

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-20LXXK-XNEX-MWGL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00596\_1  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 7/26/2017  
 [UPDATE] 8/24/2017  
 [LUMCAT] 3XT-20L-xxK-XN-EX-MW-GL  
 [LUMINAIRE] Nom. 3" Diam Head/Module  
 [OTHER] Xtra Narrow Beam / Clear Glass Lens  
 [OTHER] 12.5 Degree Beam Angle  
 [LAMP] N/A  
 [LAMPCAT] N/A, 9mm LES, Min. 83CRI  
 [OTHER] XT (Xicato) lumen output is same for all available CCT's at 9mm, 83CRI  
 [OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor or fan  
 [OTHER] Luminaire Watts for Surface/Suspended MULTIPLES = Module Watts x Qty  
 [OTHER] Luminaire Watts for Recessed MULTIPLES = Module Watts x Qty + 2W Thermal sensor +  
 [OTHER] Specific recessed units require active cooling approx. 1W per module, see Spec Sheets  
 [OTHER] Photometric Data for Head/Module applicable to the following:  
 [OTHER] SPECTRAC: Track Heads: STT3XT, STC3XT, SDT3XT series  
 [OTHER] MULTIPLES: 6" W Surface/Suspended: RCC66, RCC612, RCC618, RCC624  
 [OTHER] MULTIPLES: 8" W Recessed Slot: RC896, RC8120, RC8144, RC8168, RC8192  
 [OTHER] MULTIPLES: 6" W Recessed: RC66\*\*3, RC612\*\*3, RC618\*\*3, RC624\*\*3  
 [OTHER] \*\* indicates Trim variants: FT, RT, NF  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	35.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.28 ft (Diameter)
Luminous Width (90-270)	0.28 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-20LXXK-XNEX-MWGL.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1268	1393	954
55	878	686	357
65	321	610	671
75	935	764	1265
85	2109	2969	3286

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-20LXXK-XNEX-MWGL.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>	17138.600	17138.600	17138.600	17138.600	17138.600
<b>5</b>	10489.780	10496.580	10549.730	10596.850	10687.940
<b>10</b>	2738.191	2701.368	2572.661	2699.250	2737.968
<b>15</b>	830.494	829.882	807.156	843.470	851.021
<b>20</b>	590.054	591.532	592.778	597.324	600.224
<b>25</b>	536.669	538.059	537.702	540.529	546.132
<b>30</b>	371.880	372.432	385.997	374.117	379.593
<b>35</b>	101.701	105.225	115.525	110.377	111.076
<b>40</b>	10.668	7.534	6.660	7.821	7.715
<b>45</b>	4.953	4.519	5.442	4.430	3.727
<b>50</b>	4.185	2.627	2.901	3.311	2.281
<b>55</b>	2.781	2.896	2.174	2.170	1.130
<b>60</b>	1.577	1.754	1.882	3.225	2.535
<b>65</b>	0.750	2.273	1.423	1.669	1.566
<b>70</b>	0.980	1.644	2.203	2.032	1.715
<b>75</b>	1.336	1.297	1.092	2.808	1.808
<b>80</b>	1.590	1.121	1.353	1.457	1.260
<b>85</b>	1.015	1.680	1.429	1.265	1.582
<b>90</b>	0.000	0.000	0.643	0.000	2.514

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-20LXXK-XNEX-MWGL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1130.09	N.A.	77.00
0-30	1364.97	N.A.	93.00
0-40	1456.16	N.A.	99.30
0-60	1462.23	N.A.	99.70
0-80	1465.76	N.A.	99.90
0-90	1467.03	N.A.	100.00
10-90	662.44	N.A.	45.20
20-40	326.06	N.A.	22.20
20-50	329.93	N.A.	22.50
40-70	7.88	N.A.	0.50
60-80	3.53	N.A.	0.20
70-80	1.73	N.A.	0.10
80-90	1.27	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	1467.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	804.59
10-20	325.50
20-30	234.88
30-40	91.18
40-50	3.87
50-60	2.20
60-70	1.81
70-80	1.73
80-90	1.27
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

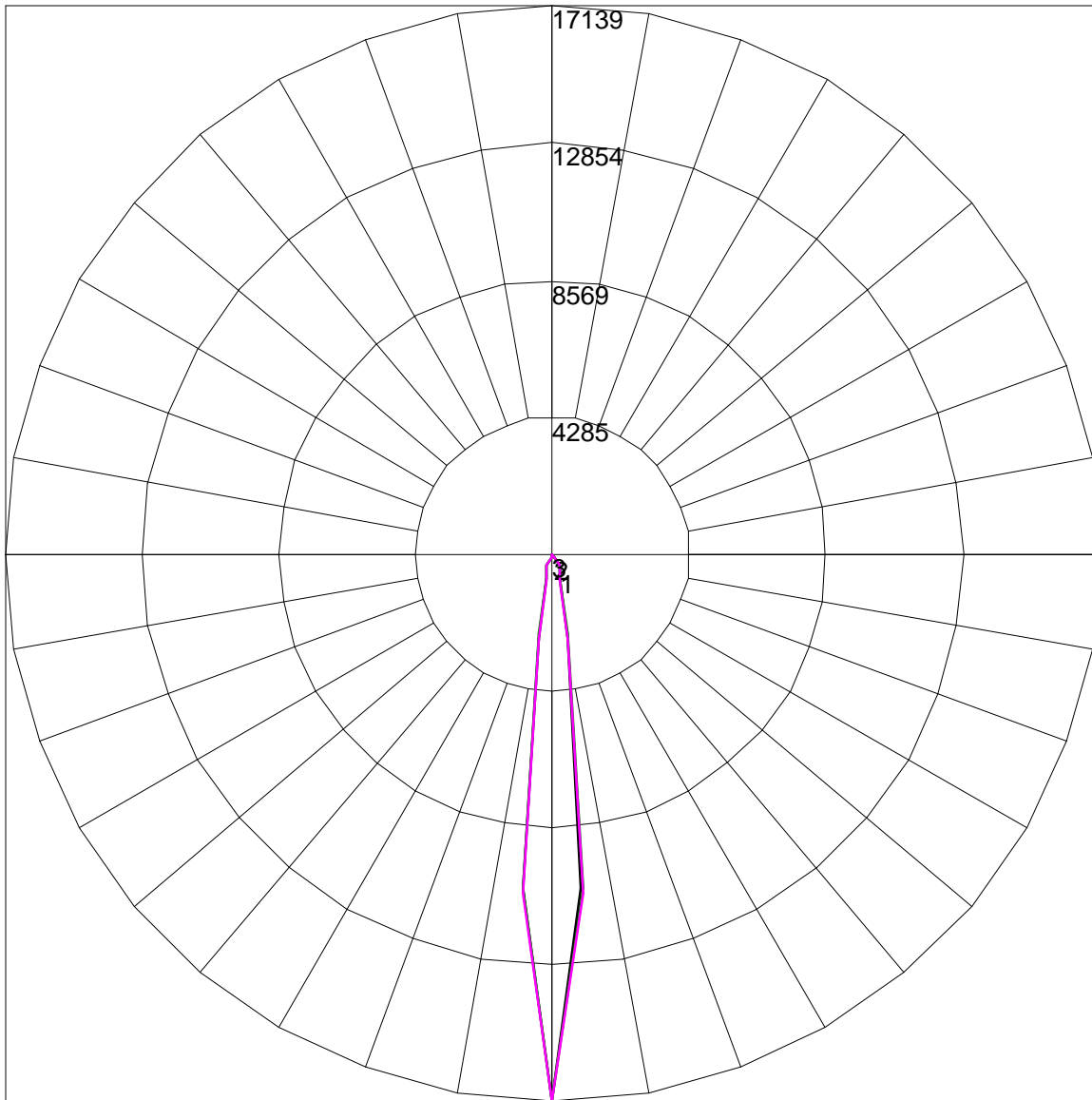
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-20LXXK-XNEX-MWGL.IES**

**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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88
6	101	95	91	88	99	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	81	80	79

POLAR GRAPH



Maximum Candela = 17138.6 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)