

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00624\_14 ~ C0824UDXT-20LWDGL-20LWD-XXKEX-TSG-SOXXX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00624\_14  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/13/2017  
 [UPDATE] 12/8/2017  
 [LUMCAT] C0824UDXT-20L-WD-GL-20L-WD-xxK-EX-TSG-SO-xxx (Up/Down)  
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder  
 [OTHER] Uplight: Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 42.1 Degree Beam Angle  
 [OTHER] Downlight: Wide Beam, Regressed Solite lens  
 [OTHER] Downlight: 46 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	3103
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\_14 ~ C0824UDXT-20LWDGL-20LWD-XXKEX-TSG-SOXXX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2968	3086	2626
55	329	358	331
65	84	71	70
75	100	101	110
85	351	439	420

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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>	2455.237	2455.237	2455.237	2455.237	2455.237
<b>2.5</b>	2413.405	2419.236	2409.135	2410.506	2396.891
<b>5.0</b>	2371.573	2383.235	2363.032	2365.774	2338.545
<b>7.5</b>	2256.662	2270.725	2247.554	2251.818	2214.285
<b>10.0</b>	2141.750	2158.215	2132.076	2137.862	2090.025
<b>12.5</b>	1966.761	1987.392	1959.250	1966.761	1910.898
<b>15.0</b>	1791.772	1816.568	1786.423	1795.660	1731.771
<b>17.5</b>	1603.908	1625.943	1598.506	1605.387	1545.018
<b>20.0</b>	1416.043	1435.317	1410.588	1415.114	1358.265
<b>22.5</b>	1247.076	1266.235	1243.365	1247.791	1194.776
<b>25.0</b>	1078.108	1097.152	1076.142	1080.467	1031.286
<b>27.5</b>	923.904	943.049	920.796	927.833	879.498
<b>30.0</b>	769.700	788.945	765.449	775.199	727.709
<b>32.5</b>	620.359	637.117	616.595	621.893	579.315
<b>35.0</b>	471.017	485.288	467.741	468.586	430.920
<b>37.5</b>	346.463	359.788	344.131	345.536	312.838
<b>40.0</b>	221.908	234.288	220.520	222.486	194.756
<b>42.5</b>	145.051	148.821	145.706	140.619	127.541
<b>45.0</b>	68.194	63.353	70.892	58.752	60.326
<b>47.5</b>	44.683	41.538	45.402	39.023	40.039
<b>50.0</b>	21.172	19.722	19.912	19.294	19.751
<b>52.5</b>	13.654	12.438	13.288	12.555	12.963
<b>55.0</b>	6.136	5.154	6.664	5.816	6.175
<b>57.5</b>	3.820	3.173	4.130	3.609	3.761
<b>60.0</b>	1.503	1.192	1.595	1.401	1.346
<b>62.5</b>	1.326	1.039	1.285	1.096	1.155
<b>65.0</b>	1.149	0.886	0.975	0.791	0.964
<b>67.5</b>	1.115	0.810	0.971	0.878	0.856
<b>70.0</b>	1.081	0.734	0.966	0.965	0.748
<b>72.5</b>	0.963	0.797	0.909	0.995	0.837
<b>75.0</b>	0.845	0.859	0.851	1.025	0.925
<b>77.5</b>	0.964	0.749	0.921	0.865	0.882
<b>80.0</b>	1.082	0.638	0.990	0.704	0.839
<b>82.5</b>	1.039	0.952	1.117	1.128	1.015
<b>85.0</b>	0.995	1.265	1.243	1.551	1.190
<b>87.5</b>	0.967	0.800	1.021	0.972	1.013
<b>90.0</b>	0.939	0.335	0.799	0.393	0.836
<b>92.5</b>	8.240	7.369	6.950	6.973	7.273
<b>95.0</b>	7.943	6.772	5.751	6.573	7.466
<b>97.5</b>	6.805	6.465	5.825	6.071	5.753
<b>100.0</b>	6.536	6.030	6.575	5.016	5.697
<b>102.5</b>	7.322	5.316	5.299	3.612	5.712
<b>105.0</b>	7.475	5.666	5.292	5.248	4.641
<b>107.5</b>	6.323	5.672	5.385	5.240	4.653
<b>110.0</b>	6.154	5.046	5.367	4.822	4.884
<b>112.5</b>	6.314	5.362	5.241	4.827	5.285
<b>115.0</b>	7.145	6.144	5.082	4.814	5.437
<b>117.5</b>	8.027	7.252	5.983	4.782	5.568
<b>120.0</b>	9.806	8.453	6.971	5.462	6.100
<b>122.5</b>	12.063	15.312	12.259	6.683	7.301
<b>125.0</b>	34.710	23.475	18.185	28.580	14.401

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127.5	60.474	75.578	76.504	63.871	33.090
130.0	135.485	135.445	136.251	131.862	123.603
132.5	211.201	218.557	224.444	218.197	213.650
135.0	294.068	304.732	311.143	299.556	301.407
137.5	372.877	373.617	381.770	378.512	382.650
140.0	423.793	440.944	447.908	434.203	438.849
142.5	471.577	472.156	479.574	480.468	488.309
145.0	503.011	501.651	511.276	515.705	516.858
147.5	535.106	534.054	543.174	547.105	546.520
150.0	569.936	567.030	577.924	580.450	579.133
152.5	618.231	623.383	625.131	614.346	629.693
155.0	711.153	686.258	696.756	719.945	719.980
157.5	833.819	852.409	854.958	841.664	852.617
160.0	1038.766	1024.260	1032.405	1054.252	1065.690
162.5	1249.065	1254.067	1265.397	1283.306	1287.057
165.0	1471.901	1477.985	1485.422	1496.507	1522.034
167.5	1665.851	1661.369	1673.859	1707.626	1718.998
170.0	1802.855	1823.048	1821.343	1824.302	1862.588
172.5	1877.832	1871.277	1883.684	1932.501	1928.510
175.0	1845.687	1897.994	1905.839	1899.336	1898.002
177.5	1811.007	1835.526	1857.194	1858.945	1857.002
180.0	1786.000	1786.000	1786.000	1786.000	1786.000

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Zone	Lumens	%Lamp	%Fixt
0-20	712.48	N.A.	23.00
0-30	1205.51	N.A.	38.90
0-40	1501.47	N.A.	48.40
0-60	1578.22	N.A.	50.90
0-80	1580.18	N.A.	50.90
0-90	1581.28	N.A.	51.00
10-90	1363.5	N.A.	43.90
20-40	788.99	N.A.	25.40
20-50	858.46	N.A.	27.70
40-70	77.78	N.A.	2.50
60-80	1.96	N.A.	0.10
70-80	0.93	N.A.	0.00
80-90	1.09	N.A.	0.00
90-110	12.13	N.A.	0.40
90-120	17.90	N.A.	0.60
90-130	55.13	N.A.	1.80
90-150	599.48	N.A.	19.30
90-180	1521.59	N.A.	49.00
110-180	1509.46	N.A.	48.60
0-180	3102.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	217.78
10-20	494.71
20-30	493.03
30-40	295.96
40-50	69.47
50-60	7.28
60-70	1.03
70-80	0.93
80-90	1.09
90-100	6.38
100-110	5.76
110-120	5.77
120-130	37.23
130-140	226.26
140-150	318.09
150-160	338.85
160-170	404.66
170-180	178.59

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

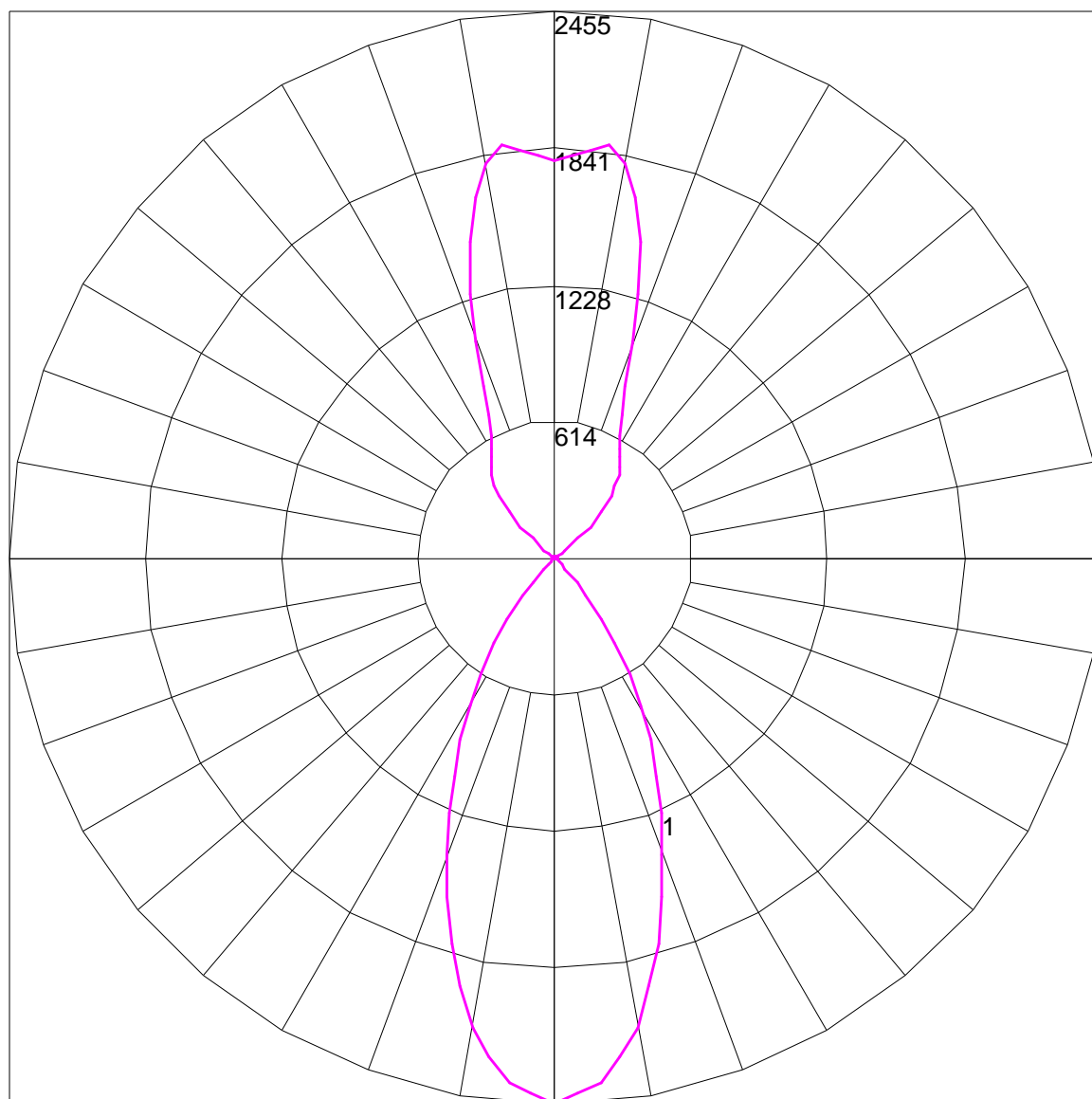
Effective Floor Cavity Reflectance 0.20

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	76	74	65	64	63	54	54	53	48
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	75	70	82	75	71	67	66	62	60	57	55	53	49	47	46	42
4	82	74	68	63	77	69	64	60	61	57	54	53	51	48	46	44	43	40
5	77	68	62	57	72	64	59	54	57	53	50	50	47	45	44	42	40	37
6	73	63	56	52	68	60	54	50	53	49	46	47	44	41	41	39	38	35
7	68	58	52	47	64	55	50	46	50	45	42	44	41	39	39	37	35	33
8	64	54	48	44	60	52	46	42	47	42	39	42	39	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	40	37	39	36	34	35	33	31	29
10	58	48	42	38	54	46	40	36	41	37	34	37	34	32	34	31	30	28

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## POLAR GRAPH



Maximum Candela = 2455.237 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)