

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_42 ~ C1320YKFSXT-160LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_42_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-160L-xxK-ND-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, 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] 24.6 Degree Beam Angle, 52.2 Degree Field Angle

[LAMPCAT] LED 4000lm

[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	14330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	159.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2181	2271	2337
55	1197	1368	1397
65	1562	1700	1398
75	2047	2005	2108
85	1533	1430	1315

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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	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261
5	47324.876	46933.448	47569.606	46957.372	47208.359	47872.177	47493.154	47383.251	47406.974	47619.361
10	34887.568	34843.862	34608.642	35105.677	35372.229	35251.508	35024.683	34951.656	35164.699	35116.766
15	18787.822	18506.380	18880.222	18736.133	18546.166	18626.383	18500.343	18834.854	18384.650	18709.875
20	8659.689	8408.169	8503.456	8460.305	8706.498	8566.234	8477.692	8450.411	8539.485	8484.037
25	5911.159	5897.676	5792.564	5854.980	5750.190	5814.439	5833.990	5842.282	5793.133	5815.086
30	4071.390	4020.709	4094.021	4186.628	4222.857	4306.410	4454.427	4526.537	4692.696	4617.274
35	2363.461	2500.175	2446.044	2472.932	2464.539	2398.981	2097.988	1990.727	1826.509	1804.064
40	1071.016	1039.492	960.228	878.978	745.021	714.922	679.995	681.127	700.430	700.869
45	176.014	165.789	186.725	184.030	176.507	179.587	184.523	180.357	181.912	183.252
50	84.900	84.461	80.357	86.132	91.576	83.391	86.432	89.828	97.382	89.212
55	78.347	82.706	84.615	84.854	86.063	85.763	89.605	98.290	85.909	89.536
60	80.496	84.969	81.997	88.627	78.463	83.229	80.650	88.165	85.008	83.899
65	75.321	78.956	78.686	82.382	75.753	82.798	80.388	84.746	80.534	81.966
70	74.551	72.334	72.726	71.287	80.018	72.803	75.452	78.371	79.425	76.492
75	60.460	53.153	60.984	59.159	63.610	63.417	58.304	60.329	62.616	59.213
80	44.167	42.050	44.568	39.031	42.358	39.801	39.747	35.713	39.701	38.508
85	15.246	16.432	15.870	14.861	14.769	16.039	19.181	16.878	15.777	14.222
90	0.701	1.679	0.585	0.354	0.662	0.916	0.000	0.354	0.000	1.301

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	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261	55082.261
5	46860.406	47325.393	47732.930	47129.605	47515.574	47589.371	46852.505	46868.858	47859.033
10	34781.200	35292.673	34820.085	35503.836	35354.765	34941.769	35311.661	34992.911	35049.945
15	18742.562	18665.478	18568.781	18740.637	18606.472	18547.636	18612.771	18684.627	18510.784
20	8399.175	8557.787	8294.270	8447.770	8524.947	8570.716	8451.574	8559.635	8580.218
25	5835.114	5903.844	5943.014	5831.518	5858.114	5737.077	5867.939	5786.250	5966.191
30	4536.755	4542.430	4350.970	4195.876	4188.392	4131.212	3997.578	3968.749	4038.388
35	1874.103	2004.279	2124.199	2254.945	2453.374	2466.171	2422.227	2473.671	2486.607
40	695.364	712.227	697.166	673.334	776.006	889.065	1007.121	1041.771	1039.739
45	184.908	184.569	176.284	180.157	177.369	178.324	187.972	174.143	188.550
50	87.341	88.288	91.953	94.063	91.692	91.314	85.424	82.875	85.416
55	83.168	86.332	88.088	80.888	87.603	88.242	87.749	85.139	91.437
60	87.364	82.067	89.305	92.038	82.659	81.851	80.588	82.236	80.704
65	90.729	78.886	81.135	78.848	77.177	75.414	76.715	73.573	67.437
70	74.020	77.639	80.149	68.907	69.300	75.891	69.338	65.026	65.550
75	57.196	62.224	60.014	62.139	60.969	59.706	55.648	61.800	62.262
80	36.567	35.897	41.241	43.089	39.208	39.863	45.099	43.851	47.555
85	15.469	16.001	16.570	14.745	16.486	17.140	13.698	14.876	13.075
90	0.701	0.000	0.123	0.000	0.300	0.354	0.701	0.708	0.601

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Zone	Lumens	%Lamp	%Fixt
0-20	9595.76	N.A.	67.00
0-30	12380.61	N.A.	86.40
0-40	13853.77	N.A.	96.70
0-60	14169.62	N.A.	98.90
0-80	14310.17	N.A.	99.90
0-90	14329.95	N.A.	100.00
10-90	10157.72	N.A.	70.90
20-40	4258.01	N.A.	29.70
20-50	4496.4	N.A.	31.40
40-70	394.43	N.A.	2.80
60-80	140.55	N.A.	1.00
70-80	61.98	N.A.	0.40
80-90	19.78	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	14329.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4172.23
10-20	5423.53
20-30	2784.86
30-40	1473.16
40-50	238.38
50-60	77.47
60-70	78.57
70-80	61.98
80-90	19.78
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

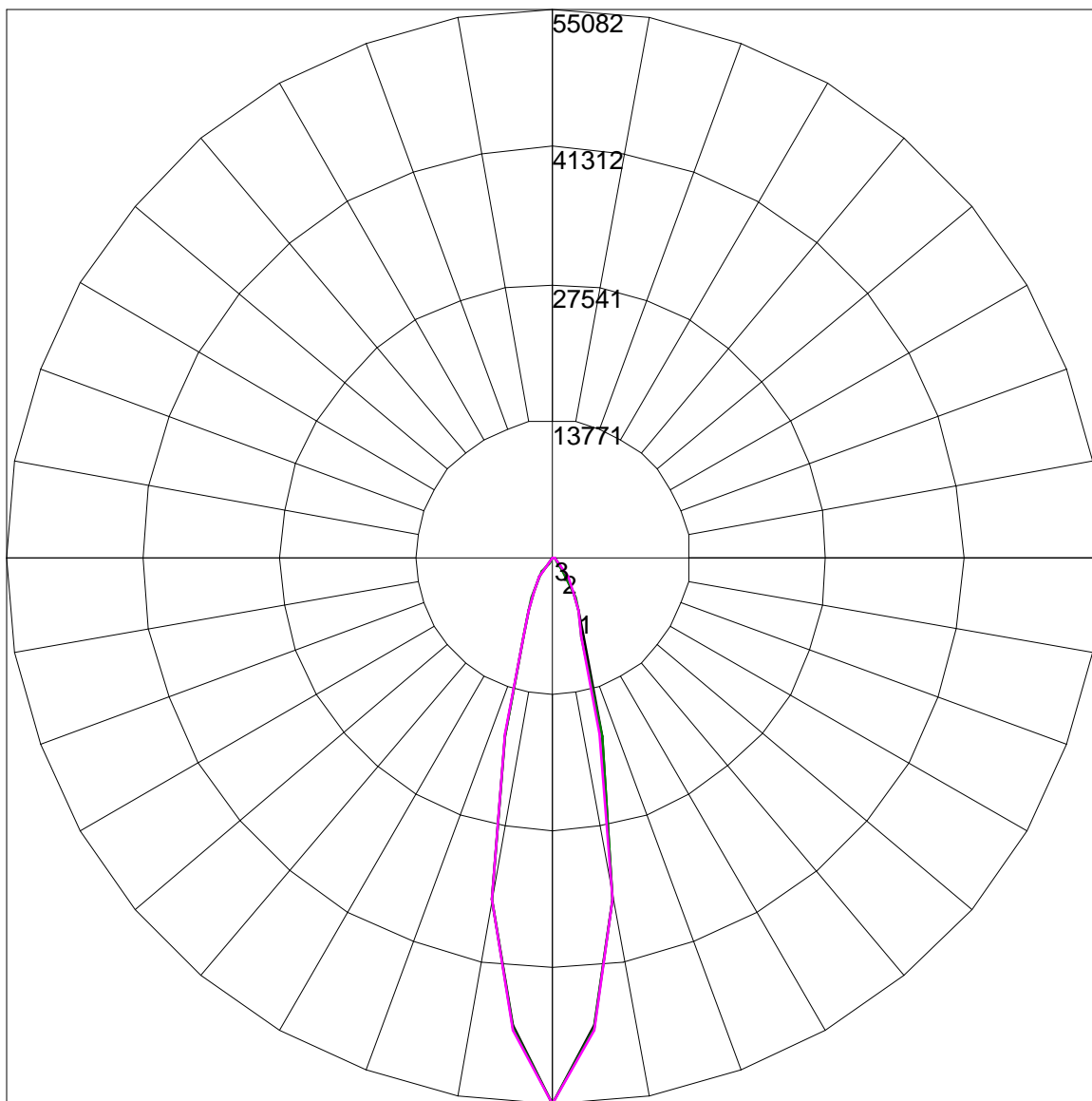
Effective Floor Cavity Reflectance 0.20

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	84	97	91	86	83	89	85	83	88	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	85	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 55082.261 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)