

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_8 ~ 4XT-10LXXK-WDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_8\_M-30L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam  
[LUMCAT] 4XT-10L-xxK-WD-EX-MW-SO  
[OTHER] Matte White finish, no lens  
[OTHER] 37.3 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	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.64
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4772	5441	5375
55	3351	3508	3416
65	3320	3354	3159
75	2918	3403	3195
85	1684	3154	2268

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_8 ~ 4XT-10LXXK-WDEX-MWSO.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>	1612.833	1612.833	1612.833	1612.833	1612.833
<b>5</b>	1528.139	1543.530	1540.742	1539.790	1538.641
<b>10</b>	1323.014	1346.823	1338.406	1347.456	1336.185
<b>15</b>	1030.661	1056.974	1045.413	1061.642	1034.991
<b>20</b>	724.653	744.637	735.155	750.512	730.193
<b>25</b>	462.091	479.070	469.493	482.624	465.150
<b>30</b>	257.618	268.714	262.109	268.267	255.717
<b>35</b>	118.337	122.479	121.280	125.752	122.959
<b>40</b>	50.726	52.836	54.617	56.270	59.078
<b>45</b>	27.329	29.377	31.158	31.283	30.780
<b>50</b>	19.423	19.889	21.330	20.587	20.476
<b>55</b>	15.565	15.211	16.297	16.717	15.867
<b>60</b>	12.522	12.836	13.733	13.918	13.015
<b>65</b>	11.364	10.910	11.478	11.753	10.813
<b>70</b>	8.543	8.738	9.571	9.606	8.617
<b>75</b>	6.117	7.550	7.132	6.314	6.696
<b>80</b>	3.418	4.313	4.210	3.944	3.897
<b>85</b>	1.189	1.327	2.226	2.274	1.601
<b>90</b>	0.393	0.117	0.551	0.275	0.612

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	429.88	N.A.	53.90
0-30	650.46	N.A.	81.50
0-40	736.94	N.A.	92.30
0-60	777.58	N.A.	97.40
0-80	795.83	N.A.	99.70
0-90	798.01	N.A.	100.00
10-90	657.30	N.A.	82.40
20-40	307.06	N.A.	38.50
20-50	333.01	N.A.	41.70
40-70	51.80	N.A.	6.50
60-80	18.25	N.A.	2.30
70-80	7.09	N.A.	0.90
80-90	2.18	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	798.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	140.71
10-20	289.17
20-30	220.58
30-40	86.48
40-50	25.95
50-60	14.69
60-70	11.16
70-80	7.09
80-90	2.18
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

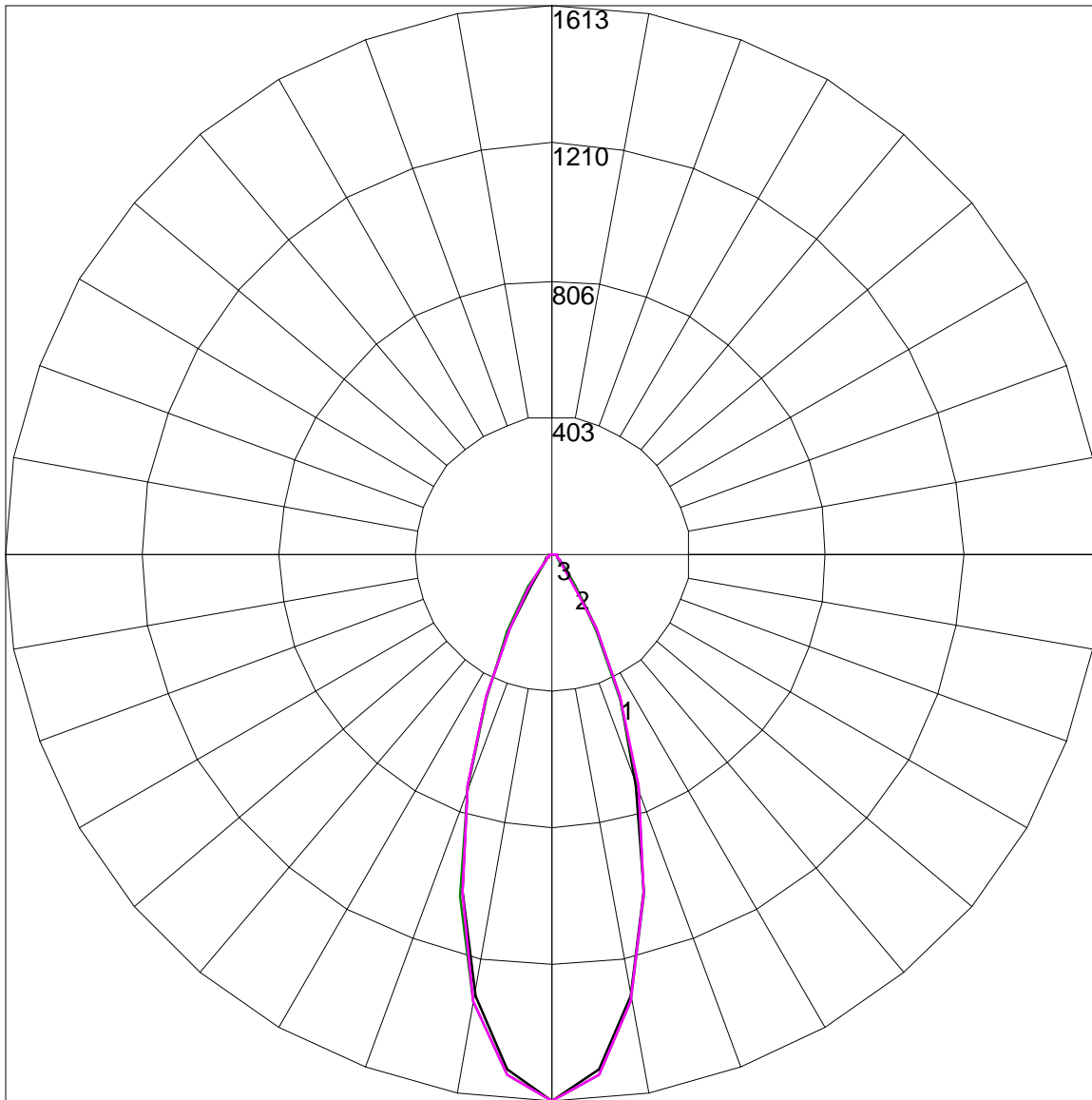
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58

POLAR GRAPH



Maximum Candela = 1612.833 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)