

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_43 ~ C1320YKFSXT-80LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_43\_M-80L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-80L-xxK-ND-EX-MBI

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

[OTHER] Integral Flared 3" Matte Black (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] 24.8 Degree Beam Angle, 52 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	7162
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)	0.42
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\_43 ~ C1320YKFSXT-80LXXK-NDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	552	558	583
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154
<b>5</b>	24289.596	24506.869	24114.241	24390.160	24329.032	24469.236	24107.757	24192.757	24482.836	24391.149
<b>10</b>	18163.444	17866.913	18076.959	17882.044	17989.328	18154.857	17966.021	17922.205	17855.652	18100.621
<b>15</b>	9521.840	9637.185	9621.289	9636.604	9571.208	9621.848	9548.872	9498.689	9525.444	9502.621
<b>20</b>	4256.308	4320.368	4296.688	4400.540	4318.692	4335.324	4370.608	4271.656	4338.132	4306.476
<b>25</b>	2991.636	2908.532	3002.112	3016.488	2953.636	2926.836	2971.180	3008.288	3052.336	2940.352
<b>30</b>	2084.592	2036.260	2013.040	2086.200	2093.176	2140.632	2168.568	2298.828	2365.636	2384.944
<b>35</b>	1244.108	1212.992	1249.464	1261.240	1190.060	1173.180	1108.024	1007.820	963.416	920.660
<b>40</b>	495.804	503.324	469.228	428.720	368.744	318.740	303.192	310.936	320.932	307.500
<b>45</b>	44.512	44.564	42.732	50.832	48.648	44.864	45.332	50.184	47.460	45.064
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## 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>	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154	28109.154
<b>5</b>	24368.144	24302.316	24530.377	24061.880	24518.413	24135.557	24222.708	24365.864	24064.632
<b>10</b>	17801.316	17909.185	17942.228	18065.908	17906.752	17842.021	18099.695	17985.405	17867.116
<b>15</b>	9465.668	9507.416	9419.332	9665.880	9390.672	9495.636	9612.436	9517.544	9394.800
<b>20</b>	4382.356	4386.424	4375.196	4321.676	4290.096	4257.712	4403.236	4437.628	4273.300
<b>25</b>	3046.840	3011.028	2997.564	3006.924	2947.836	2927.264	2978.004	2938.048	3046.936
<b>30</b>	2390.932	2343.808	2238.036	2198.456	2136.012	2024.012	2080.456	2074.424	2111.068
<b>35</b>	950.056	1010.420	1115.588	1141.872	1228.320	1195.688	1212.376	1212.096	1212.460
<b>40</b>	315.836	314.424	310.184	317.964	353.364	420.468	456.564	490.788	500.652
<b>45</b>	49.560	48.416	47.524	48.020	45.476	46.452	41.824	40.796	47.052
<b>50</b>	0.000	0.124	0.000	0.000	0.124	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_43 ~ C1320YKFSXT-80LXXK-NDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4914.37	N.A.	68.60
0-30	6334.53	N.A.	88.40
0-40	7073.76	N.A.	98.80
0-60	7161.74	N.A.	100.00
0-80	7161.74	N.A.	100.00
0-90	7161.74	N.A.	100.00
10-90	5022.52	N.A.	70.10
20-40	2159.4	N.A.	30.20
20-50	2247.37	N.A.	31.40
40-70	87.98	N.A.	1.20
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	7161.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2139.22
10-20	2775.15
20-30	1420.17
30-40	739.23
40-50	87.98
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
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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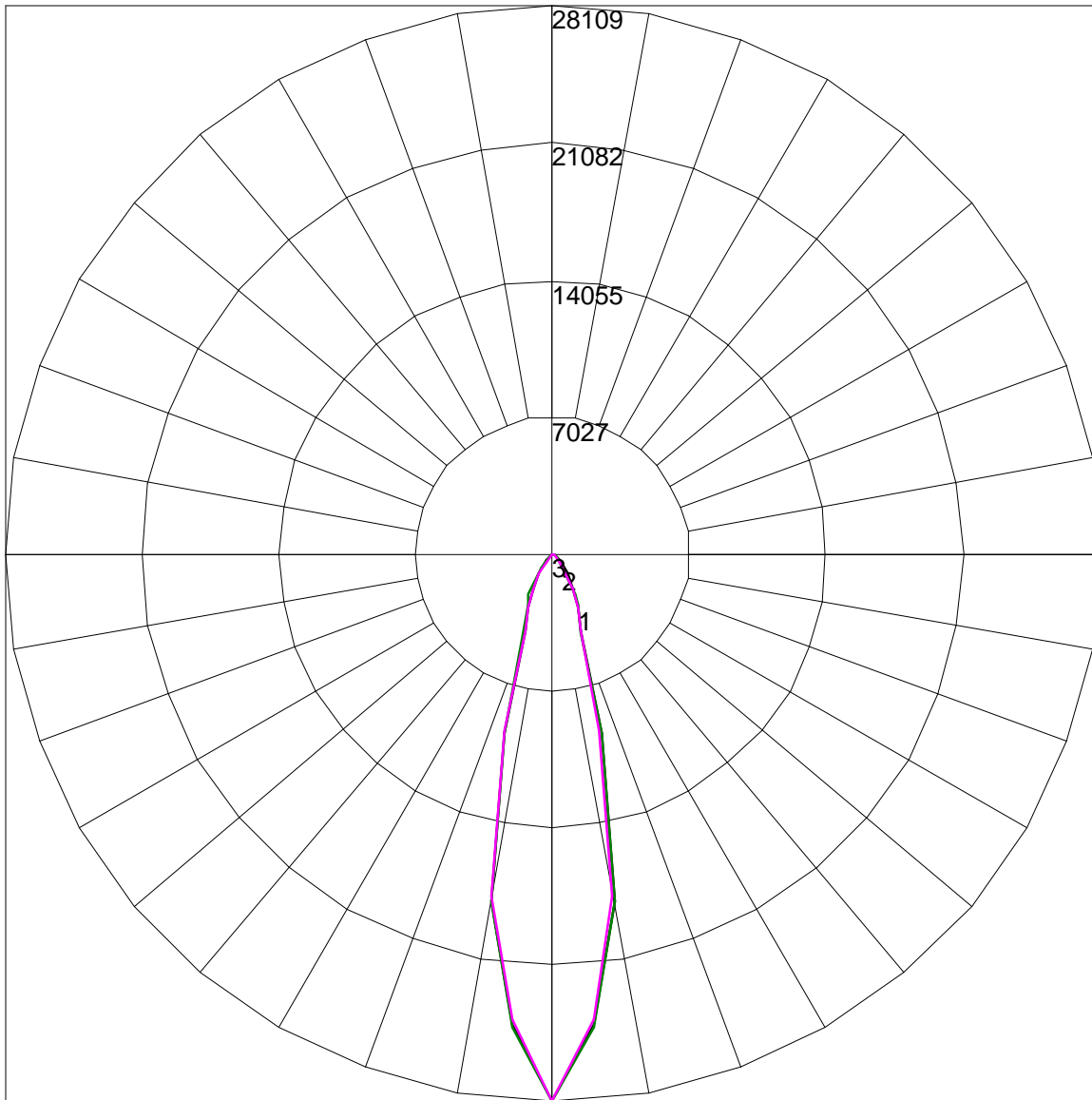
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	85	82	79	78
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	82	79	77	75
8	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73
9	87	80	75	72	86	79	75	72	78	74	72	78	74	72	77	74	71	70
10	84	77	73	70	84	77	72	70	76	72	69	75	72	69	75	71	69	68

POLAR GRAPH



Maximum Candela = 28109.154 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)