

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00652\_8 ~ C0812YKXT-20LXXK-WDEX-TSG-FG.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00652\_8\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 6/29/2017  
 [UPDATE] 3/30/2018  
 [LUMCAT] C0812YKXT-20L-xxK-WD-EX-TSG-FG  
 [LUMINAIRE] Nom.8" Diam. x 12" H Adjustable Yoke LED Cylinder Downlight  
 [OTHER] Upper, Internal Reflector, Wide Beam  
 [OTHER] Lower Trim, Semi-Diffuse, Clear Anodized Aluminum  
 [OTHER] Frosted Glass Lens, Regressed in Lower Trim  
 [OTHER] 54.9 Degree Beam Angle  
 [LAMPCAT] N/A, 19mm LES  
 [LAMP] N/A, 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, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.68 ft (Diameter)
Luminous Width (90-270)	0.68 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00652\_8 ~ C0812YKXT-20LXXK-WDEX-TSG-FG.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7813	8152	7482
55	1683	1823	1665
65	77	74	103
75	105	71	96
85	331	349	380

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00652\_8 ~ C0812YKXT-20LXXK-WDEX-TSG-FG.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1520.138	1520.138	1520.138	1520.138	1520.138
<b>5</b>	1491.677	1494.322	1490.368	1489.831	1477.329
<b>10</b>	1393.903	1400.985	1396.557	1396.428	1375.015
<b>15</b>	1241.387	1255.053	1248.224	1251.642	1222.602
<b>20</b>	1057.961	1078.288	1069.844	1077.086	1042.766
<b>25</b>	857.904	884.104	880.739	888.840	853.683
<b>30</b>	659.471	686.818	689.231	697.898	663.624
<b>35</b>	479.229	506.504	508.807	517.199	487.322
<b>40</b>	322.885	346.669	343.931	353.818	325.270
<b>45</b>	183.837	195.854	191.816	198.327	176.051
<b>50</b>	81.652	86.972	85.380	88.630	78.811
<b>55</b>	32.132	36.309	34.799	36.985	31.788
<b>60</b>	8.305	10.473	9.458	10.945	8.496
<b>65</b>	1.089	1.349	1.042	1.784	1.454
<b>70</b>	0.815	0.998	0.739	0.987	0.830
<b>75</b>	0.903	1.021	0.613	0.822	0.829
<b>80</b>	0.995	1.191	1.229	1.173	0.931
<b>85</b>	0.959	1.214	1.012	1.249	1.102
<b>90</b>	0.962	0.949	0.679	0.772	0.887

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Zone	Lumens	%Lamp	%Fixt
0-20	486.69	N.A.	34.70
0-30	888.39	N.A.	63.40
0-40	1204.47	N.A.	86.00
0-60	1395.72	N.A.	99.60
0-80	1399.98	N.A.	99.90
0-90	1401.14	N.A.	100.00
10-90	1261.97	N.A.	90.10
20-40	717.78	N.A.	51.20
20-50	872.51	N.A.	62.30
40-70	194.54	N.A.	13.90
60-80	4.26	N.A.	0.30
70-80	0.98	N.A.	0.10
80-90	1.15	N.A.	0.10
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	1401.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.17
10-20	347.52
20-30	401.70
30-40	316.08
40-50	154.73
50-60	36.52
60-70	3.29
70-80	0.98
80-90	1.15
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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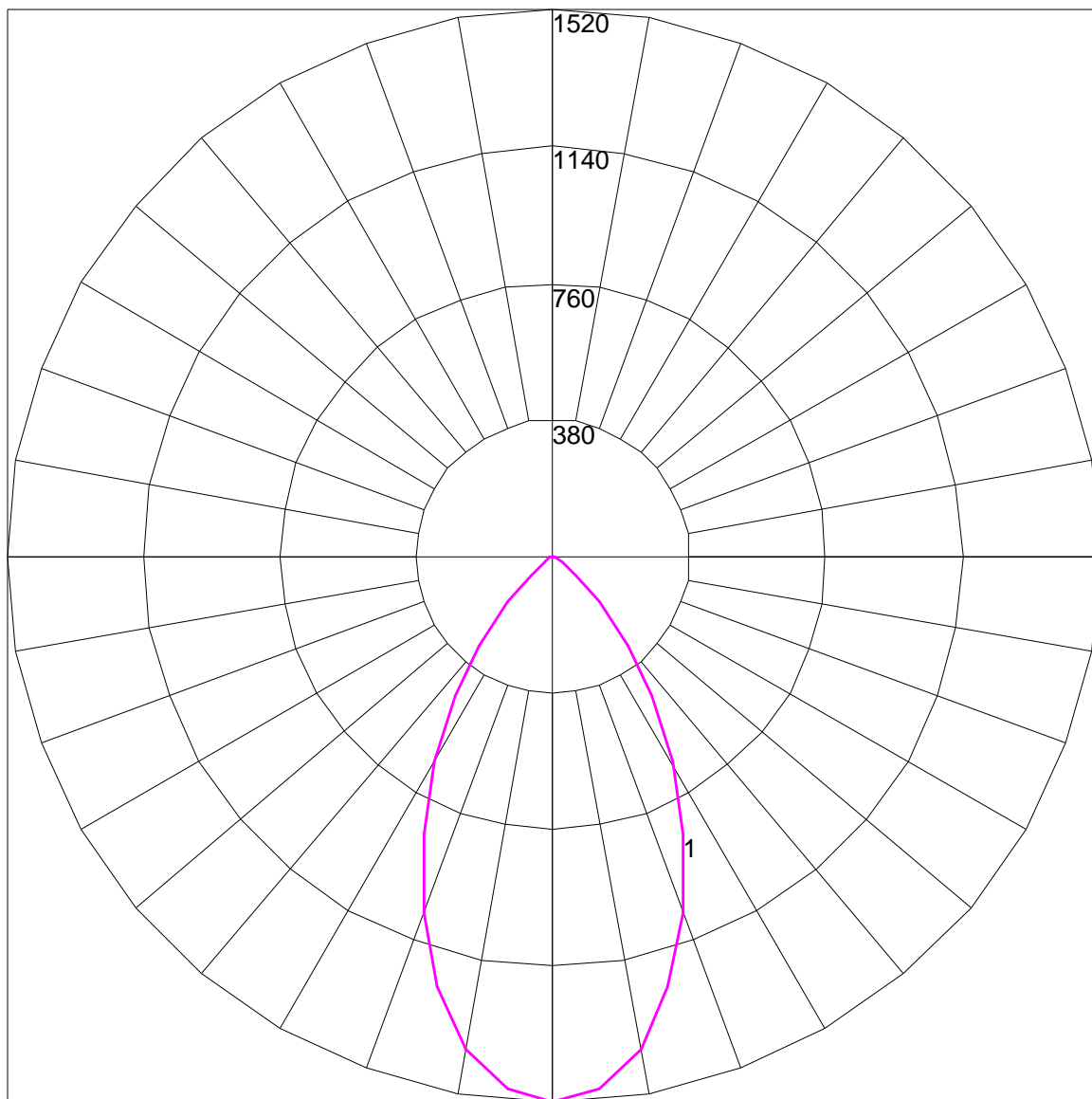
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47

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POLAR GRAPH



Maximum Candela = 1520.138 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)