

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00596 ~ 3XT-20LXXK-XNEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00596
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/26/2017
[UPDATE] 8/24/2017
[LUMCAT] 3XT-20L-xxK-XN-EX-MW-NL
[LUMINAIRE] Nom. 3" Diam Head/Module
[OTHER] Xtra Narrow Beam / No Lens
[OTHER] 12.4 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	1588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	353	274	300
55	528	403	315
65	416	446	750
75	1070	416	695
85	2349	3388	3108

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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	19379.480	19379.480	19379.480	19379.480	19379.480
5	11738.280	11585.990	11828.510	11681.910	11904.930
10	3074.510	2850.413	2933.102	2809.749	3013.682
15	888.969	790.306	870.598	808.373	889.337
20	634.947	630.406	634.797	638.138	635.223
25	593.644	592.057	593.160	589.449	588.430
30	384.284	441.043	383.564	430.992	376.213
35	86.392	78.967	93.847	85.320	88.794
40	3.775	1.186	2.600	1.701	1.881
45	1.380	1.009	1.070	1.196	1.171
50	1.504	1.094	0.975	1.634	1.858
55	1.672	1.793	1.278	1.794	0.997
60	0.860	2.194	1.483	1.206	0.538
65	0.972	1.962	1.041	0.705	1.751
70	1.370	1.122	0.851	0.921	1.819
75	1.529	1.410	0.594	1.497	0.994
80	0.696	0.833	1.021	1.122	0.552
85	1.131	1.064	1.631	1.408	1.496
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1239.46	N.A.	78.00
0-30	1494.65	N.A.	94.10
0-40	1582.36	N.A.	99.60
0-60	1584.77	N.A.	99.80
0-80	1587.19	N.A.	99.90
0-90	1588.17	N.A.	100.00
10-90	692.59	N.A.	43.60
20-40	342.91	N.A.	21.60
20-50	344.00	N.A.	21.70
40-70	3.66	N.A.	0.20
60-80	2.42	N.A.	0.20
70-80	1.16	N.A.	0.10
80-90	0.98	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	1588.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	895.58
10-20	343.88
20-30	255.19
30-40	87.72
40-50	1.10
50-60	1.31
60-70	1.25
70-80	1.16
80-90	0.98
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

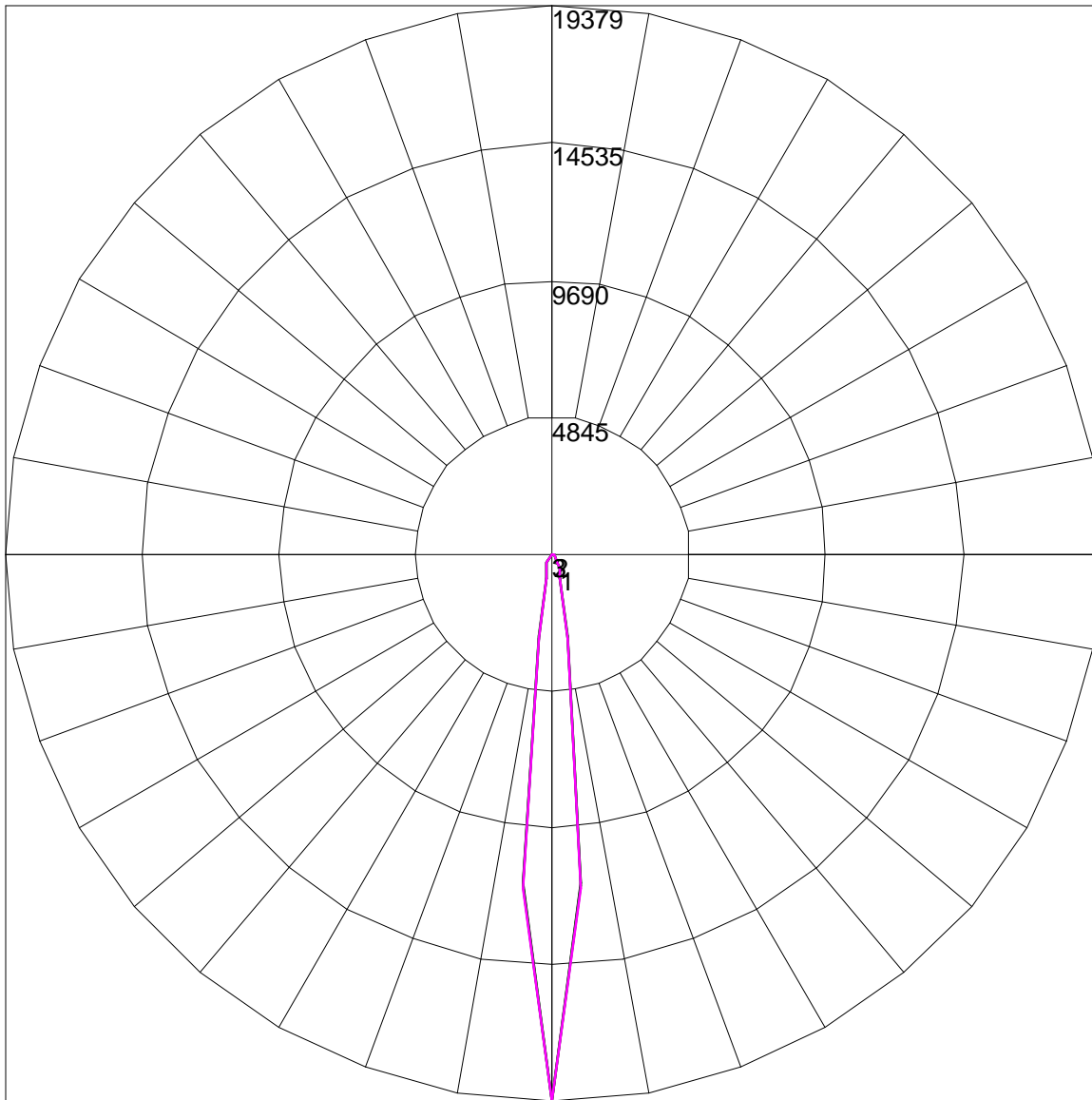
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93
4	106	101	98	95	105	100	97	94	98	96	93	97	94	92	95	93	91	90
5	103	98	95	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86
7	99	93	89	87	98	93	89	87	91	88	86	90	88	86	90	87	85	85
8	97	91	87	85	96	90	87	85	90	86	84	89	86	84	88	86	84	83
9	95	89	85	83	94	88	85	83	88	85	83	87	84	82	86	84	82	81
10	93	87	84	81	92	87	83	81	86	83	81	85	83	81	85	82	81	80

POLAR GRAPH



Maximum Candela = 19379.48 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)