

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_6 ~ 4XT-30LXXK-WDEX-MWNL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_6  
 [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-30L-xxK-WD-EX-MW-NL  
 [OTHER] Matte White finish, no lens  
 [OTHER] 36.3 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2667
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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	8118	7853	7794
55	9845	9448	9818
65	9322	9474	8948
75	13071	12211	12217
85	19698	19231	18333

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_6 ~ 4XT-30LXXK-WDEX-MWNL.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>	5842.231	5842.231	5842.231	5842.231	5842.231
<b>5</b>	5554.774	5593.051	5567.751	5609.370	5580.495
<b>10</b>	4818.625	4905.184	4848.244	4927.219	4868.855
<b>15</b>	3663.200	3796.266	3708.117	3824.091	3721.185
<b>20</b>	2478.012	2571.580	2515.590	2601.899	2527.209
<b>25</b>	1590.370	1646.271	1615.273	1670.074	1642.325
<b>30</b>	802.323	884.809	835.260	906.658	837.751
<b>35</b>	231.895	262.365	249.340	277.889	239.260
<b>40</b>	56.881	52.323	57.367	56.426	59.138
<b>45</b>	46.490	45.528	44.970	46.812	44.631
<b>50</b>	47.228	43.334	42.990	45.132	46.564
<b>55</b>	45.731	43.356	43.889	44.448	45.605
<b>60</b>	41.386	41.330	40.693	41.431	41.514
<b>65</b>	31.906	35.034	32.426	33.879	30.627
<b>70</b>	26.558	26.914	27.959	26.703	26.658
<b>75</b>	27.398	28.270	25.595	25.081	25.607
<b>80</b>	24.486	26.677	25.010	24.849	24.026
<b>85</b>	13.904	15.690	13.574	13.413	12.940
<b>90</b>	2.038	0.998	1.253	0.816	1.612

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1542.75	N.A.	57.90
0-30	2297.88	N.A.	86.20
0-40	2514.62	N.A.	94.30
0-60	2590.82	N.A.	97.20
0-80	2651.9	N.A.	99.40
0-90	2666.73	N.A.	100.00
10-90	2155.74	N.A.	80.80
20-40	971.87	N.A.	36.40
20-50	1008.96	N.A.	37.80
40-70	109.53	N.A.	4.10
60-80	61.08	N.A.	2.30
70-80	27.76	N.A.	1.00
80-90	14.83	N.A.	0.60
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	2666.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	510.99
10-20	1031.76
20-30	755.13
30-40	216.74
40-50	37.09
50-60	39.11
60-70	33.32
70-80	27.76
80-90	14.83
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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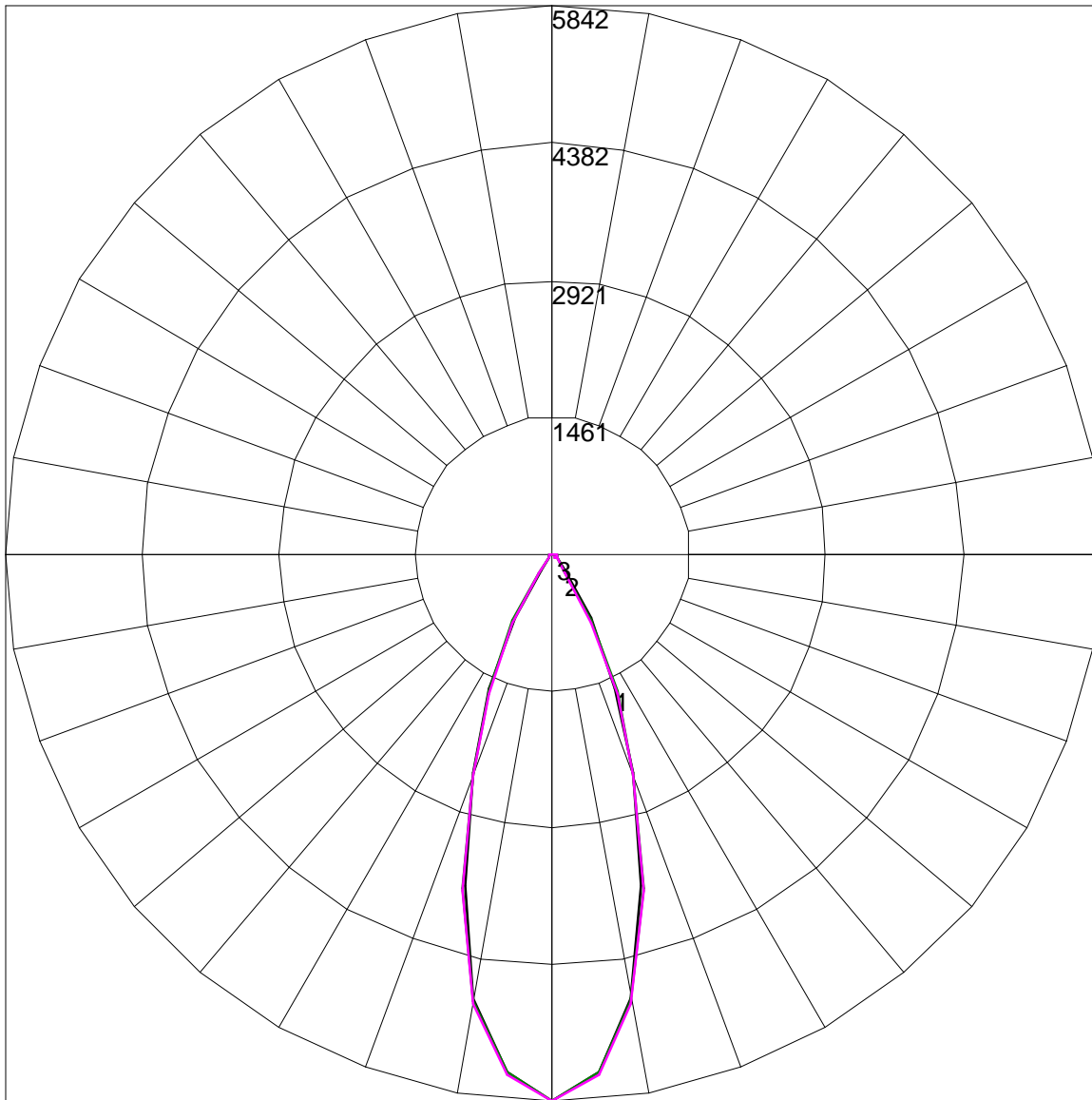
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	88	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63
10	79	71	66	62	78	70	65	62	70	65	62	69	65	62	68	64	62	61

POLAR GRAPH



Maximum Candela = 5842.231 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)