

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00624\_13 ~ C0824UDXT-20LNDGL-20LND-XXKEX-TSG-GLXXX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00624\_13  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/13/2017  
 [UPDATE] 11/8/2017  
 [LUMCAT] C0824UDXT-20L-ND-GL-20L-ND-xxK-EX-TSG-GL-xxx (Up/Down)  
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder  
 [OTHER] Uplight: Narrow Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 23.1 Degree Beam Angle  
 [OTHER] Downlight: Narrow Beam, Regressed Clear Glass lens  
 [OTHER] Downlight: 20.9 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	3414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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\_13 ~ C0824UDXT-20LNDGL-20LND-XXKEX-TSG-GLXXX.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	817	1180	833
55	49	85	62
65	66	56	94
75	124	68	124
85	307	311	249

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## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	6878.497	6878.497	6878.497	6878.497	6878.497
2.5	6445.214	6548.392	6443.000	6412.008	6378.836
5.0	6011.931	6218.286	6007.502	5945.519	5879.175
7.5	4961.383	5159.069	4971.451	4895.005	4798.611
10.0	3910.834	4099.852	3935.399	3844.491	3718.046
12.5	3026.983	3182.730	3054.426	2977.954	2859.400
15.0	2143.131	2265.608	2173.453	2111.416	2000.753
17.5	1688.589	1780.379	1716.477	1666.877	1580.387
20.0	1234.046	1295.149	1259.500	1222.338	1160.021
22.5	1036.502	1083.848	1056.078	1026.007	976.787
25.0	838.958	872.546	852.656	829.675	793.553
27.5	736.532	768.939	748.999	729.613	696.488
30.0	634.106	665.331	645.341	629.551	599.423
32.5	533.710	569.771	544.816	530.393	501.252
35.0	433.314	474.210	444.291	431.234	403.080
37.5	301.815	343.081	312.388	302.701	282.110
40.0	170.315	211.951	180.484	174.167	161.140
42.5	94.547	109.967	103.803	98.617	90.139
45.0	18.779	7.982	27.121	23.067	19.137
47.5	10.082	4.643	14.477	12.592	10.627
50.0	1.384	1.303	1.832	2.116	2.116
52.5	1.145	1.340	1.706	1.483	1.635
55.0	0.906	1.377	1.579	0.849	1.153
57.5	0.832	1.244	1.285	0.697	0.894
60.0	0.757	1.110	0.990	0.544	0.635
62.5	0.833	0.876	0.878	0.778	0.964
65.0	0.909	0.641	0.765	1.012	1.293
67.5	1.088	0.783	0.795	0.954	1.292
70.0	1.266	0.924	0.825	0.895	1.291
72.5	1.153	0.845	0.699	0.821	1.168
75.0	1.040	0.766	0.572	0.747	1.044
77.5	0.981	0.676	0.602	0.679	0.919
80.0	0.921	0.586	0.632	0.611	0.794
82.5	0.896	0.824	0.756	0.755	0.749
85.0	0.870	1.062	0.880	0.899	0.704
87.5	0.910	0.925	1.036	0.786	0.645
90.0	0.949	0.787	1.191	0.673	0.585
92.5	23.159	23.937	21.459	20.034	22.596
95.0	19.763	20.064	18.438	17.348	19.079
97.5	15.073	14.067	15.150	15.020	12.878
100.0	11.675	13.245	12.257	10.738	12.337
102.5	10.016	11.129	9.849	8.563	10.540
105.0	9.687	8.513	7.992	8.307	7.019
107.5	7.686	7.068	6.566	6.981	6.445
110.0	6.155	5.813	4.825	4.877	7.073
112.5	5.266	4.716	4.089	4.214	5.373
115.0	4.674	4.429	4.631	3.638	4.264
117.5	4.230	4.138	4.638	3.193	3.537
120.0	4.200	3.840	4.401	3.391	3.587
122.5	4.308	4.443	4.613	4.090	3.773
125.0	7.579	7.050	4.952	6.807	8.306

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127.5	11.862	9.843	8.332	10.854	13.121
130.0	12.785	13.052	12.545	13.109	14.672
132.5	12.577	17.576	15.243	14.135	16.025
135.0	33.560	25.177	17.514	33.635	33.447
137.5	61.739	52.704	61.436	65.879	51.940
140.0	140.507	127.190	117.505	137.661	134.901
142.5	237.312	214.517	216.093	237.791	222.557
145.0	352.220	333.496	327.471	349.651	337.701
147.5	473.633	451.736	445.893	469.974	455.019
150.0	590.365	568.140	566.500	591.555	576.349
152.5	705.333	690.771	696.059	714.079	698.023
155.0	849.859	829.595	828.478	857.538	854.989
157.5	1005.608	978.443	987.905	1016.788	1015.198
160.0	1206.973	1153.557	1156.216	1213.654	1219.199
162.5	1426.136	1372.866	1405.524	1439.992	1427.511
165.0	1848.272	1713.588	1682.259	1818.430	1833.692
167.5	2351.745	2189.351	2250.475	2316.787	2260.653
170.0	3200.918	3039.037	2920.252	3070.518	3179.534
172.5	4192.333	3840.806	3713.719	4033.337	4153.355
175.0	4753.328	4503.318	4551.514	4660.973	4684.961
177.5	5132.525	5016.620	4914.113	5012.469	5164.191
180.0	5209.000	5209.000	5209.000	5209.000	5209.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00624\_13 ~ C0824UDXT-20LNDGL-20LND-XXKEX-TSG-GLXXX.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1134.55	N.A.	33.20
0-30	1539.27	N.A.	45.10
0-40	1801.67	N.A.	52.80
0-60	1844.1	N.A.	54.00
0-80	1845.84	N.A.	54.10
0-90	1846.75	N.A.	54.10
10-90	1345.18	N.A.	39.40
20-40	667.11	N.A.	19.50
20-50	708.44	N.A.	20.70
40-70	43.33	N.A.	1.30
60-80	1.74	N.A.	0.10
70-80	0.85	N.A.	0.00
80-90	0.91	N.A.	0.00
90-110	25.89	N.A.	0.80
90-120	30.26	N.A.	0.90
90-130	36.87	N.A.	1.10
90-150	279.74	N.A.	8.20
90-180	1567.59	N.A.	45.90
110-180	1541.7	N.A.	45.20
0-180	3414.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	501.57
10-20	632.98
20-30	404.72
30-40	262.39
40-50	41.32
50-60	1.11
60-70	0.89
70-80	0.85
80-90	0.91
90-100	16.89
100-110	9.01
110-120	4.36
120-130	6.61
130-140	32.48
140-150	210.40
150-160	387.80
160-170	509.69
170-180	390.36

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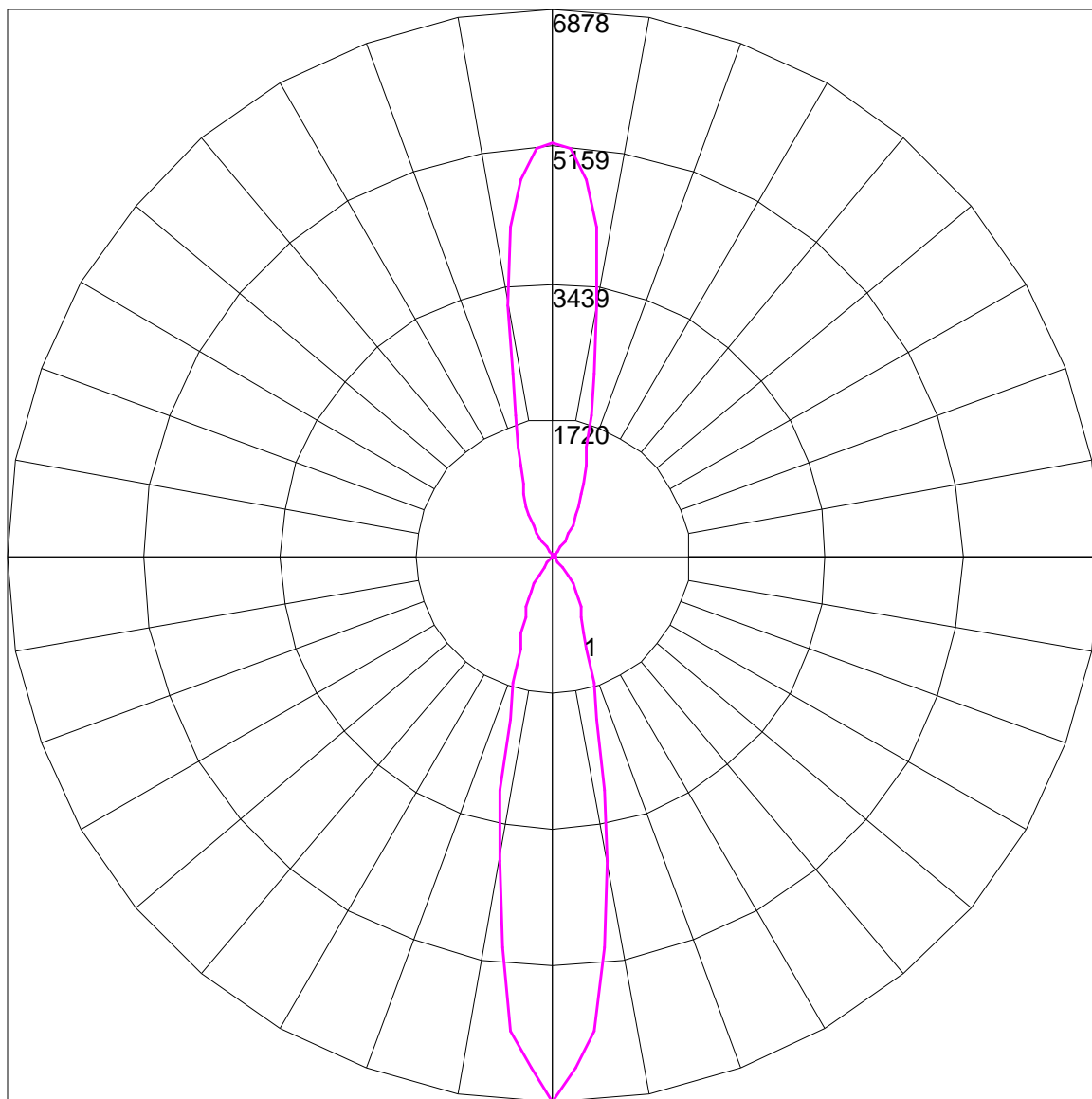
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	102	99	96	93	95	92	90	87	79	78	76	68	67	66	58	57	56	52
2	96	90	86	82	89	85	81	78	74	71	69	64	63	61	55	54	53	49
3	90	83	78	74	84	78	74	70	69	66	63	61	59	57	53	52	50	47
4	85	77	71	67	80	73	68	64	65	61	59	58	55	53	51	49	48	45
5	80	72	66	61	75	68	63	59	61	57	54	55	52	50	49	47	45	43
6	76	67	61	57	72	64	59	55	58	54	51	52	49	47	47	45	43	41
7	72	63	57	53	68	60	55	51	55	51	48	50	47	45	45	43	41	39
8	69	59	54	49	65	57	52	48	52	48	45	47	45	42	43	41	40	38
9	66	56	50	47	62	54	49	45	50	46	43	45	42	40	42	39	38	36
10	63	53	48	44	59	51	46	43	47	43	41	44	41	39	40	38	36	35

POLAR GRAPH



Maximum Candela = 6878.497 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)