

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-160LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_48\_M-160L

[TESTLAB] Photopia 2017.2.1 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-160L-xxK-WD-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Wide Beam

[OTHER] Integral Straight 3" Matte White (interior) Deep Snoot for Additional Cutoff

[OTHER] Nom. 13" Diam. Cylinder / Nom. 13" Diam Snoot Opening

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 46.6 Degree Beam Angle, 87.5 Degree Field Angle

[LAMPCAT] LED 4000lm

[LAMP] N/A, 19mm

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 200L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-160LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17772	13401	17161
55	9557	8918	9385
65	9850	9596	10089
75	8677	8730	8628
85	5086	5786	5174

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-160LXXK-WDEX-MWI.IES

## CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	13318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891
5	13207.3411	3091.8631	3078.4201	3042.7981	3105.3531	3080.1281	3213.8461	2955.0351	3413.1921	2629.286
10	14727.5891	4700.0001	4456.4421	4462.2171	4740.5171	4569.9171	4666.6831	4561.1761	4519.2901	4616.416
15	13572.7431	3431.4481	3436.9861	3503.2431	3378.9721	3409.8651	3280.8141	3424.7571	3589.5841	3300.486
20	9974.634	10020.3419	9900.929	9728.372	9756.562	9937.935	9809.469	9822.058	9710.408	9707.136
25	7541.010	7304.089	7204.428	7034.250	6589.721	6160.046	5799.124	5335.653	5224.319	5101.350
30	5310.605	5232.119	4722.895	4438.465	4148.883	3956.268	3879.722	3780.253	3818.107	3845.326
35	2606.003	2806.842	2929.727	3194.768	3249.808	3332.722	3303.901	3273.663	3172.970	3076.781
40	1916.761	1955.353	1917.369	1815.514	1885.168	2113.581	2293.191	2653.920	2662.899	2717.476
45	1434.094	1457.964	1400.838	1323.153	1308.700	1271.262	1225.778	1087.332	1054.692	1081.388
50	769.268	757.133	747.824	704.542	659.359	628.174	644.675	623.546	620.389	619.842
55	625.533	617.940	607.869	612.150	622.591	584.669	581.504	575.398	588.365	583.752
60	584.900	570.709	563.086	551.235	560.136	524.793	533.764	542.835	549.087	545.399
65	475.028	485.454	467.498	462.062	467.259	479.933	461.376	463.193	463.548	462.785
70	367.844	364.864	363.001	356.664	352.544	346.769	372.949	368.992	367.598	356.810
75	256.287	256.302	254.023	260.514	254.493	252.483	254.801	248.718	255.578	257.834
80	153.130	146.477	145.491	153.230	156.803	157.157	149.357	155.024	156.348	164.141
85	50.589	51.528	55.255	52.198	52.745	56.479	54.839	53.469	54.108	57.542
90	0.832	0.346	0.000	0.885	1.463	1.001	0.624	1.155	0.654	0.354

## Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	13318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891	3318.3891
5	13244.2151	3132.2041	3032.6191	3220.9001	3074.1921	3020.6231	2905.7621	3322.9171	3066.145
10	14852.6311	4536.7601	4438.0851	4264.5731	4427.2821	4738.0311	4491.9161	4911.2961	4522.192
15	13382.4761	3524.1031	3385.3561	3067.3861	3280.5051	3606.1311	3358.4761	3147.9811	3418.960
20	9704.341	9692.390	9788.640	9927.879	9728.803	9986.045	9964.400	9991.604	9856.662
25	5193.411	5493.018	5739.110	6274.276	6563.310	6889.013	7271.849	7318.673	7294.980
30	3957.430	3821.756	3885.728	4046.873	4163.090	4463.767	4811.268	5275.331	5247.496
35	3165.085	3203.500	3234.924	3257.169	3298.526	3179.045	3024.799	2667.365	2555.769
40	2735.610	2455.638	2274.280	2077.868	1872.917	1840.261	1911.694	1892.283	1934.348
45	1079.956	1103.810	1197.866	1253.360	1327.826	1347.662	1405.635	1432.423	1384.791
50	613.143	604.350	613.990	631.531	673.534	719.603	720.373	784.407	768.314
55	592.176	584.253	562.608	591.845	608.277	598.151	597.428	598.675	614.291
60	531.916	527.327	533.125	544.251	557.549	548.394	549.795	547.724	556.879
65	471.055	458.219	463.224	475.013	471.971	452.775	471.263	475.190	486.578
70	367.236	345.414	367.875	363.717	370.393	356.248	365.827	364.210	363.840
75	256.310	255.378	261.708	255.332	247.155	258.450	255.224	265.704	254.824
80	155.501	155.193	152.260	152.683	158.035	155.994	152.837	158.882	147.247
85	57.373	56.518	51.821	54.385	49.742	48.418	54.901	53.731	51.459
90	1.278	0.269	0.346	0.000	0.000	0.000	0.000	0.924	0.701

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-160LXXK-WDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4879.88	N.A.	39.80
0-30	7921.44	N.A.	64.60
0-40	9893.55	N.A.	80.70
0-60	11461.22	N.A.	93.50
0-80	12189.7	N.A.	99.40
0-90	12261.03	N.A.	100.00
10-90	10955.00	N.A.	89.30
20-40	5013.67	N.A.	40.90
20-50	6040.89	N.A.	49.30
40-70	2024.92	N.A.	16.50
60-80	728.48	N.A.	5.90
70-80	271.24	N.A.	2.20
80-90	71.33	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12261.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1306.03
10-20	3573.85
20-30	3041.56
30-40	1972.11
40-50	1027.23
50-60	540.45
60-70	457.24
70-80	271.24
80-90	71.33
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

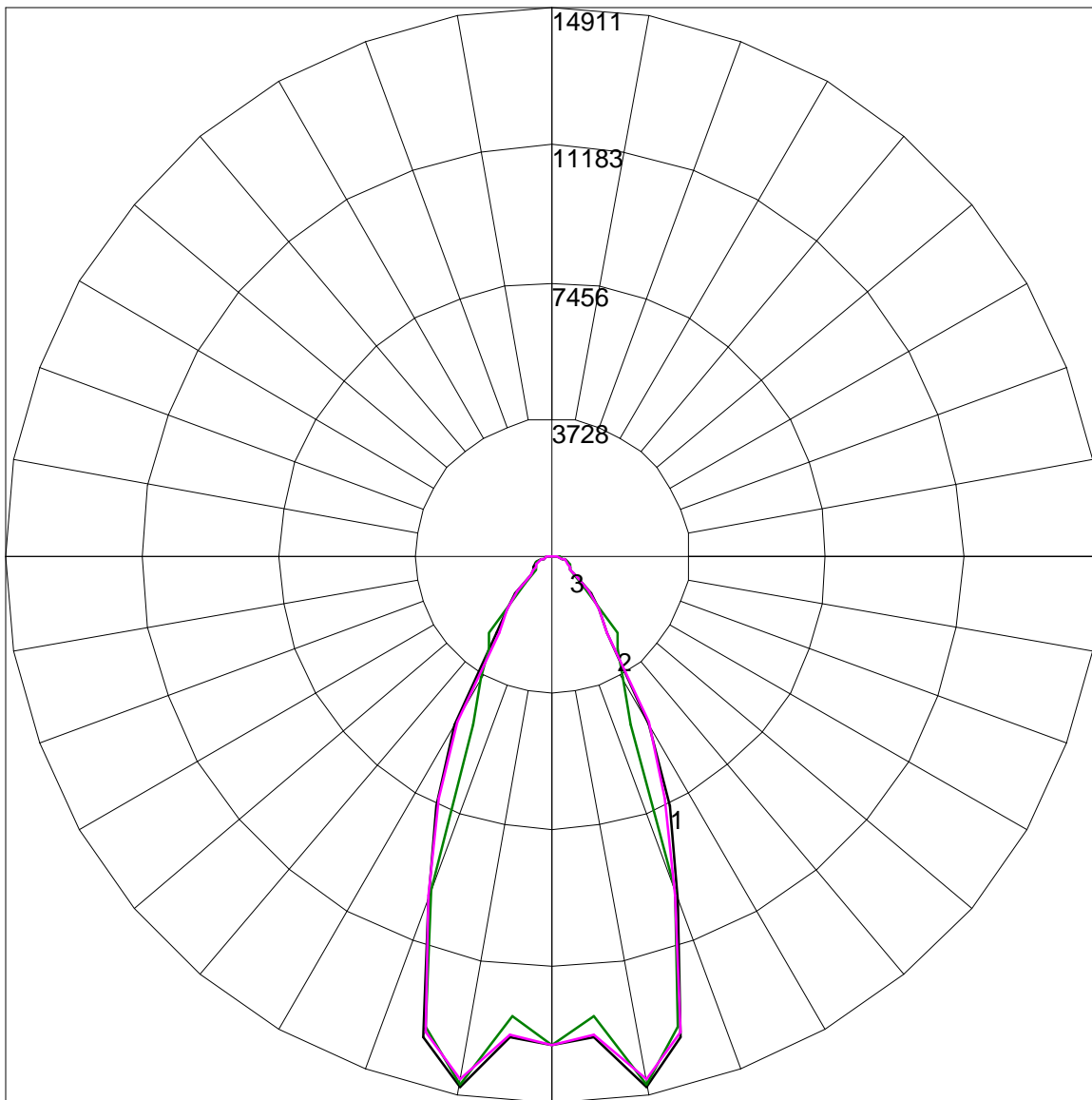
PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-160LXXK-WDEX-MWI.IES

## 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	80	86	82	79	84	81	78	76
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

POLAR GRAPH



Maximum Candela = 14911.296 Located At Horizontal Angle = 85, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)