

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_44 ~ C1320YKSSXT-120LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_44\_M-120L

[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-120L-xxK-ND-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.7 Degree Beam Angle, 48.3 Degree Field Angle

[LAMPCAT] LED 3000lm

[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	10623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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\_44 ~ C1320YKSSXT-120LXXK-NDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3308	3067	3350
55	2809	2718	2989
65	3317	3226	3299
75	3306	3188	2920
85	2136	1865	2177

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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>
<b>0</b>	42974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254
<b>5</b>	36020.4373	6479.6593	6766.6753	6498.6793	6445.8433	6787.4293	6434.2593	6434.5983	6425.9293	6429.439
<b>10</b>	27658.4402	6985.6432	7349.5482	6979.2702	7099.0132	6908.8972	7352.2432	7080.3362	7055.8862	7090.690
<b>15</b>	14592.7091	4596.5371	4786.4851	4469.0611	4498.7071	4481.4331	4407.8241	4577.9661	4309.7551	4389.189
<b>20</b>	6145.464	6110.598	6139.350	6116.664	6053.694	6108.930	6083.388	6295.548	6395.052	6279.978
<b>25</b>	3840.678	3731.430	3681.456	3565.314	3388.890	3264.144	3020.046	2713.746	2627.424	2488.992
<b>30</b>	2892.084	2883.252	2559.810	2333.292	2198.184	2033.472	2017.506	1972.644	1978.284	1972.668
<b>35</b>	1052.244	1070.844	1253.148	1395.942	1443.576	1445.058	1353.054	1334.706	1360.632	1372.362
<b>40</b>	497.808	491.052	488.730	475.632	518.814	587.610	638.508	657.012	647.982	661.038
<b>45</b>	266.970	250.608	247.920	244.386	231.468	241.050	235.002	245.640	249.240	247.446
<b>50</b>	189.174	199.236	204.180	206.202	203.988	188.196	193.536	189.684	204.720	196.146
<b>55</b>	183.852	180.096	190.824	194.736	191.274	182.694	186.282	188.988	199.512	177.882
<b>60</b>	172.602	177.390	189.612	171.252	179.958	172.848	171.192	180.222	166.692	177.072
<b>65</b>	159.954	167.214	169.776	169.614	163.014	161.028	158.358	157.398	155.136	155.580
<b>70</b>	143.490	139.974	143.964	135.378	135.378	139.002	129.438	127.794	128.790	128.592
<b>75</b>	97.656	96.798	93.066	88.812	98.844	89.628	87.768	94.698	92.034	94.164
<b>80</b>	57.252	56.382	53.616	57.414	58.680	53.742	55.224	58.194	61.218	54.810
<b>85</b>	21.246	16.710	18.312	20.100	20.178	19.056	18.294	21.918	19.728	18.552
<b>90</b>	0.000	0.000	0.276	0.276	0.336	0.414	0.276	0.000	0.000	0.516

Vert. Horizontal Angles  
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>
<b>0</b>	42974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254	2974.7254
<b>5</b>	36796.7053	6562.3213	6476.9553	6421.6983	6627.3973	6789.7333	6643.2673	6780.3633	7082.293
<b>10</b>	27150.6202	7157.8082	7313.5972	7124.2972	7136.7472	7244.8202	7337.3162	7175.4592	7026.994
<b>15</b>	14552.9161	4498.8451	4459.6641	4463.0661	4552.7011	4596.3871	4414.6291	4627.0411	4814.349
<b>20</b>	6341.868	6315.318	6259.452	6058.962	6038.214	6073.062	5984.406	6057.486	6027.438
<b>25</b>	2581.596	2809.068	2870.100	3064.716	3401.262	3724.206	3765.120	3815.262	3800.490
<b>30</b>	1989.498	1968.132	1961.748	2049.030	2088.210	2347.200	2564.868	2818.212	2911.848
<b>35</b>	1367.826	1420.434	1391.634	1446.744	1467.606	1366.974	1253.886	1111.854	1004.646
<b>40</b>	643.638	635.904	643.176	598.392	499.884	476.172	479.274	525.600	534.696
<b>45</b>	242.436	248.250	232.632	240.786	232.044	246.570	261.594	250.806	270.312
<b>50</b>	196.308	198.144	183.294	193.350	204.012	192.432	198.270	202.026	204.612
<b>55</b>	195.570	196.722	190.338	196.632	193.104	195.402	184.086	188.838	195.624
<b>60</b>	171.186	173.412	173.856	177.006	178.278	170.964	178.344	179.694	184.536
<b>65</b>	162.228	163.044	151.290	155.040	161.304	161.622	158.040	160.884	159.096
<b>70</b>	128.562	128.568	131.448	132.810	133.692	140.802	138.222	142.230	124.692
<b>75</b>	89.172	89.838	97.860	95.538	87.174	97.440	88.548	99.660	86.244
<b>80</b>	53.556	61.050	57.354	53.490	54.234	55.980	54.894	58.404	52.236
<b>85</b>	18.108	23.160	18.192	19.662	18.078	18.000	21.804	17.034	21.648
<b>90</b>	0.276	0.234	0.276	0.246	0.000	0.000	0.276	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	7407.61	N.A.	69.70
0-30	9088.92	N.A.	85.60
0-40	9932.57	N.A.	93.50
0-60	10341.07	N.A.	97.30
0-80	10596.9	N.A.	99.80
0-90	10622.81	N.A.	100.00
10-90	7391.8	N.A.	69.60
20-40	2524.96	N.A.	23.80
20-50	2764.6	N.A.	26.00
40-70	564.99	N.A.	5.30
60-80	255.84	N.A.	2.40
70-80	99.34	N.A.	0.90
80-90	25.90	N.A.	0.20
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	10622.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3231.01
10-20	4176.6
20-30	1681.32
30-40	843.65
40-50	239.63
50-60	168.86
60-70	156.49
70-80	99.34
80-90	25.90
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

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

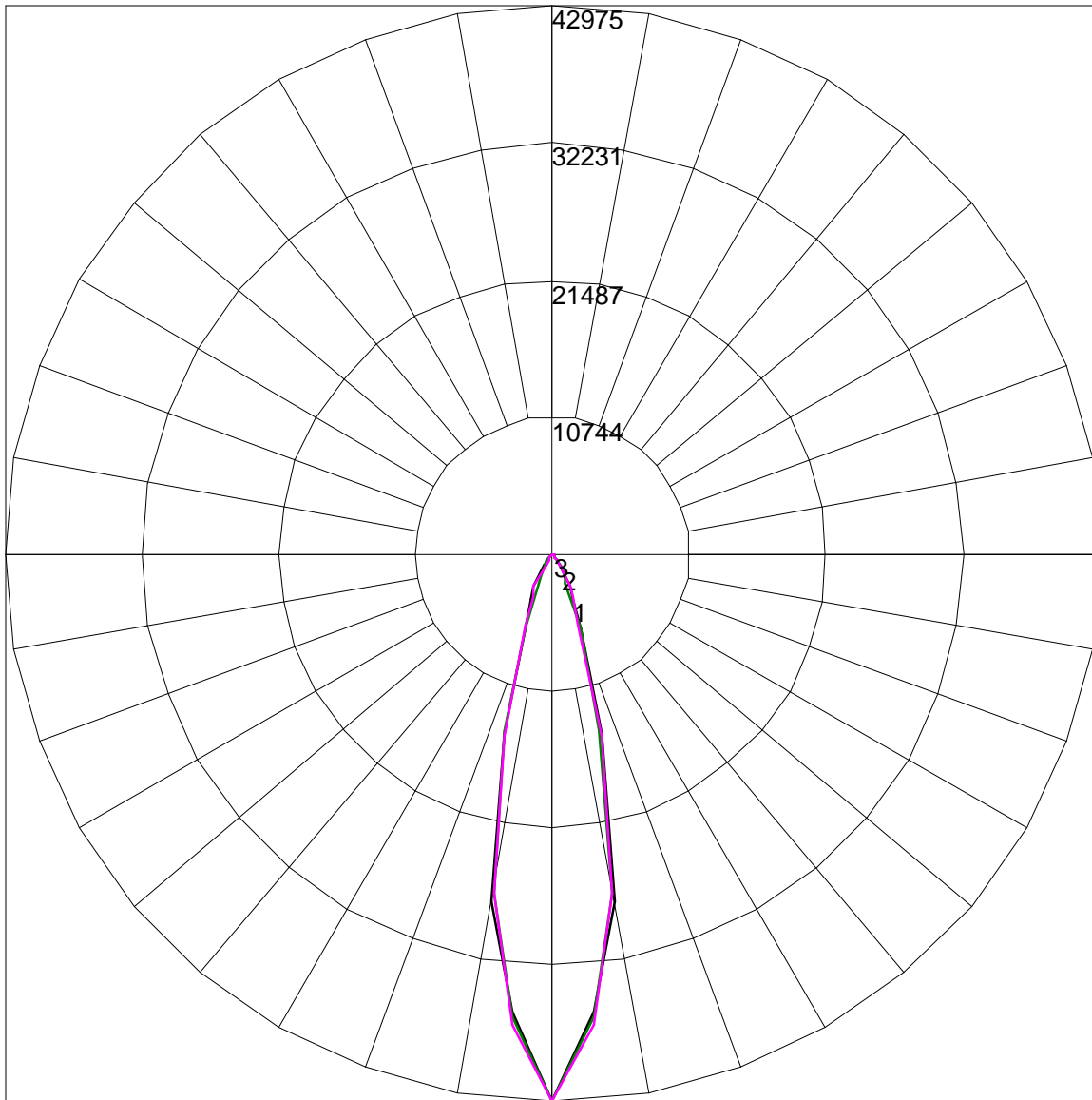
Effective Floor Cavity Reflectance 0.20

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	79	76	90	84	79	76	82	78	75	81	78	75	80	77	75	74
8	89	81	76	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

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## POLAR GRAPH



Maximum Candela = 42974.725 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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