

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_43 ~ C1320YKFSXT-160LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_43_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-160L-xxK-ND-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.8 Degree Beam Angle, 52 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	13786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	159.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1062	1075	1122
55	0	0	0
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	54110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.119
5	46757.47047	175.72146	419.91246	951.05546	833.38447	103.27846	407.43046	571.05547	129.45846	952.960
10	34964.62834	393.80634	798.14634	422.93334	4629.45634	498.09834	4584.58834	4500.24334	372.12834	843.693
15	18329.54218	551.58018	520.98018	550.46218	424.57518	522.05618	381.57818	284.97518	336.47818	292.544
20	8193.393	8316.708	8271.124	8471.039	8313.482	8345.498	8413.420	8222.938	8350.904	8289.966
25	5758.899	5598.924	5779.065	5806.739	5685.749	5634.159	5719.521	5790.954	5875.747	5660.177
30	4012.840	3919.800	3875.102	4015.935	4029.364	4120.716	4174.493	4425.244	4553.849	4591.017
35	2394.908	2335.010	2405.218	2427.887	2290.865	2258.371	2132.946	1940.053	1854.576	1772.270
40	954.423	968.899	903.264	825.286	709.832	613.574	583.645	598.552	617.794	591.937
45	85.686	85.786	82.259	97.852	93.647	86.363	87.264	96.604	91.360	86.748
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	54110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.11954	110.119
5	46908.67546	781.95647	220.97346	319.11747	197.94346	460.94546	628.71246	904.28746	324.414
10	34267.53234	475.17934	538.78834	4776.87234	470.49634	4345.88834	4841.91234	4621.90334	4394.197
15	18221.41018	301.77518	132.21418	606.81818	077.04318	279.09918	503.93918	321.27118	084.990
20	8436.035	8443.866	8422.252	8319.226	8258.435	8196.095	8476.229	8542.434	8226.102
25	5865.167	5796.229	5770.311	5788.329	5674.584	5634.983	5732.658	5655.742	5865.352
30	4602.544	4511.830	4308.219	4232.028	4111.823	3896.223	4004.878	3993.266	4063.806
35	1828.858	1945.058	2147.507	2198.104	2364.516	2301.699	2333.824	2333.285	2333.985
40	607.984	605.266	597.104	612.081	680.226	809.401	878.886	944.767	963.755
45	95.403	93.201	91.484	92.438	87.541	89.420	80.511	78.532	90.575
50	0.000	0.239	0.000	0.000	0.239	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	9460.16	N.A.	68.60
0-30	12193.98	N.A.	88.40
0-40	13616.99	N.A.	98.80
0-60	13786.35	N.A.	100.00
0-80	13786.35	N.A.	100.00
0-90	13786.35	N.A.	100.00
10-90	9668.36	N.A.	70.10
20-40	4156.84	N.A.	30.20
20-50	4326.19	N.A.	31.40
40-70	169.36	N.A.	1.20
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	13786.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4118.00
10-20	5342.16
20-30	2733.82
30-40	1423.02
40-50	169.35
50-60	0.01
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

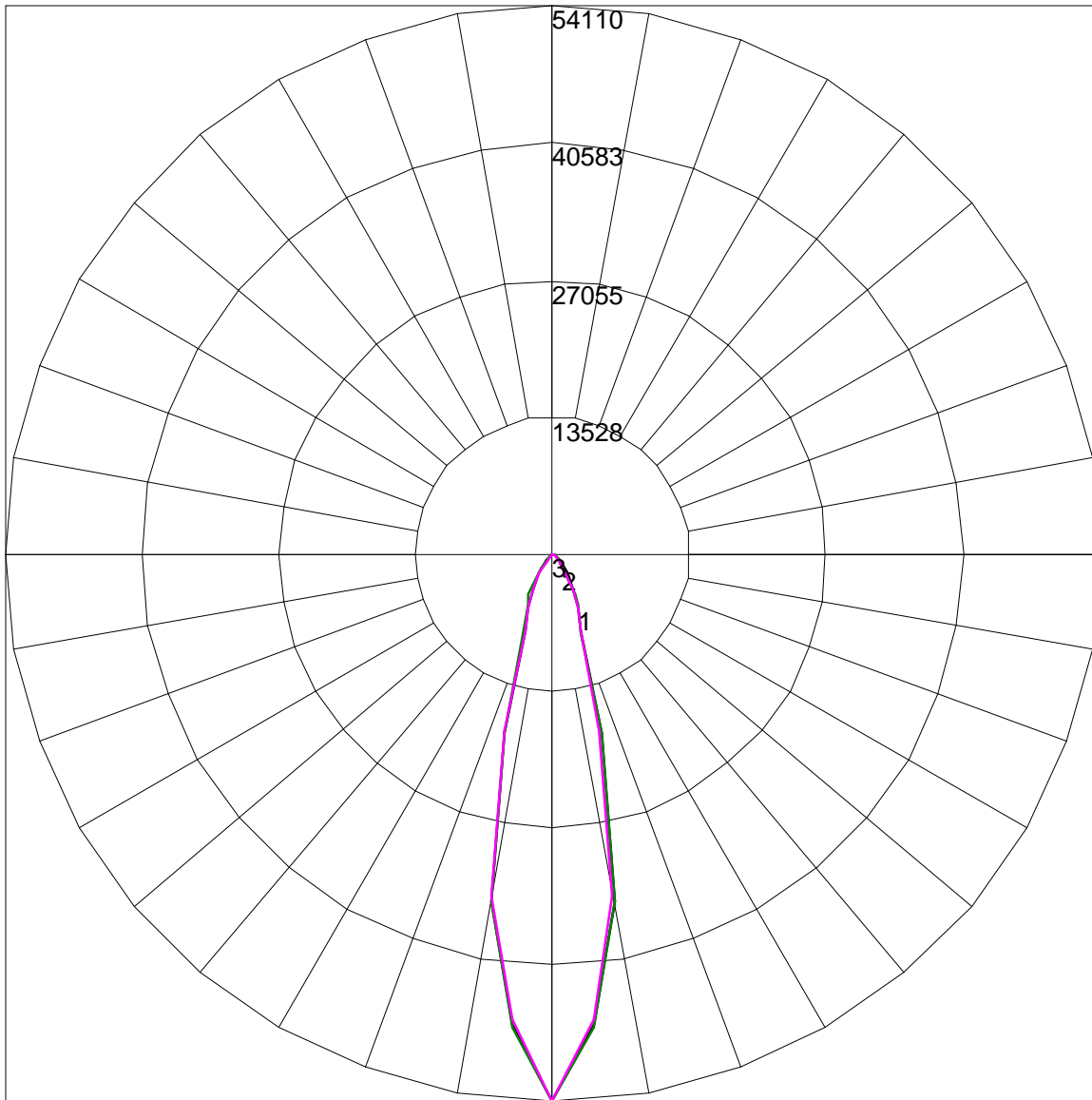
Effective Floor Cavity Reflectance 0.20

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	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	85	82	79	78
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	82	79	77	75
8	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73
9	87	80	75	72	86	79	75	72	78	74	72	78	74	72	77	74	71	70
10	84	77	73	70	84	77	72	70	76	72	69	75	72	69	75	71	69	68

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POLAR GRAPH



Maximum Candela = 54110.119 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)