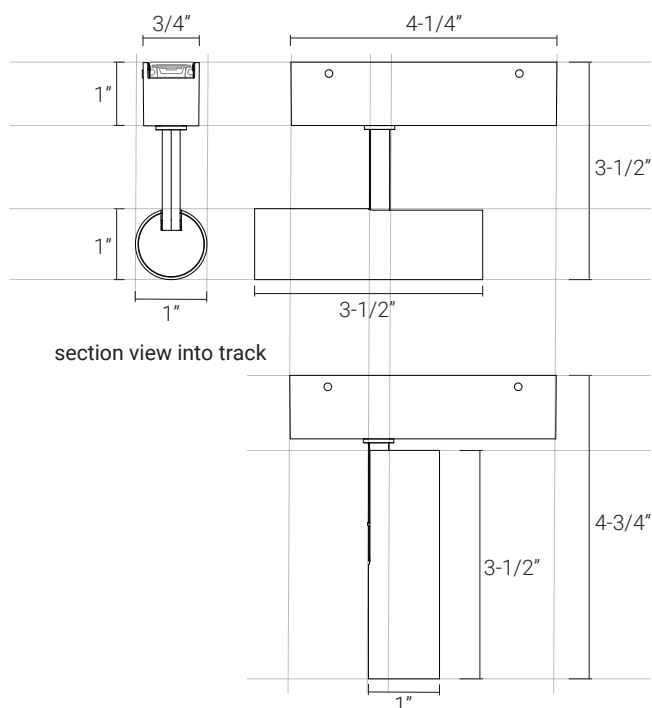




Rotate 355°



Tilt 90°



section view into track

SERIES	DELIVERED LUMENS	WATTAGE
FT-T2-1	500	9W

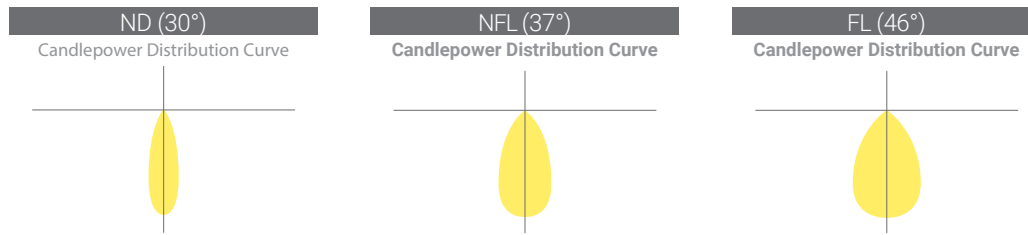
Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

TENSION 'CYLINDER' SERIES

The FT-T2-1 Cylinder Track Heads are crafted with black interiors and narrow distribution 30°, narrow flood 37°, and flood 46° TIR optics, providing precise beam control and reducing glare. The optics are field-changeable, with various lumen and distribution options.

Tension 'Cylinder Track' luminaires have nearly a full range of motion with a rotational limit of 355° and a tilt range of 85°. The luminaire serves as an excellent task or accent light.

SERIES	Tension - 'Cylinder' series
SIZE	Length= 3-1/2", Diameter= 1"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	ND 30°, NFL 37°, FL 46°
FINISH	● BK (Black) ○ WH (White)
DIMMING	DIM10 - (0-10V Dimming)
WEIGHT	0.24 lbs
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



Reference IES files for additional distribution curve information.

FEATURES OF TENSION FAMILY

The Tension system, the latest innovation in track lighting, is ideal for applications in locations where luminaires cannot be suspended from the ceiling, such as in open office spaces with tall ceilings. This design provides a solution by attaching its turnbuckles to two walls up to 65' apart, installed straight at 0° or up to 45° in any direction – an innovative and practical, yet stylish, piece perfect for any modern building.

The Tension's available track head options are in-line linear, spot, pendant, pendant-linear, and cylinder. The Tension 48V DC track system is available with multiple sleek, slender, and compact track heads that can be mounted onto any part of the track with an easy-installation 2-step method. Simply click the track head connector into place, then secure the luminaire with the locking mechanism provided. This quick and intuitive process allows users to interchange one Tension-compatible luminaire for another for a design that adapts to the user's preferences, updating to match any design or application, current or future.

This wide, flexible design can provide continuous light ideal for a high-end office with practical, yet aesthetic lumination. Concealed uplight tape and track conductors provide indirect lighting for an elegant look.

Utilize Diffused or Downlight linear or pendant, small or large spot, and sphere or cylinder track head to customize your type of lumination: visual focus, highlights, or pendant lighting effects designed for a plethora of applications, such as galleries, museums, hospitality spaces, retail spaces, corporate offices, and residential spaces.

CONSTRUCTION

All track heads are engineered to have an extremely long lifespan and service period by using cool LED's Advanced Thermodynamic Design, which includes an extruded aluminum body, a hidden diecast heat sink, and a thermal management system.

LED MODULE PERFORMANCE

The Tension System's luminaires are equipped with 2-step McAdam Eclipse LEDs, which provide consistent color across all fixtures, and 90+CRI. The LEDs are available in a variety of Kelvin temperature options.

FINISH

The Tension track system is available in a powder-coated black post-paint finish.

The Tension luminaires are all available in a powder-coated black or white post-paint finish.

DRIVERS

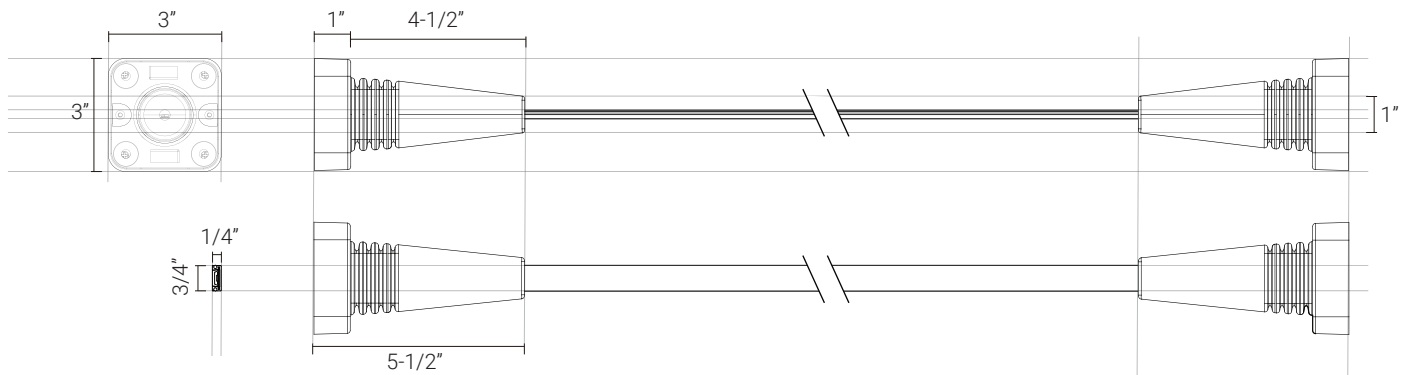
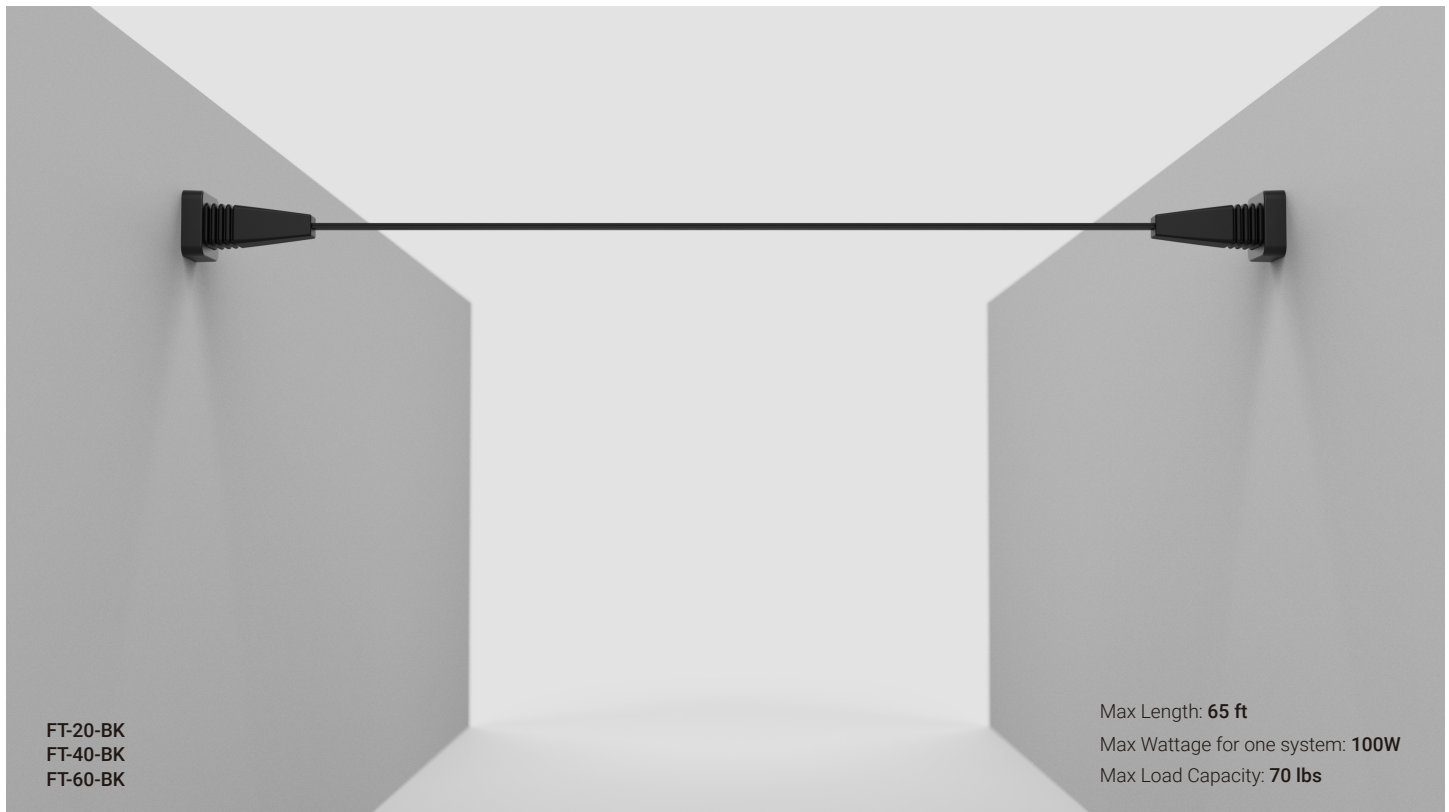
The Tension System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattage is only available in 100W and can power up to 6 ft. of track. Tension drivers can be remotely mounted, and are available in 0-10V 1 % Dimming. Please see Tension track system spec sheets for a complete list of drivers and capabilities.

Remote Mount Driver Options:

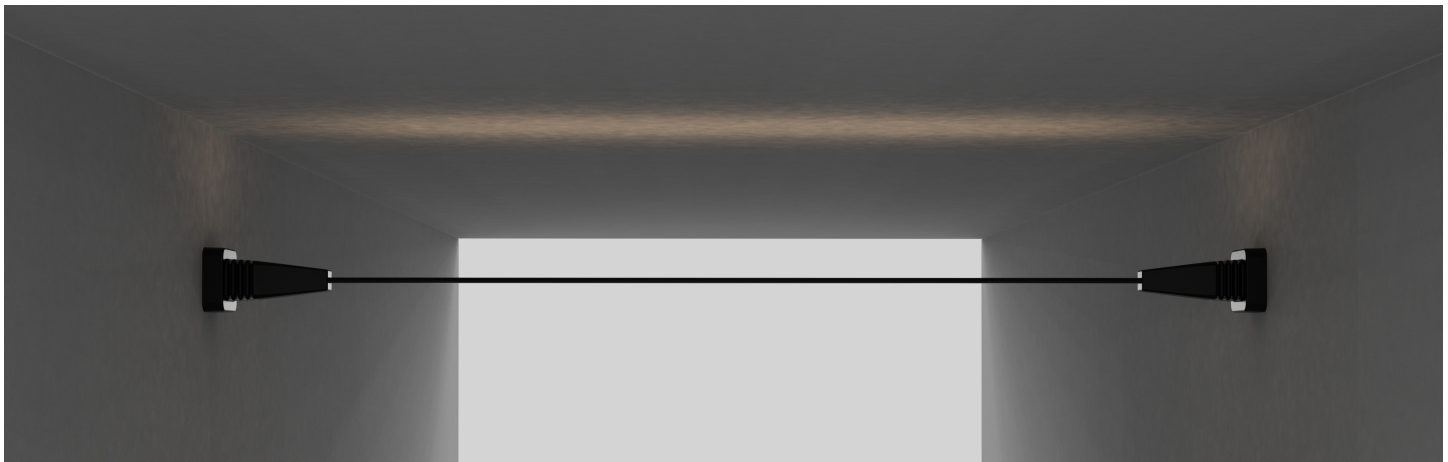
0-10V dimming on either MVOLT 120, 277 Dimmable down to 1% of initial lumens. FT-DR- ELG-100-48: 60W @ 120V or 85W. @ 277V.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FT-T2-1	☐ ND=30° ☐ NFL=37° ☐ FL=46°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black) ☐ WH (White)	☐ 48V

ACCESSORY - TRACK



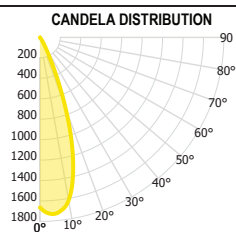
ACCESSORY - UPLIGHT



FT-T2-1-ND-30K-90

TEST NO.: 6

INPUT WATTS: 9.0 LUMENS: 492 EFFICACY: 55 BEAM ANGLE: 30 SPACING CRITERIA: 0.64



CANDELA TABLE

	0°	90°
0°	1664	1664
10°	1618	1227
20°	729	298
30°	93	44
40°	9	5
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	57026653	57026653
45.00°	127920	78981
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	144
10° - 20°	239
20° - 30°	90
30° - 40°	17
40° - 50°	2
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	383	78%
0° - 30°	473	96%
0° - 40°	490	100%
0° - 60°	492	100%
0° - 80°	492	100%
0° - 90°	492	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	46.2 fc	3.2 ft	3.3 ft
8.0 ft	26.0 fc	4.3 ft	4.3 ft
10.0 ft	16.6 fc	5.4 ft	5.4 ft
12.0 ft	11.6 fc	6.5 ft	6.5 ft
14.0 ft	8.5 fc	7.6 ft	7.6 ft
16.0 ft	6.5 fc	8.7 ft	8.7 ft
18.0 ft	5.1 fc	9.8 ft	9.8 ft
20.0 ft	4.2 fc	10.8 ft	10.8 ft

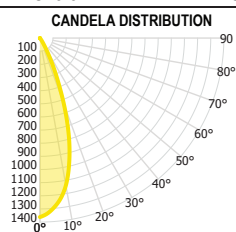
INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%	
pc	80%																0%	
pw	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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86
5	101	94	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	97	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	93	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	84	80	78	84	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

FT-T2-1-NFL-30K-90

TEST NO.: 6

INPUT WATTS: 8.8 LUMENS: 505 EFFICACY: 57 BEAM ANGLE: 37 SPACING CRITERIA: 0.59



CANDELA TABLE

	0°	90°
0°	1362	1362
10°	1139	1140
20°	533	496
30°	81	57
40°	9	5
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	46651941	46651941
45.00°	125982	76558
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	121
10° - 20°	243
20° - 30°	121
30° - 40°	17
40° - 50°	2
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	364	72%
0° - 30°	485	96%
0° - 40°	503	100%
0° - 60°	505	100%
0° - 80°	505	100%
0° - 90°	505	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	37.8 fc	4.0 ft	3.9 ft
8.0 ft	21.3 fc	5.3 ft	5.2 ft
10.0 ft	13.6 fc	6.6 ft	6.6 ft
12.0 ft	9.5 fc	8.0 ft	7.9 ft
14.0 ft	6.9 fc	9.3 ft	9.2 ft
16.0 ft	5.3 fc	10.6 ft	10.5 ft
18.0 ft	4.2 fc	11.9 ft	11.8 ft
20.0 ft	3.4 fc	13.3 ft	13.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%	
pc	80%																0%	
pw	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	101	99	98	98	96
2	111	107	104	101	108	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	91	88	86	85
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79
7	93	86	81	78	92	85	81	78	84	81	78	83	80	77	82	79	77	76
8	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77	74	73
9	87	80	75	72	86	80	75	72	79	75	72	78	74	72	77	74	72	71
10	85	77	73	70	84	77	73	70	76	72	70	75	72	69	75	72	69	68

FT-T2-1-FL-30K-90

TEST NO.: 6

INPUT WATTS: 8.9

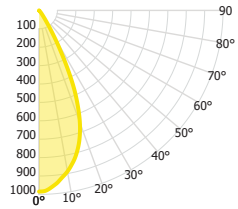
LUMENS: 517

EFFICACY: 58

BEAM ANGLE: 46

SPACING CRITERIA: 0.77

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	984	984
10°	889	901
20°	649	698
30°	162	218
40°	14	18
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	33729463	33729463
45.00°	172498	239366
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	89
10° - 20°	216
20° - 30°	175
30° - 40°	34
40° - 50°	4
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	304	59%
0° - 30°	480	93%
0° - 40°	514	99%
0° - 60°	517	100%
0° - 80°	517	100%
0° - 90°	517	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	27.3 fc	5.2 ft	5.1 ft
8.0 ft	15.4 fc	6.9 ft	6.9 ft
10.0 ft	9.8 fc	8.6 ft	8.6 ft
12.0 ft	6.8 fc	10.3 ft	10.3 ft
14.0 ft	5.0 fc	12.0 ft	12.0 ft
16.0 ft	3.8 fc	13.8 ft	13.7 ft
18.0 ft	3.0 fc	15.5 ft	15.4 ft
20.0 ft	2.5 fc	17.2 ft	17.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																		0%
	pc	80%			70%			50%			30%			10%			0%		
pw	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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	89	88	86	
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	
5	97	90	86	82	96	89	85	82	88	84	81	86	83	80	85	82	80	78	
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	82	78	76	75	
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	73	71	
8	87	79	74	70	86	78	73	70	77	73	70	76	72	70	75	72	69	68	
9	83	75	70	67	82	75	70	67	74	70	67	73	69	67	72	69	66	65	
10	80	72	67	64	79	72	67	64	71	67	64	70	67	64	70	66	64	63	