

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_37 ~ C1320YKFSXT-200LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_37_M-200L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

[LUMCAT] C1320YKFSXT-200L-xxK-MD-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 38.3 Degree Beam Angle, 86.1 Degree Field Angle

[LAMPCAT] LED 5000lm

[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	17563
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_37 ~ C1320YKFSXT-200LXXK-MDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19470	30491	18133
55	6320	6634	6530
65	7127	7250	6894
75	7265	7110	7348
85	4235	4413	4589

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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	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859
5	24636.811	24680.850	24607.740	24500.221	25175.000	24971.529	25268.869	24921.949	25116.619	24985.230
10	21384.590	21377.141	21240.830	21537.320	21681.350	21292.570	21575.900	21590.590	21499.080	21538.391
15	16371.690	15921.850	16033.640	16239.680	16079.220	15836.150	16294.910	16236.600	16070.410	16186.190
20	13001.580	13233.130	12845.950	12825.100	12637.610	12782.790	12773.420	12869.590	12820.460	12904.860
25	10609.160	10590.180	10845.590	10743.670	10560.380	10484.880	10422.880	10606.410	10581.150	10551.910
30	7271.421	7110.605	7215.710	7289.941	7286.724	7498.116	7377.909	7828.016	7867.390	8027.906
35	4872.074	5191.722	5214.943	5220.077	4970.761	4704.341	4424.085	4111.656	3841.768	3923.901
40	4224.678	4099.286	3703.057	3426.385	3200.640	3084.050	3090.518	3008.768	3062.929	3085.284
45	1571.098	1726.145	1983.997	2143.995	2418.667	2393.995	2390.728	2432.353	2370.907	2460.375
50	751.084	801.194	793.875	816.630	878.209	983.563	1104.938	1185.720	1273.005	1247.950
55	413.666	422.151	425.352	448.206	417.417	438.238	426.702	431.453	436.971	434.220
60	363.273	367.407	357.955	370.607	362.206	368.957	369.057	350.753	372.741	380.593
65	343.702	343.635	306.678	347.419	352.654	345.002	346.453	344.052	357.338	349.637
70	326.265	304.961	315.596	310.179	286.991	290.008	278.789	298.226	296.409	290.091
75	214.576	224.028	227.212	217.810	229.112	228.212	214.926	215.276	213.043	209.992
80	116.357	125.258	123.308	128.726	135.544	138.661	126.309	119.974	125.325	123.641
85	42.125	49.943	47.426	43.392	42.642	40.158	46.976	44.309	46.693	43.892
90	0.917	1.750	1.300	1.367	0.350	0.350	0.617	0.383	1.700	1.517

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	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859	27140.859
5	24822.760	25055.039	24894.891	25094.289	25302.891	24492.650	25015.250	24712.461	25053.840
10	21434.801	21444.461	21042.680	21408.381	21281.061	21471.189	21241.150	21125.859	21554.109
15	16034.070	16127.920	15728.780	16093.150	15890.030	16000.330	15971.130	16098.620	16033.870
20	12671.380	12561.950	12641.710	12947.360	12926.900	12826.710	12894.560	12983.410	12794.420
25	10551.830	10702.340	10484.810	10590.880	10615.040	10652.630	10578.450	10639.540	10571.380
30	7778.306	7622.858	7389.194	7390.428	7280.673	7260.902	7300.943	7238.881	7330.149
35	4047.593	4183.770	4332.133	4740.631	5028.656	5272.988	5237.447	5133.560	5113.256
40	3067.313	2991.748	3224.628	3153.314	3307.862	3415.333	3899.380	4030.706	4345.536
45	2450.807	2424.768	2403.164	2480.096	2340.918	2237.981	1946.456	1731.596	1463.226
50	1281.740	1170.851	1133.360	1005.068	865.356	788.191	773.505	770.637	767.754
55	442.038	433.437	436.387	457.875	417.550	416.150	424.618	434.220	427.385
60	355.604	368.407	366.623	370.307	366.973	346.703	352.204	356.371	374.675
65	361.172	343.719	337.084	348.670	344.969	356.105	341.352	349.787	332.466
70	300.393	294.609	294.759	295.292	323.098	311.396	312.646	316.063	319.164
75	207.925	216.010	214.593	214.293	217.493	214.043	223.561	225.712	217.027
80	121.241	126.575	124.041	124.292	136.477	131.943	117.790	121.741	133.077
85	44.576	39.458	46.126	43.125	50.460	47.793	47.159	43.375	45.642
90	0.867	0.783	1.300	1.684	2.617	1.550	0.450	0.850	0.683

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Zone	Lumens	%Lamp	%Fixt
0-20	6882.66	N.A.	39.20
0-30	11624.55	N.A.	66.20
0-40	14763.79	N.A.	84.10
0-60	16938.6	N.A.	96.40
0-80	17503.3	N.A.	99.70
0-90	17562.55	N.A.	100.00
10-90	15283.32	N.A.	87.00
20-40	7881.14	N.A.	44.90
20-50	9565.33	N.A.	54.50
40-70	2511.19	N.A.	14.30
60-80	564.70	N.A.	3.20
70-80	228.32	N.A.	1.30
80-90	59.25	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	17562.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2279.23
10-20	4603.42
20-30	4741.89
30-40	3139.25
40-50	1684.19
50-60	490.62
60-70	336.38
70-80	228.32
80-90	59.25
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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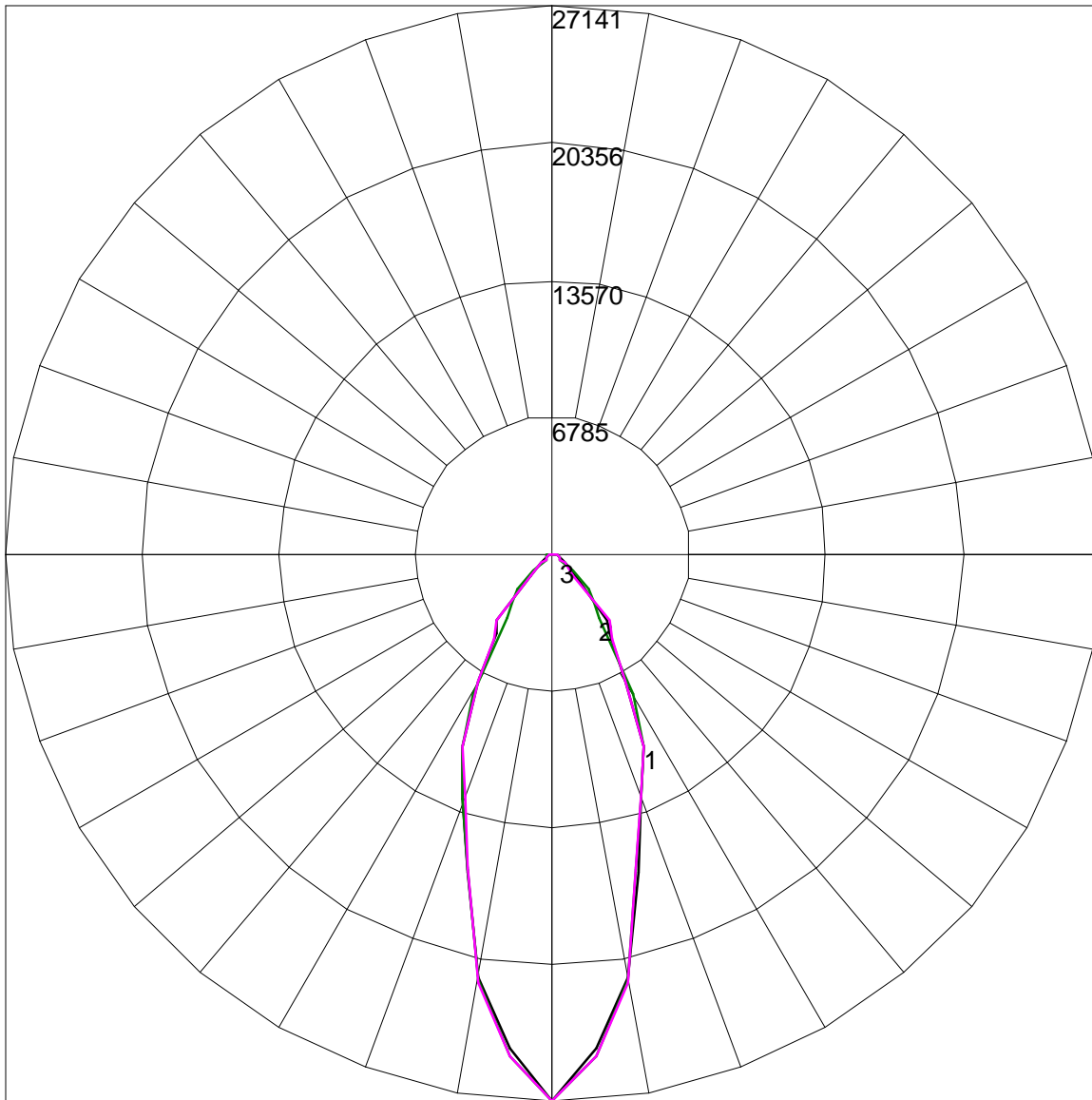
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	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	54	51	59	54	51	58	54	51	49

POLAR GRAPH



Maximum Candela = 27140.859 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)