

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_49 ~ C1320YKSSXT-80LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_49_M-80L

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

[ISSUEDATE]

[TESTDATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-80L-xxK-WD-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Wide Beam

[OTHER] Integral Straight 3" Matte Black (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] 44.2 Degree Beam Angle, 75.6 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	4828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.68
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	4004	2468	3701
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>
0	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336
5	6672.172	6647.648	6825.380	6778.108	6641.412	6815.089	6678.616	6733.644	6746.716	6761.864
10	7281.316	7430.604	7392.264	7428.321	7342.048	7347.776	7319.104	7281.236	7237.396	7361.953
15	6625.668	6546.444	6674.828	6588.264	6555.880	6598.036	6688.688	6569.548	6663.072	6709.004
20	4500.096	4547.572	4607.532	4671.820	4747.060	4797.152	4772.412	4748.672	4838.348	4819.208
25	3296.324	3218.204	3119.636	3092.656	3003.600	2839.944	2674.604	2550.668	2424.160	2439.656
30	2193.732	2133.684	1955.760	1797.972	1673.752	1650.020	1655.556	1713.280	1642.040	1694.416
35	827.064	873.488	1068.316	1199.660	1272.428	1312.732	1349.032	1311.636	1302.012	1322.552
40	547.492	543.940	521.832	558.260	606.060	692.752	842.648	988.960	1064.988	1050.520
45	323.080	351.800	317.848	338.300	336.404	289.420	273.688	232.688	198.128	199.176
50	37.536	38.956	28.556	18.404	9.888	1.212	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336	6851.336
5	6667.012	6750.421	6658.632	6673.204	6702.620	6570.732	6763.940	6815.585	6685.112
10	7298.412	7286.016	7400.176	7145.668	7421.872	7395.085	7320.460	7328.704	7232.704
15	6712.325	6676.024	6648.472	6586.296	6591.352	6617.412	6566.024	6548.848	6533.148
20	4864.040	4831.548	4707.500	4755.852	4640.284	4587.148	4632.976	4582.076	4638.660
25	2416.864	2534.360	2651.380	2797.156	3033.156	3086.336	3232.716	3161.816	3270.064
30	1683.356	1739.964	1699.196	1687.520	1778.844	1806.820	1966.688	2129.424	2269.424
35	1303.120	1312.516	1291.212	1341.380	1253.484	1212.572	1054.596	899.832	802.708
40	1014.408	964.224	833.536	692.492	590.812	550.612	543.632	556.476	518.768
45	209.444	217.096	270.300	307.232	325.212	344.140	349.012	323.852	298.616
50	0.000	0.000	0.000	2.476	8.232	17.176	28.988	37.952	37.472
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2425.67	N.A.	50.20
0-30	3811.72	N.A.	78.90
0-40	4575.72	N.A.	94.80
0-60	4828.08	N.A.	100.00
0-80	4828.08	N.A.	100.00
0-90	4828.08	N.A.	100.00
10-90	4163.25	N.A.	86.20
20-40	2150.05	N.A.	44.50
20-50	2399.63	N.A.	49.70
40-70	252.35	N.A.	5.20
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	4828.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	664.83
10-20	1760.85
20-30	1386.05
30-40	764.00
40-50	249.58
50-60	2.77
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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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

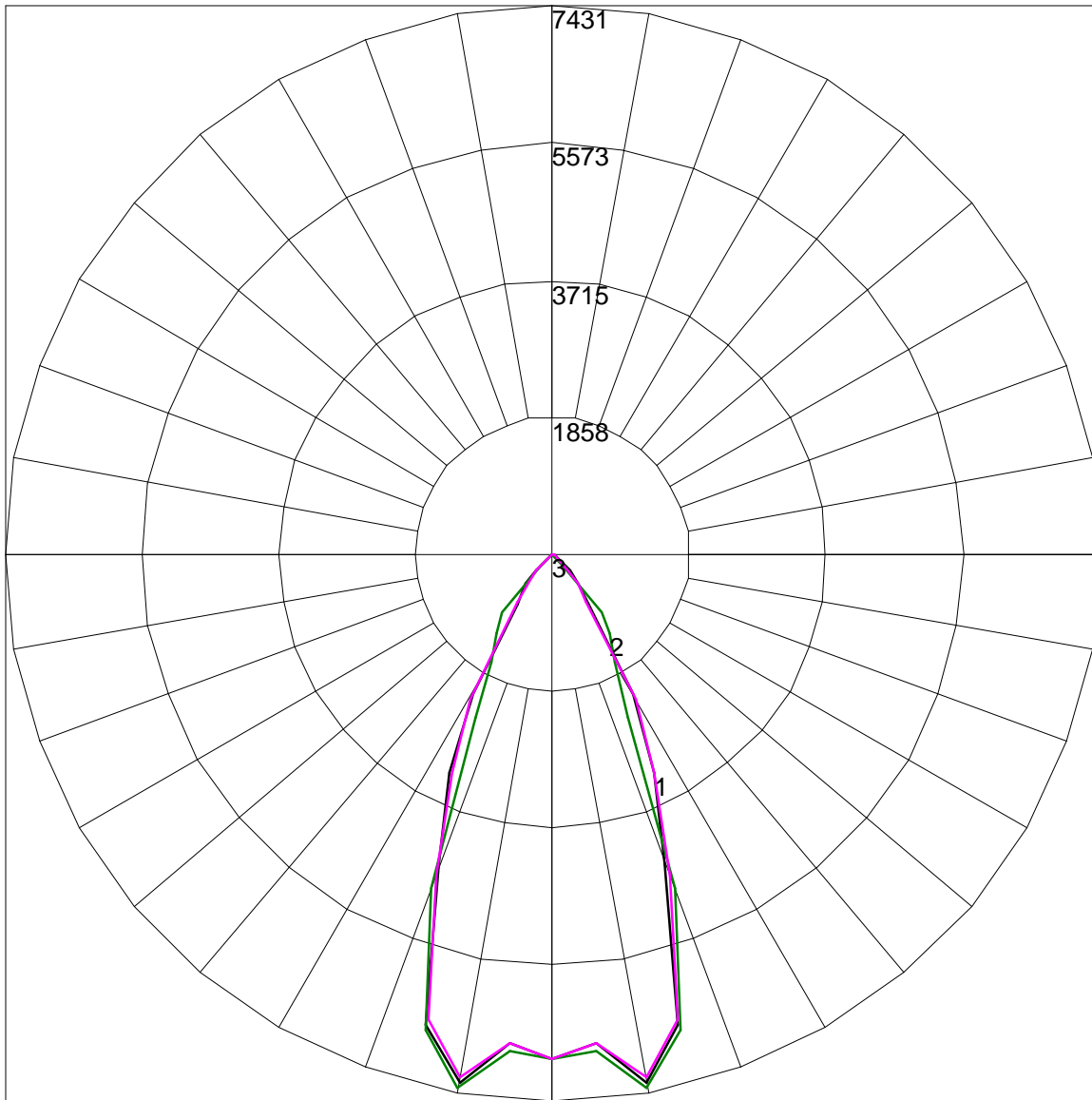
Effective Floor Cavity Reflectance 0.20

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	77	72	68	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	61	58	56

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POLAR GRAPH



Maximum Candela = 7430.604 Located At Horizontal Angle = 5, 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)