

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_49 ~ C1320YKSSXT-160LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_49_M-160L

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

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-160L-xxK-WD-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Wide Beam

[OTHER] Integral Straight 3" Matte Black (interior) Deep Snoot for Additional Cutoff

[OTHER] Nom. 13" Diam. Cylinder / Nom. 13" Diam Snoot Opening

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 44.2 Degree Beam Angle, 75.6 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	9294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.68
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	7707	4752	7124
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821
5	12843.931	12796.721	13138.855	13047.858	12784.717	13119.045	12856.335	12962.264	12987.427	13016.588
10	14016.532	14303.912	14230.108	14299.516	14133.441	14144.468	14089.275	14016.379	13931.987	14171.758
15	12754.411	12601.904	12849.044	12682.408	12620.068	12701.219	12875.725	12646.379	12826.413	12914.832
20	8662.685	8754.076	8869.499	8993.253	9138.090	9234.517	9186.893	9141.193	9313.820	9276.975
25	6345.424	6195.043	6005.299	5953.363	5781.930	5466.892	5148.613	4910.036	4666.508	4696.338
30	4222.934	4107.342	3764.838	3461.096	3221.973	3176.288	3186.945	3298.064	3160.927	3261.751
35	1592.098	1681.464	2056.508	2309.345	2449.424	2527.009	2596.887	2524.899	2506.373	2545.913
40	1053.922	1047.084	1004.527	1074.650	1166.665	1333.548	1622.097	1903.748	2050.102	2022.251
45	621.929	677.215	611.857	651.227	647.578	557.133	526.849	447.924	381.396	383.414
50	72.257	74.990	54.970	35.428	19.034	2.333	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
 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	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821	13188.821
5	12833.997	12994.559	12817.866	12845.917	12902.544	12648.659	13020.584	13120.000	12868.840
10	14049.442	14025.580	14245.338	13755.411	14287.103	14235.537	14091.885	14107.755	13922.955
15	12921.224	12851.347	12798.308	12678.619	12688.353	12738.517	12639.597	12606.532	12576.310
20	9363.277	9300.730	9061.937	9155.015	8932.546	8830.260	8918.479	8820.496	8929.420
25	4652.463	4878.643	5103.906	5384.525	5838.825	5941.197	6222.978	6086.496	6294.873
30	3240.460	3349.431	3270.952	3248.476	3424.275	3478.128	3785.874	4099.141	4368.641
35	2508.506	2526.593	2485.583	2582.156	2412.957	2334.201	2030.097	1732.177	1545.213
40	1952.735	1856.131	1604.557	1333.047	1137.313	1059.928	1046.492	1071.216	998.628
45	403.180	417.910	520.327	591.422	626.033	662.469	671.848	623.415	574.836
50	0.000	0.000	0.000	4.766	15.847	33.064	55.802	73.058	72.134
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	4669.42	N.A.	50.20
0-30	7337.57	N.A.	78.90
0-40	8808.27	N.A.	94.80
0-60	9294.05	N.A.	100.00
0-80	9294.05	N.A.	100.00
0-90	9294.05	N.A.	100.00
10-90	8014.26	N.A.	86.20
20-40	4138.85	N.A.	44.50
20-50	4619.3	N.A.	49.70
40-70	485.78	N.A.	5.20
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	9294.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1279.79
10-20	3389.63
20-30	2668.15
30-40	1470.7
40-50	480.45
50-60	5.33
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

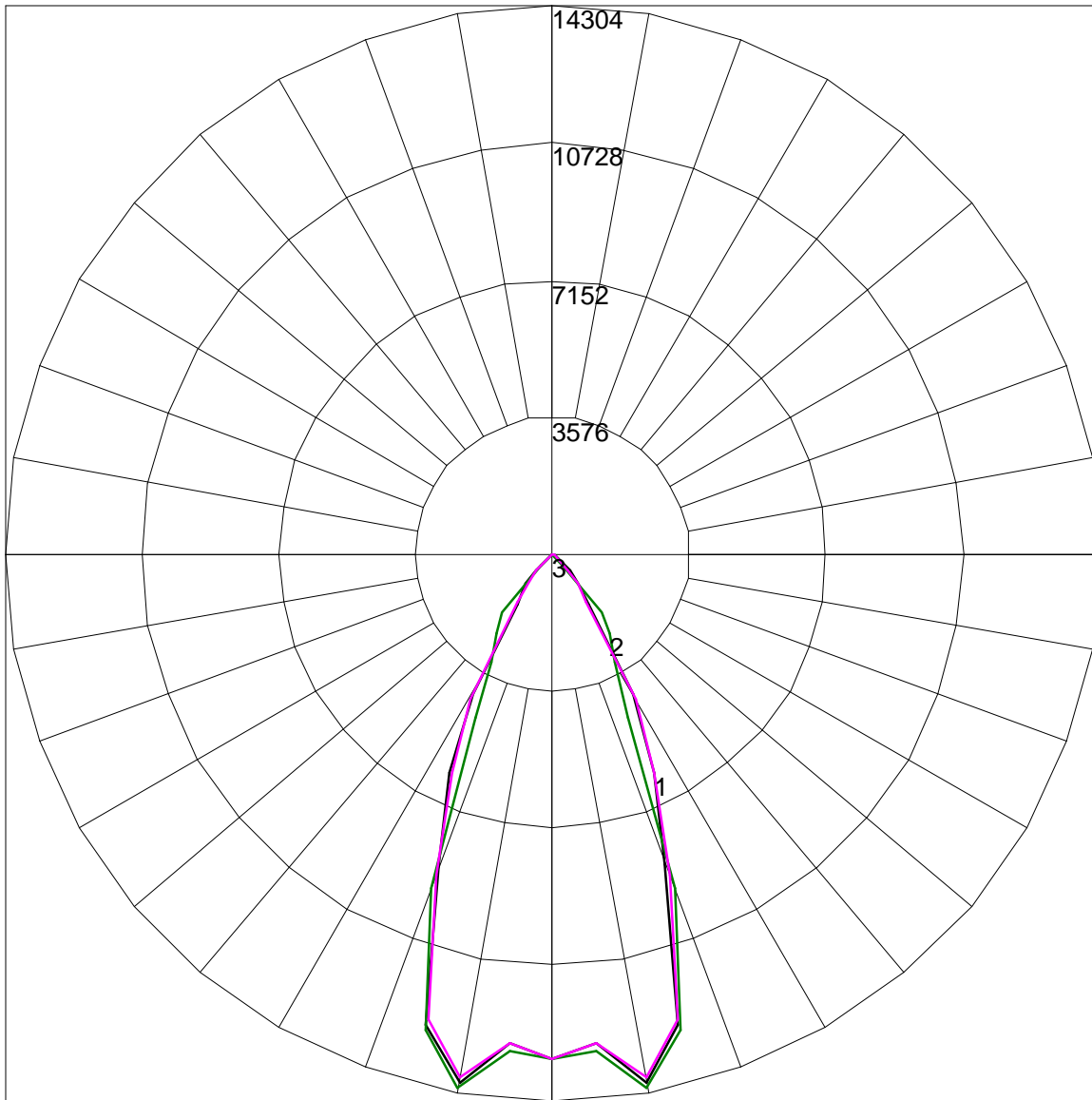
Effective Floor Cavity Reflectance 0.20

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	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	77	72	68	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	61	58	56

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POLAR GRAPH



Maximum Candela = 14303.912 Located At Horizontal Angle = 5, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)