

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_36 ~ C1320YKFSXT-80LXXK-MDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_36_M-80L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

[LUMCAT] C1320YKFSXT-80L-xxK-MD-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium Beam

[OTHER] Integral Flared 3" Matte Black (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] 36.9 Degree Beam Angle, 84.1 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
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	5980	10151	5187
55	373	228	368
65	0	0	0
75	0	0	0
85	0	0	0

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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	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170
5	9837.309	9358.570	9404.360	9222.442	9441.312	9503.469	9566.774	9473.421	9470.393	9430.293
10	8085.888	8179.321	8138.080	8167.728	8215.819	8105.751	8262.369	8167.155	8089.496	8167.342
15	6118.698	5972.231	6055.533	6096.493	5992.415	6043.947	6112.468	6032.928	6103.937	6083.720
20	4729.944	4950.954	4804.781	4743.277	4690.091	4833.069	4879.672	4794.509	4840.145	4793.622
25	3835.543	3910.054	3994.823	4014.039	3983.237	3985.999	4040.733	4032.188	4079.052	4089.144
30	2639.839	2612.432	2691.605	2711.895	2783.191	2777.528	2822.044	2901.123	3001.847	2968.837
35	1806.556	1905.259	1915.824	1917.111	1856.608	1741.477	1550.035	1486.976	1420.857	1411.852
40	1460.663	1447.343	1316.218	1213.933	1135.861	1091.032	1077.025	1031.802	1077.739	1095.834
45	482.514	559.226	634.310	716.772	789.535	811.639	808.357	808.397	811.706	819.116
50	150.288	168.791	169.531	177.595	197.159	245.109	292.379	322.374	349.501	344.305
55	24.386	19.096	22.658	21.998	25.466	19.083	18.789	19.236	18.723	14.901
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170	10322.170
5	9526.447	9332.270	9466.511	9348.378	9525.254	9436.109	9249.496	9541.141	9664.523
10	8115.356	8191.580	8101.075	8059.848	8197.803	8156.756	8088.369	8175.993	8273.108
15	6049.903	6200.852	6127.949	5920.072	6055.886	6135.233	6066.578	5969.510	5966.528
20	4791.655	4812.131	4791.648	4827.779	4801.526	4838.438	4823.591	4839.372	4801.186
25	4057.021	4046.055	4004.575	3968.503	3971.912	4015.827	3943.271	3920.052	3878.999
30	3005.782	2905.205	2836.531	2825.739	2738.975	2687.350	2651.605	2639.019	2631.128
35	1450.412	1516.578	1567.663	1697.115	1812.559	1929.578	1896.268	1900.090	1856.454
40	1066.366	1072.836	1086.556	1093.546	1163.001	1209.138	1369.031	1476.445	1509.995
45	846.410	851.839	791.856	838.399	794.450	757.685	621.184	523.081	418.529
50	354.824	321.701	303.538	237.545	192.263	168.064	162.521	162.695	172.473
55	14.914	15.048	21.371	21.397	22.138	22.304	23.438	22.905	24.119
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2604.97	N.A.	42.40
0-30	4387.23	N.A.	71.30
0-40	5534.84	N.A.	90.00
0-60	6150.91	N.A.	100.00
0-80	6150.9	N.A.	100.00
0-90	6150.91	N.A.	100.00
10-90	5284.95	N.A.	85.90
20-40	2929.87	N.A.	47.60
20-50	3484.45	N.A.	56.60
40-70	616.07	N.A.	10.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	6150.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	865.96
10-20	1739.02
20-30	1782.25
30-40	1147.61
40-50	554.58
50-60	61.48
60-70	0.00
70-80	0.00
80-90	0.00
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

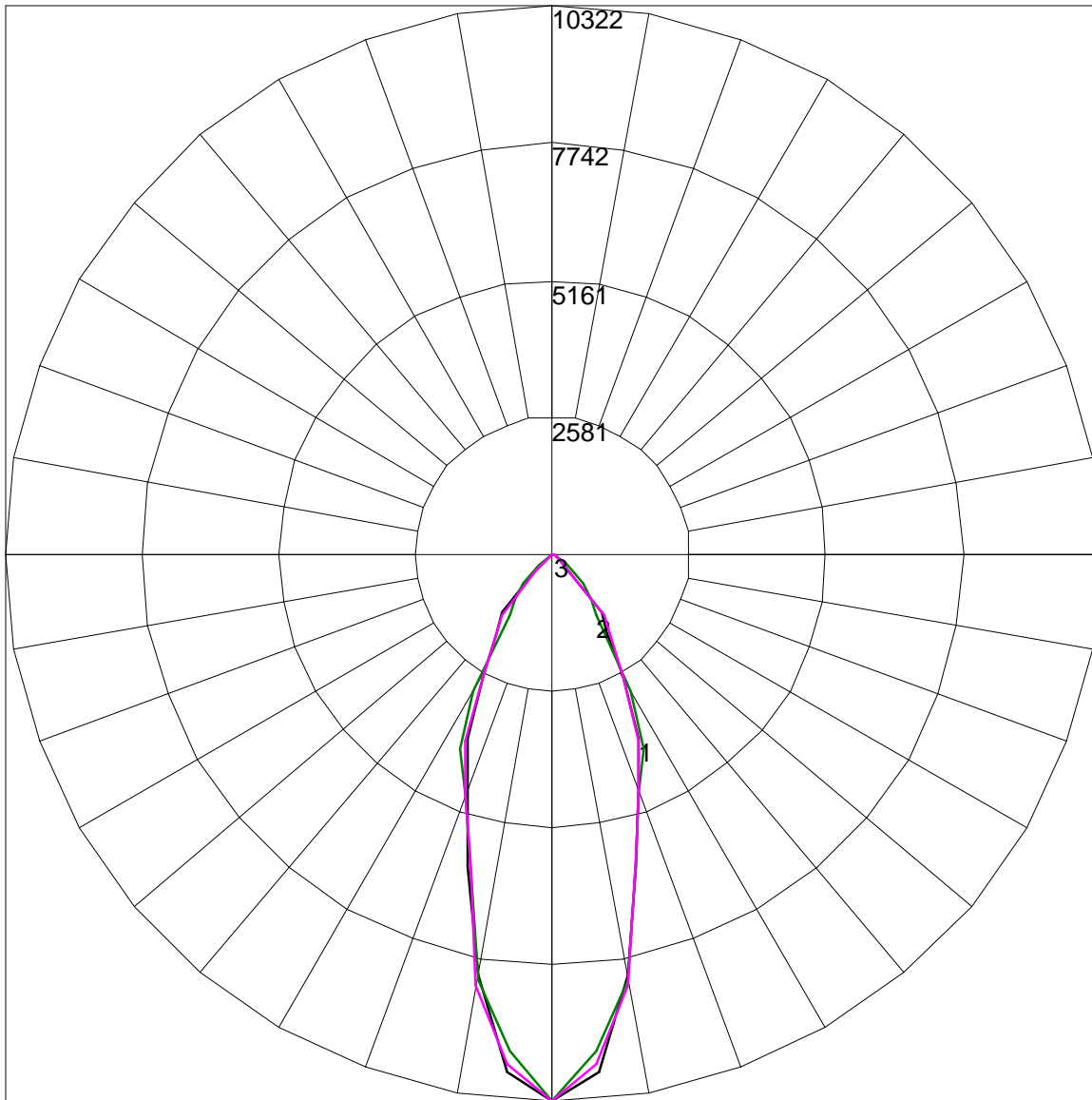
Effective Floor Cavity Reflectance 0.20

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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53

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POLAR GRAPH



Maximum Candela = 10322.17 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)