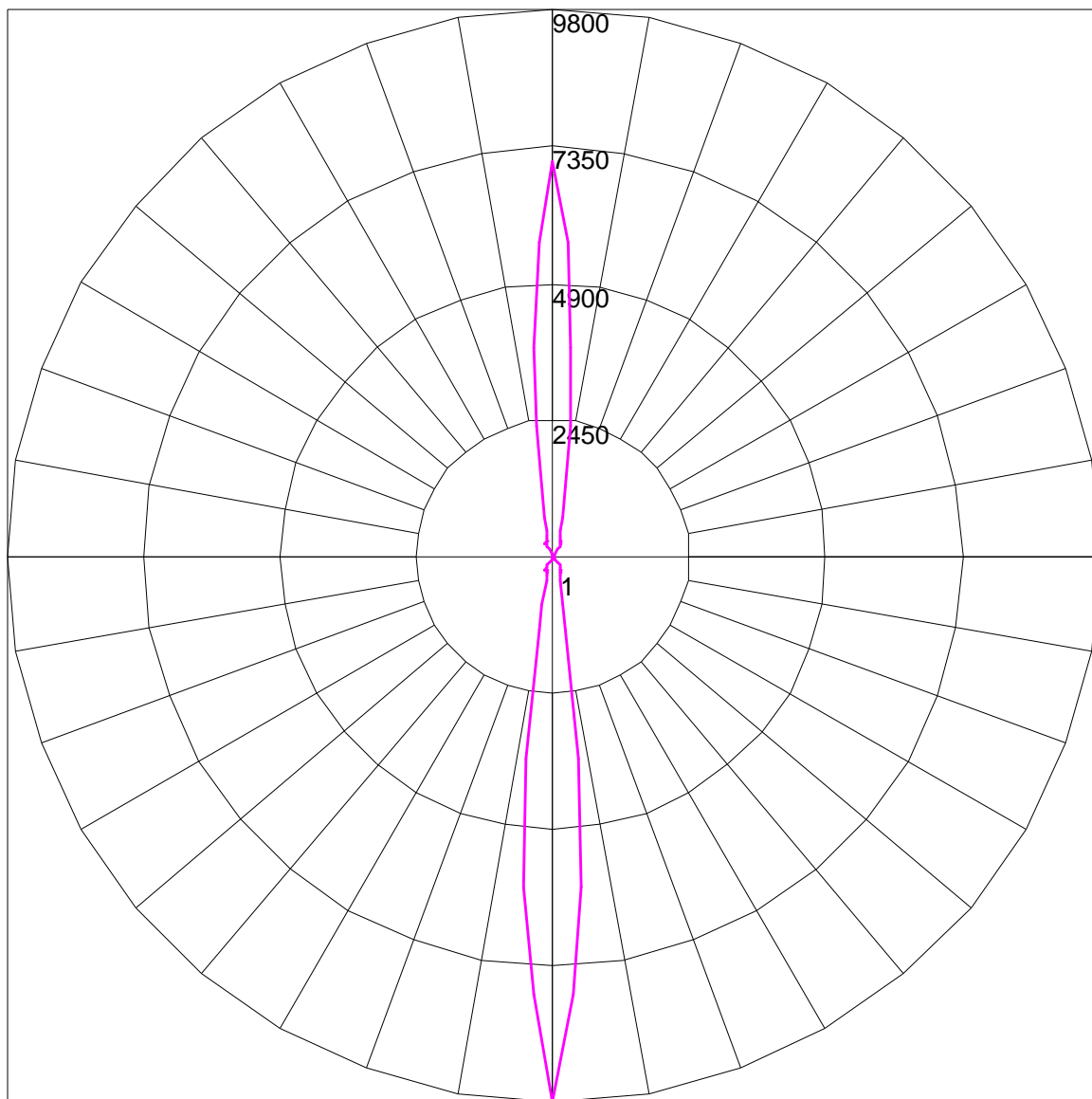
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	102	99	97	94	95	93	91	89	81	79	78	70	69	68	59	59	58	54
2	97	92	88	84	90	86	83	80	76	74	71	66	65	63	58	57	56	52
3	92	85	80	76	86	81	76	73	72	69	66	63	61	60	56	55	54	50
4	87	80	74	70	82	76	71	67	68	65	62	61	58	57	54	53	51	49
5	83	75	69	65	78	71	66	63	65	61	58	58	56	54	52	51	50	47
6	79	71	65	61	75	68	63	59	62	58	55	56	54	52	51	49	48	46
7	76	67	62	58	72	64	59	56	59	55	53	54	52	50	50	48	46	44
8	72	64	58	55	69	61	57	53	57	53	51	52	50	48	48	46	45	43
9	70	61	56	52	66	59	54	51	55	51	49	51	48	46	47	45	44	42
10	67	59	53	50	64	57	52	49	53	49	47	49	47	45	46	44	43	41

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**POLAR GRAPH**



Maximum Candela = 9800.023 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)