

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_1 ~ 4XT-40LXXK-NDEX-MWGL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_1_M-40L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/4/2017
 [UPDATE] 8/21/2017
 [LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam
 [LUMCAT] 4XT-40L-xxK-ND-EX-MW-GL
 [OTHER] Matte White finish, clear glass lens
 [OTHER] 16 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	3481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.34
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	5919	6403	6112
55	5192	6356	6730
65	7100	7381	7850
75	5670	6814	6666
85	8149	8958	8380

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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	19729.204	19729.204	19729.204	19729.204	19729.204
5	15655.089	15976.211	15470.080	15986.655	15329.874
10	8396.092	8668.692	8225.503	8691.169	8197.875
15	3754.262	3943.750	3733.712	3900.453	3706.215
20	2015.879	2105.268	2033.298	2084.903	2013.123
25	1374.223	1445.647	1403.360	1415.518	1381.504
30	813.368	855.507	811.993	873.438	814.678
35	268.972	287.187	268.622	313.496	267.367
40	54.120	71.554	63.670	61.706	53.921
45	33.894	42.385	36.666	37.755	35.004
50	26.353	28.919	28.085	30.611	30.913
55	24.117	26.724	29.523	28.172	31.263
60	26.350	26.489	30.918	29.631	31.386
65	24.301	26.951	25.261	25.083	26.869
70	16.099	19.307	17.367	16.250	17.831
75	11.884	15.486	14.282	12.348	13.973
80	12.688	13.447	12.009	14.077	14.688
85	5.752	7.852	6.323	5.349	5.915
90	1.746	0.757	1.522	0.874	1.323

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2504.32	N.A.	71.90
0-30	3152.92	N.A.	90.60
0-40	3376.22	N.A.	97.00
0-60	3433.94	N.A.	98.60
0-80	3473.58	N.A.	99.80
0-90	3480.98	N.A.	100.00
10-90	2191.28	N.A.	63.00
20-40	871.90	N.A.	25.00
20-50	904.03	N.A.	26.00
40-70	81.95	N.A.	2.40
60-80	39.64	N.A.	1.10
70-80	15.41	N.A.	0.40
80-90	7.39	N.A.	0.20
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	3480.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1289.7
10-20	1214.62
20-30	648.60
30-40	223.30
40-50	32.13
50-60	25.59
60-70	24.23
70-80	15.41
80-90	7.39
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

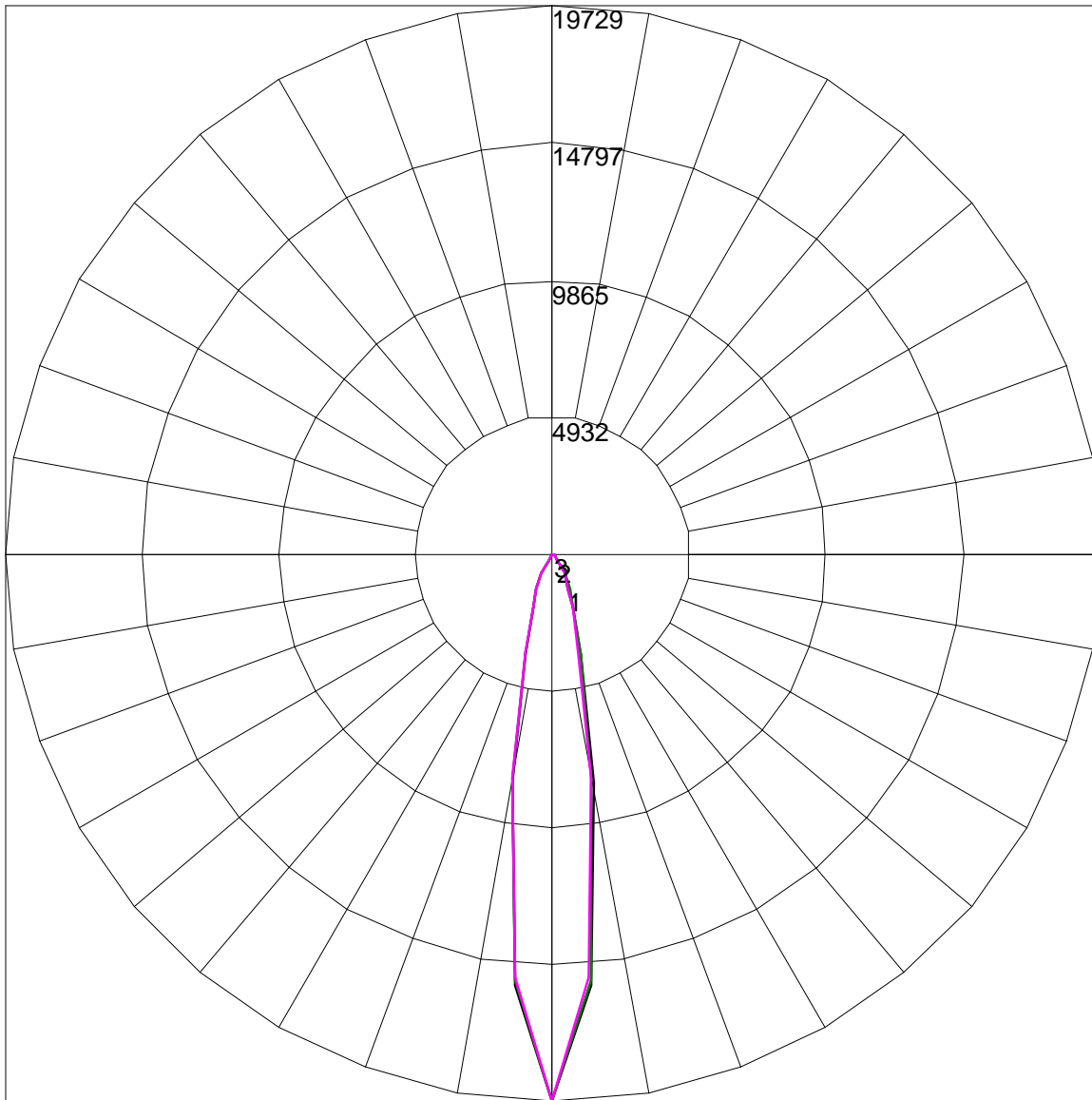
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	86	83	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	84	81	79	84	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	89	82	78	75	88	81	77	75	81	77	74	80	77	74	79	76	74	73
10	86	79	75	73	86	79	75	72	78	75	72	78	74	72	77	74	72	71

POLAR GRAPH



Maximum Candela = 19729.204 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)