

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_49 ~ C1320YKSSXT-200LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_49_M-200L

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

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-200L-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 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	12070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	207
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_49 ~ C1320YKSSXT-200LXXK-WDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10010	6171	9252
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	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340
5	16680.430	16619.119	17063.449	16945.270	16603.529	17037.721	16696.539	16834.109	16866.789	16904.660
10	18203.289	18576.510	18480.660	18570.801	18355.119	18369.439	18297.760	18203.090	18093.490	18404.881
15	16564.170	16366.110	16687.070	16470.660	16389.699	16495.090	16721.721	16423.869	16657.680	16772.510
20	11250.240	11368.930	11518.830	11679.550	11867.650	11992.880	11931.030	11871.680	12095.870	12048.020
25	8240.810	8045.510	7799.090	7731.640	7509.000	7099.860	6686.510	6376.670	6060.400	6099.140
30	5484.330	5334.210	4889.400	4494.930	4184.380	4125.050	4138.890	4283.200	4105.100	4236.040
35	2067.660	2183.720	2670.790	2999.150	3181.070	3281.830	3372.580	3279.090	3255.030	3306.380
40	1368.730	1359.850	1304.580	1395.650	1515.150	1731.880	2106.620	2472.400	2662.470	2626.300
45	807.700	879.500	794.620	845.750	841.010	723.550	684.220	581.720	495.320	497.940
50	93.840	97.390	71.390	46.010	24.720	3.030	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. 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	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340	17128.340
5	16667.529	16876.051	16646.580	16683.010	16756.551	16426.830	16909.850	17038.961	16712.779
10	18246.029	18215.039	18500.439	17864.170	18554.680	18487.711	18301.150	18321.760	18081.760
15	16780.811	16690.061	16621.180	16465.740	16478.381	16543.529	16415.061	16372.120	16332.870
20	12160.100	12078.870	11768.750	11889.630	11600.710	11467.870	11582.440	11455.190	11596.650
25	6042.160	6335.900	6628.450	6992.890	7582.890	7715.840	8081.790	7904.540	8175.160
30	4208.390	4349.910	4247.990	4218.800	4447.110	4517.050	4916.720	5323.560	5673.560
35	3257.800	3281.290	3228.030	3353.450	3133.710	3031.430	2636.490	2249.580	2006.770
40	2536.020	2410.560	2083.840	1731.230	1477.030	1376.530	1359.080	1391.190	1296.920
45	523.610	542.740	675.750	768.080	813.030	860.350	872.530	809.630	746.540
50	0.000	0.000	0.000	6.190	20.580	42.940	72.470	94.880	93.680
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	6064.18	N.A.	50.20
0-30	9529.31	N.A.	78.90
0-40	11439.31	N.A.	94.80
0-60	12070.2	N.A.	100.00
0-80	12070.2	N.A.	100.00
0-90	12070.2	N.A.	100.00
10-90	10408.13	N.A.	86.20
20-40	5375.13	N.A.	44.50
20-50	5999.09	N.A.	49.70
40-70	630.88	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	12070.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1662.07
10-20	4402.12
20-30	3465.13
30-40	1910.00
40-50	623.96
50-60	6.93
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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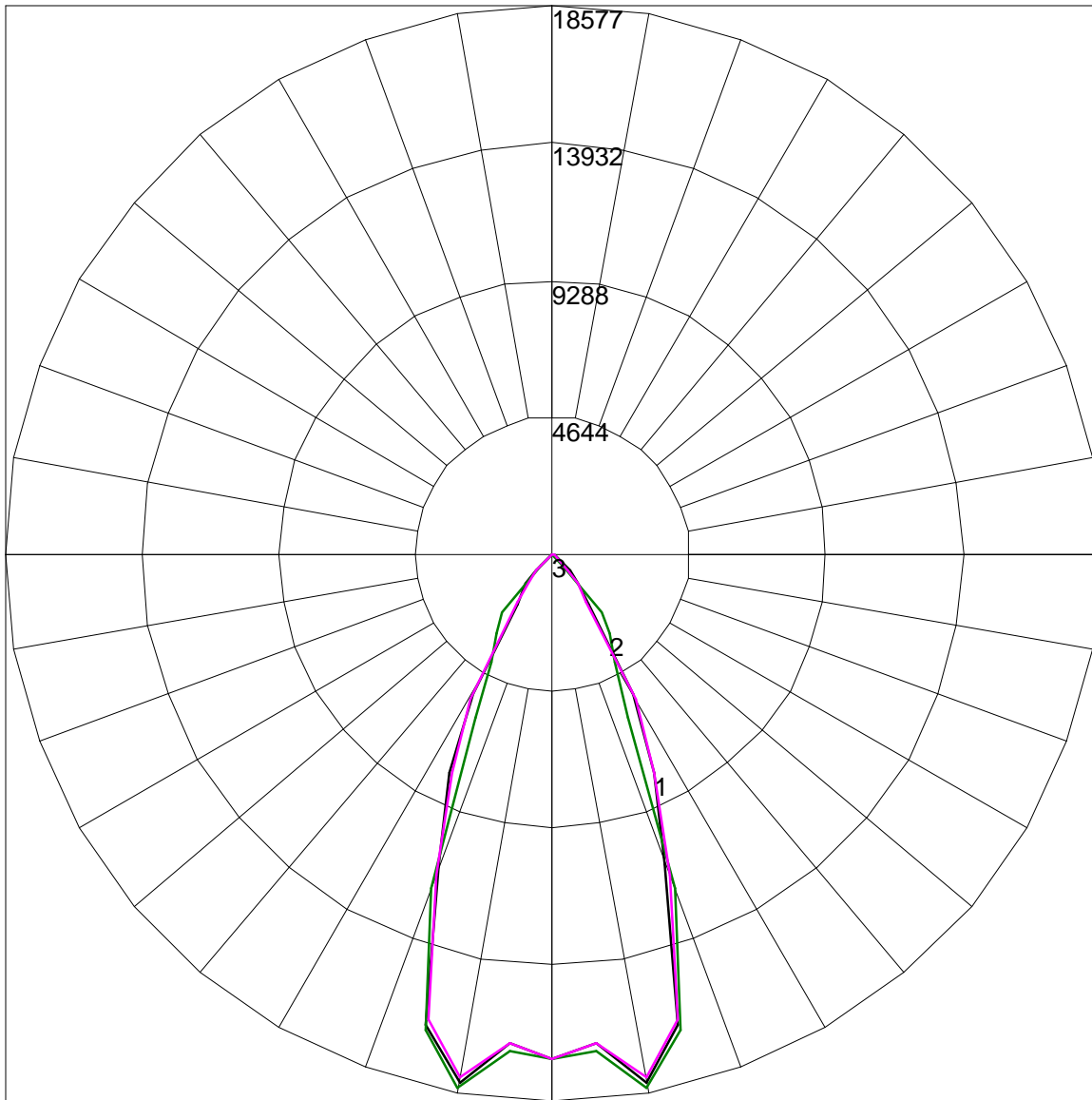
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 18576.51 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)