

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00624\_3 ~ C0824UDXT-20LMDGL-20LMD-XXKEX-TSG-SOXXX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00624  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/13/2017  
 [UPDATE] 12/8/2017  
 [LUMCAT] C0824UDXT-20L-MD-GL-20L-MD-xxK-EX-TSG-SO-xxx (Up/Down)  
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder  
 [OTHER] Uplight: Medium Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 36.6 Degree Beam Angle  
 [OTHER] Downlight: Medium Beam, Regressed Solite lens  
 [OTHER] Downlight: 39.6 Degree Beam Angle  
 [OTHER] Trim: Semi-diffuse clear anodized alum.  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES indirect  
 [OTHER] N/A, 19mm 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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)	0.67 ft (Diameter)
Luminous Width (90-270)	0.67 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00624\_3 ~ C0824UDXT-20LMDGL-20LMD-XXKEX-TSG-SOXXX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2219	2313	1975
55	220	201	191
65	66	76	90
75	95	73	144
85	340	475	304

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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>	2943.026	2943.026	2943.026	2943.026	2943.026
<b>2.5</b>	2859.854	2866.614	2856.599	2857.760	2834.505
<b>5.0</b>	2776.682	2790.202	2770.171	2772.494	2725.984
<b>7.5</b>	2581.340	2599.246	2574.108	2579.945	2519.158
<b>10.0</b>	2385.998	2408.290	2378.045	2387.395	2312.332
<b>12.5</b>	2136.354	2162.344	2127.623	2140.071	2060.860
<b>15.0</b>	1886.710	1916.397	1877.200	1892.747	1809.388
<b>17.5</b>	1649.612	1679.245	1640.112	1656.508	1579.221
<b>20.0</b>	1412.513	1442.093	1403.023	1420.268	1349.053
<b>22.5</b>	1218.475	1244.549	1209.934	1225.733	1162.628
<b>25.0</b>	1024.437	1047.004	1016.844	1031.198	976.203
<b>27.5</b>	861.781	882.376	853.050	866.697	817.182
<b>30.0</b>	699.124	717.747	689.255	702.196	658.161
<b>32.5</b>	555.427	569.594	544.141	555.520	516.455
<b>35.0</b>	411.729	421.441	399.027	408.844	374.748
<b>37.5</b>	297.079	307.951	288.552	298.828	267.941
<b>40.0</b>	182.428	194.460	178.076	188.812	161.133
<b>42.5</b>	116.707	123.845	115.610	121.603	103.253
<b>45.0</b>	50.986	53.229	53.143	54.393	45.372
<b>47.5</b>	31.357	32.730	32.505	33.161	27.590
<b>50.0</b>	11.727	12.231	11.867	11.928	9.807
<b>52.5</b>	7.915	7.683	7.804	7.707	6.685
<b>55.0</b>	4.103	3.135	3.740	3.486	3.562
<b>57.5</b>	2.858	2.428	2.556	2.283	2.667
<b>60.0</b>	1.612	1.720	1.371	1.079	1.771
<b>62.5</b>	1.262	1.445	1.205	1.059	1.506
<b>65.0</b>	0.911	1.169	1.038	1.039	1.241
<b>67.5</b>	0.879	1.089	1.027	0.920	1.210
<b>70.0</b>	0.847	1.009	1.016	0.801	1.178
<b>72.5</b>	0.824	1.120	0.813	0.850	1.193
<b>75.0</b>	0.801	1.231	0.610	0.898	1.207
<b>77.5</b>	0.879	1.249	0.842	0.941	1.040
<b>80.0</b>	0.956	1.267	1.073	0.983	0.873
<b>82.5</b>	0.959	1.159	1.210	1.043	0.868
<b>85.0</b>	0.962	1.050	1.346	1.103	0.862
<b>87.5</b>	0.833	0.807	1.097	0.836	1.042
<b>90.0</b>	0.703	0.563	0.847	0.569	1.222
<b>92.5</b>	9.037	7.671	6.823	7.978	6.145
<b>95.0</b>	7.932	6.694	7.523	6.155	6.752
<b>97.5</b>	5.410	6.011	6.746	6.295	6.251
<b>100.0</b>	6.702	5.649	5.994	5.990	5.522
<b>102.5</b>	6.096	5.883	5.921	5.016	4.616
<b>105.0</b>	5.440	6.062	5.425	4.105	4.703
<b>107.5</b>	5.885	5.738	5.264	5.046	5.037
<b>110.0</b>	6.289	5.020	5.540	4.977	4.748
<b>112.5</b>	6.668	5.587	5.741	3.942	3.831
<b>115.0</b>	7.433	6.403	5.924	4.425	4.785
<b>117.5</b>	8.308	8.107	7.335	5.347	6.146
<b>120.0</b>	11.032	9.897	8.865	6.077	6.701
<b>122.5</b>	14.112	16.246	13.356	6.783	7.651
<b>125.0</b>	46.979	26.154	22.509	35.749	24.816

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127.5	83.754	93.130	89.002	66.614	49.021
130.0	182.428	164.315	160.055	168.034	156.214
132.5	285.286	270.310	264.312	269.844	260.931
135.0	365.688	368.329	360.255	356.807	348.122
137.5	444.375	424.648	416.592	439.316	427.087
140.0	482.402	477.008	469.619	473.528	467.671
142.5	520.143	514.124	511.319	508.408	507.610
145.0	554.922	553.204	554.547	547.490	545.378
147.5	594.351	597.912	601.866	593.202	592.889
150.0	663.114	652.115	658.131	667.204	666.112
152.5	731.423	727.303	733.020	740.020	739.309
155.0	797.740	796.678	802.801	808.985	812.455
157.5	865.435	855.590	864.020	876.760	881.095
160.0	937.523	924.173	932.631	941.595	942.277
162.5	1029.378	1006.683	1011.337	1026.393	1031.199
165.0	1170.139	1135.140	1136.599	1150.414	1157.531
167.5	1339.476	1317.753	1313.224	1312.927	1334.948
170.0	1565.036	1509.337	1500.681	1536.553	1568.043
172.5	1752.054	1709.605	1697.952	1718.785	1747.366
175.0	1878.706	1846.272	1832.569	1848.152	1878.546
177.5	1958.059	1933.138	1920.638	1926.243	1948.518
180.0	1978.000	1978.000	1978.000	1978.000	1978.000

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Zone	Lumens	%Lamp	%Fixt
0-20	772.66	N.A.	24.90
0-30	1243.92	N.A.	40.10
0-40	1503.28	N.A.	48.50
0-60	1563.89	N.A.	50.40
0-80	1566.05	N.A.	50.50
0-90	1567.14	N.A.	50.50
10-90	1316.21	N.A.	42.40
20-40	730.62	N.A.	23.60
20-50	786.77	N.A.	25.40
40-70	61.75	N.A.	2.00
60-80	2.16	N.A.	0.10
70-80	1.03	N.A.	0.00
80-90	1.09	N.A.	0.00
90-110	12.28	N.A.	0.40
90-120	18.39	N.A.	0.60
90-130	63.67	N.A.	2.10
90-150	674.86	N.A.	21.80
90-180	1533.99	N.A.	49.50
110-180	1521.71	N.A.	49.10
0-180	3101.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	250.93
10-20	521.73
20-30	471.26
30-40	259.36
40-50	56.16
50-60	4.46
60-70	1.13
70-80	1.03
80-90	1.09
90-100	6.54
100-110	5.74
110-120	6.11
120-130	45.29
130-140	263.63
140-150	347.56
150-160	366.88
160-170	325.64
170-180	166.61

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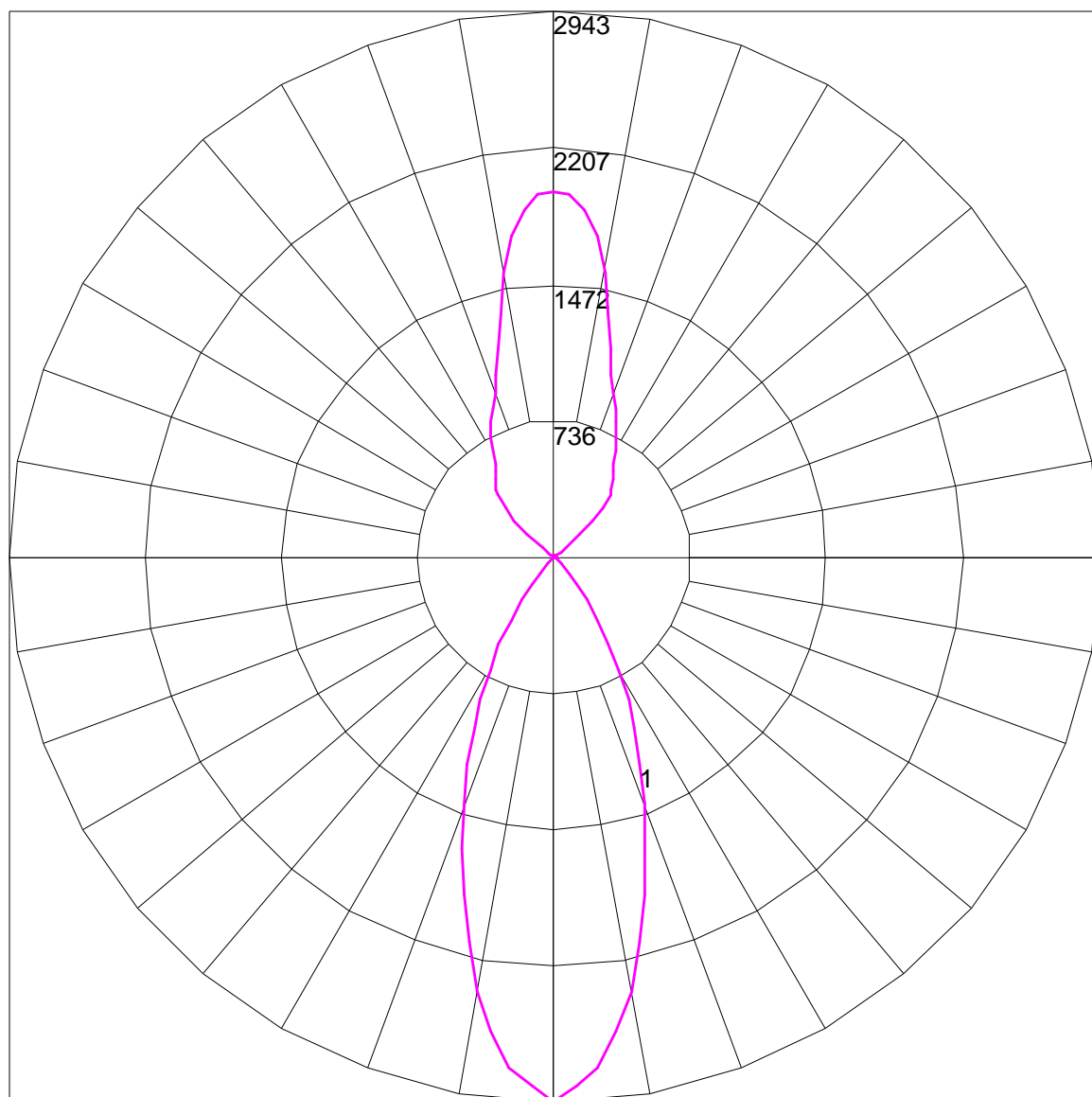
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	84	84	70	70	70	57	57	57	51
1	100	97	94	92	93	90	88	85	77	75	74	65	64	63	54	53	53	48
2	94	88	84	80	87	82	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	75	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	74	68	64	77	70	65	60	61	58	55	54	51	49	46	45	43	40
5	78	69	62	58	72	65	59	55	57	53	50	50	47	45	44	42	40	38
6	73	64	57	53	68	60	54	50	54	49	46	47	44	42	42	40	38	36
7	69	59	53	48	65	56	50	46	50	46	43	45	42	39	40	38	36	34
8	65	55	49	45	61	52	47	43	47	43	40	42	39	37	38	36	34	32
9	62	52	46	41	58	49	44	40	45	40	37	40	37	35	36	34	32	30
10	58	49	43	39	55	46	41	38	42	38	35	38	35	33	35	32	31	29

POLAR GRAPH



Maximum Candela = 2943.026 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)