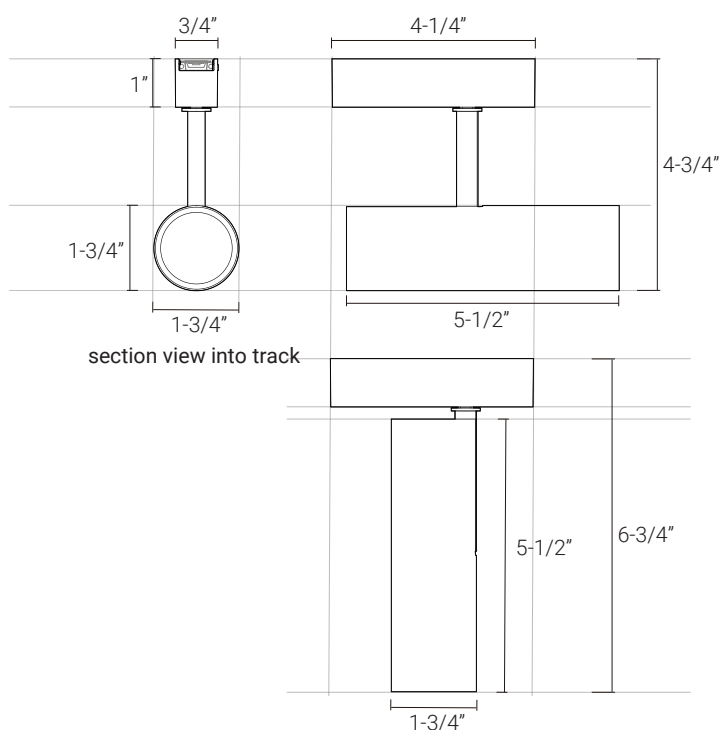




Rotate 355°



Tilt 90°



section view into track

SERIES	DELIVERED LUMENS	WATTAGE
FT-T2-2	1000	16W

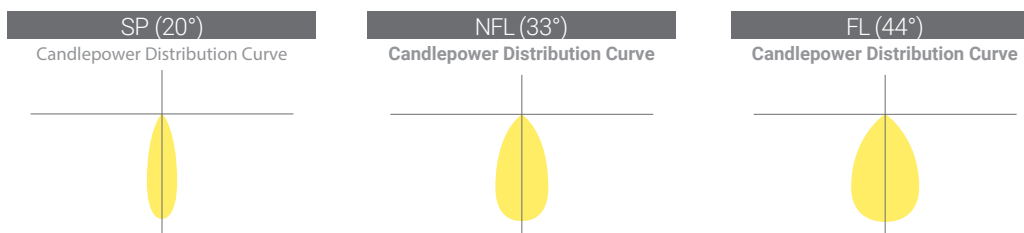
Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

TENSION 'CYLINDER' SERIES

The FG-T2-2 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= 5-1/2", Diameter= 1-3/4"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	SP 20°, NFL 33°, FL 41°
FINISH	● BK (Black) ○ WH (White)
DIMMING	DIM10 - (0-10V Dimming)
WEIGHT	0.55 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

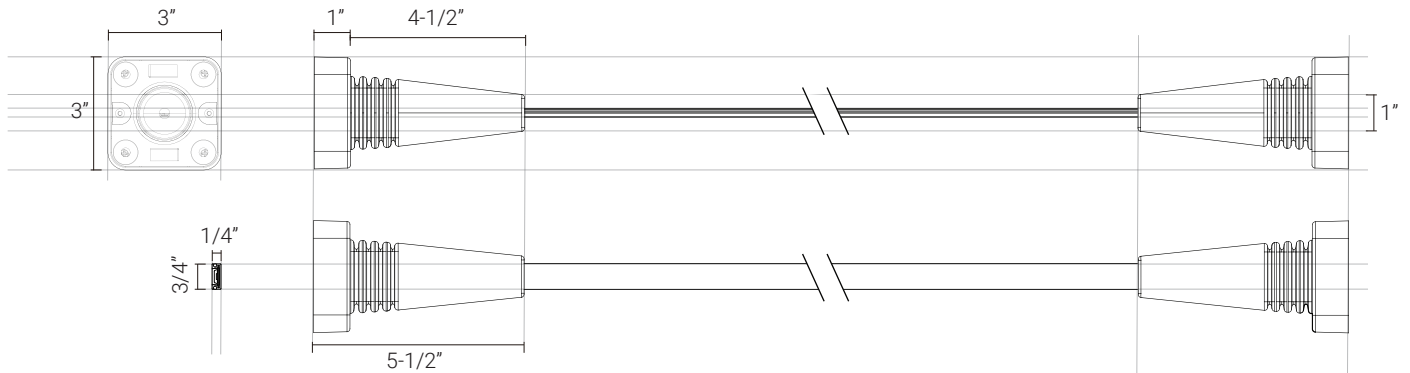
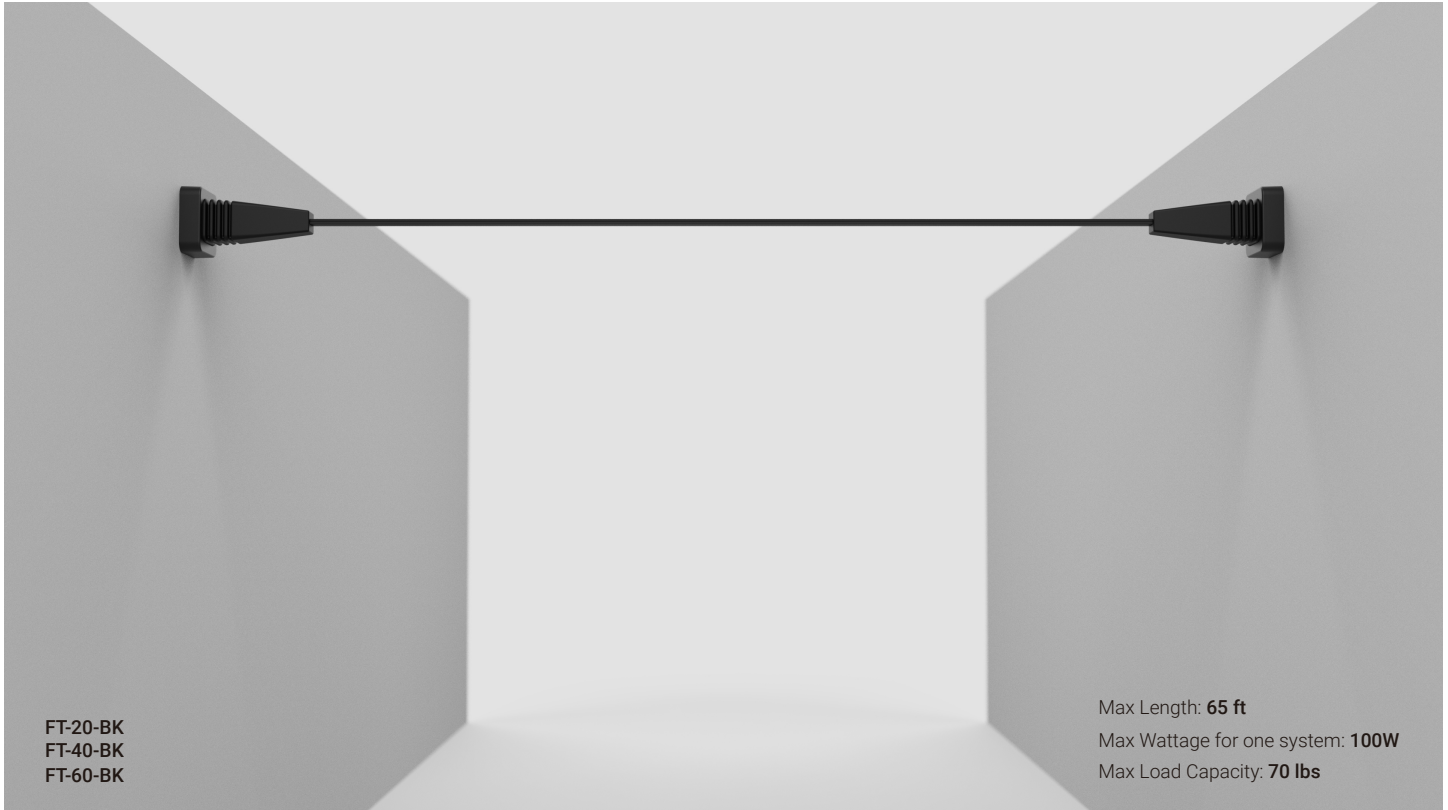
The Tension System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattage is only available in 100W and can power up to 6 ft. of track.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

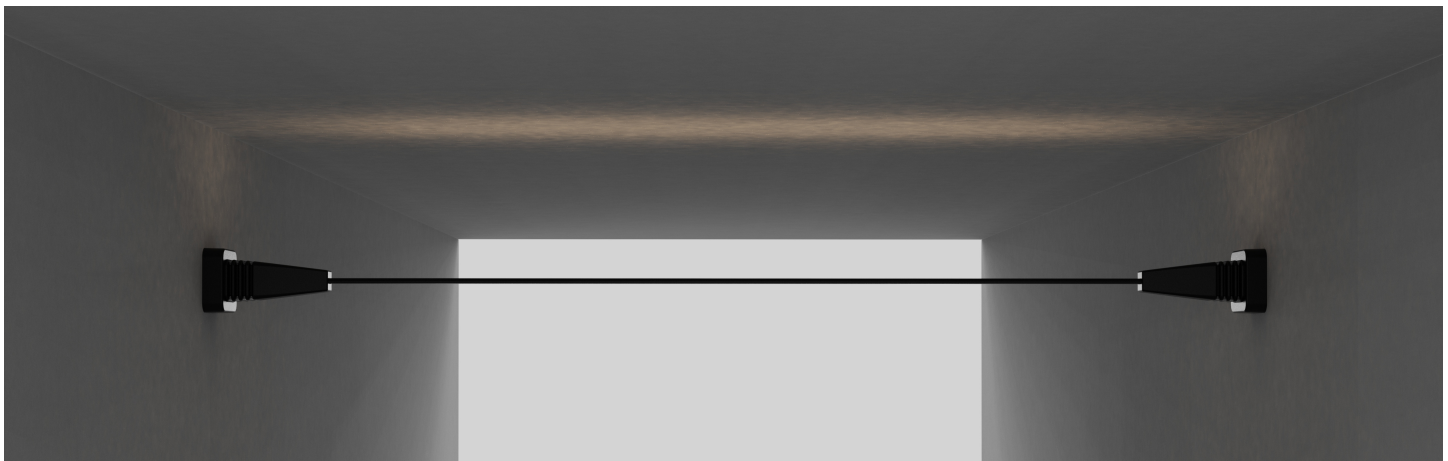
0-10V dimming on either MVOLT 120, 277 Dimmable down to 1% of initial lumens. FT-DR- ELG-100-48: 60W @ 120V or 85W. @ 277V.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FT-T2-2	☐ SP=20° ☐ NFL=33° ☐ FL=44°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black) ☐ WH (White)	☐ 48V

ACCESSORY - TRACK



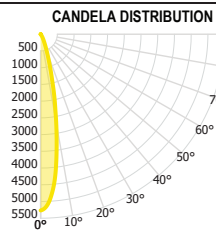
ACCESSORY - UPLIGHT



FT-T2-2-SP-30K-90

TEST NO.: **220070**

INPUT WATTS: **16.5** LUMENS: **899** EFFICACY: **54** BEAM ANGLE: **20** SPACING CRITERIA: **0.34**



CANDELA TABLE		
	0°	90°
0°	5267	5267
10°	2679	2159
20°	523	433
30°	111	89
40°	18	13
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°	45116120	45116120
45.00°	118956	104420
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	374
10° - 20°	361
20° - 30°	123
30° - 40°	33
40° - 50°	8
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	734	82%
0° - 30°	858	95%
0° - 40°	891	99%
0° - 60°	899	100%
0° - 80°	899	100%
0° - 90°	899	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	146.3 fc	2.1 ft	2.2 ft
8.0 ft	82.3 fc	2.8 ft	2.9 ft
10.0 ft	52.7 fc	3.5 ft	3.6 ft
12.0 ft	36.6 fc	4.2 ft	4.3 ft
14.0 ft	26.9 fc	4.9 ft	5.1 ft
16.0 ft	20.6 fc	5.6 ft	5.8 ft
18.0 ft	16.3 fc	6.3 ft	6.5 ft
20.0 ft	13.2 fc	7.0 ft	7.2 ft

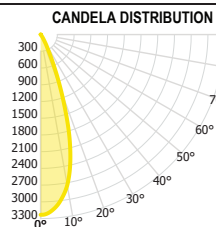
INDOOR COEFFICIENTS OF UTILIZATION

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

FT-T2-2-NFL-30K-90

TEST NO.: **220070**

INPUT WATTS: **16.6** LUMENS: **1042** EFFICACY: **63** BEAM ANGLE: **33** SPACING CRITERIA: **0.57 x 0.57**



CANDELA TABLE		
	0°	90°
0°	3232	3232
10°	2745	2837
20°	1069	1075
30°	141	146
40°	20	19
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°	27683315	27683315
45.00°	77406	68079
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	285
10° - 20°	520
20° - 30°	196
30° - 40°	35
40° - 50°	5
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	806	77%
0° - 30°	1002	96%
0° - 40°	1037	99%
0° - 60°	1042	100%
0° - 80°	1042	100%
0° - 90°	1042	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	89.8 fc	3.6 ft	3.6 ft
8.0 ft	50.5 fc	4.8 ft	4.8 ft
10.0 ft	32.3 fc	6.0 ft	6.1 ft
12.0 ft	22.4 fc	7.2 ft	7.3 ft
14.0 ft	16.5 fc	8.4 ft	8.5 ft
16.0 ft	12.6 fc	9.6 ft	9.7 ft
18.0 ft	10.0 fc	10.8 ft	10.9 ft
20.0 ft	8.1 fc	12.0 ft	12.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

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

FT-T2-2-FL-30K-90

TEST NO.: **220070**

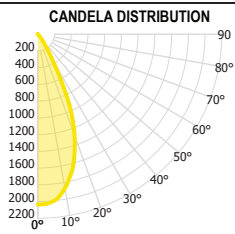
INPUT WATTS: **16.5**

LUMENS: **1033**

EFFICACY: **63**

BEAM ANGLE: **44**

SPACING CRITERIA: **0.75**



CANDELA TABLE

	0°	90°
0°	2037	2037
10°	1870	1655
20°	1286	916
30°	341	161
40°	51	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°	17449936	17449936
45.00°	197816	91700
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

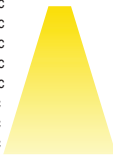
ZONE	LUMENS
0° - 10°	185
10° - 20°	424
20° - 30°	323
30° - 40°	86
40° - 50°	14
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	609	59%
0° - 30°	932	90%
0° - 40°	1019	99%
0° - 60°	1033	100%
0° - 80°	1033	100%
0° - 90°	1033	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	56.6 fc	4.8 ft	4.9 ft
8.0 ft	31.8 fc	6.4 ft	6.5 ft
10.0 ft	20.4 fc	8.0 ft	8.1 ft
12.0 ft	14.1 fc	9.6 ft	9.8 ft
14.0 ft	10.4 fc	11.2 ft	11.4 ft
16.0 ft	8.0 fc	12.8 ft	13.0 ft
18.0 ft	6.3 fc	14.4 ft	14.7 ft
20.0 ft	5.1 fc	16.0 ft	16.3 ft



INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%												10%				0%	
	80%			70%			50%			30%			10%		0%			
	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	109	108	112	109	108	106	105	104	103	102	101	100	98	98	97	95
2	109	105	102	99	107	104	101	98	100	98	96	98	96	94	95	93	92	90
3	105	100	95	92	103	98	95	91	96	93	90	93	91	89	91	89	87	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82
5	97	90	85	82	95	89	85	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	77	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65
10	80	72	67	64	79	72	67	64	71	66	64	70	66	63	69	66	63	62