

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_38 ~ C1320YKFSXT-52LXXK-XNEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_38_M-52L

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

[ISSUE DATE]

[TEST DATE] 10/16/2017

[UPDATE] 11/03/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-52L-xxK-XN-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Narrow 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] 11.7 Degree Beam Angle, 21.7 Degree Field Angle

[LAMP] N/A, 9mm

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] XN available for 52L and 80L versions only

[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 80L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3842
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	73.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
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_38 ~ C1320YKFSXT-52LXXK-XNEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	394	401	448
55	379	429	380
65	343	340	320
75	374	375	323
85	371	314	335

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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	43288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984
5	25235.3452	5320.0482	5170.9042	5172.7702	5169.9952	4974.9042	5308.0662	5260.9362	5413.3942	5436.650
10	4513.158	4596.722	4622.813	4679.447	5189.223	5961.813	6570.752	6678.249	6705.569	6658.080
15	1800.337	1797.360	1823.315	1859.260	1828.794	1859.663	1909.212	1913.749	1954.452	1888.965
20	1468.636	1449.792	1471.405	1504.737	1451.079	1446.341	1460.290	1477.255	1489.702	1459.107
25	1374.347	1346.702	1353.248	1377.597	1345.656	1403.876	1381.061	1416.870	1402.856	1396.759
30	1192.704	1214.018	1212.243	1232.010	1234.181	1273.603	1271.101	1263.008	1310.881	1304.914
35	829.107	850.531	840.437	838.597	848.536	838.058	834.333	854.841	838.656	828.639
40	117.403	116.577	110.259	109.661	114.484	128.173	128.225	127.556	130.409	130.689
45	31.791	33.566	35.594	33.800	33.650	33.676	37.063	32.253	33.052	32.396
50	26.702	28.600	29.022	29.893	29.783	28.535	29.854	30.875	28.606	29.055
55	24.797	23.783	24.245	25.941	25.252	28.268	26.929	28.574	28.392	28.106
60	20.709	19.220	21.203	20.845	22.100	20.767	22.048	21.450	20.891	20.709
65	16.529	15.346	15.385	16.081	16.425	16.874	16.945	18.193	18.219	16.406
70	12.337	12.564	14.189	13.487	12.077	12.811	12.980	15.151	12.395	12.668
75	11.037	10.367	10.211	10.328	9.665	11.869	9.828	10.484	11.076	11.076
80	6.461	7.286	6.630	7.475	7.501	6.825	6.812	6.292	6.311	7.254
85	3.692	3.003	2.970	3.016	2.340	2.951	2.639	3.055	3.237	3.120
90	0.000	0.000	0.084	0.169	0.000	0.084	0.084	0.169	0.169	0.221

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	43288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984	3288.6984
5	25150.0452	5159.6002	5355.2322	4955.7232	5325.5862	5848.2572	6070.8412	6009.1242	5878.561
10	6709.462	6596.791	6626.659	5777.024	5097.300	4700.618	4658.517	4657.315	4622.345
15	1909.381	1892.657	1887.301	1879.059	1843.205	1827.943	1765.965	1781.630	1808.579
20	1498.965	1457.865	1469.962	1460.829	1491.587	1473.946	1469.637	1460.140	1457.605
25	1393.931	1381.412	1402.310	1402.687	1384.727	1416.779	1393.242	1381.815	1367.775
30	1274.851	1273.642	1257.665	1268.956	1229.702	1219.283	1187.036	1195.278	1238.692
35	838.623	842.302	843.362	850.941	854.431	839.702	827.651	837.252	812.162
40	131.449	129.031	130.429	121.621	110.233	111.429	111.312	111.241	121.095
45	33.585	32.981	33.150	30.901	34.105	31.193	33.904	35.854	36.172
50	31.681	30.803	30.394	29.880	30.186	27.924	29.867	27.800	29.237
55	28.385	26.390	27.150	26.520	26.708	24.778	23.393	25.701	24.901
60	19.805	20.280	19.318	19.987	19.558	19.779	21.372	20.878	23.016
65	16.386	16.763	16.913	16.217	15.353	14.774	15.398	17.043	15.418
70	12.629	12.772	12.590	12.759	11.225	11.420	12.961	12.389	12.980
75	11.550	9.256	9.503	9.977	9.743	10.270	10.426	9.847	9.548
80	6.402	6.363	5.453	6.584	6.454	6.506	6.688	6.701	6.019
85	3.659	3.302	2.483	3.204	2.990	2.834	2.775	2.580	3.328
90	0.084	0.084	0.000	0.084	0.169	0.084	0.084	0.136	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2646.55	N.A.	68.90
0-30	3279.28	N.A.	85.40
0-40	3746.95	N.A.	97.50
0-60	3811.24	N.A.	99.20
0-80	3838.2	N.A.	99.90
0-90	3841.66	N.A.	100.00
10-90	1912.47	N.A.	49.80
20-40	1100.4	N.A.	28.60
20-50	1141.71	N.A.	29.70
40-70	80.68	N.A.	2.10
60-80	26.96	N.A.	0.70
70-80	10.58	N.A.	0.30
80-90	3.46	N.A.	0.10
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	3841.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1929.19
10-20	717.36
20-30	632.73
30-40	467.67
40-50	41.31
50-60	22.99
60-70	16.38
70-80	10.58
80-90	3.46
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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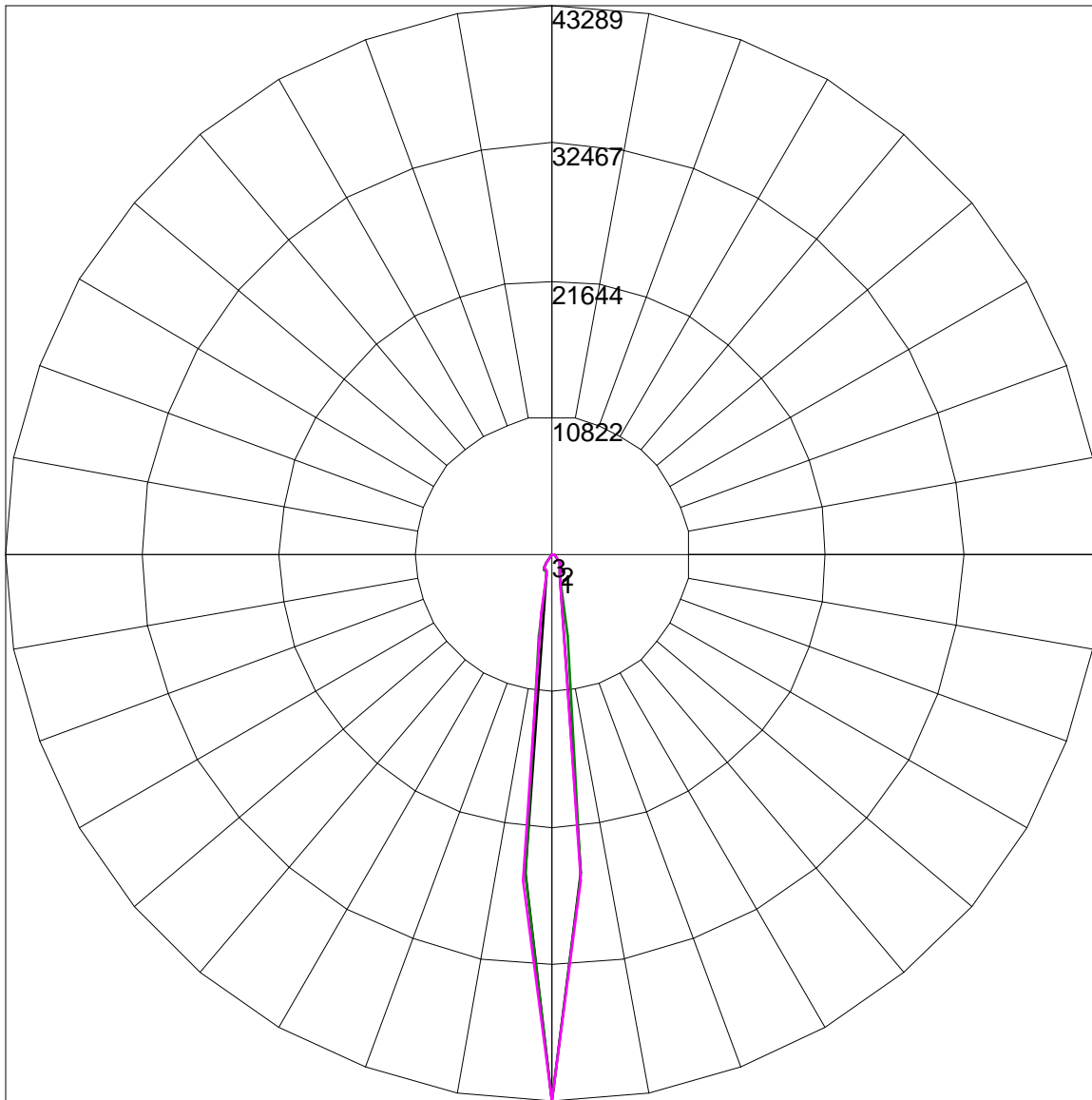
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	99	95	91	102	97	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	88	85	83	87	85	83	82
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	82	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	78	76	75
10	88	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	75	74

POLAR GRAPH



Maximum Candela = 43288.698 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)