

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-160LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_35_M-160L

[TESTLAB] Photopia 2017.2.0 see: www.ltiopics.com/ies

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/01/2017

[UPDATE] 11/07/2017

[LUMCAT] C1320YKSSXT-160L-xxK-MD-EX-MWI

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

[OTHER] Integral Straight 3" Matte White (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] 37.2 Degree Beam Angle, 74.9 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 120L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-160LXXK-MDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26835	16654	22608
55	10776	10562	11270
65	11925	11723	12424
75	11478	10317	9340
85	7981	6991	6386

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-160LXXK-MDEX-MWI.IES

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	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461
5	18244.320	18741.711	18087.910	18048.260	18517.760	18417.520	18788.150	18203.270	18060.881	18084.590
10	15709.380	16041.200	15885.570	15748.540	16497.961	16321.040	16304.020	16075.580	15302.250	16461.350
15	11819.150	11758.730	11584.820	11677.020	11501.950	11581.320	11682.930	12072.580	11964.670	11752.720
20	9511.148	9100.268	8809.335	8928.012	8865.568	8863.541	8692.094	9006.955	9064.600	8405.318
25	7163.053	7073.808	6805.006	6917.128	6393.651	5847.003	5639.106	5663.688	5560.779	5017.851
30	4787.078	4903.331	4385.884	4392.415	4035.766	4063.133	3660.963	3843.842	3813.076	3786.903
35	1894.580	2208.582	2642.749	2821.202	3050.987	2903.698	3164.327	2988.171	2869.571	3011.162
40	1739.479	1766.024	1742.891	1778.264	1742.802	1990.356	2286.409	2415.299	2476.280	2731.007
45	1625.420	1498.967	1423.848	1286.644	1460.888	1211.498	1188.956	1060.951	1037.331	1008.759
50	709.024	697.285	692.589	628.542	617.097	579.634	541.760	573.796	522.733	566.226
55	529.456	555.898	546.789	585.997	551.575	571.833	546.853	533.163	511.211	518.961
60	526.620	540.361	523.182	515.740	488.271	496.059	476.006	460.482	521.424	456.953
65	431.717	414.255	397.409	430.934	432.089	429.677	440.531	435.527	431.486	424.404
70	321.969	314.694	350.144	312.795	336.723	312.090	338.532	330.886	316.965	313.373
75	254.483	220.458	217.815	242.012	263.875	216.801	259.102	211.336	249.851	228.733
80	134.394	147.353	137.833	123.155	128.852	132.944	124.259	132.996	156.128	132.136
85	59.583	46.547	44.546	35.218	47.022	41.454	46.983	43.596	45.174	52.192
90	0.000	0.706	0.269	0.795	0.346	1.001	2.912	0.295	0.295	0.000

Vert. 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	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461	20304.461
5	18119.650	18749.109	18072.260	19255.660	18473.039	18532.551	18097.641	18565.699	18916.631
10	16235.160	15639.590	15871.570	15989.580	15783.990	16301.750	16051.140	15483.230	16656.061
15	11385.050	11846.540	12344.270	12132.150	11946.510	11754.870	11343.980	11984.700	11472.770
20	8125.573	8556.430	8739.154	8839.985	8758.784	9239.589	8629.548	9270.509	9352.146
25	5316.200	5445.026	5895.988	6189.153	6550.010	6885.155	7112.644	6693.065	7197.681
30	3760.050	3611.453	3559.748	3937.501	3676.873	4131.029	4341.698	5122.621	5095.191
35	2926.164	3013.408	2918.786	2936.530	3022.556	2860.461	2468.813	2289.462	2209.352
40	2617.564	2326.913	2251.947	2004.482	1898.648	1656.969	1753.643	1483.995	1821.937
45	1070.009	1130.028	1230.371	1331.036	1391.349	1413.237	1356.926	1424.130	1369.384
50	543.081	575.964	524.927	582.931	568.331	579.172	655.408	700.980	719.519
55	542.440	526.813	527.557	553.332	534.549	543.376	542.837	584.599	553.717
60	517.703	462.072	513.559	478.521	532.791	474.992	499.844	499.600	510.044
65	419.284	445.227	436.412	442.224	429.240	427.816	447.433	474.068	449.768
70	320.442	331.065	330.206	368.593	328.717	330.334	329.718	342.574	340.893
75	222.062	230.375	219.252	206.422	217.648	232.954	221.536	219.573	207.076
80	145.659	140.963	134.702	123.553	131.803	145.210	161.902	121.654	122.629
85	47.086	44.725	39.260	35.449	40.735	40.427	38.285	49.947	47.676
90	2.284	0.000	0.565	0.000	0.000	0.231	0.269	0.000	0.192

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-160LXXK-MDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5042.34	N.A.	42.10
0-30	7933.14	N.A.	66.30
0-40	9753.57	N.A.	81.50
0-60	11239.58	N.A.	93.90
0-80	11902.84	N.A.	99.50
0-90	11963.98	N.A.	100.00
10-90	10269.82	N.A.	85.80
20-40	4711.23	N.A.	39.40
20-50	5706.02	N.A.	47.70
40-70	1905.81	N.A.	15.90
60-80	663.26	N.A.	5.50
70-80	243.46	N.A.	2.00
80-90	61.14	N.A.	0.50
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	11963.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1694.17
10-20	3348.17
20-30	2890.8
30-40	1820.43
40-50	994.79
50-60	491.22
60-70	419.81
70-80	243.46
80-90	61.14
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

IES INDOOR REPORT

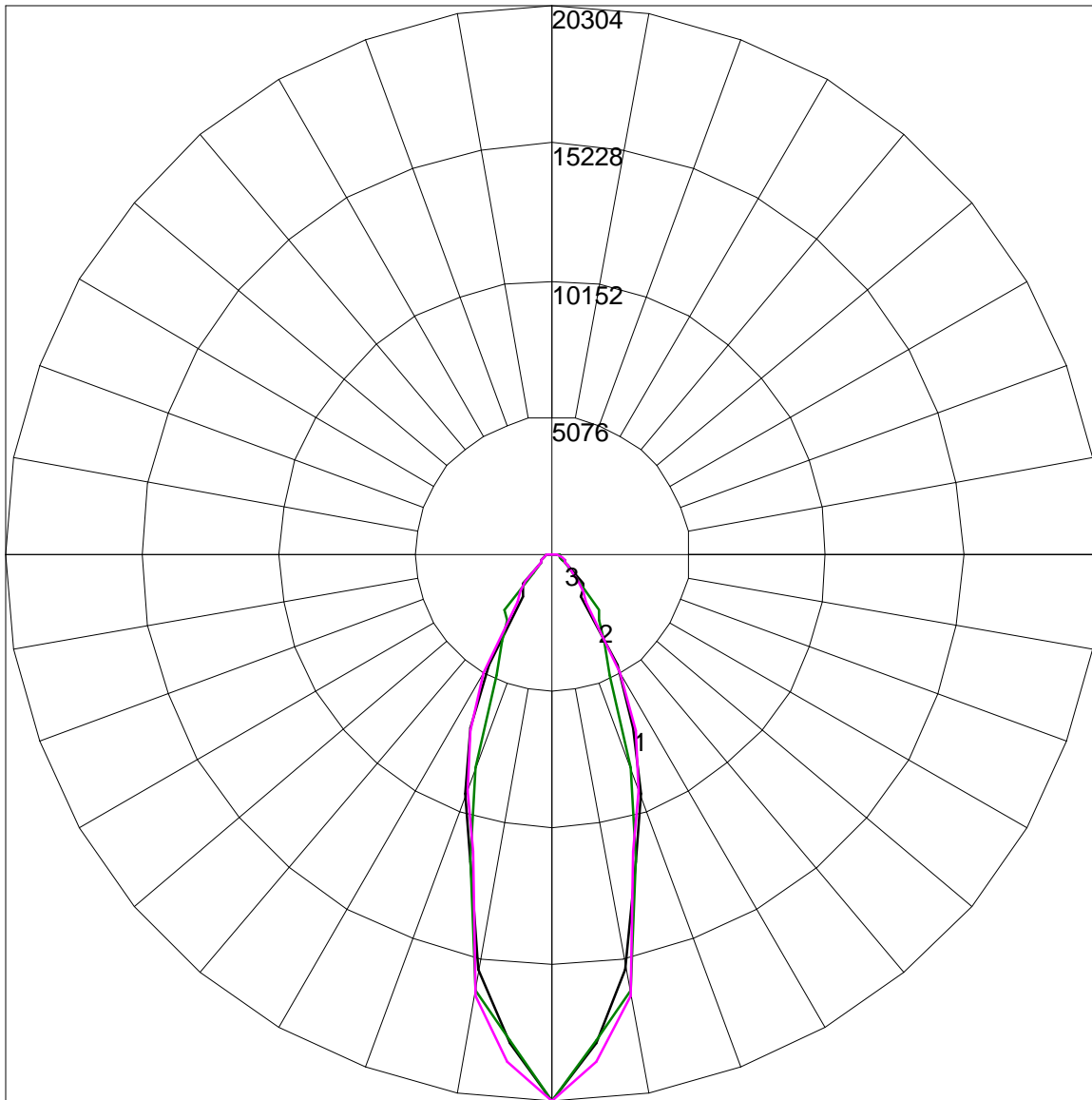
PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-160LXXK-MDEX-MWI.IES

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	58	77	67	61	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

POLAR GRAPH



Maximum Candela = 20304.461 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)