

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00624_15 ~ C0824UDXT-13LXWGL-13LXW-XXKEX-TSG-SOXXX.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00624_15_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 10/13/2017
 [UPDATE] 4/4/2018
 [LUMCAT] C0824UDXT-13L-XW-GL-13L-XW-xxK-EX-TSG-DO-xxx (Up/Down)
 [LUMINAIRE] Nom. 8" Diam. x 24"H Direct/Indirect Cylinder
 [OTHER] Uplight: Xtra Wide Beam, Flush Clear Glass lens
 [OTHER] Uplight: 58.1 Degree Beam Angle
 [OTHER] Downlight: Xtra Wide Beam, Regressed Solite lens
 [OTHER] Downlight: 58.7 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, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	26
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	2756	2899	2751
55	439	460	466
65	44	40	42
75	67	100	95
85	192	235	215

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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	1212.252	1212.252	1212.252	1212.252	1212.252
2.5	1200.112	1201.161	1199.208	1199.457	1195.342
5.0	1187.972	1190.069	1186.165	1186.661	1178.431
7.5	1157.660	1161.039	1155.557	1156.860	1144.513
10.0	1127.349	1132.009	1124.949	1127.059	1110.596
12.5	1077.554	1084.088	1075.606	1077.329	1058.426
15.0	1027.760	1036.166	1026.264	1027.600	1006.256
17.5	962.968	973.587	963.858	966.210	943.324
20.0	898.176	911.007	901.453	904.819	880.392
22.5	821.253	838.941	828.431	835.377	807.535
25.0	744.329	766.875	755.410	765.935	734.677
27.5	649.995	673.048	662.453	673.668	641.063
30.0	555.661	579.220	569.496	581.401	547.449
32.5	452.020	471.078	463.934	474.961	442.478
35.0	348.380	362.937	358.373	368.521	337.506
37.5	260.239	273.094	268.943	277.518	251.296
40.0	172.097	183.251	179.513	186.515	165.087
42.5	117.710	121.766	123.060	127.048	114.146
45.0	63.323	60.280	66.606	67.582	63.205
47.5	43.675	42.122	46.053	47.064	44.013
50.0	24.026	23.964	25.499	26.545	24.820
52.5	16.105	16.178	17.037	17.685	16.756
55.0	8.183	8.393	8.574	8.824	8.692
57.5	4.742	4.712	4.999	5.122	5.082
60.0	1.301	1.032	1.424	1.419	1.471
62.5	0.953	0.753	0.986	1.033	1.022
65.0	0.605	0.474	0.548	0.646	0.574
67.5	0.528	0.538	0.625	0.688	0.589
70.0	0.451	0.601	0.702	0.730	0.604
72.5	0.506	0.634	0.773	0.666	0.701
75.0	0.561	0.668	0.844	0.602	0.798
77.5	0.528	0.542	0.813	0.660	0.701
80.0	0.496	0.416	0.782	0.717	0.603
82.5	0.520	0.562	0.724	0.610	0.607
85.0	0.544	0.707	0.666	0.502	0.610
87.5	0.516	0.491	0.660	0.408	0.595
90.0	0.488	0.275	0.655	0.314	0.580
92.5	5.335	4.943	4.605	5.101	0.000
95.0	4.567	4.686	4.076	3.983	4.256
97.5	4.569	4.625	3.483	4.117	4.443
100.0	4.629	4.382	4.027	3.178	3.763
102.5	4.767	4.759	3.764	3.108	3.426
105.0	4.906	4.250	3.736	3.337	3.229
107.5	4.681	3.572	3.858	3.524	2.859
110.0	4.420	3.612	3.925	3.665	2.336
112.5	4.111	3.642	3.880	3.676	2.902
115.0	4.619	3.659	3.736	3.641	3.371
117.5	5.731	4.341	4.094	3.494	3.661
120.0	7.370	5.634	4.680	4.040	4.056
122.5	9.320	9.793	8.154	5.629	4.554
125.0	20.621	16.093	12.566	15.420	12.541

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127.5	36.366	39.068	38.130	35.186	26.461
130.0	74.263	72.109	68.891	70.281	66.995
132.5	120.386	118.446	118.341	120.982	124.852
135.0	174.762	171.395	171.076	174.445	181.423
137.5	231.506	223.740	225.591	230.196	237.314
140.0	275.920	275.850	280.300	277.540	281.640
142.5	317.717	321.837	322.317	319.153	321.125
145.0	372.413	365.964	363.662	369.602	372.440
147.5	428.931	421.591	420.991	424.970	427.640
150.0	481.861	479.834	478.015	476.837	481.286
152.5	534.481	530.109	528.323	527.158	534.544
155.0	584.559	579.153	578.180	579.679	587.326
157.5	634.158	622.487	623.635	632.966	640.024
160.0	666.650	665.282	667.770	674.172	679.206
162.5	700.509	705.751	704.091	712.154	716.822
165.0	753.266	746.318	743.395	754.587	760.111
167.5	807.147	801.204	794.951	797.864	803.715
170.0	869.359	855.828	846.284	849.306	856.329
172.5	927.019	906.135	896.916	901.809	908.383
175.0	961.914	953.385	940.835	939.864	947.746
177.5	990.691	975.578	968.435	976.936	984.123
180.0	997.750	997.750	997.750	997.750	997.750

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Zone	Lumens	%Lamp	%Fixt
0-20	397.10	N.A.	19.90
0-30	738.14	N.A.	36.90
0-40	963.63	N.A.	48.20
0-60	1036.11	N.A.	51.80
0-80	1037.57	N.A.	51.90
0-90	1038.2	N.A.	51.90
10-90	927.06	N.A.	46.40
20-40	566.53	N.A.	28.30
20-50	629.45	N.A.	31.50
40-70	73.24	N.A.	3.70
60-80	1.46	N.A.	0.10
70-80	0.70	N.A.	0.00
80-90	0.62	N.A.	0.00
90-110	8.12	N.A.	0.40
90-120	12.07	N.A.	0.60
90-130	33.17	N.A.	1.70
90-150	397.51	N.A.	19.90
90-180	961.52	N.A.	48.10
110-180	953.39	N.A.	47.70
0-180	1999.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.14
10-20	285.97
20-30	341.04
30-40	225.49
40-50	62.92
50-60	9.56
60-70	0.76
70-80	0.70
80-90	0.62
90-100	4.09
100-110	4.04
110-120	3.94
120-130	21.11
130-140	132.64
140-150	231.70
150-160	265.19
160-170	211.33
170-180	87.49

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

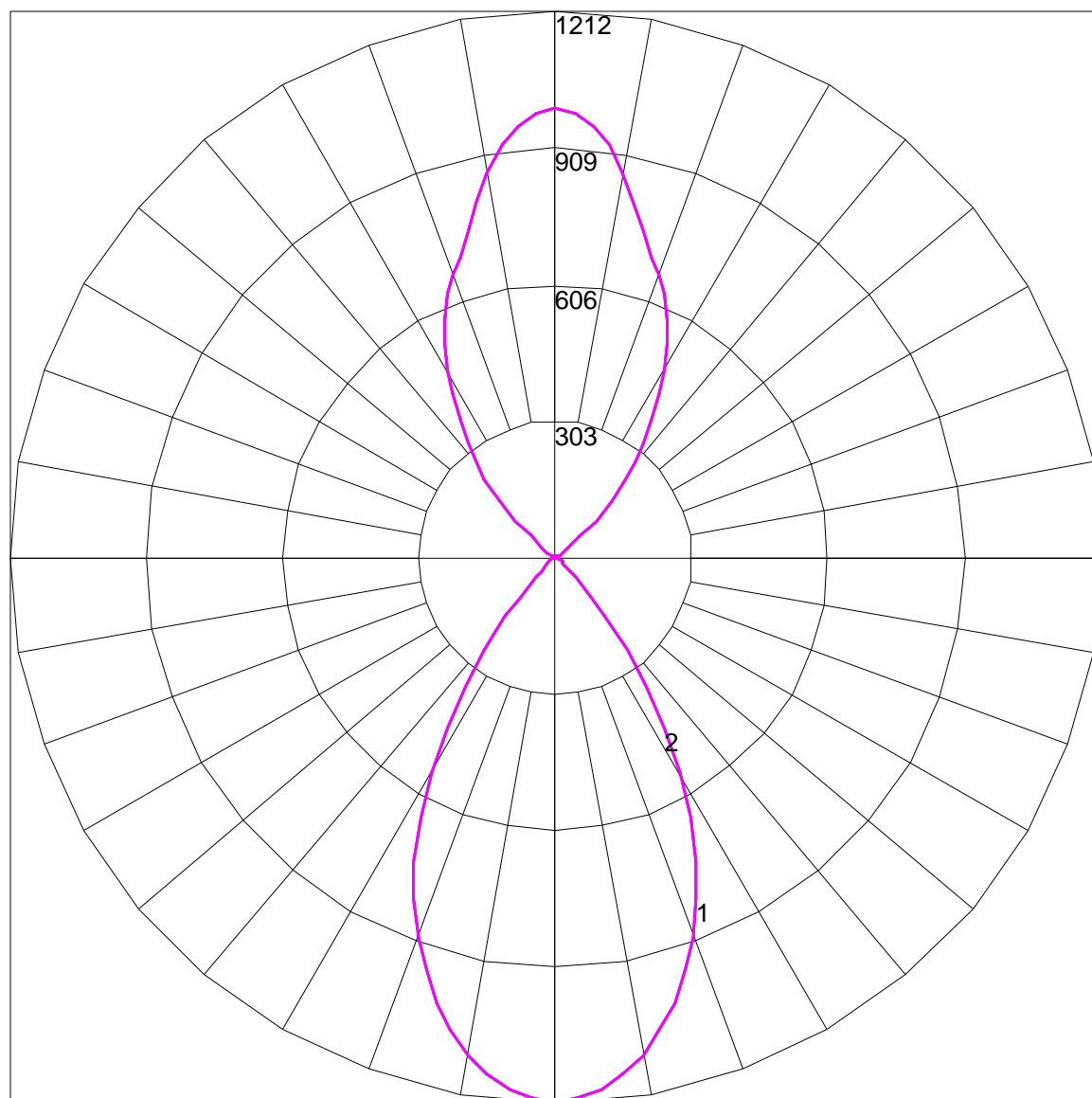
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	52
1	101	97	94	92	93	90	88	86	78	76	74	66	65	64	55	54	54	49
2	94	88	83	79	87	82	78	75	71	68	66	61	59	58	52	51	49	45
3	88	80	75	70	82	75	70	66	66	62	59	57	54	52	49	47	46	42
4	82	73	67	62	76	69	64	59	61	57	54	53	50	48	46	44	42	39
5	77	67	61	56	72	64	58	54	56	52	49	50	46	44	43	41	39	37
6	72	62	55	51	67	59	53	49	52	48	45	46	43	41	41	38	37	34
7	68	57	51	46	63	54	49	44	49	44	41	43	40	38	38	36	34	32
8	64	53	47	42	60	51	45	41	46	41	38	41	37	35	36	34	32	30
9	60	50	43	39	56	47	42	38	43	38	35	38	35	33	34	32	30	28
10	57	46	40	36	53	44	39	35	40	36	33	36	33	30	33	30	28	26

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POLAR GRAPH



Maximum Candela = 1212.252 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)