

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_7 ~ 4XT-30LXXK-WDEX-MWGL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_7  
 [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-35K-WD-EX-MW-GL  
 [OTHER] Matte White finish, clear glass 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, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	10442	10333	9634
55	9817	9865	10102
65	7656	6952	7023
75	9327	7868	7263
85	14342	13370	9251

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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>	5469.510	5469.510	5469.510	5469.510	5469.510
<b>5</b>	5198.962	5219.714	5210.519	5231.855	5206.334
<b>10</b>	4533.664	4578.725	4563.974	4602.076	4548.119
<b>15</b>	3455.497	3546.998	3475.387	3568.887	3490.105
<b>20</b>	2317.650	2404.417	2330.843	2421.377	2358.595
<b>25</b>	1497.307	1561.705	1513.954	1570.749	1528.977
<b>30</b>	818.001	873.636	821.492	890.812	842.669
<b>35</b>	251.228	293.992	245.185	294.399	265.871
<b>40</b>	70.474	79.631	66.683	71.344	65.759
<b>45</b>	59.800	61.352	59.174	58.283	55.172
<b>50</b>	53.582	54.766	55.437	54.788	55.082
<b>55</b>	45.603	46.972	45.824	46.451	46.925
<b>60</b>	35.989	35.989	34.607	34.781	33.650
<b>65</b>	26.203	28.272	23.796	26.878	24.037
<b>70</b>	22.943	23.046	19.477	19.198	17.750
<b>75</b>	19.551	21.000	16.493	17.299	15.223
<b>80</b>	18.882	17.472	15.269	14.691	11.947
<b>85</b>	10.123	10.117	9.437	9.787	6.530
<b>90</b>	1.643	0.746	1.774	0.470	0.878

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1443.01	N.A.	57.20
0-30	2156.43	N.A.	85.50
0-40	2379.88	N.A.	94.30
0-60	2467.89	N.A.	97.80
0-80	2513.63	N.A.	99.60
0-90	2523.33	N.A.	100.00
10-90	2045.45	N.A.	81.10
20-40	936.87	N.A.	37.10
20-50	984.05	N.A.	39.00
40-70	114.64	N.A.	4.50
60-80	45.74	N.A.	1.80
70-80	19.11	N.A.	0.80
80-90	9.70	N.A.	0.40
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	2523.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	477.88
10-20	965.14
20-30	713.42
30-40	223.45
40-50	47.18
50-60	40.83
60-70	26.63
70-80	19.11
80-90	9.70
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

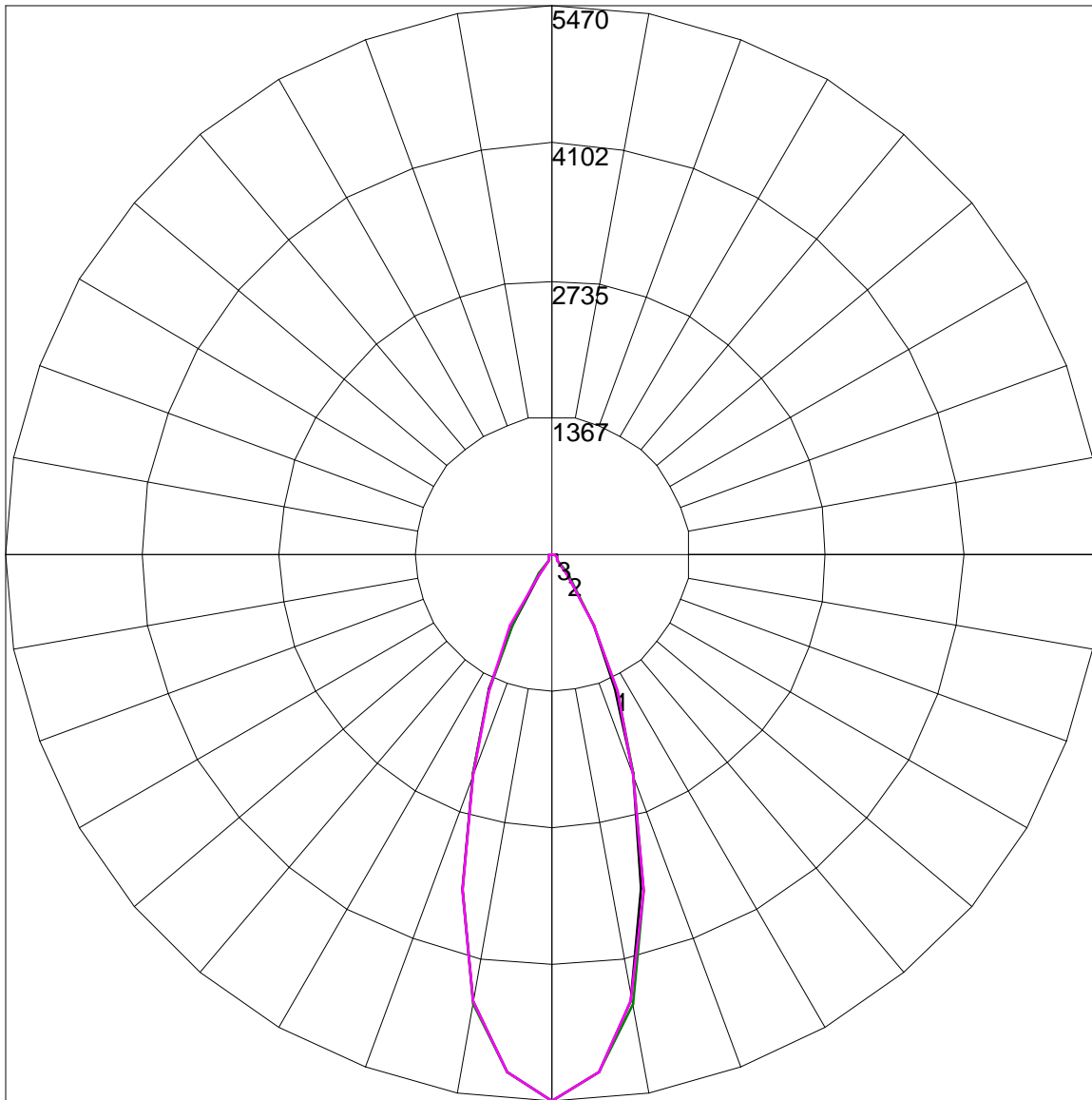
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	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	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	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	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60

POLAR GRAPH



Maximum Candela = 5469.51 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)