

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_47 ~ C1320YKFSXT-80LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_47_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-WD-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Wide 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] 53.1 Degree Beam Angle, 87.9 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	6234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
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_47 ~ C1320YKFSXT-80LXXK-WDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4819	8583	5070
55	288	168	339
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>
0	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489
5	6671.900	6700.808	6630.664	6845.036	6598.720	6548.484	6896.308	6781.768	6725.508	6663.400
10	7300.816	7320.389	7331.660	7441.644	7285.521	7338.312	7328.808	7401.632	7429.760	7291.380
15	6883.580	6699.884	6693.096	6750.836	6807.253	6786.500	6821.948	6666.396	6712.612	6792.904
20	5626.068	5587.428	5606.792	5555.896	5637.096	5541.940	5565.712	5496.292	5693.180	5546.212
25	4169.872	4248.664	4195.268	4196.244	4148.684	4253.644	4259.776	4237.524	4218.716	4192.076
30	2766.792	2789.472	2801.304	2847.376	2854.624	2919.012	3029.040	3090.992	3150.960	3134.960
35	2080.964	2042.020	2074.124	2098.192	1993.280	1963.100	1791.328	1662.272	1601.544	1621.588
40	1530.036	1488.012	1337.064	1244.756	1116.448	1112.468	1110.124	1075.288	1060.332	1116.008
45	388.844	440.464	536.032	640.900	690.316	697.152	708.912	677.436	709.824	692.620
50	154.216	145.108	144.556	147.908	162.636	205.880	245.756	274.836	284.680	297.080
55	18.852	23.020	21.260	21.020	19.692	19.256	16.672	14.728	15.028	10.968
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	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>
0	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489	6836.489
5	6754.192	6575.904	6705.716	6714.221	6634.372	6741.876	6597.448	6773.664	6744.036
10	7261.089	7255.653	7235.308	7361.280	7306.864	7381.428	7323.712	7238.860	7341.748
15	6661.048	6734.728	6662.860	6765.744	6730.908	6792.632	6807.604	6735.916	6897.148
20	5491.136	5583.924	5606.568	5607.400	5558.652	5640.568	5575.620	5527.908	5487.704
25	4219.716	4255.588	4306.968	4246.452	4193.016	4134.040	4208.284	4291.596	4272.548
30	3183.560	3087.896	3023.232	2890.204	2821.904	2720.524	2786.972	2751.816	2724.348
35	1634.504	1676.852	1759.096	1895.632	2037.580	2083.508	2059.628	2044.572	2070.072
40	1096.532	1084.920	1082.524	1104.204	1143.912	1243.552	1352.792	1441.888	1531.396
45	693.440	688.276	680.292	690.984	697.088	616.584	542.728	434.168	409.132
50	281.572	281.720	251.076	212.144	168.736	147.472	131.008	137.108	134.824
55	16.484	14.744	17.384	21.336	23.024	20.272	26.372	23.700	22.176
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2514.47	N.A.	40.30
0-30	4446.88	N.A.	71.30
0-40	5674.26	N.A.	91.00
0-60	6233.62	N.A.	100.00
0-80	6233.62	N.A.	100.00
0-90	6233.62	N.A.	100.00
10-90	5570.08	N.A.	89.40
20-40	3159.79	N.A.	50.70
20-50	3666.28	N.A.	58.80
40-70	559.36	N.A.	9.00
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	6233.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	663.54
10-20	1850.93
20-30	1932.41
30-40	1227.38
40-50	506.49
50-60	52.87
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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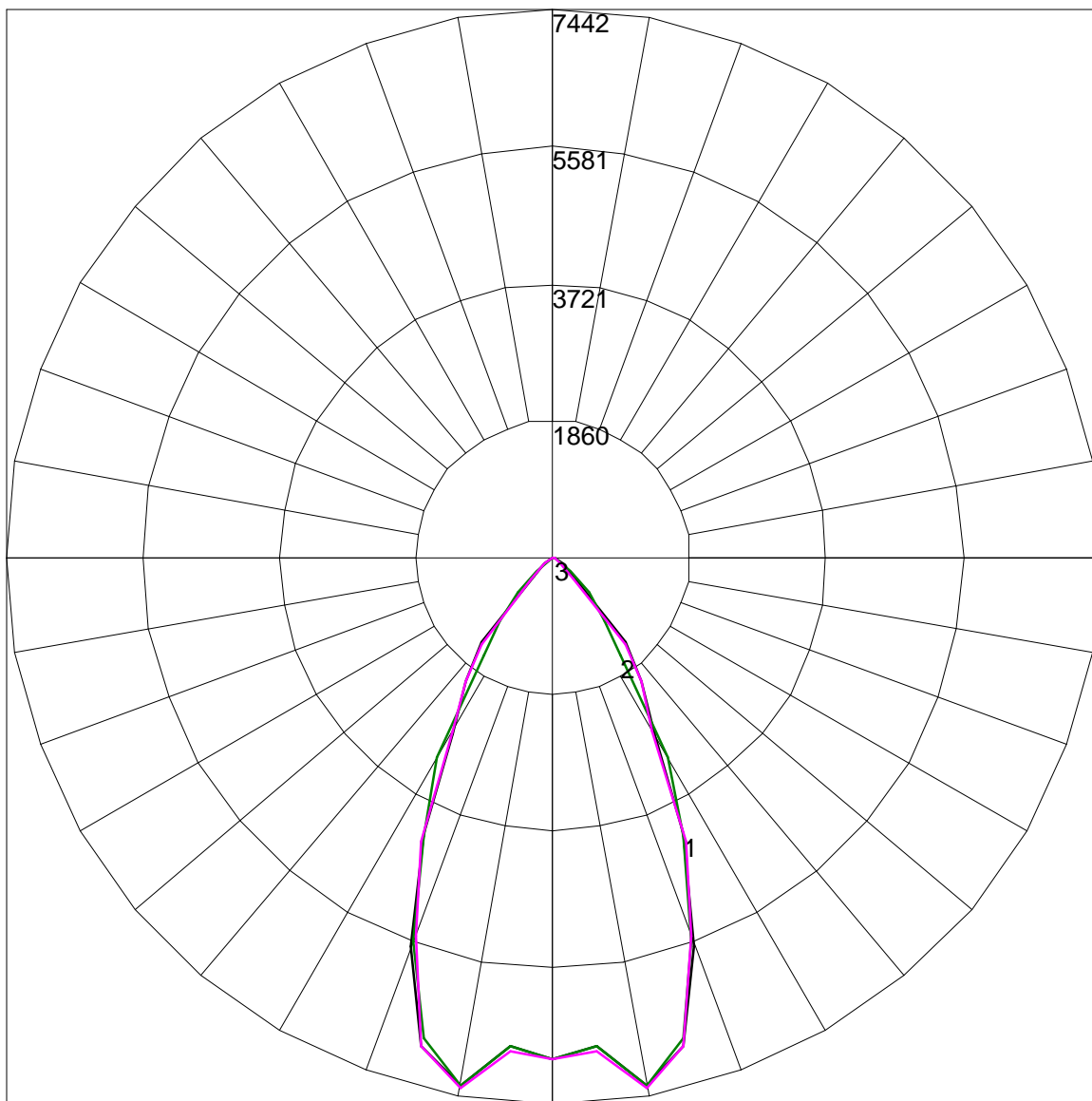
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	53	51

POLAR GRAPH



Maximum Candela = 7441.644 Located At Horizontal Angle = 15, Vertical Angle = 10

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

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

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