

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_42 ~ C1320YKFSXT-80LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_42_M-80L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-80L-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 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	7444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	94.8
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_42 ~ C1320YKFSXT-80LXXK-NDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1133	1180	1214
55	622	711	726
65	811	883	726
75	1063	1041	1095
85	796	743	683

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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	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163
5	24584.352	24381.013	24711.485	24393.441	24523.824	24868.664	24671.769	24614.677	24627.000	24737.332
10	18123.413	18100.708	17978.516	18236.716	18375.185	18312.472	18194.641	18156.705	18267.377	18242.477
15	9759.908	9613.704	9807.908	9733.057	9634.372	9676.044	9610.568	9784.340	9550.468	9719.416
20	4498.540	4367.880	4417.380	4394.964	4522.856	4449.992	4403.996	4389.824	4436.096	4407.292
25	3070.732	3063.728	3009.124	3041.548	2987.112	3020.488	3030.644	3034.952	3009.420	3020.824
30	2115.008	2088.680	2126.764	2174.872	2193.692	2237.096	2313.988	2351.448	2437.764	2398.584
35	1227.772	1298.792	1270.672	1284.640	1280.280	1246.224	1089.864	1034.144	948.836	937.176
40	556.372	539.996	498.820	456.612	387.024	371.388	353.244	353.832	363.860	364.088
45	91.436	86.124	97.000	95.600	91.692	93.292	95.856	93.692	94.500	95.196
50	44.104	43.876	41.744	44.744	47.572	43.320	44.900	46.664	50.588	46.344
55	40.700	42.964	43.956	44.080	44.708	44.552	46.548	51.060	44.628	46.512
60	41.816	44.140	42.596	46.040	40.760	43.236	41.896	45.800	44.160	43.584
65	39.128	41.016	40.876	42.796	39.352	43.012	41.760	44.024	41.836	42.580
70	38.728	37.576	37.780	37.032	41.568	37.820	39.196	40.712	41.260	39.736
75	31.408	27.612	31.680	30.732	33.044	32.944	30.288	31.340	32.528	30.760
80	22.944	21.844	23.152	20.276	22.004	20.676	20.648	18.552	20.624	20.004
85	7.920	8.536	8.244	7.720	7.672	8.332	9.964	8.768	8.196	7.388
90	0.364	0.872	0.304	0.184	0.344	0.476	0.000	0.184	0.000	0.676

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	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163	28614.163
5	24343.069	24584.621	24796.328	24482.913	24683.416	24721.752	24338.964	24347.460	24861.836
10	18068.157	18333.857	18088.357	18443.552	18366.113	18151.569	18343.721	18178.136	18207.764
15	9736.396	9696.353	9646.121	9735.396	9665.700	9635.136	9668.972	9706.300	9615.992
20	4363.208	4445.604	4308.712	4388.452	4428.544	4452.320	4390.428	4446.564	4457.256
25	3031.228	3066.932	3087.280	3029.360	3043.176	2980.300	3048.280	3005.844	3099.320
30	2356.756	2359.704	2260.244	2179.676	2175.788	2146.084	2076.664	2061.688	2097.864
35	973.560	1041.184	1103.480	1171.400	1274.480	1281.128	1258.300	1285.024	1291.744
40	361.228	369.988	362.164	349.784	403.120	461.852	523.180	541.180	540.124
45	96.056	95.880	91.576	93.588	92.140	92.636	97.648	90.464	97.948
50	45.372	45.864	47.768	48.864	47.632	47.436	44.376	43.052	44.372
55	43.204	44.848	45.760	42.020	45.508	45.840	45.584	44.228	47.500
60	45.384	42.632	46.392	47.812	42.940	42.520	41.864	42.720	41.924
65	47.132	40.980	42.148	40.960	40.092	39.176	39.852	38.220	35.032
70	38.452	40.332	41.636	35.796	36.000	39.424	36.020	33.780	34.052
75	29.712	32.324	31.176	32.280	31.672	31.016	28.908	32.104	32.344
80	18.996	18.648	21.424	22.384	20.368	20.708	23.428	22.780	24.704
85	8.036	8.312	8.608	7.660	8.564	8.904	7.116	7.728	6.792
90	0.364	0.000	0.064	0.000	0.156	0.184	0.364	0.368	0.312

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Zone	Lumens	%Lamp	%Fixt
0-20	4984.81	N.A.	67.00
0-30	6431.49	N.A.	86.40
0-40	7196.76	N.A.	96.70
0-60	7360.84	N.A.	98.90
0-80	7433.86	N.A.	99.90
0-90	7444.13	N.A.	100.00
10-90	5276.74	N.A.	70.90
20-40	2211.95	N.A.	29.70
20-50	2335.79	N.A.	31.40
40-70	204.90	N.A.	2.80
60-80	73.01	N.A.	1.00
70-80	32.20	N.A.	0.40
80-90	10.27	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	7444.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2167.39
10-20	2817.42
20-30	1446.68
30-40	765.28
40-50	123.84
50-60	40.24
60-70	40.82
70-80	32.20
80-90	10.27
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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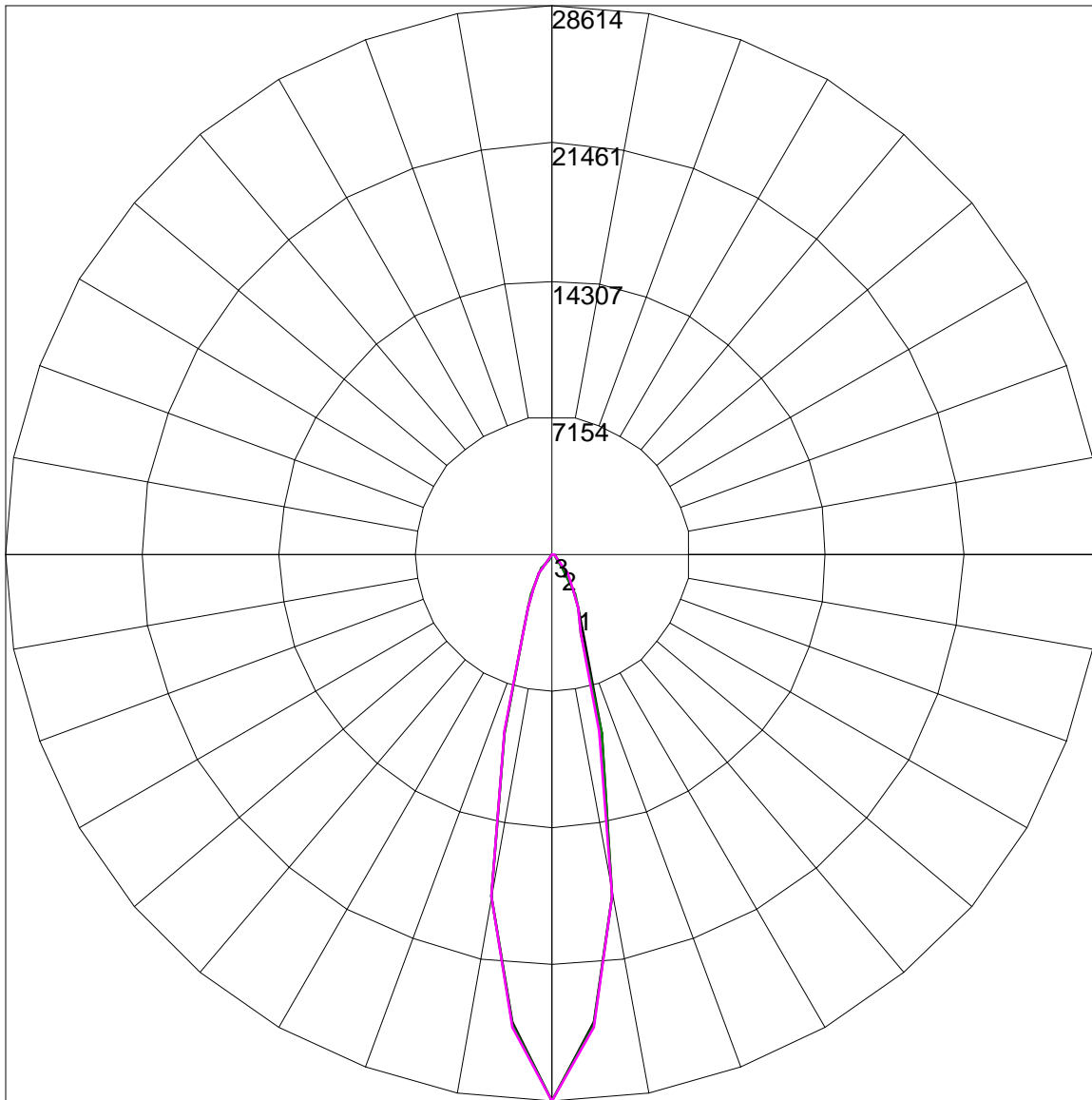
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	80	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

POLAR GRAPH



Maximum Candela = 28614.163 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)