

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_44 ~ C1320YKSSXT-160LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_44_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-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 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	13633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	159.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4246	3935	4299
55	3605	3488	3836
65	4256	4140	4234
75	4243	4091	3747
85	2741	2394	2793

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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>
0	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894
5	46226.224	46815.560	47183.896	46839.968	46772.163	47210.531	46757.296	46757.731	46746.606	46751.111
10	35494.996	34631.573	35098.584	34623.395	34777.065	34533.082	35102.043	34753.095	34721.718	34766.383
15	18727.308	18732.222	18975.988	18568.627	18606.672	18584.505	18490.040	18708.388	18364.184	18466.124
20	7886.679	7841.934	7878.832	7849.719	7768.907	7839.793	7807.014	8079.286	8206.983	8059.305
25	4928.870	4788.668	4724.535	4575.486	4349.075	4188.985	3875.726	3482.641	3371.861	3194.206
30	3711.508	3700.173	3285.089	2994.391	2821.003	2609.622	2589.133	2531.560	2538.798	2531.591
35	1350.380	1374.250	1608.207	1791.459	1852.589	1854.491	1736.419	1712.873	1746.144	1761.198
40	638.854	630.183	627.203	610.394	665.811	754.099	819.419	843.165	831.577	848.332
45	342.611	321.614	318.164	313.629	297.051	309.347	301.586	315.238	319.858	317.556
50	242.773	255.686	262.031	264.626	261.785	241.518	248.371	243.428	262.724	251.721
55	235.943	231.123	244.891	249.911	245.468	234.457	239.062	242.535	256.040	228.282
60	221.506	227.650	243.335	219.773	230.946	221.822	219.696	231.285	213.921	227.242
65	205.274	214.591	217.879	217.671	209.201	206.653	203.226	201.994	199.091	199.661
70	184.145	179.633	184.754	173.735	173.735	178.386	166.112	164.002	165.280	165.026
75	125.325	124.224	119.435	113.975	126.850	115.023	112.636	121.529	118.110	120.844
80	73.473	72.357	68.807	73.681	75.306	68.969	70.871	74.682	78.563	70.339
85	27.266	21.444	23.500	25.795	25.895	24.455	23.477	28.128	25.318	23.808
90	0.000	0.000	0.354	0.354	0.431	0.531	0.354	0.000	0.000	0.662

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	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894	55150.894
5	47222.436	46921.642	46812.089	46741.176	47005.157	47213.487	47025.523	47201.462	47588.940
10	34843.293	34852.518	35052.447	34809.512	34825.490	34964.183	35082.886	34875.170	34684.640
15	18676.241	18606.849	18556.568	18560.933	18675.965	18732.029	18498.773	18771.368	19011.746
20	8138.730	8104.658	8032.963	7775.668	7749.041	7793.763	7679.988	7773.774	7735.212
25	3313.048	3604.971	3683.295	3933.052	4364.953	4779.398	4831.904	4896.253	4877.295
30	2553.189	2525.769	2517.577	2629.588	2679.869	3012.240	3291.581	3616.705	3736.872
35	1755.377	1822.890	1785.930	1856.655	1883.428	1754.283	1609.154	1426.879	1289.296
40	826.002	816.077	825.409	767.936	641.518	611.087	615.068	674.520	686.193
45	311.126	318.587	298.544	309.009	297.790	316.431	335.712	321.868	346.900
50	251.929	254.285	235.227	248.132	261.815	246.954	254.446	259.267	262.585
55	250.981	252.460	244.267	252.344	247.817	250.766	236.244	242.342	251.051
60	219.689	222.545	223.115	227.158	228.790	219.404	228.875	230.607	236.821
65	208.193	209.240	194.155	198.968	207.007	207.415	202.818	206.468	204.173
70	164.988	164.996	168.692	170.439	171.571	180.696	177.385	182.528	160.021
75	114.437	115.292	125.587	122.607	111.873	125.048	113.637	127.897	110.680
80	68.730	78.347	73.604	68.645	69.600	71.841	70.447	74.952	67.036
85	23.239	29.722	23.346	25.233	23.200	23.100	27.982	21.860	27.782
90	0.354	0.300	0.354	0.316	0.000	0.000	0.354	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	9506.43	N.A.	69.70
0-30	11664.12	N.A.	85.60
0-40	12746.8	N.A.	93.50
0-60	13271.04	N.A.	97.30
0-80	13599.37	N.A.	99.80
0-90	13632.6	N.A.	100.00
10-90	9486.14	N.A.	69.60
20-40	3240.37	N.A.	23.80
20-50	3547.9	N.A.	26.00
40-70	725.07	N.A.	5.30
60-80	328.32	N.A.	2.40
70-80	127.49	N.A.	0.90
80-90	33.24	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	13632.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4146.46
10-20	5359.97
20-30	2157.69
30-40	1082.68
40-50	307.53
50-60	216.71
60-70	200.83
70-80	127.49
80-90	33.24
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

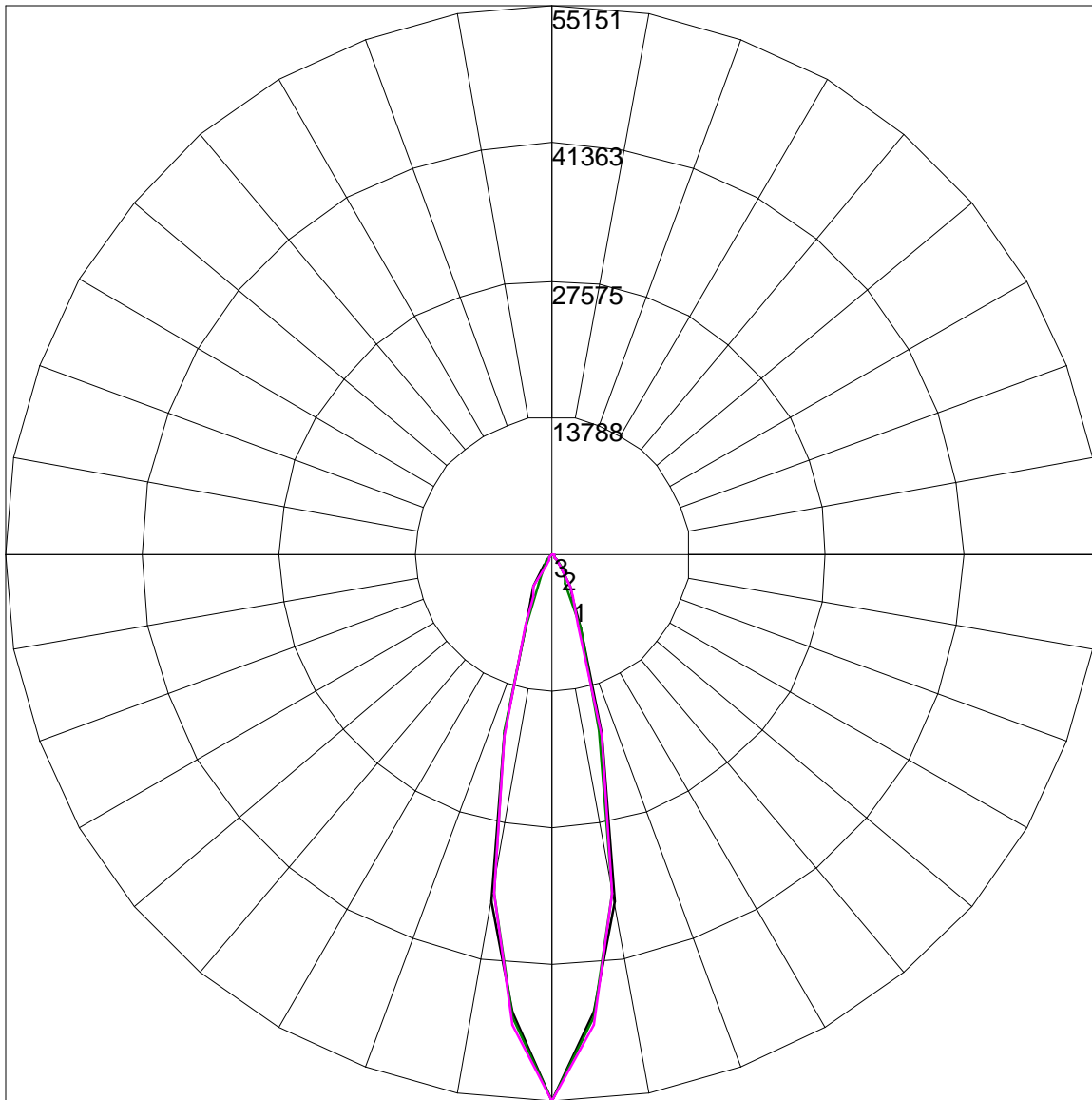
Effective Floor Cavity Reflectance 0.20

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 = 55150.894 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)