

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_44 ~ C1320YKSSXT-80LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_44_M-80L

[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-80L-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 2000lm

[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	7082
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	94.8
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-80LXXK-NDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2206	2044	2233
55	1873	1812	1992
65	2211	2151	2199
75	2204	2125	1947
85	1424	1244	1451

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_44 ~ C1320YKSSXT-80LXXK-NDEX-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	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816
5	24013.624	24319.772	24511.116	24332.452	24297.228	24524.952	24289.505	24289.732	24283.952	24286.292
10	18438.959	17990.428	18233.031	17986.180	18066.008	17939.264	18234.828	18053.557	18037.257	18060.459
15	9728.472	9731.025	9857.657	9646.040	9665.804	9654.289	9605.216	9718.644	9539.836	9592.792
20	4096.976	4073.732	4092.900	4077.776	4035.796	4072.620	4055.592	4197.032	4263.368	4186.652
25	2560.452	2487.620	2454.304	2376.876	2259.260	2176.096	2013.364	1809.164	1751.616	1659.328
30	1928.056	1922.168	1706.540	1555.528	1465.456	1355.648	1345.004	1315.096	1318.856	1315.112
35	701.496	713.896	835.432	930.628	962.384	963.372	902.036	889.804	907.088	914.908
40	331.872	327.368	325.820	317.088	345.876	391.740	425.672	438.008	431.988	440.692
45	177.980	167.072	165.280	162.924	154.312	160.700	156.668	163.760	166.160	164.964
50	126.116	132.824	136.120	137.468	135.992	125.464	129.024	126.456	136.480	130.764
55	122.568	120.064	127.216	129.824	127.516	121.796	124.188	125.992	133.008	118.588
60	115.068	118.260	126.408	114.168	119.972	115.232	114.128	120.148	111.128	118.048
65	106.636	111.476	113.184	113.076	108.676	107.352	105.572	104.932	103.424	103.720
70	95.660	93.316	95.976	90.252	90.252	92.668	86.292	85.196	85.860	85.728
75	65.104	64.532	62.044	59.208	65.896	59.752	58.512	63.132	61.356	62.776
80	38.168	37.588	35.744	38.276	39.120	35.828	36.816	38.796	40.812	36.540
85	14.164	11.140	12.208	13.400	13.452	12.704	12.196	14.612	13.152	12.368
90	0.000	0.000	0.184	0.184	0.224	0.276	0.184	0.000	0.000	0.344

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	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816	28649.816
5	24531.136	24374.880	24317.969	24281.132	24418.264	24526.488	24428.844	24520.241	24721.528
10	18100.413	18105.205	18209.064	18082.864	18091.164	18163.213	18224.877	18116.972	18017.995
15	9701.944	9665.896	9639.776	9642.044	9701.800	9730.925	9609.753	9751.360	9876.232
20	4227.912	4210.212	4172.968	4039.308	4025.476	4048.708	3989.604	4038.324	4018.292
25	1721.064	1872.712	1913.400	2043.144	2267.508	2482.804	2510.080	2543.508	2533.660
30	1326.332	1312.088	1307.832	1366.020	1392.140	1564.800	1709.912	1878.808	1941.232
35	911.884	946.956	927.756	964.496	978.404	911.316	835.924	741.236	669.764
40	429.092	423.936	428.784	398.928	333.256	317.448	319.516	350.400	356.464
45	161.624	165.500	155.088	160.524	154.696	164.380	174.396	167.204	180.208
50	130.872	132.096	122.196	128.900	136.008	128.288	132.180	134.684	136.408
55	130.380	131.148	126.892	131.088	128.736	130.268	122.724	125.892	130.416
60	114.124	115.608	115.904	118.004	118.852	113.976	118.896	119.796	123.024
65	108.152	108.696	100.860	103.360	107.536	107.748	105.360	107.256	106.064
70	85.708	85.712	87.632	88.540	89.128	93.868	92.148	94.820	83.128
75	59.448	59.892	65.240	63.692	58.116	64.960	59.032	66.440	57.496
80	35.704	40.700	38.236	35.660	36.156	37.320	36.596	38.936	34.824
85	12.072	15.440	12.128	13.108	12.052	12.000	14.536	11.356	14.432
90	0.184	0.156	0.184	0.164	0.000	0.000	0.184	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_44 ~ C1320YKSSXT-80LXXK-NDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4938.41	N.A.	69.70
0-30	6059.28	N.A.	85.60
0-40	6621.72	N.A.	93.50
0-60	6894.05	N.A.	97.30
0-80	7064.6	N.A.	99.80
0-90	7081.87	N.A.	100.00
10-90	4927.86	N.A.	69.60
20-40	1683.31	N.A.	23.80
20-50	1843.07	N.A.	26.00
40-70	376.66	N.A.	5.30
60-80	170.56	N.A.	2.40
70-80	66.23	N.A.	0.90
80-90	17.27	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	7081.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2154.01
10-20	2784.4
20-30	1120.88
30-40	562.43
40-50	159.76
50-60	112.58
60-70	104.33
70-80	66.23
80-90	17.27
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_44 ~ C1320YKSSXT-80LXXK-NDEX-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	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

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