

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_62 ~ C1320YKXT-160LXXK-WDEX-TSG-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_62

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2016

[UPDATE] 4/2/2018

[LUMCAT] C1320YKXT-160L-xxK-WD-EX-TSG-MW

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Wide Beam

[OTHER] Nom. 12" Diam. Spun Alum. Bezel, Semi-Diffuse Clear anodized finish

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

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

[OTHER] Photometric data applicable to C1320XT (pendant), C1320XT (wall mounted)

[OTHER] and C1320YKXT (yoke mounted) luminaires

[OTHER] 55 Degree Beam Angle, 100 Degree Field Angle

[LAMP] N/A, 19mm

[LAMPCAT] N/A, Min.83 CRI

[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	14020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_62 ~ C1320YKXT-160LXXK-WDEX-TSG-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52892	52679	53220
55	3781	5283	3546
65	0	0	2
75	26	0	34
85	0	0	50

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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>
<b>0</b>	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92
<b>5</b>	12584.43	12359.05	12773.65	12525.71	12555.41	12285.82	12426.61	12512.34	12644.96	12469.47
<b>10</b>	14115.93	13725.51	13771.78	13778.31	13838.08	13762.39	13562.99	13718.90	13742.16	13756.41
<b>15</b>	12752.51	12718.85	12784.83	12721.71	12542.79	12672.21	12576.56	12750.15	12567.17	12738.86
<b>20</b>	10535.33	10438.19	10560.66	10440.01	10392.73	10488.42	10520.00	10431.41	10492.25	10337.33
<b>25</b>	7890.57	7809.71	7873.70	7901.12	7976.32	7843.69	7913.16	7881.37	7977.03	8003.84
<b>30</b>	6097.44	6150.61	6134.68	6108.68	6182.30	6203.85	6156.16	6090.38	6104.48	6133.97
<b>35</b>	5050.39	5047.12	5150.21	5116.87	5018.13	5139.26	5072.34	5067.03	5069.71	5069.22
<b>40</b>	4146.93	4141.76	4139.53	4142.97	4112.66	4155.20	4084.66	4143.74	4164.35	4154.51
<b>45</b>	2731.51	2742.97	2753.95	2751.38	2737.97	2735.71	2738.69	2740.58	2711.95	2720.51
<b>50</b>	1081.26	1117.94	1118.49	1179.69	1180.27	1231.99	1223.91	1240.30	1231.96	1222.21
<b>55</b>	158.40	161.15	166.70	162.86	177.87	175.96	179.52	200.63	220.51	221.29
<b>60</b>	1.16	1.24	1.14	1.39	0.44	1.12	1.56	1.36	1.91	1.59
<b>65</b>	0.00	0.30	0.28	0.31	0.58	0.43	0.45	0.79	0.46	0.00
<b>70</b>	0.34	0.38	0.36	0.91	0.46	0.30	0.49	0.27	0.15	0.41
<b>75</b>	0.49	0.22	0.44	0.06	0.24	0.48	0.16	0.23	0.33	0.00
<b>80</b>	0.00	0.24	0.00	0.13	0.14	0.30	0.48	0.28	0.47	0.11
<b>85</b>	0.00	0.16	0.00	0.00	0.30	0.00	0.00	0.00	0.24	0.00
<b>90</b>	0.00	0.00	0.00	0.28	0.00	0.00	0.31	0.00	0.27	0.00

**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>
<b>0</b>	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92	12646.92
<b>5</b>	12392.35	12610.24	12479.96	12388.27	12764.42	12437.83	12649.63	12519.53	12360.99
<b>10</b>	13797.19	13739.68	13850.85	13927.24	13648.50	13822.69	13922.24	13845.28	13699.84
<b>15</b>	12716.59	12687.38	12685.77	12683.39	12545.53	12658.94	12786.10	12639.66	12681.05
<b>20</b>	10417.64	10447.75	10427.98	10500.78	10458.66	10407.94	10491.61	10542.67	10658.17
<b>25</b>	7983.24	7886.50	7923.51	7979.76	7853.38	7859.65	7930.18	7947.92	7840.51
<b>30</b>	6216.77	6153.04	6216.36	6156.01	6100.24	6135.95	6087.61	6175.50	6135.61
<b>35</b>	5062.14	5115.94	4942.43	5111.65	5091.83	5056.46	5027.48	5079.05	5079.72
<b>40</b>	4126.18	4068.78	4172.27	4159.59	4172.44	4126.28	4133.06	4191.50	4177.28
<b>45</b>	2777.57	2715.97	2748.22	2745.79	2757.20	2720.44	2727.11	2720.51	2748.45
<b>50</b>	1233.65	1236.35	1209.99	1194.92	1163.44	1182.95	1143.62	1089.14	1101.29
<b>55</b>	203.77	208.65	194.80	176.04	164.37	166.33	167.72	152.61	148.53
<b>60</b>	1.45	1.38	1.34	1.87	1.91	1.14	1.07	1.78	0.80
<b>65</b>	0.76	0.15	0.08	1.11	0.47	0.07	0.39	0.29	0.05
<b>70</b>	0.13	0.19	0.15	0.40	0.68	0.19	0.26	0.56	0.23
<b>75</b>	0.00	0.00	0.37	0.05	0.00	0.00	0.38	0.78	0.65
<b>80</b>	0.06	0.00	0.30	0.06	0.16	0.24	0.01	0.28	0.00
<b>85</b>	0.00	0.16	0.46	0.00	0.30	0.11	0.00	0.00	0.32
<b>90</b>	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Zone	Lumens	%Lamp	%Fixt
0-20	4718.66	N.A.	33.70
0-30	8425.14	N.A.	60.10
0-40	11614.38	N.A.	82.80
0-60	14019.17	N.A.	100.00
0-80	14020.05	N.A.	100.00
0-90	14020.18	N.A.	100.00
10-90	12778.57	N.A.	91.10
20-40	6895.71	N.A.	49.20
20-50	8961.88	N.A.	63.90
40-70	2405.4	N.A.	17.20
60-80	0.89	N.A.	0.00
70-80	0.27	N.A.	0.00
80-90	0.12	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	14020.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1241.61
10-20	3477.06
20-30	3706.48
30-40	3189.24
40-50	2066.17
50-60	338.62
60-70	0.62
70-80	0.27
80-90	0.12
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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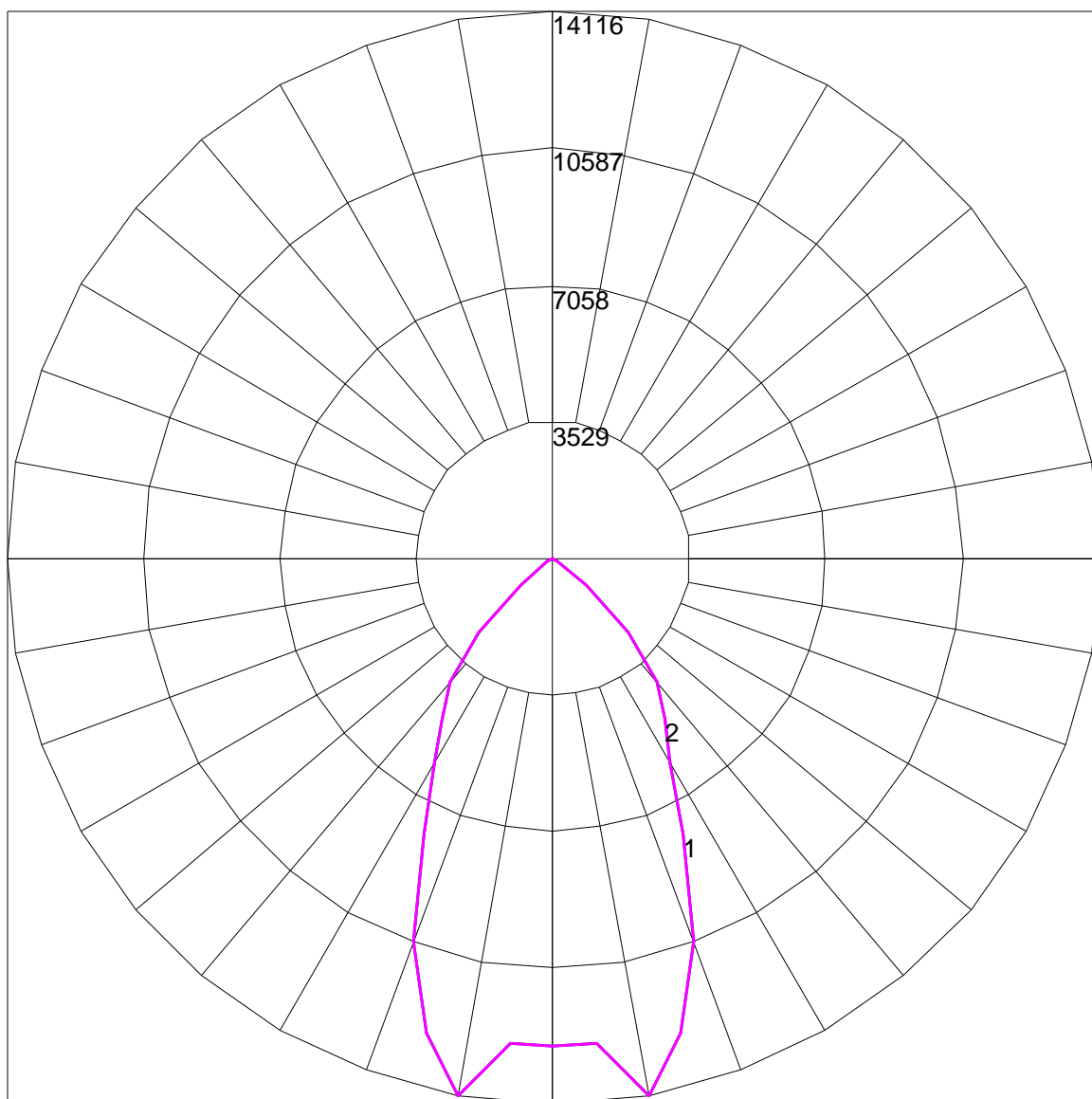
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

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POLAR GRAPH



Maximum Candela = 14115.93 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)