

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00634\_1 ~ C0310UDXT-7LNDGL-7LND-XXKEX-GLXXMW (UP\_DOWN).IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00634\_1\_M-7L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/13/2017  
 [UPDATE] 1/29/2018  
 [LUMCAT] C0310UDXT-7L-ND-GL-7L-ND-xxK-EX-GL-xx-MW (Up/Down)  
 [LUMINAIRE] Nom. 3" Diam. x 10" H Direct/Indirect Cylinder  
 [OTHER] Uplight: Narrow Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 20 Degree Beam Angle  
 [OTHER] Downlight: Narrow Beam, Regressed Clear Glass lens  
 [OTHER] Downlight: 24.5 Degree Beam Angle  
 [OTHER] Trim: Matte White  
 [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, scaled from 10L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	12.4
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)	0.25 ft (Diameter)
Luminous Width (90-270)	0.25 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	249	321	301
55	346	292	375
65	483	501	412
75	653	747	657
85	1330	2109	1709

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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>	1731.777	1731.777	1731.777	1731.777	1731.777
<b>2.5</b>	1673.693	1685.251	1684.088	1688.844	1671.106
<b>5.0</b>	1615.609	1638.724	1636.399	1645.909	1610.435
<b>7.5</b>	1371.959	1403.204	1370.414	1384.273	1338.429
<b>10.0</b>	1128.308	1167.682	1104.429	1122.637	1066.422
<b>12.5</b>	835.877	868.234	828.109	846.380	808.739
<b>15.0</b>	543.446	568.785	551.789	570.123	551.055
<b>17.5</b>	433.817	454.440	441.155	454.403	438.688
<b>20.0</b>	324.187	340.095	330.521	338.682	326.320
<b>22.5</b>	254.772	268.573	260.648	268.106	256.787
<b>25.0</b>	185.357	197.052	190.774	197.529	187.254
<b>27.5</b>	130.679	141.213	135.421	141.844	133.652
<b>30.0</b>	76.002	85.373	80.067	86.160	80.049
<b>32.5</b>	42.034	48.040	43.775	48.306	46.074
<b>35.0</b>	8.065	10.706	7.484	10.450	12.099
<b>37.5</b>	4.509	5.905	4.201	5.732	6.576
<b>40.0</b>	0.953	1.104	0.919	1.014	1.052
<b>42.5</b>	0.879	0.991	0.978	1.106	1.011
<b>45.0</b>	0.804	0.878	1.037	1.198	0.971
<b>47.5</b>	0.886	0.847	0.982	1.004	0.895
<b>50.0</b>	0.967	0.815	0.927	0.811	0.819
<b>52.5</b>	0.937	0.855	0.846	0.860	0.902
<b>55.0</b>	0.907	0.892	0.764	0.908	0.983
<b>57.5</b>	0.844	0.941	0.786	0.792	0.930
<b>60.0</b>	0.780	0.988	0.807	0.675	0.875
<b>62.5</b>	0.857	0.881	0.886	0.696	0.835
<b>65.0</b>	0.932	0.773	0.966	0.717	0.795
<b>67.5</b>	0.946	0.778	0.890	0.815	0.865
<b>70.0</b>	0.960	0.783	0.814	0.914	0.936
<b>72.5</b>	0.865	0.829	0.849	0.962	0.855
<b>75.0</b>	0.771	0.874	0.883	1.009	0.776
<b>77.5</b>	0.804	0.875	0.825	0.954	0.895
<b>80.0</b>	0.836	0.877	0.767	0.899	1.014
<b>82.5</b>	0.682	0.794	0.804	0.818	0.847
<b>85.0</b>	0.529	0.710	0.839	0.735	0.680
<b>87.5</b>	0.505	0.755	0.779	0.540	0.802
<b>90.0</b>	0.480	0.799	0.719	0.344	0.924
<b>92.5</b>	1.915	1.749	2.229	2.039	1.684
<b>95.0</b>	2.120	1.854	1.807	2.254	1.791
<b>97.5</b>	2.130	1.646	1.590	1.720	1.828
<b>100.0</b>	2.087	1.581	1.623	1.805	1.669
<b>102.5</b>	2.194	1.779	1.999	2.214	1.753
<b>105.0</b>	2.626	2.190	2.826	2.474	1.993
<b>107.5</b>	3.150	2.767	3.197	2.278	2.436
<b>110.0</b>	3.522	3.263	3.523	2.717	2.999
<b>112.5</b>	3.739	3.722	3.929	3.648	3.746
<b>115.0</b>	4.127	4.353	4.158	4.571	4.308
<b>117.5</b>	4.572	4.975	4.202	5.492	4.751
<b>120.0</b>	4.698	5.290	4.441	5.475	5.093
<b>122.5</b>	4.760	5.624	4.833	5.365	5.388
<b>125.0</b>	5.377	6.215	5.302	5.636	5.492

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127.5	6.096	6.827	5.830	5.939	5.514
130.0	6.731	7.666	7.198	6.818	6.054
132.5	7.352	8.537	9.174	7.738	6.811
135.0	10.193	9.748	11.140	9.849	8.781
137.5	13.381	11.260	13.098	12.030	11.231
140.0	17.486	15.449	15.865	15.318	14.723
142.5	21.723	19.729	19.178	18.656	18.602
145.0	27.604	24.752	23.142	23.080	23.197
147.5	33.694	30.881	27.522	27.548	28.049
150.0	51.839	45.205	42.614	43.922	47.244
152.5	71.449	64.403	64.179	60.614	71.307
155.0	127.444	115.741	110.036	112.320	119.951
157.5	187.293	169.547	170.245	164.633	176.550
160.0	254.097	238.447	239.905	230.996	241.033
162.5	321.534	313.552	314.856	297.708	307.946
165.0	454.698	423.944	442.654	416.506	429.651
167.5	593.415	557.101	598.897	537.032	567.078
170.0	832.308	807.938	807.826	784.909	790.422
172.5	1078.203	1036.734	1044.014	1029.933	1037.165
175.0	1168.147	1155.912	1168.705	1150.080	1162.820
177.5	1248.771	1254.275	1238.875	1265.948	1257.235
180.0	1262.800	1262.800	1262.800	1262.800	1262.800

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Zone	Lumens	%Lamp	%Fixt
0-20	308.16	N.A.	42.10
0-30	397.54	N.A.	54.40
0-40	412.68	N.A.	56.40
0-60	414.20	N.A.	56.60
0-80	415.96	N.A.	56.90
0-90	416.77	N.A.	57.00
10-90	279.73	N.A.	38.30
20-40	104.53	N.A.	14.30
20-50	105.27	N.A.	14.40
40-70	2.35	N.A.	0.30
60-80	1.76	N.A.	0.20
70-80	0.93	N.A.	0.10
80-90	0.81	N.A.	0.10
90-110	4.41	N.A.	0.60
90-120	8.63	N.A.	1.20
90-130	13.77	N.A.	1.90
90-150	37.65	N.A.	5.10
90-180	314.51	N.A.	43.00
110-180	310.10	N.A.	42.40
0-180	731.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.03
10-20	171.12
20-30	89.39
30-40	15.14
40-50	0.75
50-60	0.77
60-70	0.83
70-80	0.93
80-90	0.81
90-100	1.86
100-110	2.55
110-120	4.21
120-130	5.14
130-140	7.99
140-150	15.90
150-160	54.48
160-170	121.89
170-180	100.49

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

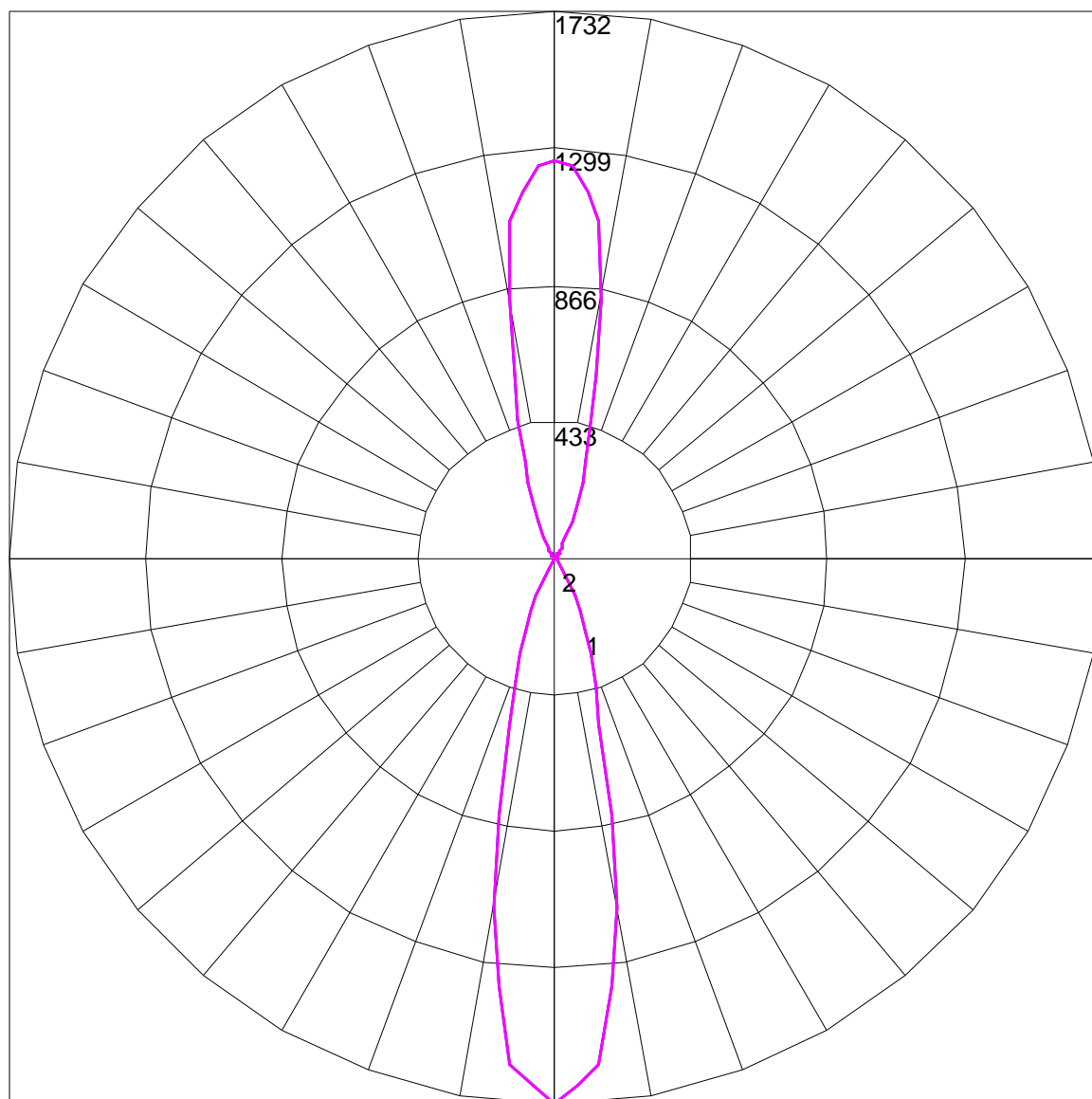
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57
1	103	100	97	95	96	93	91	89	82	80	79	71	70	69	61	60	59	55
2	97	92	88	84	91	87	83	80	77	74	72	67	66	64	59	58	57	53
3	92	86	81	77	86	81	77	73	72	69	67	64	62	60	57	55	54	51
4	87	80	74	70	82	76	71	68	68	65	62	61	59	57	55	53	52	49
5	83	75	69	65	78	72	67	63	65	61	59	59	56	54	53	51	50	48
6	79	71	65	61	75	68	63	59	62	58	55	56	54	52	51	50	48	46
7	76	67	61	57	72	64	59	56	59	55	53	54	52	50	50	48	47	45
8	72	64	58	54	69	61	56	53	57	53	50	52	50	48	48	46	45	43
9	69	61	55	52	66	59	54	51	54	51	48	51	48	46	47	45	44	42
10	67	58	53	49	64	56	51	48	52	49	46	49	46	44	46	44	42	41

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## POLAR GRAPH



Maximum Candela = 1731.777 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)