

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00423_16 ~ C06XXUDXT-13LNDGL-13LND-XXKEX-TSG-GL (UP_DOWN).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00423_16_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 10/13/2017
 [UPDATE] 1/30/2018
 [LUMCAT] C06xxUDXT-13L-ND-GL-13L-ND-xxK-EX-TSG-GL-xx (Up/Down)
 [LUMINAIRE] Nom. 6" Diam. x 18" H Direct/Indirect Cylinder
 [OTHER] Cylinder also available as 24" H variant
 [OTHER] Uplight: Narrow Beam, Flush Clear Glass lens
 [OTHER] Uplight: 20 Degree Beam Angle
 [OTHER] Downlight: Narrow Beam, Regressed Clear Glass lens
 [OTHER] Downlight: 21.1 Degree Beam Angle
 [OTHER] Trim: Semi-diffuse clear anodized aluminum
 [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 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	312	288	202
55	153	134	112
65	97	93	48
75	134	120	89
85	341	189	500

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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	4428.775	4428.775	4428.775	4428.775	4428.775
2.5	4101.828	4069.010	4058.738	4046.787	4055.338
5.0	3774.880	3709.244	3688.701	3664.797	3681.899
7.5	3044.005	3013.284	2998.889	2979.796	2991.560
10.0	2313.130	2317.324	2309.077	2294.795	2301.221
12.5	1779.217	1796.889	1790.464	1781.978	1781.868
15.0	1245.304	1276.453	1271.851	1269.161	1262.516
17.5	979.478	1006.108	1004.623	1006.130	999.523
20.0	713.652	735.763	737.394	743.100	736.531
22.5	593.289	611.481	614.179	621.414	617.900
25.0	472.926	487.198	490.963	499.728	499.270
27.5	407.230	417.123	417.260	429.478	425.223
30.0	341.533	347.047	343.557	359.228	351.175
32.5	260.135	257.133	251.021	250.400	241.336
35.0	178.735	167.220	158.484	141.571	131.496
37.5	99.087	96.709	90.320	81.271	75.720
40.0	19.440	26.198	22.156	20.972	19.943
42.5	11.732	15.120	12.940	11.835	11.276
45.0	4.024	4.042	3.724	2.697	2.607
47.5	3.058	3.167	3.080	2.133	2.196
50.0	2.091	2.293	2.436	1.568	1.786
52.5	1.847	2.034	1.919	1.357	1.479
55.0	1.603	1.775	1.401	1.145	1.172
57.5	1.482	1.363	1.148	0.942	0.855
60.0	1.361	0.950	0.895	0.740	0.538
62.5	1.054	0.717	0.805	0.676	0.453
65.0	0.747	0.484	0.714	0.612	0.368
67.5	0.639	0.472	0.488	0.512	0.533
70.0	0.531	0.460	0.262	0.411	0.697
72.5	0.582	0.527	0.413	0.486	0.558
75.0	0.632	0.595	0.565	0.560	0.419
77.5	0.771	0.547	0.529	0.603	0.424
80.0	0.909	0.499	0.493	0.645	0.428
82.5	0.727	0.488	0.397	0.577	0.612
85.0	0.543	0.477	0.301	0.509	0.796
87.5	0.543	0.465	0.371	0.255	0.398
90.0	0.541	0.453	0.441	0.000	0.000
92.5	5.643	6.031	5.112	5.376	4.377
95.0	4.943	3.869	5.071	5.054	4.228
97.5	4.530	3.604	4.869	3.853	3.526
100.0	3.998	3.134	3.482	2.666	3.151
102.5	3.260	3.227	2.998	2.585	3.102
105.0	2.757	2.576	2.294	2.819	2.088
107.5	2.458	2.234	2.077	2.701	2.158
110.0	2.168	2.136	1.918	2.248	2.134
112.5	1.886	1.684	1.787	2.202	2.032
115.0	2.458	1.899	3.195	2.336	3.400
117.5	3.351	3.236	4.980	2.854	4.919
120.0	6.187	5.034	6.686	4.316	6.558
122.5	8.443	7.244	8.269	6.833	7.843
125.0	7.842	7.932	7.813	7.802	7.589

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127.5	7.459	7.454	7.377	7.272	7.745
130.0	8.078	7.533	7.227	8.603	9.560
132.5	9.533	8.024	8.610	11.669	16.302
135.0	14.590	19.868	28.510	31.981	41.819
137.5	28.901	39.749	52.337	67.741	76.563
140.0	80.643	87.134	117.814	122.305	144.494
142.5	137.117	153.232	183.865	193.069	211.880
145.0	211.623	221.001	255.315	260.285	277.415
147.5	280.924	289.864	324.126	324.559	338.382
150.0	331.506	344.653	370.536	378.691	384.627
152.5	382.309	390.608	419.825	424.742	439.919
155.0	433.860	454.160	491.243	500.087	522.860
157.5	502.870	528.311	575.255	597.887	632.265
160.0	628.133	665.259	747.606	772.053	818.508
162.5	793.939	838.501	948.008	1001.604	1064.201
165.0	1083.674	1144.484	1329.027	1369.880	1474.081
167.5	1444.537	1524.039	1747.230	1836.398	1954.490
170.0	2011.932	2085.571	2386.312	2435.781	2620.383
172.5	2612.013	2743.786	3015.887	3124.133	3255.049
175.0	3302.369	3338.211	3593.132	3646.066	3811.430
177.5	3842.044	3900.729	4059.260	4059.221	4159.757
180.0	3996.850	3996.850	3996.850	3996.850	3996.850

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Zone	Lumens	%Lamp	%Fixt
0-20	678.26	N.A.	32.20
0-30	912.13	N.A.	43.30
0-40	1015.32	N.A.	48.20
0-60	1022.43	N.A.	48.60
0-80	1023.62	N.A.	48.60
0-90	1024.12	N.A.	48.60
10-90	718.46	N.A.	34.10
20-40	337.06	N.A.	16.00
20-50	342.88	N.A.	16.30
40-70	7.73	N.A.	0.40
60-80	1.18	N.A.	0.10
70-80	0.57	N.A.	0.00
80-90	0.50	N.A.	0.00
90-110	7.11	N.A.	0.30
90-120	10.11	N.A.	0.50
90-130	16.76	N.A.	0.80
90-150	193.85	N.A.	9.20
90-180	1081.26	N.A.	51.40
110-180	1074.14	N.A.	51.00
0-180	2105.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	305.66
10-20	372.60
20-30	233.88
30-40	103.18
40-50	5.83
50-60	1.29
60-70	0.62
70-80	0.57
80-90	0.50
90-100	4.33
100-110	2.79
110-120	2.99
120-130	6.65
130-140	27.95
140-150	149.15
150-160	227.34
160-170	362.07
170-180	298.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

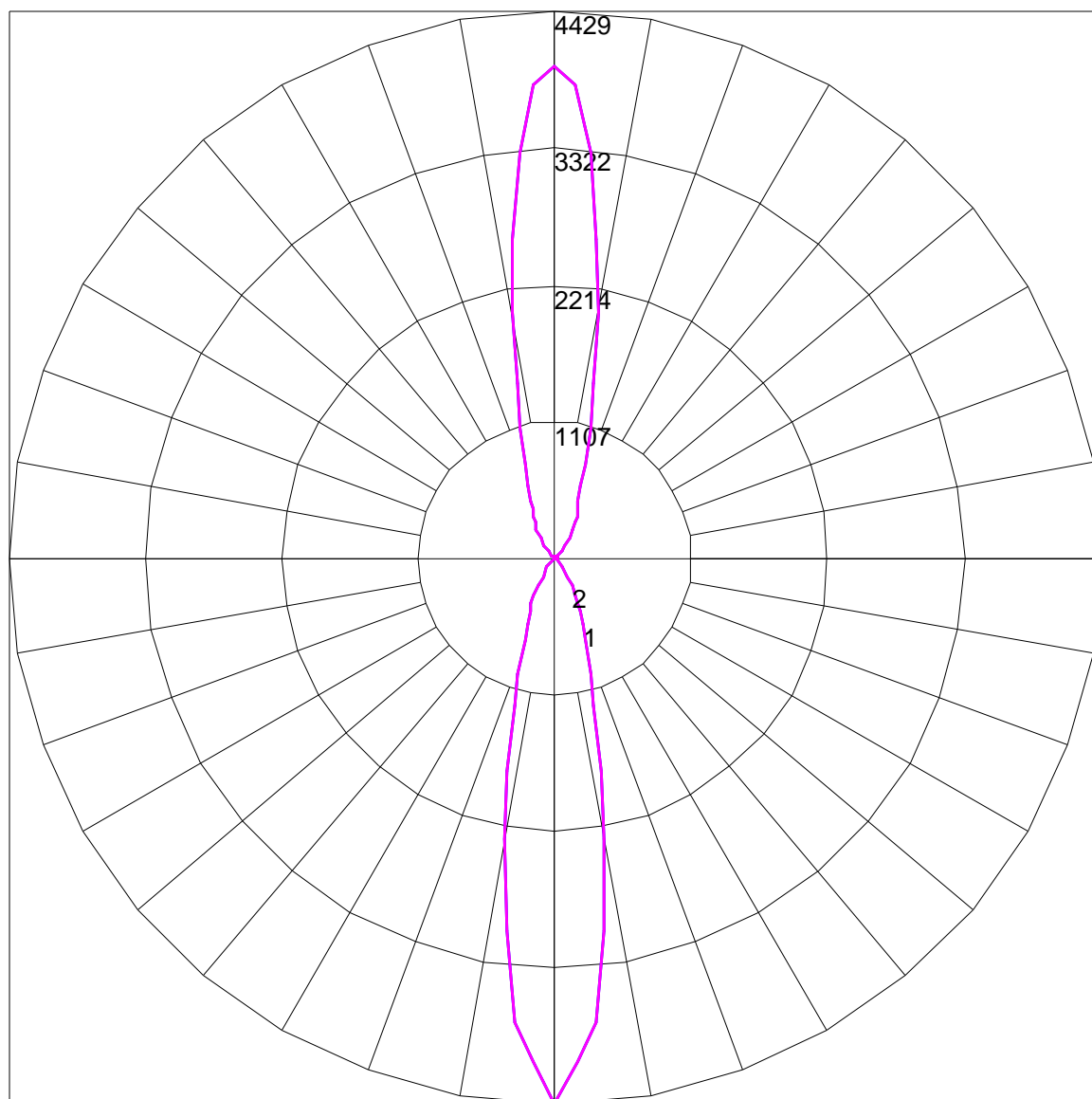
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	100	97	94	92	93	90	88	85	77	75	74	64	63	62	53	52	52	47
2	94	89	84	81	87	83	79	76	71	69	66	61	59	58	51	50	49	45
3	89	82	76	72	82	76	72	68	67	63	61	57	55	54	49	48	47	43
4	84	76	70	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	66	60	55	70	62	57	53	56	52	49	49	47	45	43	42	40	38
7	71	62	56	52	66	59	53	50	53	49	46	47	44	42	42	40	39	37
8	67	58	52	48	63	55	50	47	50	46	43	45	42	40	40	39	37	35
9	64	55	49	45	61	53	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	47	43	58	50	45	42	46	42	39	42	39	37	38	36	35	33

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POLAR GRAPH



Maximum Candela = 4428.775 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)