

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00567_2 ~ C0412XT-20LXXK-NDEX-NLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00567_2_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/17/2017
 [UPDATE] 5/31/2017
 [LUMINAIRE] Nom.4" Diam x 11.5"H. LED Cylinder XT Series, Narrow Beam
 [LUMCAT] C0412XT-20L-xxK-ND-EX-NL-xx-MW
 [OTHER] Matte White finish, No lens
 [OTHER] 18 Degree Beam Angle
 [LAMP] N/A
 [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, scaled from 50L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.26 ft (Diameter)
Luminous Width (90-270)	0.26 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	323	169	294
55	193	129	291
65	400	239	295
75	360	387	407
85	626	1255	624

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	9379.789	9379.789	9379.789	9379.789	9379.789
5	7525.421	7623.025	7529.212	7581.244	7460.089
10	3975.050	3978.527	3998.183	3974.953	3987.394
15	1720.053	1737.530	1763.406	1750.338	1790.119
20	885.280	893.480	917.306	922.440	949.397
25	583.785	598.905	604.755	619.164	628.718
30	328.347	343.481	346.675	364.305	363.837
35	84.145	81.192	89.086	91.276	103.175
40	2.354	1.521	1.722	1.912	3.080
45	1.170	0.601	0.612	0.629	1.068
50	0.623	0.698	0.422	0.451	1.110
55	0.567	0.290	0.379	0.729	0.856
60	0.594	0.464	0.552	0.646	0.793
65	0.866	0.780	0.517	0.546	0.640
70	0.682	0.332	0.623	0.439	0.403
75	0.478	0.285	0.514	0.470	0.540
80	0.691	1.190	0.610	0.663	0.652
85	0.280	0.501	0.561	0.344	0.279
90	0.580	0.209	0.460	0.474	0.671

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Zone	Lumens	%Lamp	%Fixt
0-20	1175.04	N.A.	76.40
0-30	1455.61	N.A.	94.60
0-40	1535.39	N.A.	99.80
0-60	1536.67	N.A.	99.90
0-80	1537.83	N.A.	100.00
0-90	1538.39	N.A.	100.00
10-90	923.11	N.A.	60.00
20-40	360.35	N.A.	23.40
20-50	361.13	N.A.	23.50
40-70	1.87	N.A.	0.10
60-80	1.16	N.A.	0.10
70-80	0.57	N.A.	0.00
80-90	0.56	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	1538.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	615.28
10-20	559.76
20-30	280.57
30-40	79.78
40-50	0.77
50-60	0.51
60-70	0.59
70-80	0.57
80-90	0.56
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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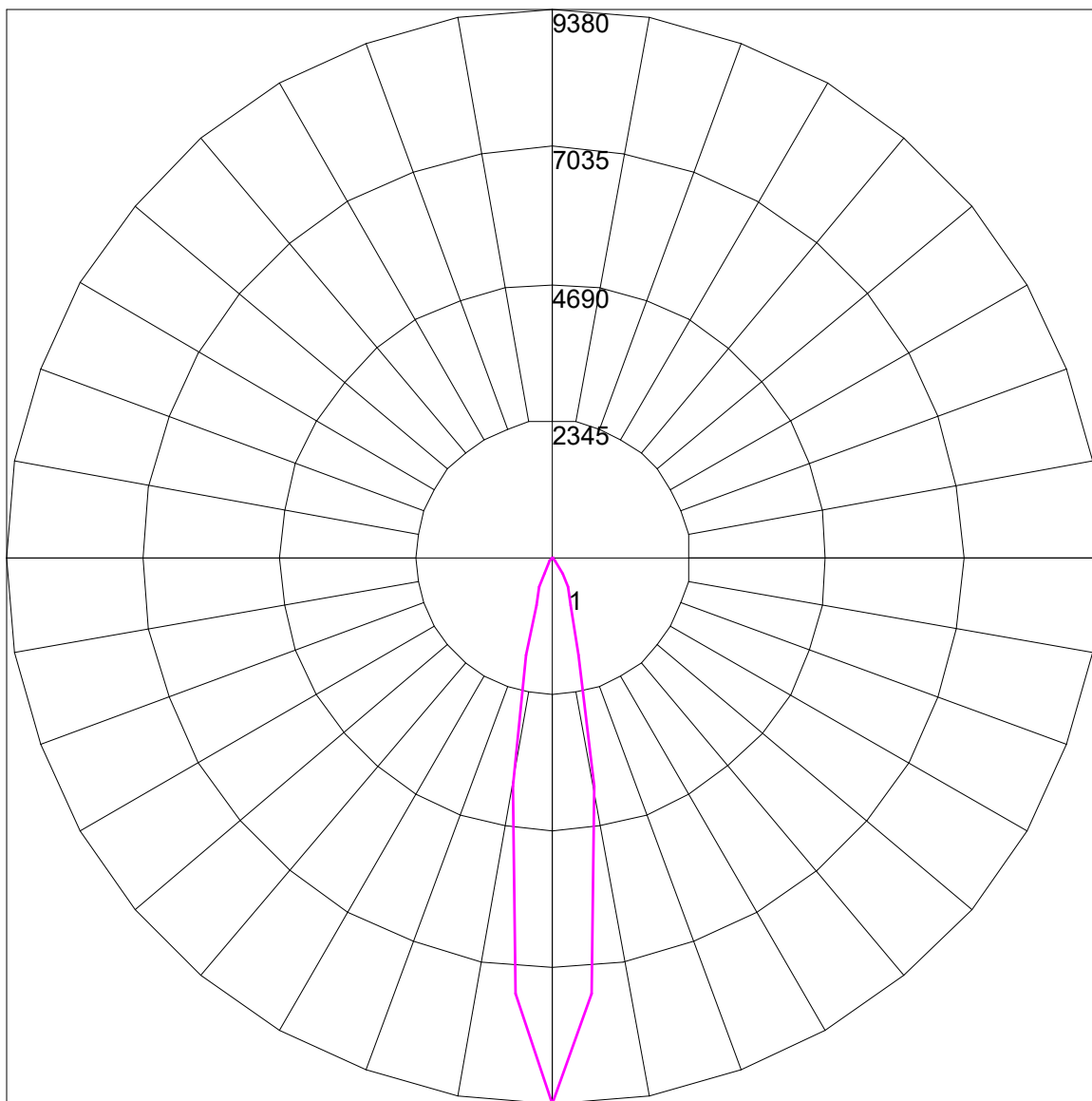
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	91	88	86	85
6	99	93	89	86	98	92	88	85	91	87	85	89	87	84	88	86	84	83
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80
8	94	87	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74

POLAR GRAPH



Maximum Candela = 9379.789 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)