

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-40LXXK-MDEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_5_M-40L
 [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-40L-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: 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	3154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	37.9
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-40LXXK-MDEX-MWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18709	18441	18332
55	13432	12719	13745
65	13639	13159	13438
75	10644	12211	12050
85	8696	9784	11604

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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	8701.882	8701.882	8701.882	8701.882	8701.882
5	7859.001	7971.840	7875.357	7941.054	7899.472
10	5975.231	6158.070	6061.662	6183.542	6061.772
15	4009.270	4162.824	4082.727	4201.851	4064.848
20	2552.081	2642.976	2575.399	2654.594	2572.447
25	1584.438	1627.814	1566.850	1641.088	1579.599
30	891.200	932.134	882.800	915.658	882.166
35	425.784	462.921	437.434	435.992	414.020
40	191.098	204.766	200.135	199.508	185.065
45	107.139	104.350	105.604	108.301	104.981
50	75.698	72.524	72.103	79.554	76.170
55	62.394	61.347	59.082	64.963	63.850
60	54.687	55.953	51.910	54.989	54.730
65	46.681	46.493	45.040	43.063	45.994
70	36.949	35.302	33.168	34.455	35.130
75	22.311	25.271	25.595	27.649	25.258
80	13.862	14.393	14.648	15.864	15.633
85	6.138	6.147	6.906	6.133	8.191
90	2.590	0.686	2.137	1.273	3.125

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1861.57	N.A.	59.00
0-30	2620.95	N.A.	83.10
0-40	2925.08	N.A.	92.70
0-60	3074.75	N.A.	97.50
0-80	3145.82	N.A.	99.70
0-90	3153.94	N.A.	100.00
10-90	2453.65	N.A.	77.80
20-40	1063.51	N.A.	33.70
20-50	1156.43	N.A.	36.70
40-70	194.15	N.A.	6.20
60-80	71.07	N.A.	2.30
70-80	26.60	N.A.	0.80
80-90	8.12	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	3153.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	700.29
10-20	1161.27
20-30	759.38
30-40	304.13
40-50	92.92
50-60	56.76
60-70	44.47
70-80	26.60
80-90	8.12
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

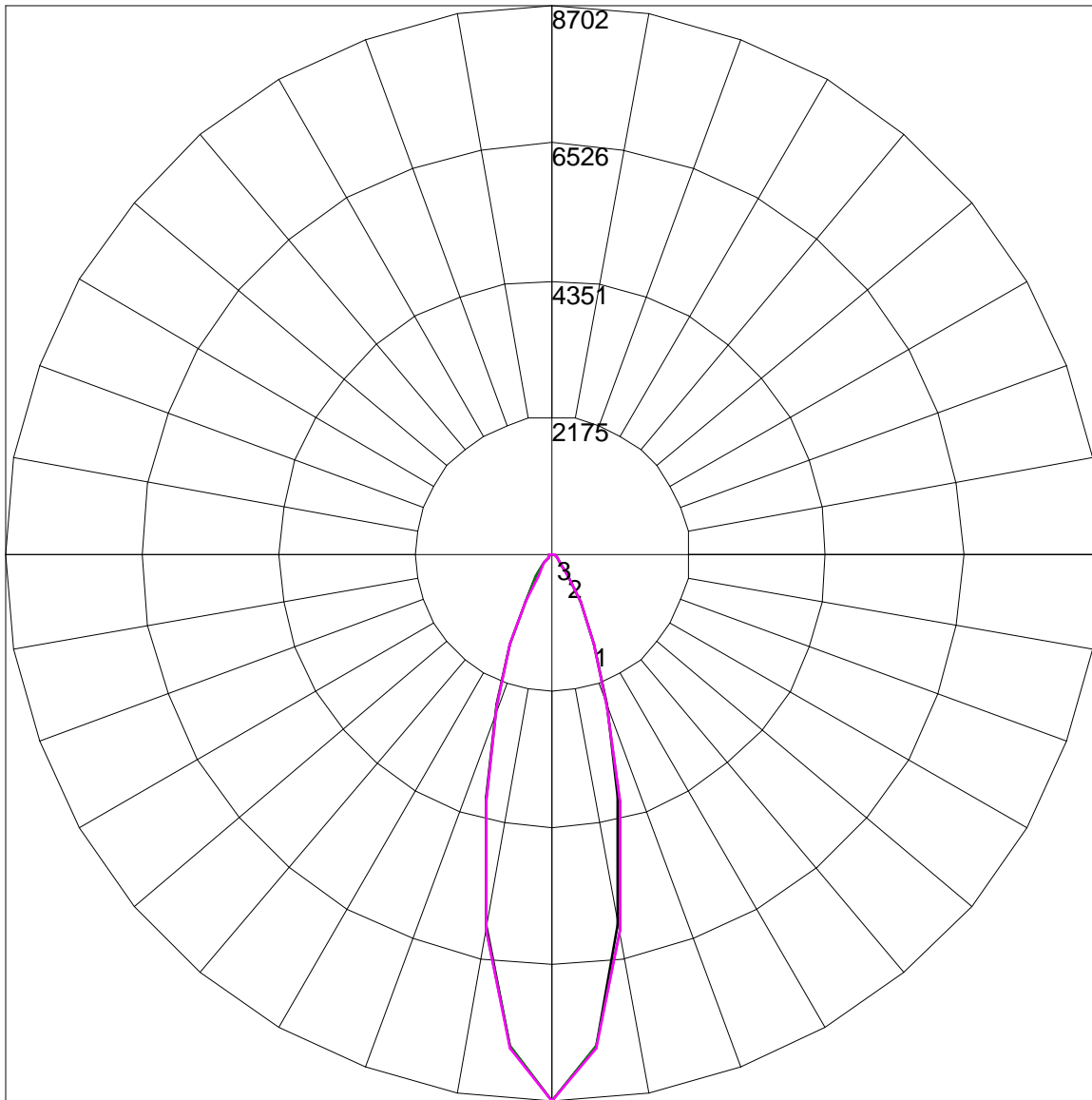
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	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	84	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	74	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 = 8701.882 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)