

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-160LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_50_M-160L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide 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] 54.8 Degree Beam Angle, 89.8 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	13812
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.88
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_50 ~ C1320YKFSXT-160LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12689	19137	13174
55	4737	4784	4510
65	4794	4869	5008
75	4867	4951	4828
85	3211	3594	3131

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-160LXXK-XWEX-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	14770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631
5	14903.0261	5276.1301	5173.4051	5160.1221	5289.2731	5127.0271	5030.4391	5222.6601	5148.6491	5467.037
10	14166.3981	4111.4741	4090.7301	4314.6231	4146.1321	4235.0371	4163.1871	4276.1081	4142.3671	4133.411
15	13054.6881	2726.6751	2952.1001	2775.8621	2911.5911	2805.6471	2774.2081	2979.6281	2981.0151	2933.805
20	10809.8681	0832.0131	0934.4001	0769.8431	0765.8551	0694.5841	0833.9461	0757.6161	0715.7511	0781.486
25	8978.408	8959.635	9010.401	9001.138	8922.598	8764.171	8955.985	8909.577	8924.492	8907.352
30	6264.319	6447.579	6466.645	6433.034	6596.089	6548.034	6796.189	6883.122	6945.785	6904.574
35	4837.879	4832.913	4914.024	4851.061	4684.649	4476.826	4211.245	4001.813	3945.465	3942.107
40	3420.941	3267.233	3064.893	2751.318	2598.188	2573.864	2529.535	2571.931	2493.214	2535.633
45	1023.923	1185.292	1352.644	1419.233	1575.243	1576.637	1533.393	1567.551	1506.320	1544.189
50	522.684	540.925	539.554	534.934	572.341	647.131	730.830	774.312	822.614	791.837
55	310.025	308.154	308.524	308.293	312.720	308.770	297.197	323.577	303.511	313.136
60	252.283	257.411	251.713	274.182	267.552	255.209	264.256	251.313	259.590	260.491
65	231.216	229.175	232.586	227.204	234.311	243.281	230.315	249.226	256.395	234.796
70	225.002	215.515	213.136	227.042	207.546	215.446	207.515	214.599	198.529	207.931
75	143.751	151.721	157.172	155.763	149.126	148.056	145.730	145.815	153.854	146.215
80	88.142	91.484	89.820	89.974	88.180	86.794	97.813	89.921	95.734	92.053
85	31.932	34.342	32.178	34.619	33.564	33.472	27.912	33.872	30.446	35.743
90	0.000	2.056	2.649	0.662	1.263	1.232	1.363	0.778	2.056	1.270

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	14770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631	4770.8631
5	15218.1261	5489.2581	4904.5121	5151.1981	4987.9961	4936.2671	5137.7751	5079.8251	5256.187
10	14081.0811	4056.5891	4349.5121	4173.0821	4131.9631	3990.3441	3975.6451	4303.9891	4104.552
15	12825.0111	2797.8391	2945.1091	3019.9691	2764.9681	2795.5591	2910.4981	3024.2661	2852.215
20	10629.4191	0662.3981	0673.7631	0738.9661	0854.9591	0673.6401	0809.1901	0689.5251	0805.918
25	8864.555	8742.141	8856.378	8820.257	8879.170	9037.159	8887.209	8989.180	8898.228
30	6964.727	6934.843	6833.996	6678.995	6589.529	6383.654	6530.100	6317.442	6298.531
35	3935.601	4023.196	4289.046	4560.656	4644.956	4814.617	4804.330	4816.827	4863.936
40	2535.895	2590.619	2527.671	2604.225	2637.319	2820.348	2994.930	3154.274	3345.496
45	1482.073	1610.863	1553.383	1565.803	1589.696	1408.253	1310.294	1145.367	1063.070
50	795.171	770.901	729.413	645.229	574.420	535.966	549.965	523.169	540.471
55	307.838	321.960	313.043	323.154	310.148	310.626	298.075	304.543	295.210
60	262.085	270.239	272.349	260.591	255.124	261.430	257.195	269.238	265.488
65	245.391	270.224	240.425	248.140	238.746	257.942	232.201	237.637	241.526
70	210.002	202.071	199.391	208.015	213.891	207.946	212.628	214.630	217.001
75	142.219	147.540	148.333	146.539	155.086	153.261	155.779	160.137	142.589
80	83.830	87.141	95.842	85.277	97.089	91.853	93.640	91.276	92.616
85	32.178	38.377	29.383	27.720	36.244	32.171	30.661	35.381	31.139
90	0.885	1.232	2.333	0.855	0.354	1.063	0.585	1.055	2.595

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-160LXXK-XWEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4958.62	N.A.	35.90
0-30	8989.17	N.A.	65.10
0-40	11833.61	N.A.	85.70
0-60	13372.86	N.A.	96.80
0-80	13768.65	N.A.	99.70
0-90	13811.6	N.A.	100.00
10-90	12405.06	N.A.	89.80
20-40	6874.99	N.A.	49.80
20-50	8074.57	N.A.	58.50
40-70	1776.04	N.A.	12.90
60-80	395.78	N.A.	2.90
70-80	158.99	N.A.	1.20
80-90	42.95	N.A.	0.30
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	13811.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1406.54
10-20	3552.08
20-30	4030.55
30-40	2844.45
40-50	1199.57
50-60	339.67
60-70	236.79
70-80	158.99
80-90	42.95
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

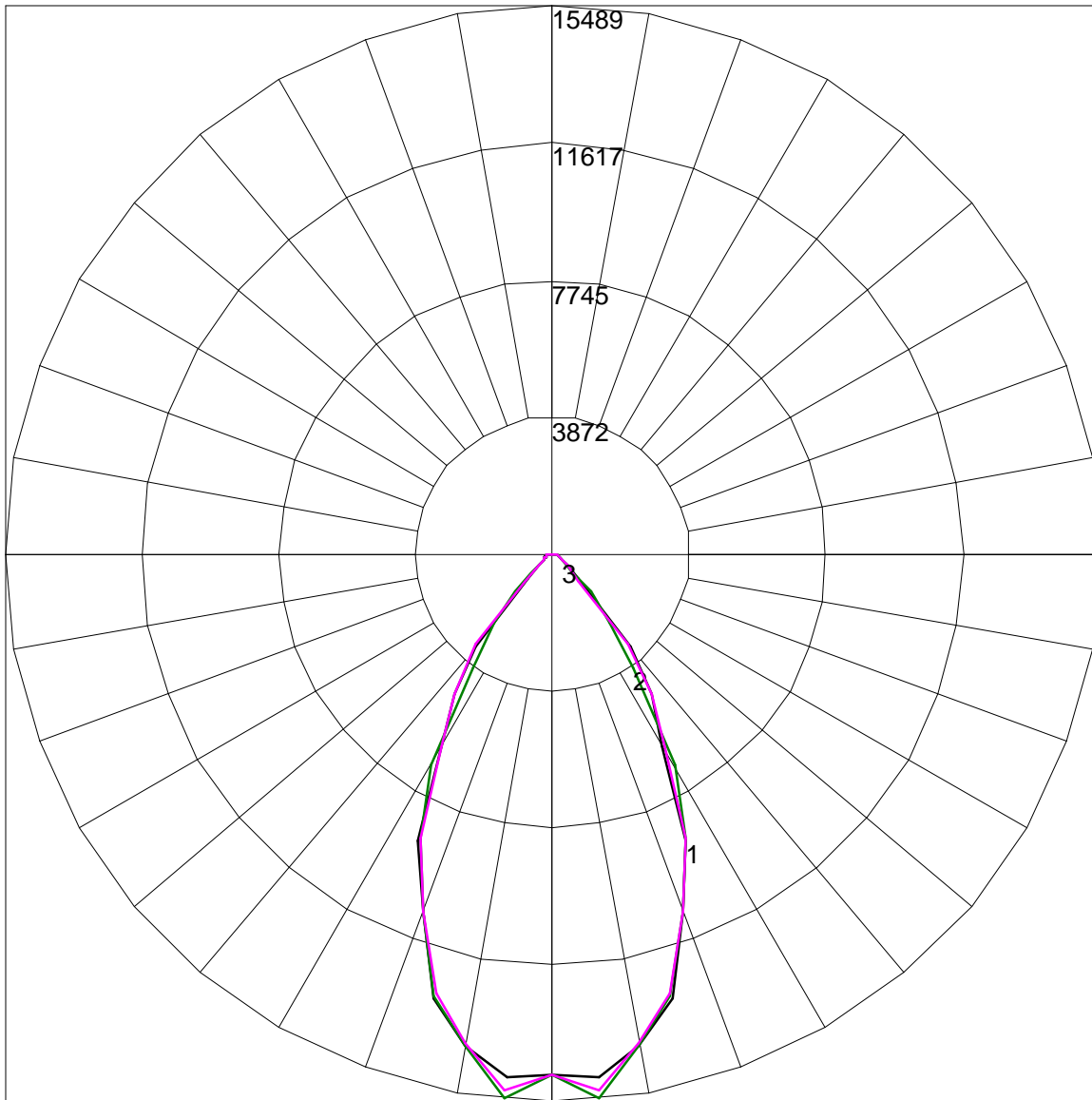
PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-160LXXK-XWEX-MWI.IES

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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48

POLAR GRAPH



Maximum Candela = 15489.258 Located At Horizontal Angle = 55, 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)