

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_36 ~ C1320YKFSXT-160LXXK-MDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_36_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

[LUMCAT] C1320YKFSXT-160L-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 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	159.6
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	11502	19526	9977
55	717	438	709
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	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080
5	18922.439	18001.570	18089.650	17739.721	18160.721	18280.289	18402.061	18222.490	18216.660	18139.529
10	15553.510	15733.240	15653.910	15710.940	15803.440	15591.720	15892.980	15709.830	15560.460	15710.190
15	11769.550	11487.820	11648.050	11726.840	11526.640	11625.760	11757.570	11604.570	11741.160	11702.270
20	9098.228	9523.350	9242.180	9123.875	9021.568	9296.592	9386.235	9222.422	9310.205	9220.716
25	7377.814	7521.138	7684.195	7721.158	7661.909	7667.221	7772.504	7756.069	7846.212	7865.624
30	5077.832	5025.113	5177.405	5216.434	5353.574	5342.681	5428.309	5580.421	5774.167	5710.671
35	3474.980	3664.838	3685.161	3687.637	3571.256	3349.798	2981.551	2860.256	2733.072	2715.752
40	2809.642	2784.020	2531.795	2335.047	2184.872	2098.642	2071.699	1984.711	2073.071	2107.879
45	928.135	1075.693	1220.120	1378.737	1518.700	1561.219	1554.906	1554.983	1561.347	1575.601
50	289.086	324.676	326.100	341.612	379.242	471.477	562.403	620.100	672.279	662.285
55	46.906	36.732	43.584	42.313	48.985	36.707	36.142	37.002	36.014	28.662
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. 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	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080	19855.080
5	18324.490	17950.980	18209.199	17981.961	18322.189	18150.721	17791.760	18352.750	18590.080
10	15610.200	15756.820	15582.730	15503.420	15768.790	15689.830	15558.290	15726.830	15913.640
15	11637.220	11927.580	11787.340	11387.490	11648.730	11801.360	11669.290	11482.580	11476.840
20	9216.931	9256.319	9216.918	9286.418	9235.919	9306.920	9278.361	9308.717	9235.265
25	7803.835	7782.742	7702.952	7633.568	7640.124	7724.597	7585.032	7540.371	7461.402
30	5781.737	5588.273	5456.176	5435.417	5268.524	5169.220	5100.464	5076.254	5061.076
35	2789.922	2917.196	3015.461	3264.465	3486.527	3711.616	3647.543	3654.895	3570.961
40	2051.196	2063.641	2090.033	2103.478	2237.077	2325.822	2633.383	2839.997	2904.532
45	1628.101	1638.545	1523.165	1612.693	1528.156	1457.437	1194.871	1006.167	805.057
50	682.518	618.804	583.868	456.928	369.825	323.278	312.616	312.949	331.758
55	28.688	28.944	41.107	41.159	42.583	42.904	45.085	44.058	46.393
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	5010.76	N.A.	42.40
0-30	8439.00	N.A.	71.30
0-40	10646.48	N.A.	90.00
0-60	11831.5	N.A.	100.00
0-80	11831.5	N.A.	100.00
0-90	11831.5	N.A.	100.00
10-90	10165.8	N.A.	85.90
20-40	5635.71	N.A.	47.60
20-50	6702.47	N.A.	56.60
40-70	1185.03	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	11831.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1665.7
10-20	3345.06
20-30	3428.23
30-40	2207.48
40-50	1066.76
50-60	118.27
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

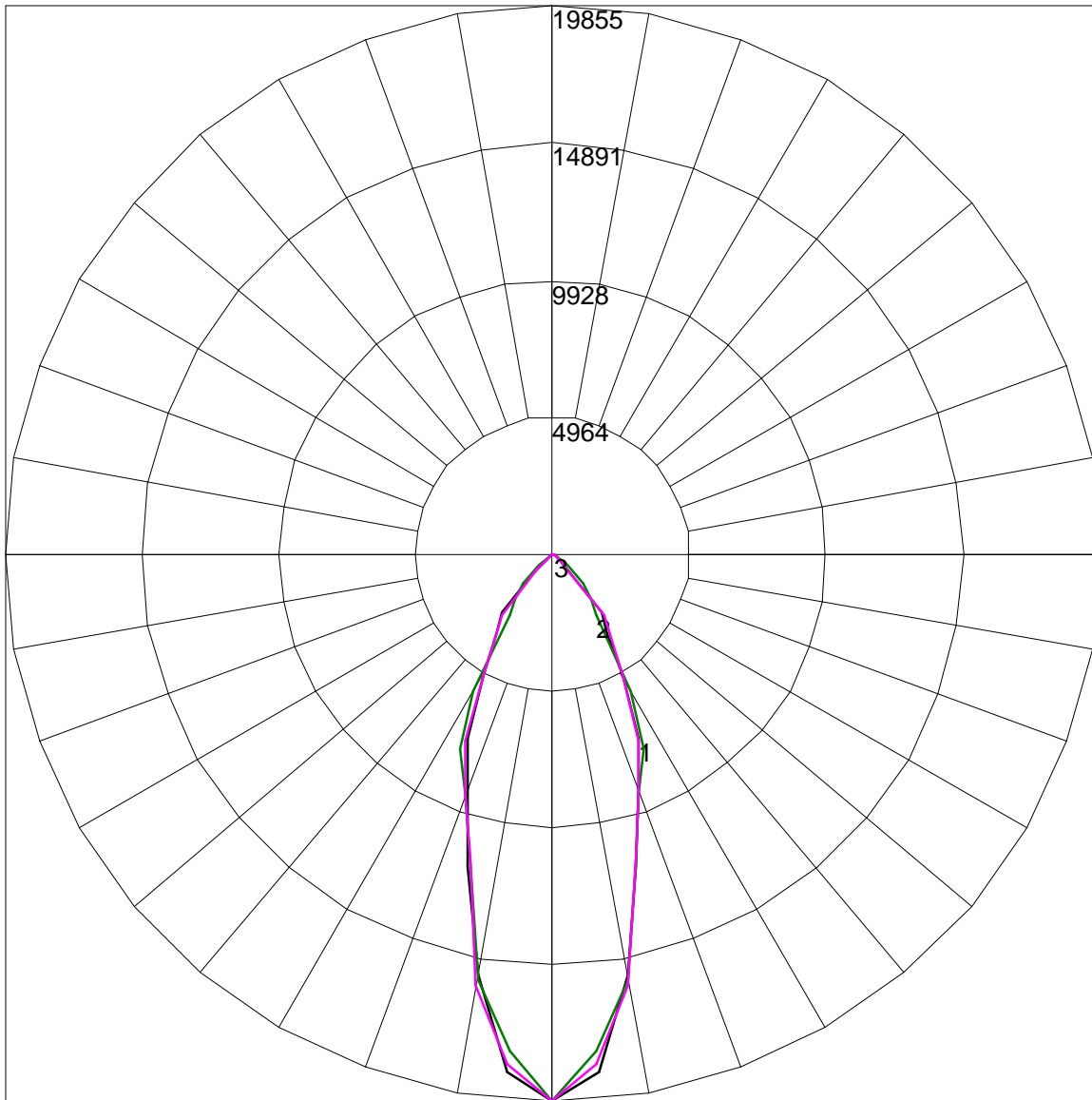
Effective Floor Cavity Reflectance 0.20

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	99	96	106	102	98	95	98	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	79	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 = 19855.08 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)