

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-80LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_50\_M-80L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-80L-xxK-XW-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide Beam

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

[OTHER] Nom. 13" Diam. Cylinder / Nom. 15" Diam Snoot Opening

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

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

[OTHER] 54.8 Degree Beam Angle, 89.8 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	7175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.88
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\_50 ~ C1320YKFSXT-80LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6592	9941	6844
55	2461	2485	2343
65	2491	2529	2602
75	2528	2572	2508
85	1668	1867	1626



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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>	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176
<b>5</b>	7741.832	7935.653	7882.289	7875.389	7942.480	7858.196	7808.021	7907.876	7869.428	8034.825
<b>10</b>	7359.168	7330.636	7319.860	7436.168	7348.640	7394.825	7357.500	7416.160	7346.685	7342.032
<b>15</b>	6781.657	6611.260	6728.364	6636.812	6707.320	6652.284	6635.952	6742.664	6743.385	6718.860
<b>20</b>	5615.516	5627.020	5680.208	5594.724	5592.652	5555.628	5628.024	5588.372	5566.624	5600.772
<b>25</b>	4664.108	4654.356	4680.728	4675.916	4635.116	4552.816	4652.460	4628.352	4636.100	4627.196
<b>30</b>	3254.192	3349.392	3359.296	3341.836	3426.540	3401.576	3530.488	3575.648	3608.200	3586.792
<b>35</b>	2513.184	2510.604	2552.740	2520.032	2433.584	2325.624	2187.660	2078.864	2049.592	2047.848
<b>40</b>	1777.112	1697.264	1592.152	1429.256	1349.708	1337.072	1314.044	1336.068	1295.176	1317.212
<b>45</b>	531.908	615.736	702.672	737.264	818.308	819.032	796.568	814.312	782.504	802.176
<b>50</b>	271.524	281.000	280.288	277.888	297.320	336.172	379.652	402.240	427.332	411.344
<b>55</b>	161.052	160.080	160.272	160.152	162.452	160.400	154.388	168.092	157.668	162.668
<b>60</b>	131.056	133.720	130.760	142.432	138.988	132.576	137.276	130.552	134.852	135.320
<b>65</b>	120.112	119.052	120.824	118.028	121.720	126.380	119.644	129.468	133.192	121.972
<b>70</b>	116.884	111.956	110.720	117.944	107.816	111.920	107.800	111.480	103.132	108.016
<b>75</b>	74.676	78.816	81.648	80.916	77.468	76.912	75.704	75.748	79.924	75.956
<b>80</b>	45.788	47.524	46.660	46.740	45.808	45.088	50.812	46.712	49.732	47.820
<b>85</b>	16.588	17.840	16.716	17.984	17.436	17.388	14.500	17.596	15.816	18.568
<b>90</b>	0.000	1.068	1.376	0.344	0.656	0.640	0.708	0.404	1.068	0.660

## 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>
<b>0</b>	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176	7673.176
<b>5</b>	7905.521	8046.368	7742.604	7870.753	7785.972	7759.100	7863.780	7833.676	7925.292
<b>10</b>	7314.848	7302.125	7454.292	7362.640	7341.280	7267.712	7260.076	7430.644	7327.040
<b>15</b>	6662.344	6648.228	6724.732	6763.621	6631.152	6647.044	6706.752	6765.853	6676.476
<b>20</b>	5521.776	5538.908	5544.812	5578.684	5638.940	5544.748	5615.164	5553.000	5613.464
<b>25</b>	4604.964	4541.372	4600.716	4581.952	4612.556	4694.628	4616.732	4669.704	4622.456
<b>30</b>	3618.040	3602.516	3550.128	3469.608	3423.132	3316.184	3392.260	3281.788	3271.964
<b>35</b>	2044.468	2089.972	2228.076	2369.172	2412.964	2501.100	2495.756	2502.248	2526.720
<b>40</b>	1317.348	1345.776	1313.076	1352.844	1370.036	1465.116	1555.808	1638.584	1737.920
<b>45</b>	769.908	836.812	806.952	813.404	825.816	731.560	680.672	594.996	552.244
<b>50</b>	413.076	400.468	378.916	335.184	298.400	278.424	285.696	271.776	280.764
<b>55</b>	159.916	167.252	162.620	167.872	161.116	161.364	154.844	158.204	153.356
<b>60</b>	136.148	140.384	141.480	135.372	132.532	135.808	133.608	139.864	137.916
<b>65</b>	127.476	140.376	124.896	128.904	124.024	133.996	120.624	123.448	125.468
<b>70</b>	109.092	104.972	103.580	108.060	111.112	108.024	110.456	111.496	112.728
<b>75</b>	73.880	76.644	77.056	76.124	80.564	79.616	80.924	83.188	74.072
<b>80</b>	43.548	45.268	49.788	44.300	50.436	47.716	48.644	47.416	48.112
<b>85</b>	16.716	19.936	15.264	14.400	18.828	16.712	15.928	18.380	16.176
<b>90</b>	0.460	0.640	1.212	0.444	0.184	0.552	0.304	0.548	1.348



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Zone	Lumens	%Lamp	%Fixt
0-20	2575.91	N.A.	35.90
0-30	4669.7	N.A.	65.10
0-40	6147.33	N.A.	85.70
0-60	6946.94	N.A.	96.80
0-80	7152.54	N.A.	99.70
0-90	7174.86	N.A.	100.00
10-90	6444.18	N.A.	89.80
20-40	3571.43	N.A.	49.80
20-50	4194.58	N.A.	58.50
40-70	922.62	N.A.	12.90
60-80	205.60	N.A.	2.90
70-80	82.59	N.A.	1.20
80-90	22.31	N.A.	0.30
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	7174.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	730.67
10-20	1845.23
20-30	2093.79
30-40	1477.64
40-50	623.15
50-60	176.45
60-70	123.01
70-80	82.59
80-90	22.31
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

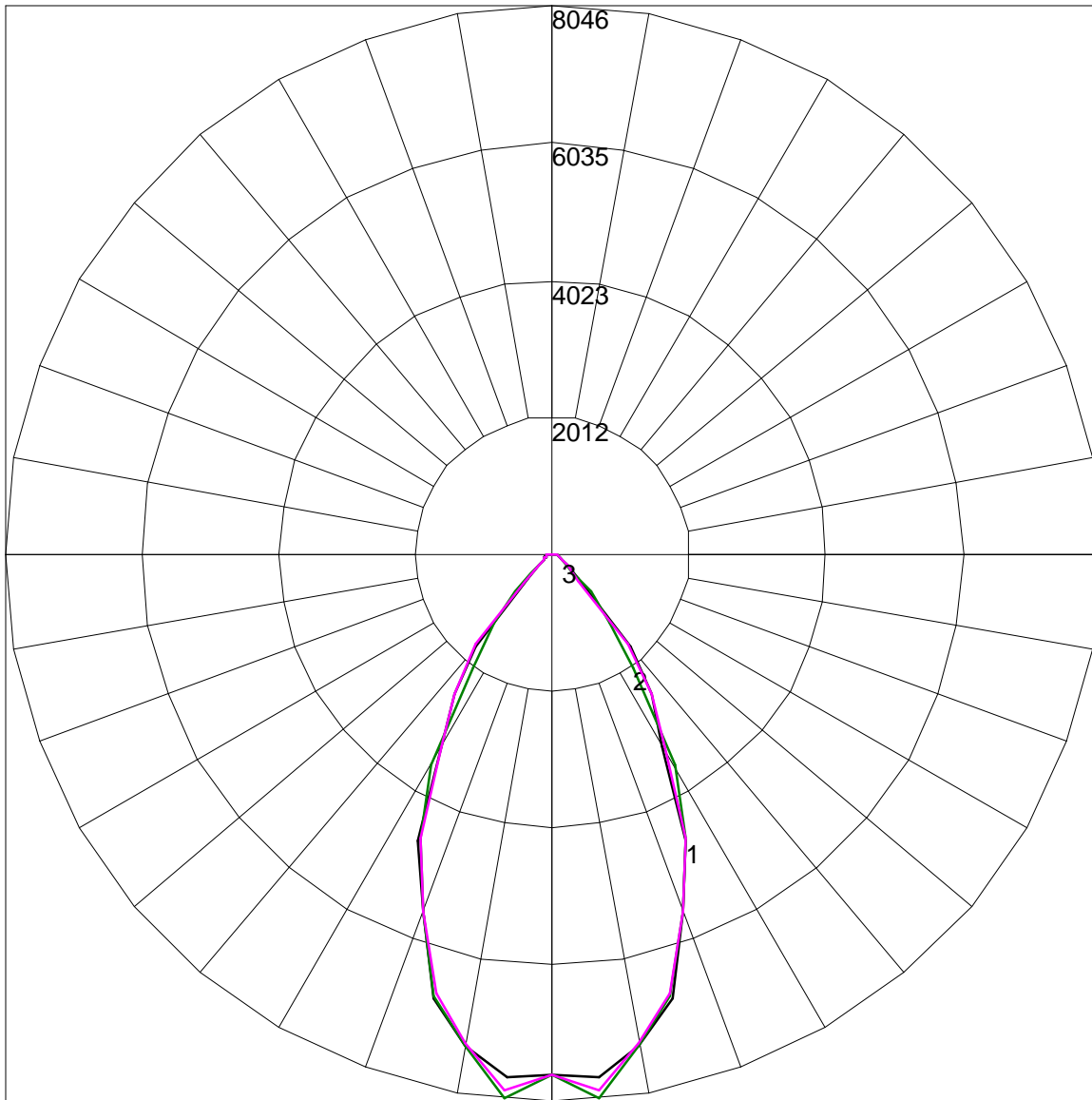
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48



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## POLAR GRAPH



Maximum Candela = 8046.368 Located At Horizontal Angle = 55, Vertical Angle = 5

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

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

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