

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-10LXXK-MDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_5_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Medium Beam
[LUMCAT] 4XT-10L-xxK-MD-EX-MW-SO
[OTHER] Matte White finish, no lens
[OTHER] 28.3 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	791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
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	4691	4624	4597
55	3368	3189	3447
65	3420	3299	3370
75	2669	3062	3021
85	2180	2454	2910

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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	2181.914	2181.914	2181.914	2181.914	2181.914
5	1970.570	1998.863	1974.671	1991.144	1980.717
10	1498.232	1544.077	1519.904	1550.464	1519.932
15	1005.286	1043.788	1023.705	1053.574	1019.222
20	639.910	662.701	645.757	665.614	645.017
25	397.283	408.159	392.873	411.487	396.069
30	223.460	233.724	221.354	229.592	221.195
35	106.761	116.073	109.682	109.321	103.812
40	47.916	51.343	50.182	50.025	46.403
45	26.864	26.165	26.479	27.155	26.323
50	18.981	18.185	18.079	19.947	19.099
55	15.645	15.382	14.814	16.289	16.010
60	13.712	14.030	13.016	13.788	13.723
65	11.705	11.658	11.293	10.798	11.533
70	9.265	8.852	8.317	8.639	8.808
75	5.594	6.337	6.418	6.933	6.333
80	3.476	3.609	3.673	3.978	3.920
85	1.539	1.541	1.732	1.538	2.054
90	0.650	0.172	0.536	0.319	0.784

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	466.77	N.A.	59.00
0-30	657.18	N.A.	83.10
0-40	733.44	N.A.	92.70
0-60	770.97	N.A.	97.50
0-80	788.79	N.A.	99.70
0-90	790.82	N.A.	100.00
10-90	615.23	N.A.	77.80
20-40	266.67	N.A.	33.70
20-50	289.96	N.A.	36.70
40-70	48.68	N.A.	6.20
60-80	17.82	N.A.	2.30
70-80	6.67	N.A.	0.80
80-90	2.04	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	790.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.59
10-20	291.18
20-30	190.41
30-40	76.26
40-50	23.30
50-60	14.23
60-70	11.15
70-80	6.67
80-90	2.04
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

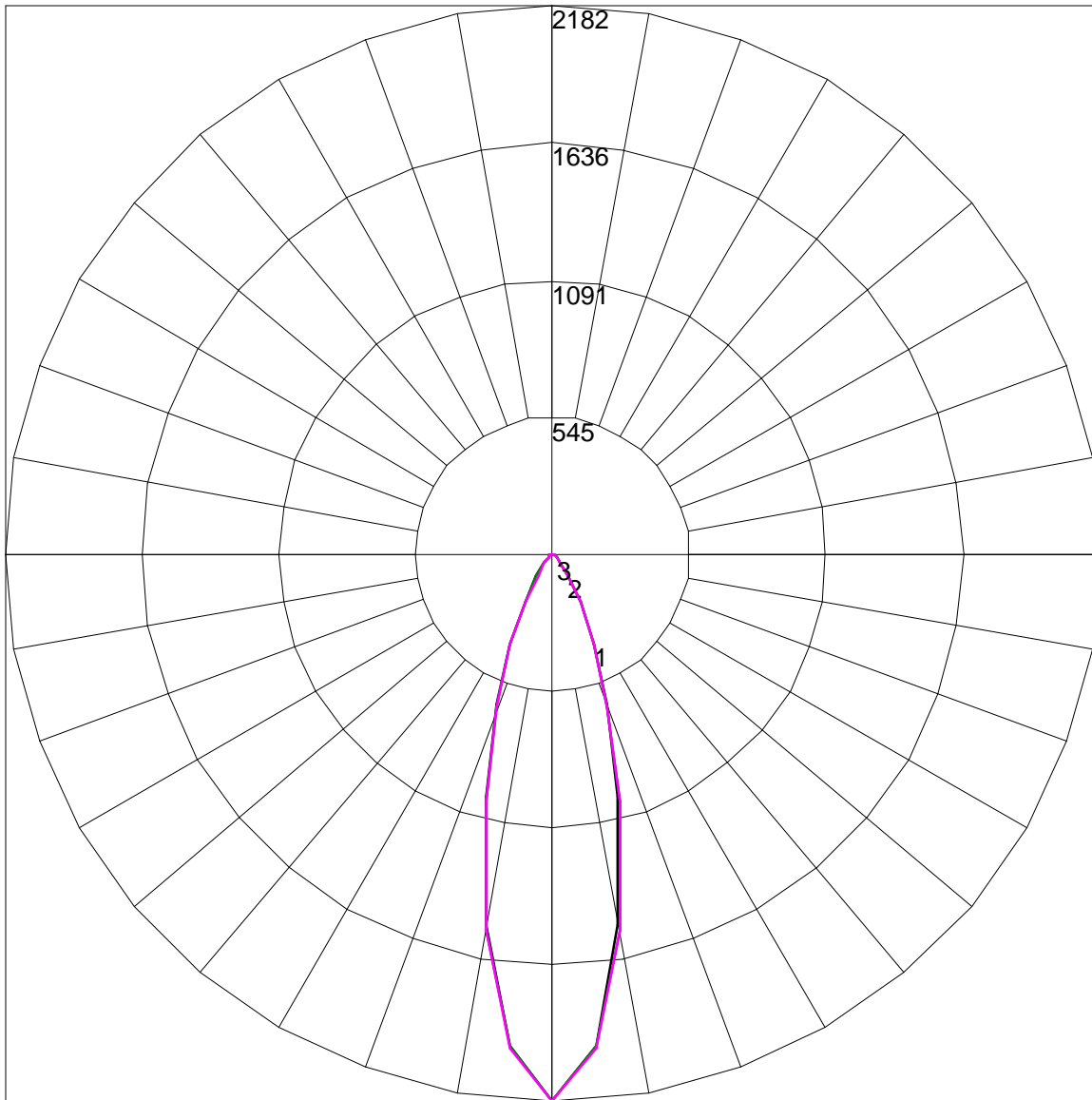
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	69	65	62	61

POLAR GRAPH



Maximum Candela = 2181.914 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)