

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_10 ~ 4XT-10LXXK-XWEX-MWGL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_10\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/5/2017  
 [UPDATE] 8/21/2017  
 [LUMINAIRE] Nom. 4" Dia Head/Module, Xtra Wide Beam  
 [LUMCAT] 4XT-10L-xxK-XW-EX-MW-GL  
 [OTHER] Matte White finish, clear glass lens  
 [OTHER] 55.8 Degree Beam Angle  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES, Min. 83CRI  
 [OTHER] XT (Xicato) lumen output is same for all available CCT's at 19mm, 83CRI  
 [OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor  
 [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: STT4XT, STH4XT, STV4XT series  
 [OTHER] MULTIPLES: 8" W Surface/Suspended: RCC816, RCC824, RCC848, RCC896  
 [OTHER] MULTIPLES: 6" W Recessed: RC66\*\*4, RC612\*\*4, RC618\*\*4, RC624\*\*4  
 [OTHER] \*\* indicates Trim variants: FT, RT, NF  
 [OTHER] MULTIPLES: 12" x 12" Recessed: RC1212FT4  
 [OTHER] MULTIPLES: 2' x 2' Recessed Grid Ceiling: GC24241X, GC24242X, GC24244X  
 [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	823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_10 ~ 4XT-10LXXK-XWEX-MWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5116	5024	5437
55	2238	2319	2449
65	1997	2007	2173
75	3022	2921	2835
85	3540	4048	3376

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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>
<b>0</b>	1028.909	1028.909	1028.909	1028.909	1028.909
<b>5</b>	1015.468	1015.623	1011.895	1007.428	1001.581
<b>10</b>	968.154	970.562	963.160	960.091	950.959
<b>15</b>	899.547	905.425	897.801	895.555	885.575
<b>20</b>	798.925	810.532	801.888	803.870	792.051
<b>25</b>	644.466	663.419	653.924	663.410	647.577
<b>30</b>	418.684	438.727	426.396	442.203	429.634
<b>35</b>	185.153	181.595	172.542	188.792	194.483
<b>40</b>	64.338	64.947	62.011	68.641	68.751
<b>45</b>	29.297	29.481	28.770	30.792	31.135
<b>50</b>	15.734	15.571	16.253	16.709	16.860
<b>55</b>	10.395	11.012	10.770	12.005	11.377
<b>60</b>	7.710	8.288	8.245	8.426	8.546
<b>65</b>	6.835	7.499	6.869	7.443	7.438
<b>70</b>	6.834	7.085	6.913	6.893	6.820
<b>75</b>	6.334	6.969	6.123	6.091	5.942
<b>80</b>	5.281	4.960	4.540	4.162	4.127
<b>85</b>	2.499	2.660	2.857	2.314	2.383
<b>90</b>	0.355	0.287	0.679	0.281	0.359

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	345.58	N.A.	42.00
0-30	636.56	N.A.	77.40
0-40	768.77	N.A.	93.40
0-60	806.17	N.A.	98.00
0-80	819.92	N.A.	99.70
0-90	822.68	N.A.	100.00
10-90	727.67	N.A.	88.50
20-40	423.19	N.A.	51.40
20-50	450.15	N.A.	54.70
40-70	44.76	N.A.	5.40
60-80	13.75	N.A.	1.70
70-80	6.39	N.A.	0.80
80-90	2.76	N.A.	0.30
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	822.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.01
10-20	250.57
20-30	290.97
30-40	132.22
40-50	26.95
50-60	10.45
60-70	7.36
70-80	6.39
80-90	2.76
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

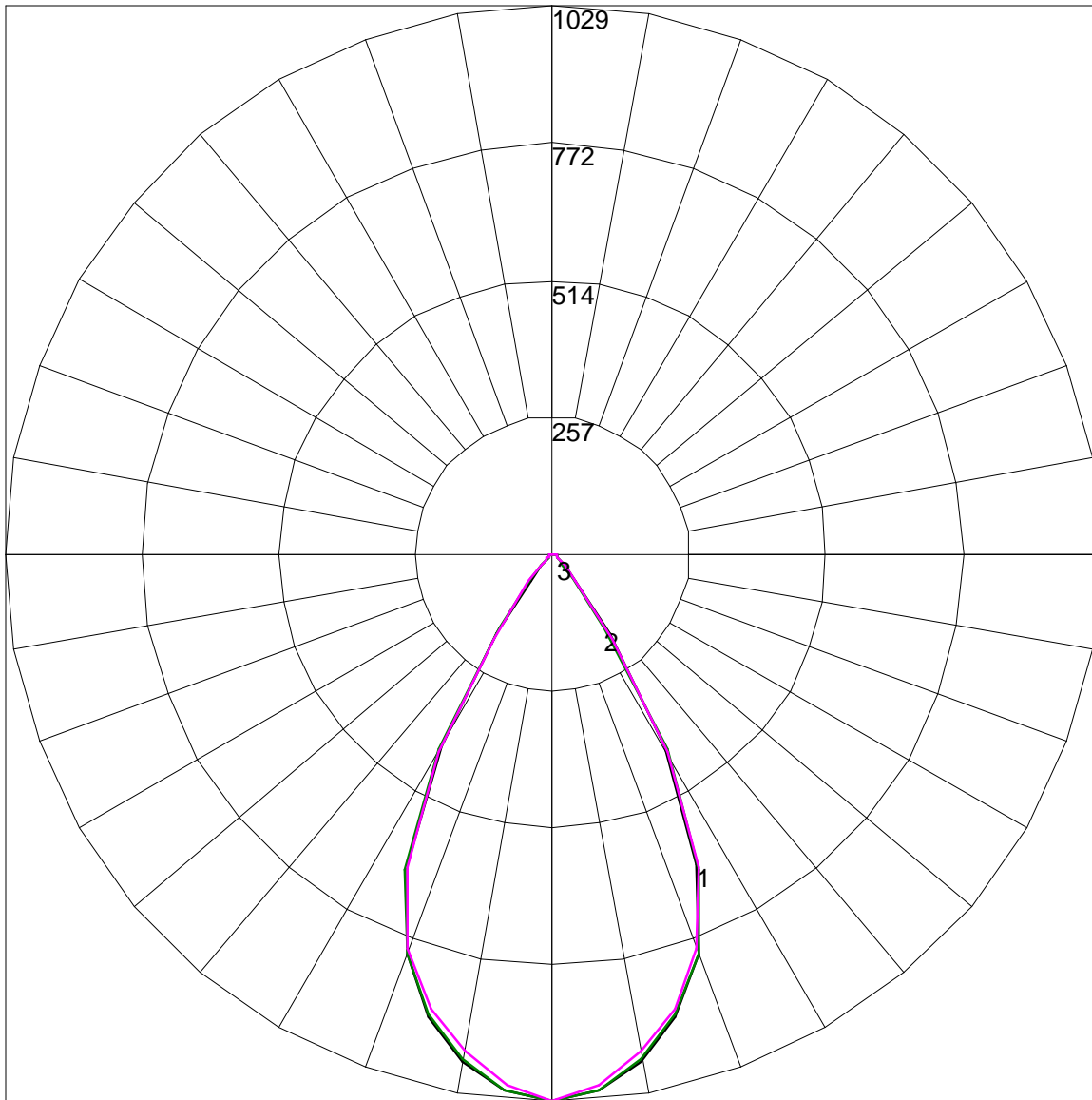
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	80	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

POLAR GRAPH



Maximum Candela = 1028.909 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)