

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00634 ~ C0310UDXT-7LMDGL-7LMD-XXKEX-SOXXMW (UP\_DOWN).IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00634\_M-7L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/13/2017  
 [UPDATE] 1/29/2018  
 [LUMCAT] C0310UDXT-7L-MD-GL-7L-MD-xxK-EX-SO-xx-MW (Up/Down)  
 [LUMINAIRE] Nom. 3" Diam. x 10" H Direct/Indirect Cylinder  
 [OTHER] Uplight: Medium Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 39.8 Degree Beam Angle  
 [OTHER] Downlight: Medium Beam, Regressed Solite lens  
 [OTHER] Downlight: 41.7 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	859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00634 ~ C0310UDXT-7LMDGL-7LMD-XXKEX-SOXXMW (UP\_DOWN).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3681	3982	3378
55	1479	1426	1154
65	1084	1191	1135
75	703	1173	1262
85	3835	3163	2767

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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>	902.088	902.088	902.088	902.088	902.088
<b>2.5</b>	880.258	885.585	883.514	886.826	886.084
<b>5.0</b>	858.427	869.081	864.940	871.565	870.080
<b>7.5</b>	805.867	817.427	813.048	823.666	821.523
<b>10.0</b>	753.306	765.773	761.156	775.767	772.967
<b>12.5</b>	688.203	700.675	695.675	712.672	708.917
<b>15.0</b>	623.099	635.577	630.192	649.578	644.868
<b>17.5</b>	551.174	564.740	559.530	579.007	573.100
<b>20.0</b>	479.247	493.902	488.868	508.436	501.333
<b>22.5</b>	398.464	414.195	409.987	428.151	420.004
<b>25.0</b>	317.680	334.487	331.106	347.865	338.675
<b>27.5</b>	241.717	255.071	253.653	265.180	258.817
<b>30.0</b>	165.754	175.654	176.200	182.493	178.960
<b>32.5</b>	115.896	122.261	124.071	126.005	125.239
<b>35.0</b>	66.039	68.867	71.941	69.516	71.518
<b>37.5</b>	44.618	46.070	48.422	46.892	47.414
<b>40.0</b>	23.197	23.274	24.904	24.268	23.311
<b>42.5</b>	15.711	15.944	16.900	16.588	15.429
<b>45.0</b>	8.224	8.614	8.896	8.907	7.547
<b>47.5</b>	6.278	6.307	6.567	6.464	5.683
<b>50.0</b>	4.332	3.999	4.238	4.019	3.820
<b>52.5</b>	3.507	3.110	3.411	3.343	2.955
<b>55.0</b>	2.681	2.220	2.584	2.666	2.091
<b>57.5</b>	2.164	2.159	2.260	2.437	1.826
<b>60.0</b>	1.646	2.097	1.935	2.206	1.560
<b>62.5</b>	1.547	1.996	1.763	1.814	1.538
<b>65.0</b>	1.448	1.894	1.590	1.420	1.515
<b>67.5</b>	1.329	1.529	1.537	1.368	1.319
<b>70.0</b>	1.210	1.164	1.485	1.316	1.123
<b>72.5</b>	0.892	1.014	1.222	1.180	1.077
<b>75.0</b>	0.575	0.864	0.959	1.044	1.032
<b>77.5</b>	0.801	0.792	0.915	0.918	0.950
<b>80.0</b>	1.028	0.720	0.870	0.791	0.867
<b>82.5</b>	1.042	0.986	0.871	0.811	0.815
<b>85.0</b>	1.056	1.250	0.871	0.831	0.762
<b>87.5</b>	0.874	0.778	0.825	0.577	0.731
<b>90.0</b>	0.692	0.306	0.777	0.323	0.699
<b>92.5</b>	2.064	2.045	2.078	1.816	2.248
<b>95.0</b>	1.898	1.914	1.729	1.889	1.782
<b>97.5</b>	2.081	1.736	1.632	2.307	2.253
<b>100.0</b>	2.554	1.695	1.909	2.355	1.961
<b>102.5</b>	2.614	2.139	1.840	2.219	1.973
<b>105.0</b>	2.691	2.775	2.210	2.180	2.137
<b>107.5</b>	2.806	3.097	2.984	2.579	2.435
<b>110.0</b>	2.992	2.964	3.081	2.868	3.013
<b>112.5</b>	3.347	2.640	3.421	3.085	3.336
<b>115.0</b>	3.803	3.603	4.233	3.711	3.403
<b>117.5</b>	3.857	4.550	4.932	4.395	3.855
<b>120.0</b>	3.805	5.019	5.510	4.956	4.511
<b>122.5</b>	4.341	5.467	5.867	5.518	5.211
<b>125.0</b>	4.980	5.791	6.034	6.187	5.929

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<b>127.5</b>	6.234	6.411	7.006	6.884	7.132
<b>130.0</b>	7.556	8.297	8.559	7.910	8.490
<b>132.5</b>	9.010	10.133	10.447	9.121	10.301
<b>135.0</b>	10.470	11.803	12.530	11.597	12.218
<b>137.5</b>	16.803	14.797	16.457	14.655	15.838
<b>140.0</b>	23.388	21.107	21.237	20.390	19.741
<b>142.5</b>	34.962	30.392	30.943	27.499	29.550
<b>145.0</b>	48.376	45.540	42.492	39.400	39.976
<b>147.5</b>	78.504	69.371	70.048	58.749	64.235
<b>150.0</b>	112.961	107.319	102.141	97.807	89.326
<b>152.5</b>	173.279	159.095	161.564	148.478	158.077
<b>155.0</b>	237.700	229.034	226.563	223.201	227.869
<b>157.5</b>	319.074	304.171	310.597	302.672	316.392
<b>160.0</b>	400.608	384.936	397.356	390.235	404.559
<b>162.5</b>	482.630	465.487	479.265	475.968	489.645
<b>165.0</b>	565.343	545.843	560.789	559.186	574.321
<b>167.5</b>	649.746	627.826	643.340	639.218	656.634
<b>170.0</b>	721.752	710.992	725.042	715.644	731.010
<b>172.5</b>	769.887	763.554	767.325	768.516	773.540
<b>175.0</b>	804.772	797.912	807.325	799.362	807.699
<b>177.5</b>	818.896	814.722	818.394	817.100	816.868
<b>180.0</b>	822.500	822.500	822.500	822.500	822.500

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Zone	Lumens	%Lamp	%Fixt
0-20	255.04	N.A.	29.70
0-30	406.12	N.A.	47.30
0-40	457.67	N.A.	53.30
0-60	468.64	N.A.	54.50
0-80	471.28	N.A.	54.80
0-90	472.17	N.A.	55.00
10-90	392.97	N.A.	45.70
20-40	202.62	N.A.	23.60
20-50	211.16	N.A.	24.60
40-70	12.57	N.A.	1.50
60-80	2.64	N.A.	0.30
70-80	1.04	N.A.	0.10
80-90	0.90	N.A.	0.10
90-110	4.54	N.A.	0.50
90-120	8.32	N.A.	1.00
90-130	13.81	N.A.	1.60
90-150	54.50	N.A.	6.30
90-180	387.07	N.A.	45.00
110-180	382.53	N.A.	44.50
0-180	859.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.20
10-20	175.84
20-30	151.08
30-40	51.55
40-50	8.53
50-60	2.44
60-70	1.59
70-80	1.04
80-90	0.90
90-100	1.94
100-110	2.60
110-120	3.78
120-130	5.49
130-140	9.91
140-150	30.79
150-160	105.16
160-170	153.54
170-180	73.87

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

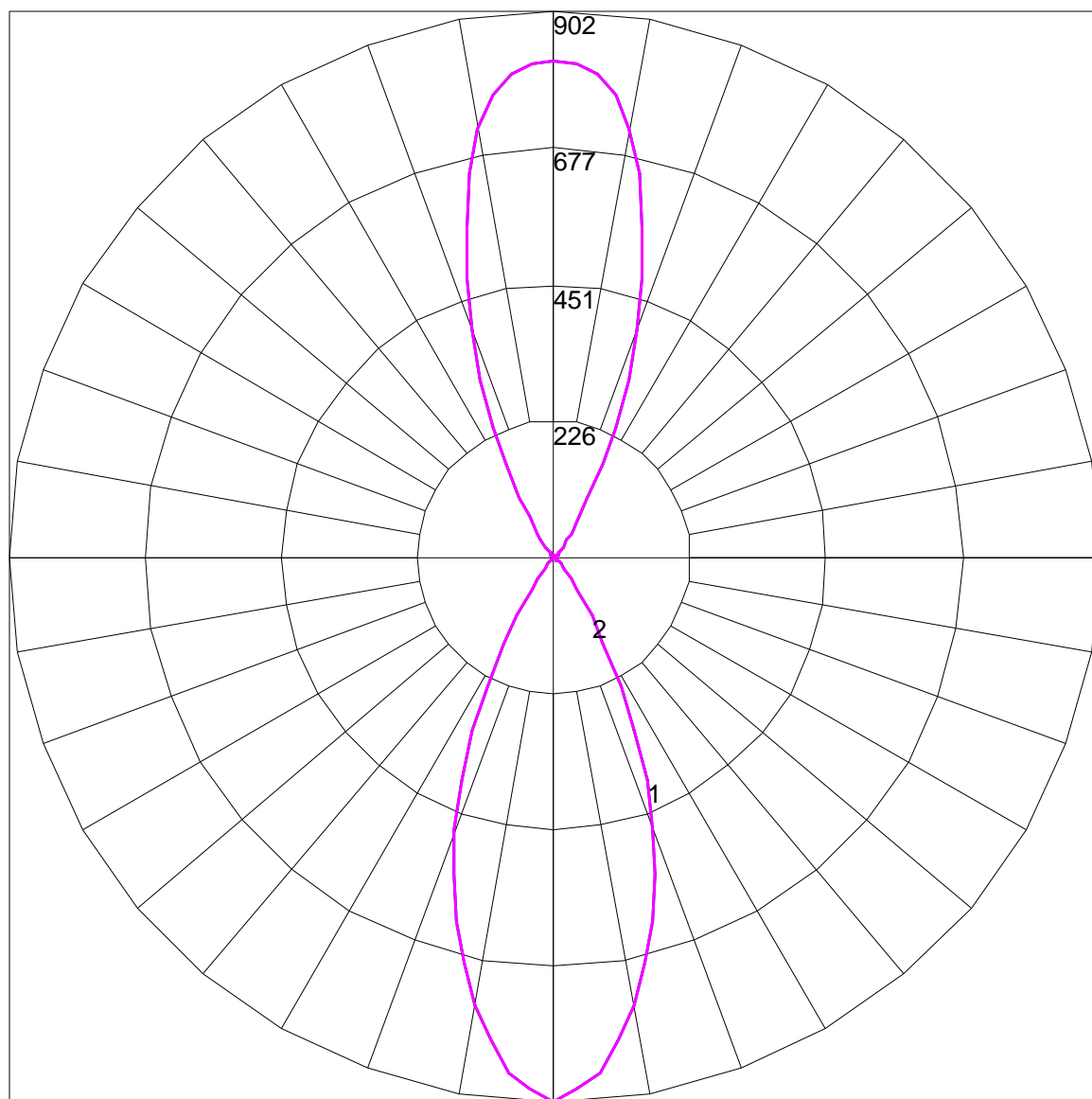
Effective Floor Cavity Reflectance 0.20

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	55
1	102	99	96	93	95	92	90	87	80	78	77	68	67	66	58	57	57	52
2	96	90	86	82	89	84	81	77	74	71	69	64	63	61	55	54	53	49
3	90	83	77	73	84	78	73	70	69	66	63	61	58	56	53	51	50	47
4	85	76	71	66	79	72	67	63	64	61	58	57	54	52	50	49	47	44
5	80	71	65	60	75	67	62	58	60	56	53	54	51	49	48	46	45	42
6	75	66	60	55	71	63	57	53	57	53	50	51	48	46	46	44	42	40
7	71	62	56	51	67	59	53	50	54	49	46	49	45	43	44	42	40	38
8	68	58	52	48	64	55	50	46	51	46	43	46	43	41	42	40	38	36
9	64	55	49	45	61	52	47	43	48	44	41	44	41	39	40	38	36	34
10	61	51	46	42	58	49	44	41	46	41	39	42	39	37	38	36	34	33

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## POLAR GRAPH



Maximum Candela = 902.088 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)