

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_53 ~ C1320YKSSXT-80LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_53_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-XW-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra 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] 46.8 Degree Beam Angle, 77.4 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	5022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.72
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_53 ~ C1320YKSSXT-80LXXK-XWEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3932	2514	3970
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	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932
5	7458.268	7333.448	7372.360	7483.489	7417.685	7461.700	7273.425	7505.485	7300.200	7433.012
10	7116.260	7019.925	6938.840	6978.696	7005.896	6921.912	6857.521	7014.512	6968.892	6964.608
15	6283.572	6362.816	6364.704	6294.476	6264.432	6248.096	6379.596	6297.396	6425.788	6395.940
20	4738.972	4664.788	4623.252	4656.864	4755.524	4743.168	4827.536	4853.096	4841.472	4879.216
25	3550.800	3505.300	3491.256	3516.328	3435.632	3249.608	3105.336	2953.100	2930.132	2880.548
30	2486.448	2427.680	2239.920	2140.448	2045.200	1927.276	1967.164	1970.652	1950.612	1964.584
35	1078.808	1095.240	1251.112	1350.240	1435.468	1441.056	1484.640	1454.332	1440.112	1399.648
40	548.452	605.708	552.756	574.868	617.860	746.152	856.124	958.896	1052.644	1067.116
45	317.316	306.400	310.508	299.592	319.680	298.704	275.028	226.860	217.664	202.824
50	32.816	40.480	30.692	20.812	7.212	1.224	0.124	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	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932	7357.932
5	7288.500	7323.392	7470.360	7465.080	7550.696	7466.757	7494.060	7489.236	7339.080
10	6976.740	6988.968	7014.412	6978.364	7077.644	6984.580	6871.421	7014.676	6926.412
15	6338.224	6366.928	6274.008	6291.228	6308.096	6308.212	6355.924	6253.664	6394.192
20	4838.996	4835.684	4800.096	4667.408	4719.112	4663.296	4557.856	4629.300	4612.148
25	2881.840	2950.988	3031.384	3270.616	3373.232	3581.196	3516.264	3543.512	3517.680
30	1932.776	1970.872	1964.948	1955.064	2026.852	2126.176	2228.144	2429.856	2419.576
35	1413.056	1396.364	1489.652	1481.636	1426.568	1369.244	1245.056	1068.324	1094.996
40	1044.208	949.384	867.948	708.004	648.148	615.356	570.540	582.204	589.044
45	206.544	225.292	263.112	302.620	314.504	322.260	315.056	312.828	320.320
50	0.000	0.000	0.000	0.872	9.100	20.120	27.972	35.924	41.556
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	2392.39	N.A.	47.60
0-30	3909.6	N.A.	77.80
0-40	4768.67	N.A.	95.00
0-60	5022.21	N.A.	100.00
0-80	5022.21	N.A.	100.00
0-90	5022.21	N.A.	100.00
10-90	4330.58	N.A.	86.20
20-40	2376.27	N.A.	47.30
20-50	2627.02	N.A.	52.30
40-70	253.55	N.A.	5.00
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	5022.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	691.63
10-20	1700.76
20-30	1517.21
30-40	859.06
40-50	250.75
50-60	2.80
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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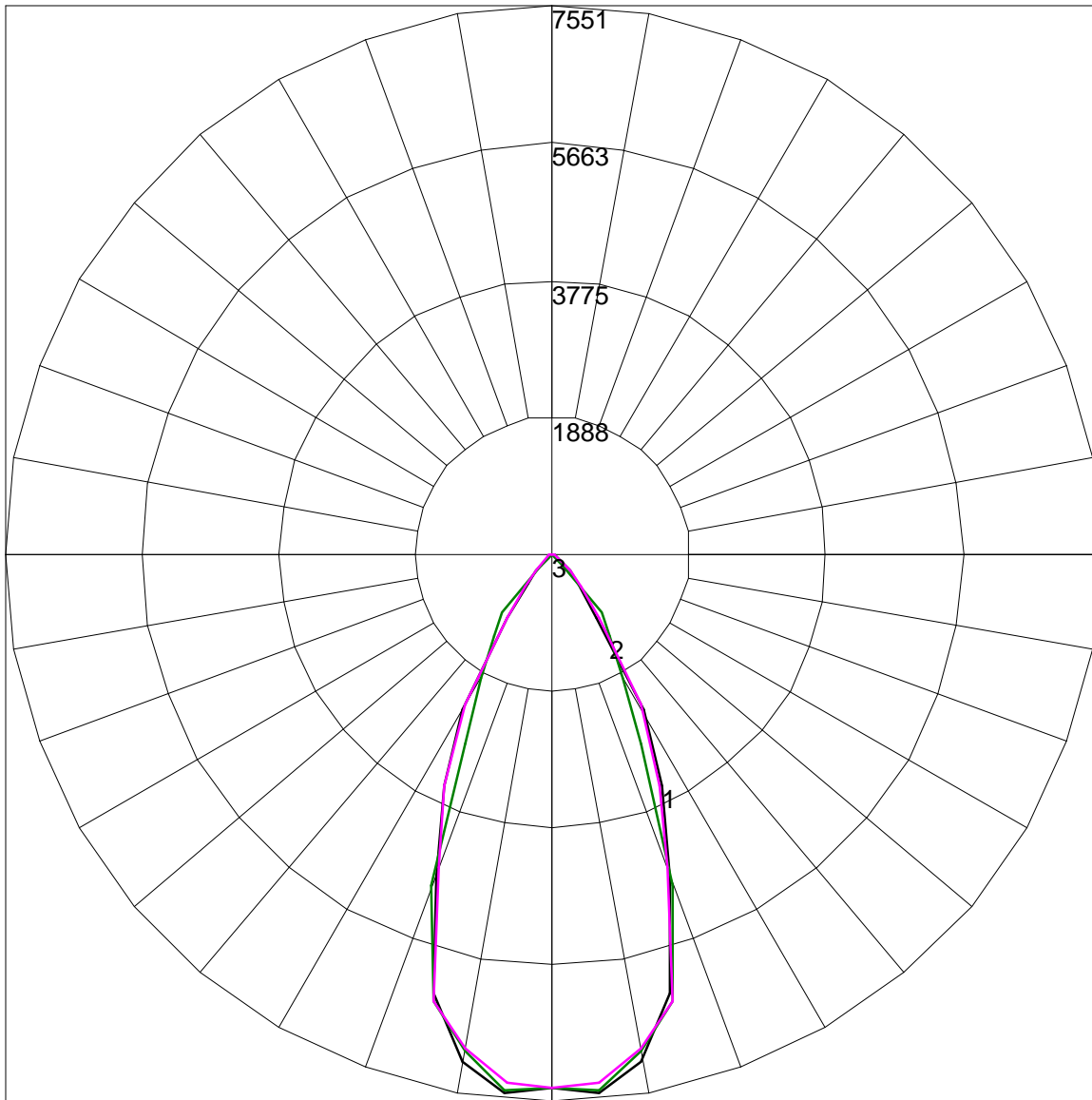
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66
8	82	74	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62
9	79	70	64	61	78	69	64	61	68	64	60	68	63	60	67	63	60	59
10	75	66	61	57	75	66	61	57	65	61	57	65	60	57	64	60	57	56

POLAR GRAPH



Maximum Candela = 7550.696 Located At Horizontal Angle = 70, 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)