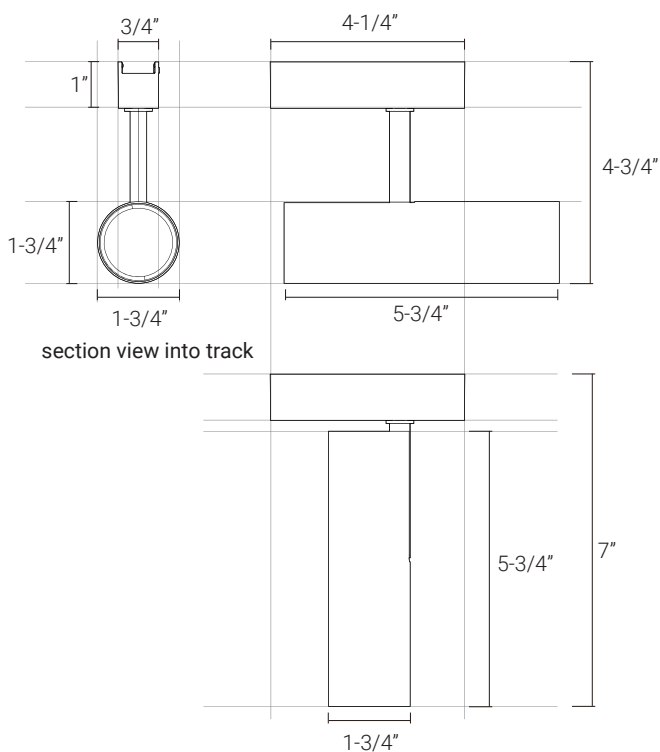




Rotate 355°



Tilt 90°



SERIES	DELIVERED LUMENS	WATTAGE
FT-T2-3	1200	24W

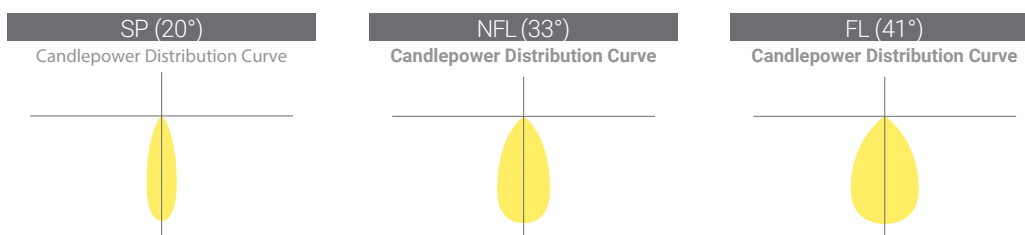
Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

TENSION 'CYLINDER' SERIES

The FT-T2-3 Cylinder Track Heads are crafted with black interiors and spot 20°, narrow flood 33°, and flood 41° 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= 5-3/4", Diameter= 1-3/4"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	3 Step MacAdam Ellipse
OPTICS	SP 20°, NFL 33°, FL 41°
FINISH	● BK (Black) ○ WH (White)
DIMMING	DIM10 - (0-10V Dimming)
WEIGHT	0.62 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

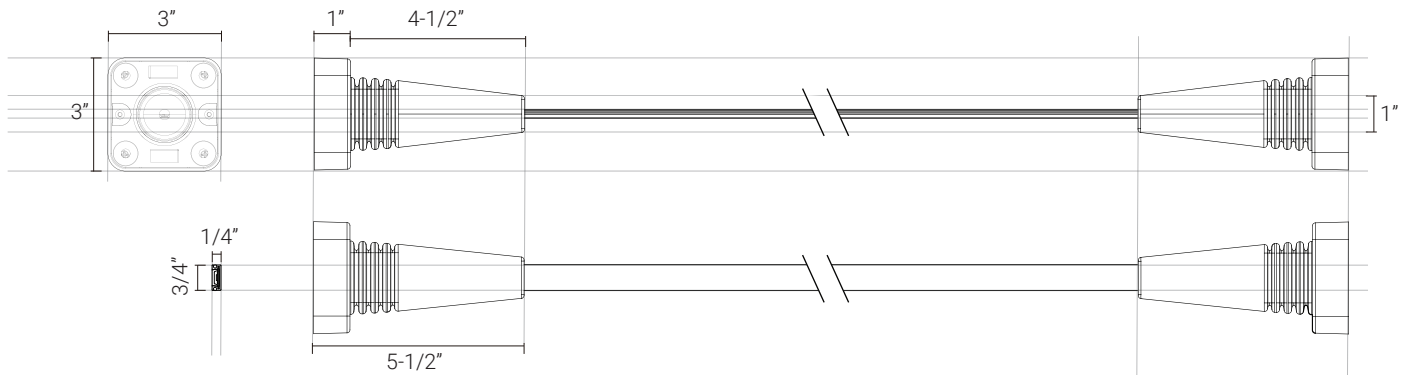
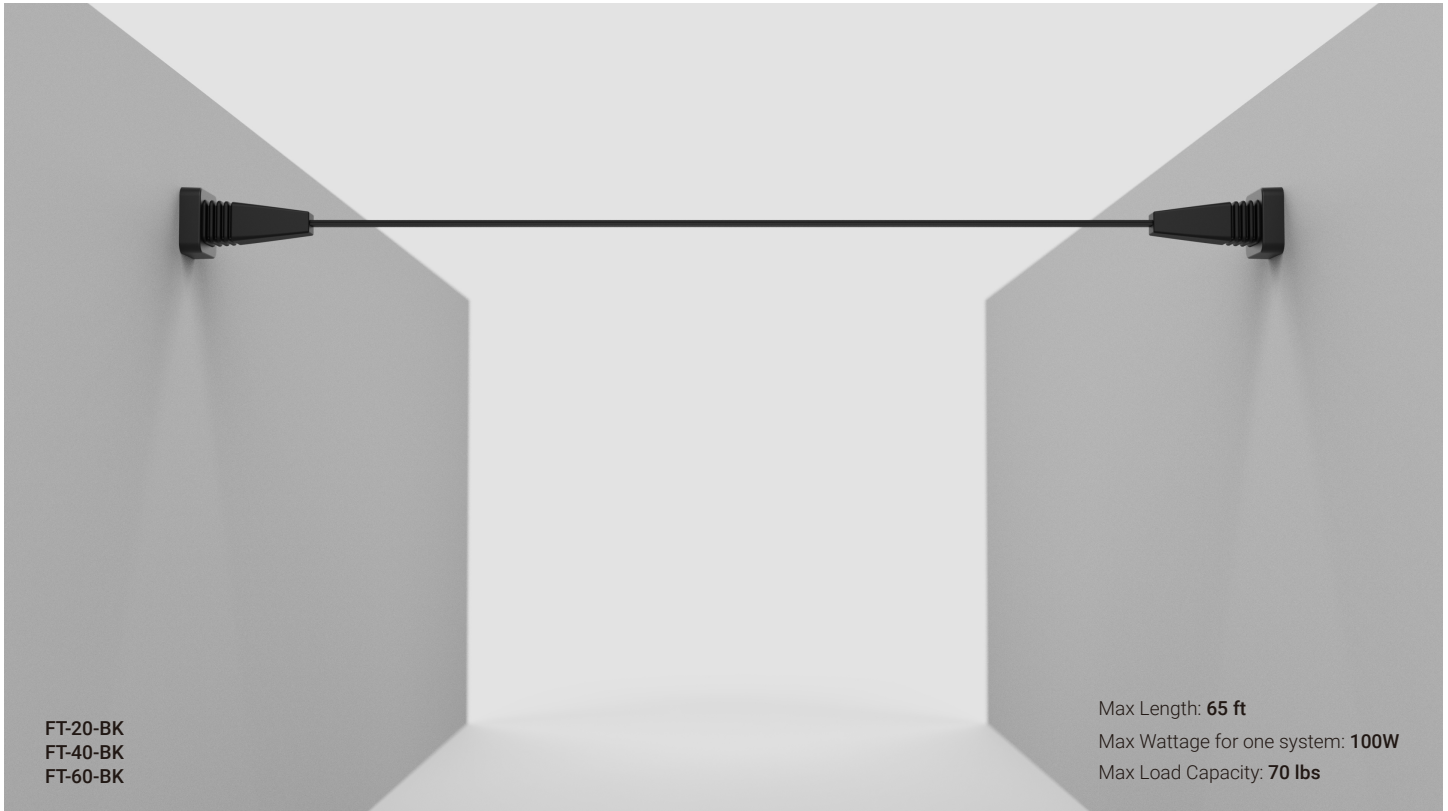
The Tension System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattage is only available in 100W and can power up to 6 ft. of track. 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:

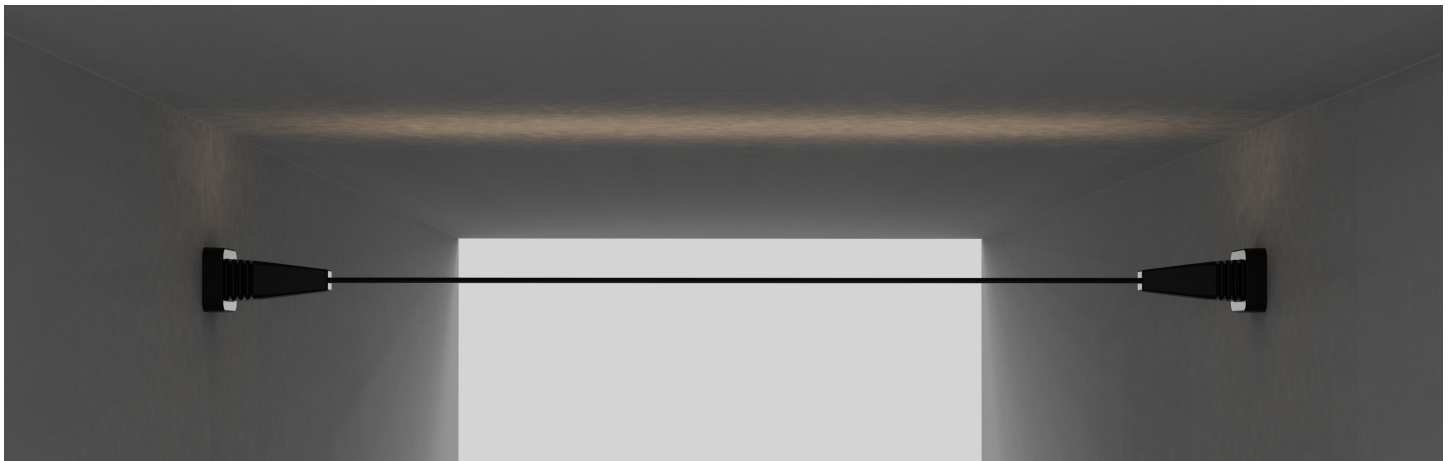
0-10V dimming on either MVOLT 120, 277 Dimmable down to 1% of initial lumens. FT-DR- ELG-100-48: 60W @ 120V or 85W. @ 277V.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FT-T2-3	☐ SP=20° ☐ NFL=33° ☐ FL=41°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black) ☐ WH (White)	☐ 48V

ACCESSORY - TRACK



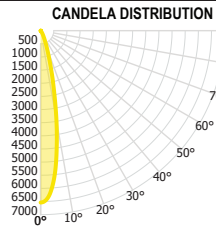
ACCESSORY - UPLIGHT



FT-T2-3-SP-30K-90

TEST NO.: **220070**

INPUT WATTS: **24.5** LUMENS: **1101** EFFICACY: **45** BEAM ANGLE: **20** SPACING CRITERIA: **0.35**



CANDELA TABLE		
	0°	90°
0°	6538	6538
10°	3463	3364
20°	692	664
30°	150	145
40°	22	21
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°	55998775	55998775
45.00°	137975	135431
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	463
10° - 20°	437
20° - 30°	151
30° - 40°	41
40° - 50°	9
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	900	82%
0° - 30°	1051	95%
0° - 40°	1092	99%
0° - 60°	1101	100%
0° - 80°	1101	100%
0° - 90°	1101	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	181.6 fc	2.2 ft	2.2 ft
8.0 ft	102.2 fc	2.9 ft	2.9 ft
10.0 ft	65.4 fc	3.6 ft	3.6 ft
12.0 ft	45.4 fc	4.3 ft	4.3 ft
14.0 ft	33.4 fc	5.0 ft	5.0 ft
16.0 ft	25.5 fc	5.8 ft	5.8 ft
18.0 ft	20.2 fc	6.5 ft	6.5 ft
20.0 ft	16.3 fc	7.2 ft	7.2 ft

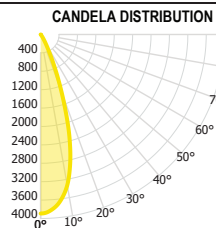
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	
0	118	118	118	118	115	115	115	115	110	110	106	106	106	106	101	101	101	99
1	114	112	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	91
4	104	99	96	93	103	98	95	92	96	94	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	92	89	94	91	88	92	90	88	91	89	87	86
6	99	93	89	86	98	92	89	86	91	88	86	90	87	85	89	86	84	83
7	96	90	86	84	95	90	86	83	89	85	83	88	85	83	87	84	82	81
8	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	80	79
9	92	86	82	79	91	85	81	79	84	81	79	84	81	79	83	80	78	77
10	90	83	80	77	89	83	79	77	82	79	77	82	79	77	81	79	77	76

FT-T2-3-NFL-30K-90

TEST NO.: **220070**

INPUT WATTS: **24.3** LUMENS: **1257** EFFICACY: **52** BEAM ANGLE: **33** SPACING CRITERIA: **0.57**



CANDELA TABLE		
	0°	90°
0°	3892	3892
10°	3330	3209
20°	1326	1161
30°	194	154
40°	26	21
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°	33334929	33334929
45.00°	95213	82615
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	343
10° - 20°	624
20° - 30°	240
30° - 40°	44
40° - 50°	7
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	967	77%
0° - 30°	1207	96%
0° - 40°	1251	99%
0° - 60°	1257	100%
0° - 80°	1257	100%
0° - 90°	1257	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	108.1 fc	3.6 ft	3.6 ft
8.0 ft	60.8 fc	4.8 ft	4.8 ft
10.0 ft	38.9 fc	6.0 ft	6.0 ft
12.0 ft	27.0 fc	7.2 ft	7.2 ft
14.0 ft	19.9 fc	8.4 ft	8.4 ft
16.0 ft	15.2 fc	9.6 ft	9.7 ft
18.0 ft	12.0 fc	10.8 ft	10.9 ft
20.0 ft	9.7 fc	12.0 ft	12.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100	99
1	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	98	95	105	101	97	95	98	96	93	96	94	92	94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	79	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	77	74	80	76	74	79	76	74	73
10	86	79	75	72	85	79	75	72	78	74	72	77	74	71	77	74	71	70

FT-T2-3-FL-30K-90

TEST NO.: **220070**

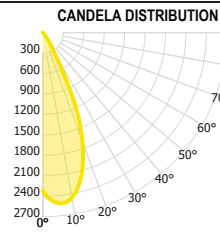
INPUT WATTS: **24.5**

LUMENS: **1173**

EFFICACY: **48**

BEAM ANGLE: **41**

SPACING CRITERIA: **0.80**



CANDELA TABLE

	0°	90°
0°	2325	2325
10°	2458	2045
20°	1695	1322
30°	345	339
40°	57	53
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°	19918556	19918556
45.00°	231855	214048
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	210
10° - 20°	485
20° - 30°	367
30° - 40°	95
40° - 50°	16
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	696	59%
0° - 30°	1063	91%
0° - 40°	1157	99%
0° - 60°	1173	100%
0° - 80°	1173	100%
0° - 90°	1173	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	64.6 fc	4.2 ft	4.7 ft
8.0 ft	36.3 fc	5.6 ft	6.2 ft
10.0 ft	23.3 fc	7.0 ft	7.8 ft
12.0 ft	16.1 fc	8.4 ft	9.3 ft
14.0 ft	11.9 fc	9.8 ft	10.9 ft
16.0 ft	9.1 fc	11.2 ft	12.4 ft
18.0 ft	7.2 fc	12.5 ft	14.0 ft
20.0 ft	5.8 fc	13.9 ft	15.5 ft

INDOOR COEFFICIENTS OF UTILIZATION

	20%																0%
pc	80%				70%				50%				30%				0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	106	102	102	100
1	114	112	109	108	112	109	108	106	105	104	103	102	101	100	98	98	95
2	109	105	102	99	107	104	101	98	100	98	96	98	96	94	95	93	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	82
5	97	90	85	82	96	89	85	81	87	84	81	86	83	80	84	82	78
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	74
7	90	82	77	73	88	81	77	73	80	76	73	79	75	73	78	75	71
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	62