

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00592\_5 ~ C08XXXT-13LXXK-NDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00592\_5\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/26/2018

[LUMCAT] C08xxXT-13L-xxK-ND-EX-TSG-GL

[LUMINAIRE] Nom.8" Diam. LED Cylinder Downlight

[OTHER] Data applicable to: 12"H and 18" H Cylinders

[OTHER] Upper, Internal Reflector, Narrow Beam

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

[OTHER] Clear Glass Lens, Regressed in Lower Trim

[OTHER] 22.7 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	1213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.42
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-00592\_5 ~ C08XXXT-13LXXK-NDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	519	749	529
55	31	54	39
65	42	35	60
75	78	43	79
85	195	197	158

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00592\_5 ~ C08XXXT-13LXXK-NDEX-TSG-GL.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>	4470.456	4470.456	4470.456	4470.456	4470.456
<b>5</b>	3907.259	4041.373	3904.380	3864.097	3820.978
<b>10</b>	2541.719	2664.566	2557.684	2498.602	2416.423
<b>15</b>	1392.858	1472.458	1412.565	1372.246	1300.324
<b>20</b>	802.028	841.740	818.571	794.419	753.918
<b>25</b>	545.253	567.083	554.156	539.221	515.744
<b>30</b>	412.117	432.410	419.418	409.156	389.576
<b>35</b>	281.618	308.197	288.752	280.267	261.969
<b>40</b>	110.691	137.750	117.300	113.194	104.728
<b>45</b>	12.205	5.188	17.627	14.992	12.437
<b>50</b>	0.900	0.847	1.191	1.375	1.375
<b>55</b>	0.589	0.895	1.026	0.552	0.749
<b>60</b>	0.492	0.721	0.643	0.354	0.413
<b>65</b>	0.591	0.416	0.497	0.658	0.840
<b>70</b>	0.823	0.601	0.536	0.582	0.839
<b>75</b>	0.676	0.498	0.372	0.486	0.679
<b>80</b>	0.599	0.381	0.411	0.397	0.516
<b>85</b>	0.565	0.690	0.572	0.584	0.458
<b>90</b>	0.617	0.512	0.774	0.437	0.380

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Zone	Lumens	%Lamp	%Fixt
0-20	748.12	N.A.	61.70
0-30	1012.22	N.A.	83.40
0-40	1183.48	N.A.	97.60
0-60	1211.32	N.A.	99.90
0-80	1212.45	N.A.	100.00
0-90	1213.04	N.A.	100.00
10-90	881.35	N.A.	72.70
20-40	435.36	N.A.	35.90
20-50	462.48	N.A.	38.10
40-70	28.42	N.A.	2.30
60-80	1.13	N.A.	0.10
70-80	0.55	N.A.	0.00
80-90	0.59	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	1213.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	331.69
10-20	416.43
20-30	264.10
30-40	171.26
40-50	27.11
50-60	0.73
60-70	0.58
70-80	0.55
80-90	0.59
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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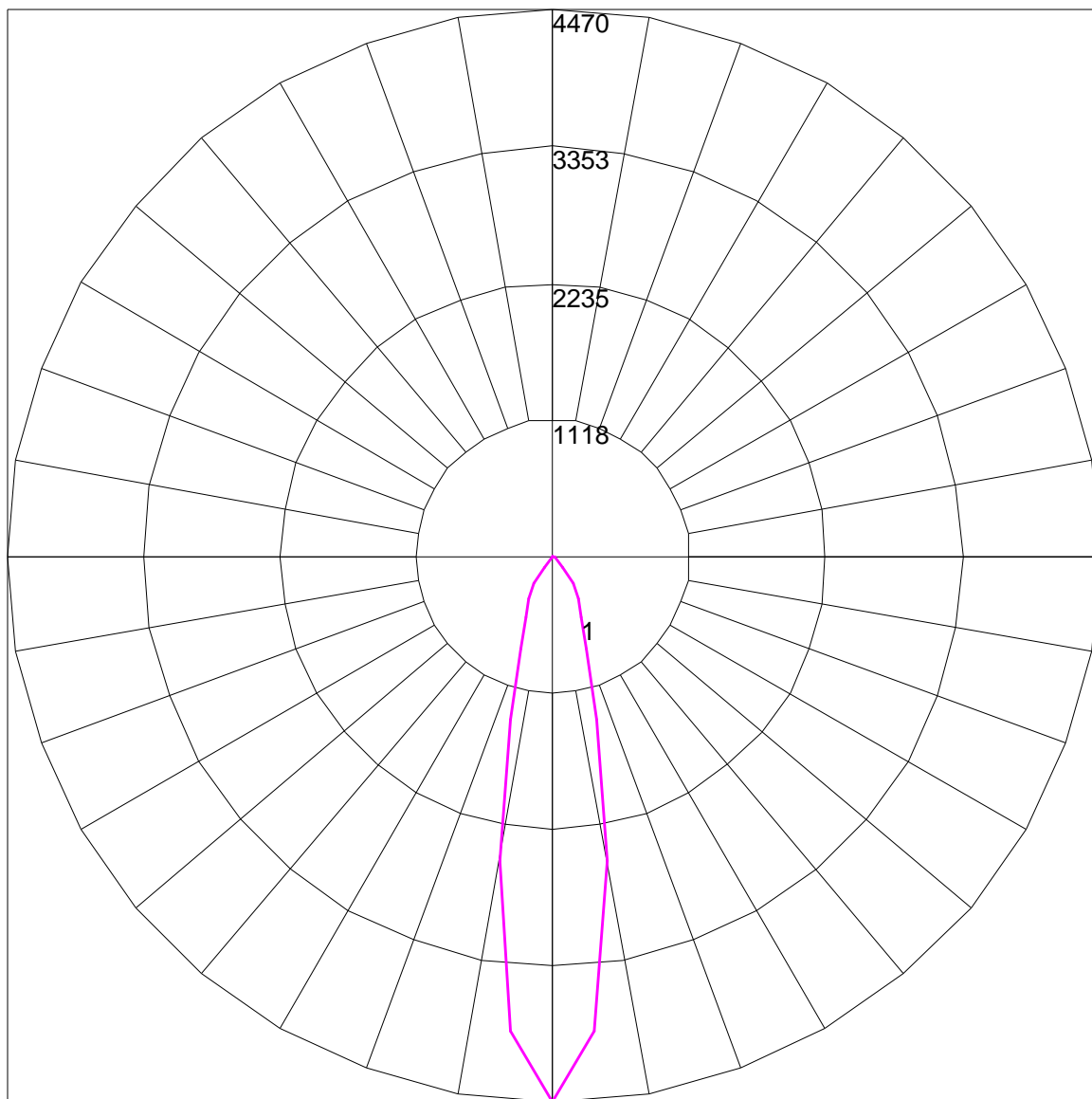
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65

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POLAR GRAPH



Maximum Candela = 4470.456 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)