

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00652\_2 ~ C0812YKXT-20LXXK-MDEX-TSG-NL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00652\_2\_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/30/2018

[LUMCAT] C0812YKXT-20L-xxK-MD-EX-TSG-NL

[LUMINAIRE] Nom.8" Diam. x 12" H Adjustable Yoke LED Cylinder Downlight

[OTHER] Upper, Internal Reflector, Medium Beam

[OTHER] Lower Trim, Semi-diffuse, Clear Anodized Aluminum

[OTHER] No Lens

[OTHER] 37.7 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	1721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.66
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\_2 ~ C0812YKXT-20LXXK-MDEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1333	1397	944
55	110	164	107
65	74	89	67
75	117	117	119
85	479	304	338

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00652\_2 ~ C0812YKXT-20LXXK-MDEX-TSG-NL.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>	3297.592	3297.592	3297.592	3297.592	3297.592
<b>5</b>	3123.880	3146.065	3119.581	3134.163	3075.581
<b>10</b>	2670.608	2715.318	2670.890	2701.366	2596.475
<b>15</b>	2077.069	2125.524	2080.961	2116.003	2003.617
<b>20</b>	1520.240	1563.068	1527.724	1555.887	1464.495
<b>25</b>	1093.943	1124.254	1100.669	1117.965	1052.838
<b>30</b>	775.773	798.064	776.890	786.283	725.501
<b>35</b>	458.347	489.403	459.079	471.778	400.799
<b>40</b>	162.161	191.847	167.183	181.077	130.026
<b>45</b>	31.367	27.873	32.875	29.500	22.202
<b>50</b>	6.464	7.770	8.270	7.531	5.385
<b>55</b>	2.093	2.781	3.131	2.733	2.039
<b>60</b>	1.153	1.399	1.571	1.247	1.111
<b>65</b>	1.035	1.211	1.253	1.085	0.941
<b>70</b>	1.355	1.147	1.045	0.881	1.195
<b>75</b>	1.010	1.042	1.006	1.313	1.025
<b>80</b>	1.012	1.015	0.947	1.305	0.903
<b>85</b>	1.389	1.063	0.883	1.081	0.979
<b>90</b>	0.794	0.559	0.954	0.603	1.281

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00652\_2 ~ C0812YKXT-20LXXK-MDEX-TSG-NL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	866.25	N.A.	50.30
0-30	1381.19	N.A.	80.30
0-40	1669.63	N.A.	97.00
0-60	1717.33	N.A.	99.80
0-80	1719.63	N.A.	99.90
0-90	1720.71	N.A.	100.00
10-90	1436.26	N.A.	83.50
20-40	803.38	N.A.	46.70
20-50	847.96	N.A.	49.30
40-70	48.86	N.A.	2.80
60-80	2.31	N.A.	0.10
70-80	1.15	N.A.	0.10
80-90	1.08	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	1720.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	284.45
10-20	581.80
20-30	514.94
30-40	288.44
40-50	44.58
50-60	3.11
60-70	1.16
70-80	1.15
80-90	1.08
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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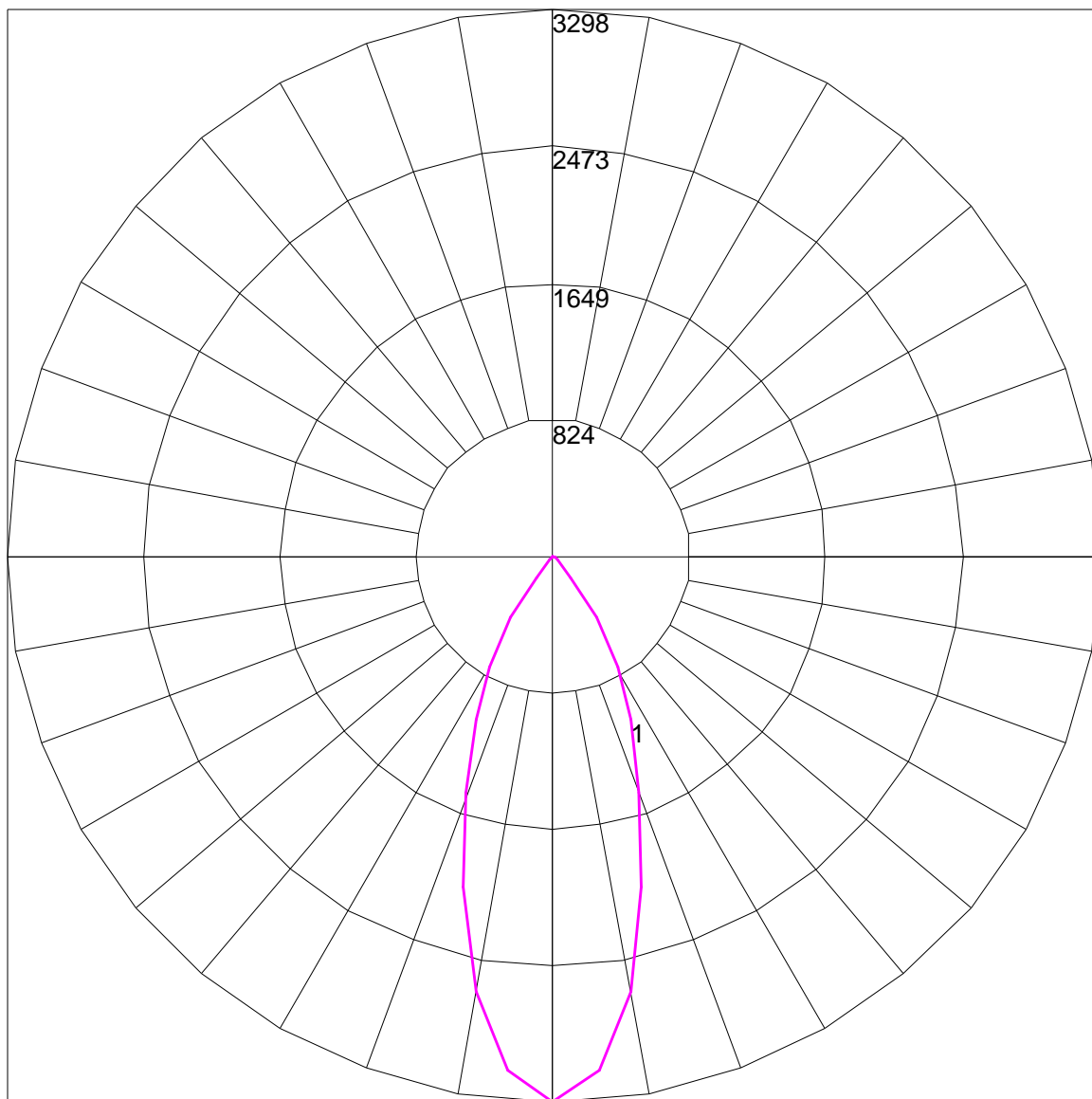
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58

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POLAR GRAPH



Maximum Candela = 3297.592 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)