

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00624_16 ~ C0824UDXT-13LXNGL-13LXN-XXKEX-TSG-GLXXX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00624_16
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 10/13/2017
[UPDATE] 12/15/2017
[LUMCAT] C0824UDXT-13L-XN-GL-13L-XN-xxK-EX-TSG-GL-xxx (Up/Down)
[LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder
[OTHER] Uplight: Xtra Narrow Beam, Flush Clear Glass lens
[OTHER] Uplight: 11.3 Degree Beam Angle
[OTHER] Downlight: Xtra Narrow Beam, Regressed Clear Glass lens
[OTHER] Downlight: 11.5 Degree Beam Angle
[OTHER] Trim: Semi-diffuse clear anodized alum.
[LAMP] N/A
[LAMPCAT] N/A, 9mm LES indirect
[OTHER] N/A, 9mm 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, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	36.8
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	71	83	113
55	61	56	61
65	65	55	92
75	153	101	166
85	241	358	524

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	13202.104	13202.104	13202.104	13202.104	13202.104
2.5	10618.426	10651.368	10684.316	10665.674	10647.026
5.0	8034.747	8100.638	8166.528	8129.244	8091.954
7.5	4935.534	4999.988	5064.442	5014.668	4964.894
10.0	1836.321	1899.339	1962.356	1900.095	1837.833
12.5	1208.570	1244.762	1280.953	1242.121	1203.288
15.0	580.819	590.184	599.549	584.146	568.743
17.5	504.981	509.790	514.599	507.222	499.845
20.0	429.143	429.396	429.649	430.298	430.947
22.5	414.251	414.322	414.394	414.439	414.483
25.0	399.359	399.249	399.139	398.579	398.018
27.5	382.622	383.439	384.256	383.334	382.412
30.0	365.884	367.628	369.372	368.088	366.805
32.5	313.238	312.812	312.387	315.780	319.174
35.0	260.591	257.997	255.402	263.473	271.543
37.5	170.494	166.793	163.093	169.441	175.789
40.0	80.396	75.590	70.784	75.409	80.034
42.5	41.010	38.680	36.351	38.833	41.316
45.0	1.624	1.771	1.917	2.257	2.597
47.5	1.197	1.390	1.585	1.743	1.901
50.0	0.769	1.011	1.252	1.228	1.203
52.5	0.951	1.049	1.147	1.156	1.165
55.0	1.133	1.088	1.043	1.085	1.128
57.5	1.203	1.175	1.148	1.160	1.173
60.0	1.273	1.263	1.253	1.235	1.217
62.5	1.081	1.041	1.001	1.122	1.243
65.0	0.889	0.819	0.749	1.009	1.269
67.5	0.783	0.819	0.855	1.024	1.192
70.0	0.677	0.820	0.961	1.039	1.115
72.5	0.981	0.944	0.907	1.082	1.256
75.0	1.286	1.069	0.851	1.124	1.397
77.5	1.181	0.994	0.806	0.935	1.063
80.0	1.076	0.918	0.760	0.744	0.728
82.5	0.879	0.883	0.887	0.996	1.107
85.0	0.682	0.848	1.013	1.249	1.485
87.5	0.848	0.809	0.769	1.020	1.272
90.0	1.015	0.770	0.525	0.792	1.058
92.5	5.463	6.030	5.246	4.517	4.863
95.0	4.077	5.014	3.747	3.063	4.412
97.5	3.769	3.632	3.041	3.738	3.587
100.0	3.293	3.761	2.828	2.380	2.177
102.5	2.458	2.662	2.546	2.315	1.884
105.0	2.090	1.698	2.115	1.558	1.724
107.5	1.696	1.767	1.597	1.270	1.497
110.0	1.188	1.634	1.160	1.464	1.162
112.5	0.994	1.256	1.143	1.338	1.022
115.0	1.110	1.323	1.253	0.875	1.113
117.5	1.939	1.790	1.457	1.948	2.071
120.0	2.378	3.329	2.935	2.891	2.616
122.5	2.421	4.288	3.842	3.132	2.675
125.0	2.787	4.458	2.822	2.952	2.677

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127.5	3.401	4.429	2.385	2.111	2.650
130.0	3.470	4.168	3.342	2.150	3.202
132.5	3.094	4.582	4.643	3.382	3.957
135.0	6.319	5.831	6.809	8.479	8.291
137.5	12.663	22.853	21.711	19.131	13.902
140.0	72.627	60.569	71.985	67.998	83.195
142.5	181.800	129.997	138.094	175.243	177.988
145.0	267.745	245.146	251.652	266.107	258.957
147.5	331.095	326.793	343.739	329.392	333.991
150.0	370.812	357.131	366.215	374.541	367.336
152.5	385.328	382.331	386.555	387.184	381.515
155.0	401.989	399.165	399.190	400.615	397.401
157.5	421.072	416.972	413.937	415.553	414.142
160.0	451.232	436.468	437.221	440.106	444.586
162.5	494.666	480.752	477.516	484.262	482.490
165.0	646.771	572.518	593.395	611.664	674.009
167.5	936.967	815.812	801.027	927.759	954.578
170.0	1719.931	1368.857	1459.204	1627.837	2089.626
172.5	3190.656	2416.935	2354.118	3260.763	3751.690
175.0	5083.140	4546.604	4631.394	5129.581	6457.176
177.5	7600.677	6265.062	6652.477	7613.853	9858.946
180.0	9524.450	9524.450	9524.450	9524.450	9524.450

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Zone	Lumens	%Lamp	%Fixt
0-20	806.53	N.A.	38.80
0-30	990.32	N.A.	47.60
0-40	1138.27	N.A.	54.70
0-60	1154.11	N.A.	55.50
0-80	1156.15	N.A.	55.60
0-90	1157.16	N.A.	55.60
10-90	577.69	N.A.	27.80
20-40	331.74	N.A.	15.90
20-50	346.56	N.A.	16.70
40-70	16.83	N.A.	0.80
60-80	2.04	N.A.	0.10
70-80	1.05	N.A.	0.10
80-90	1.01	N.A.	0.00
90-110	6.10	N.A.	0.30
90-120	7.64	N.A.	0.40
90-130	10.51	N.A.	0.50
90-150	170.32	N.A.	8.20
90-180	923.58	N.A.	44.40
110-180	917.48	N.A.	44.10
0-180	2080.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	579.47
10-20	227.06
20-30	183.79
30-40	147.95
40-50	14.82
50-60	1.02
60-70	0.99
70-80	1.05
80-90	1.01
90-100	3.99
100-110	2.11
110-120	1.54
120-130	2.86
130-140	12.38
140-150	147.43
150-160	184.69
160-170	196.71
170-180	371.86

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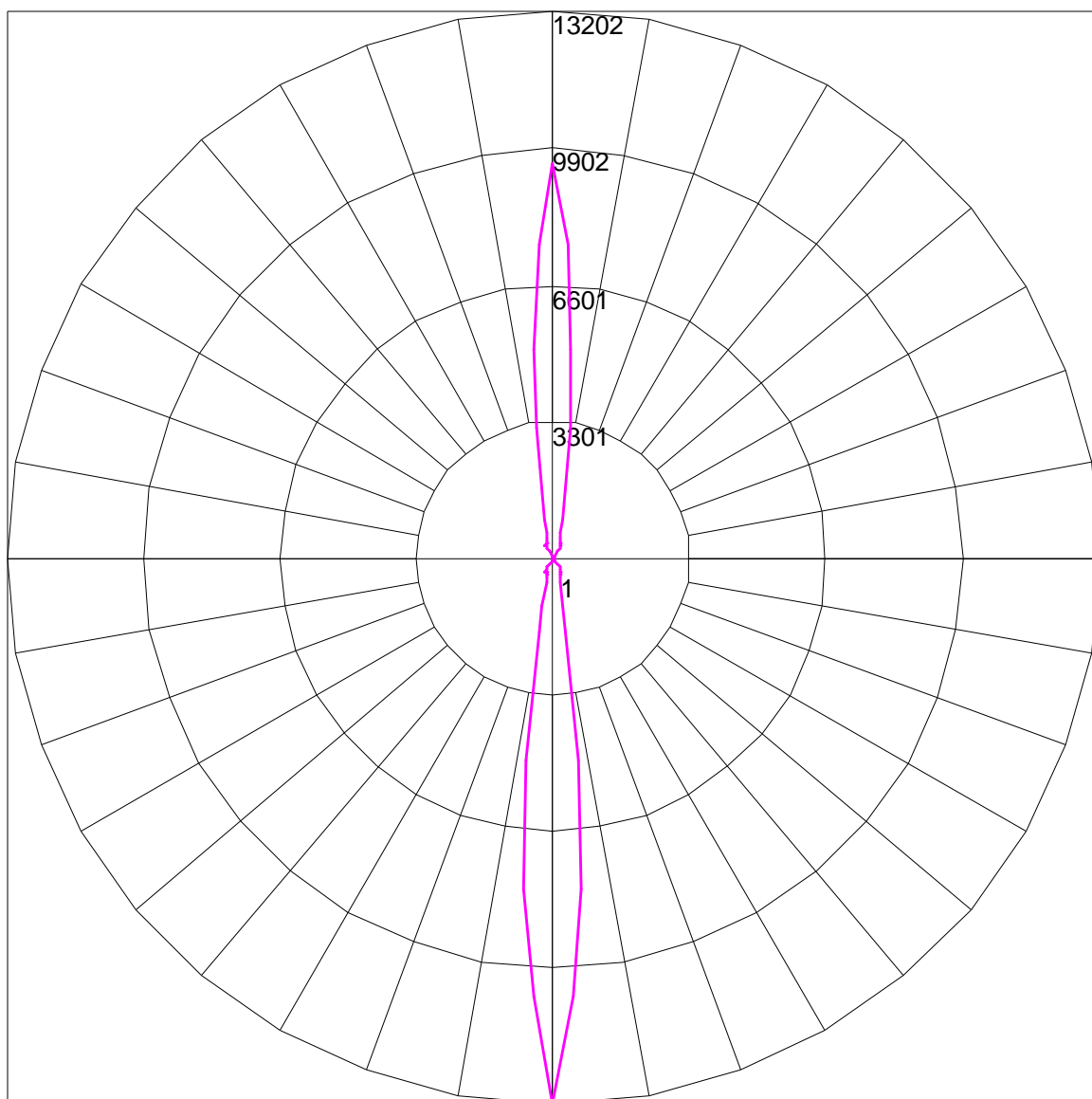
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	102	99	97	94	95	93	91	89	81	79	78	70	69	68	59	59	58	54
2	97	92	88	84	90	86	83	80	76	74	71	66	65	63	58	57	56	52
3	92	85	80	76	86	81	76	73	72	69	66	63	61	60	56	55	54	50
4	87	80	74	70	82	76	71	67	68	65	62	61	58	57	54	53	51	49
5	83	75	69	65	78	71	67	63	65	61	58	58	56	54	52	51	50	47
6	79	71	65	61	75	68	63	59	62	58	55	56	54	52	51	49	48	46
7	76	67	62	58	72	64	59	56	59	55	53	54	52	50	50	48	46	44
8	72	64	58	55	69	61	57	53	57	53	51	52	50	48	48	46	45	43
9	70	61	56	52	66	59	54	51	55	51	49	51	48	46	47	45	44	42
10	67	59	53	50	64	57	52	49	53	49	47	49	47	45	46	44	43	41

POLAR GRAPH



Maximum Candela = 13202.104 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)