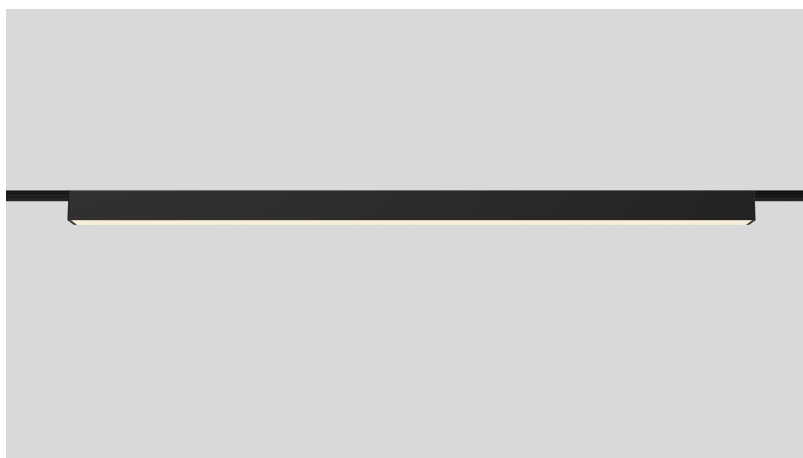
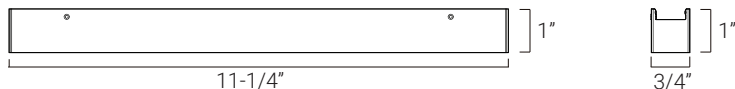
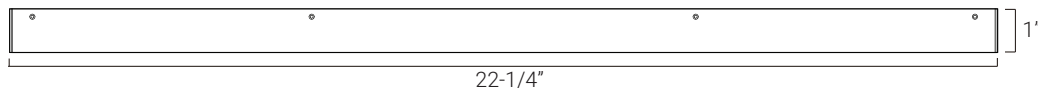




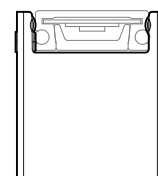
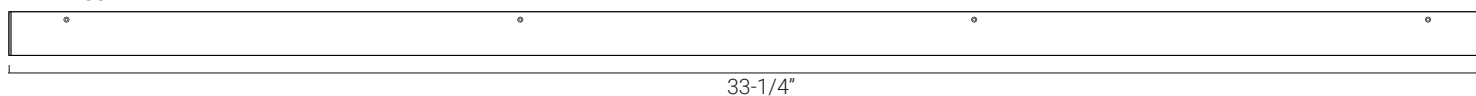
FT-L1R-11



FT-L1R-22



FT-L1R-33



section view into track

TENSION 'DIFFUSED' SERIES

The 'Linear Diffused' luminaire easily integrates into the Tension track system and is designed with a minimal profile from the track for a clean, sophisticated look.

The FT-L1R- Linear Diffused luminaire is the ideal choice for dynamic design and general illumination in a sleek and modern location.

The FT-L1R can be installed individually or combined with other Tension system track luminaires to create the perfect design. Multiple fixtures can be mounted next to each other on one track for a continuous ray of illumination.

SERIES	DELIVERED LUMENS	WATTAGE
FT-L1R-11	650	12W
FT-L1R-22	1300	22W
FT-L1R-33	2000	32W

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

SERIES	Tension - 'Diffused' series
SIZE	11", 22", 33"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
FINISH	● BK (Black) ○ WH (White)
DIMMING	DIM10 - (0-10V Dimming)
WEIGHT	0.32 lbs, 0.63 lbs, 0.95 lbs
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

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

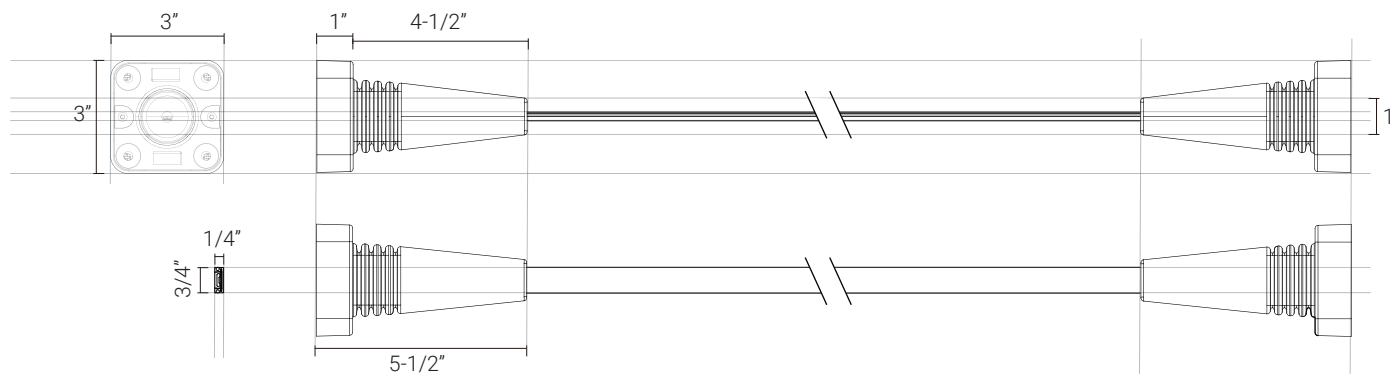
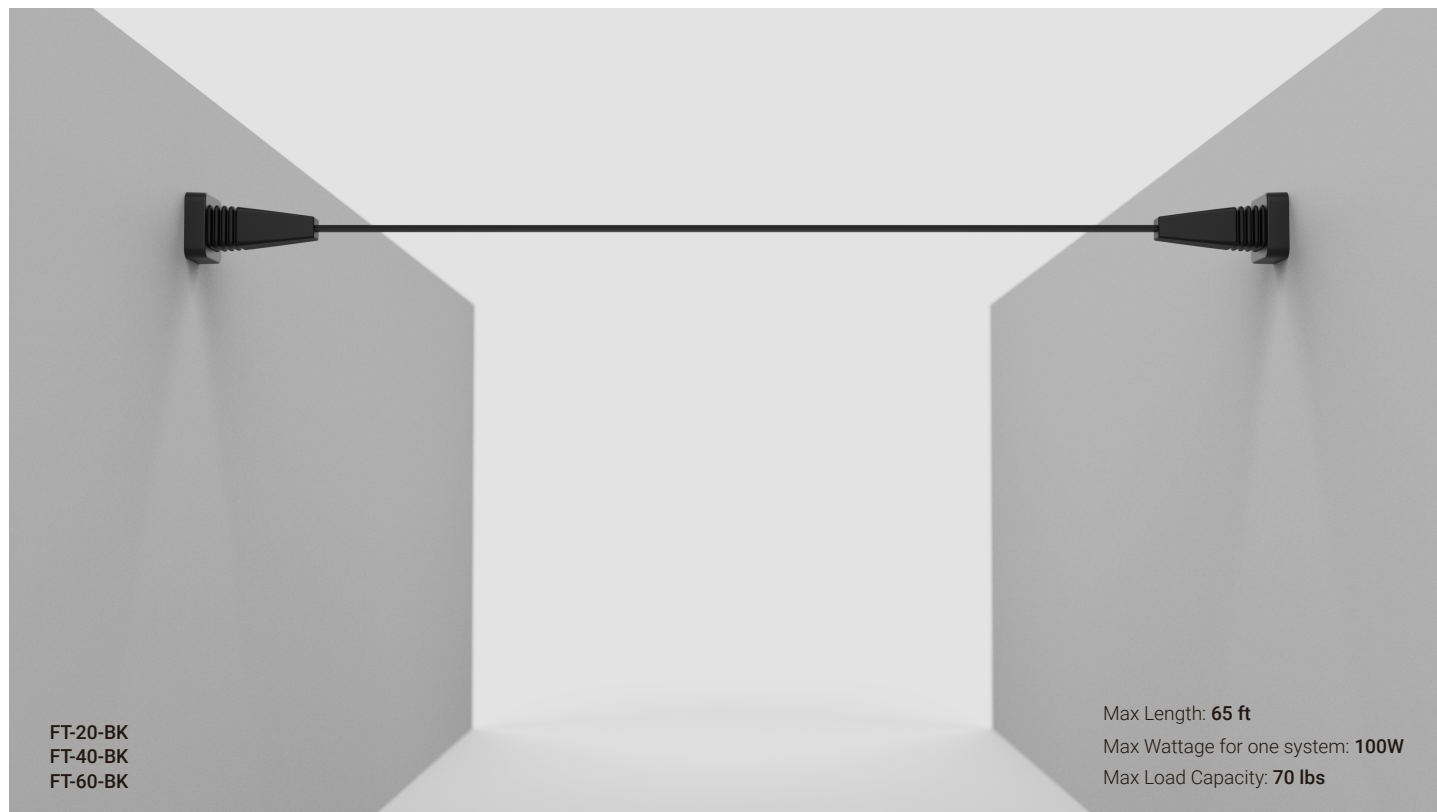
The Tension System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattage is only available in 100W and can power up to 6 ft. of track.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

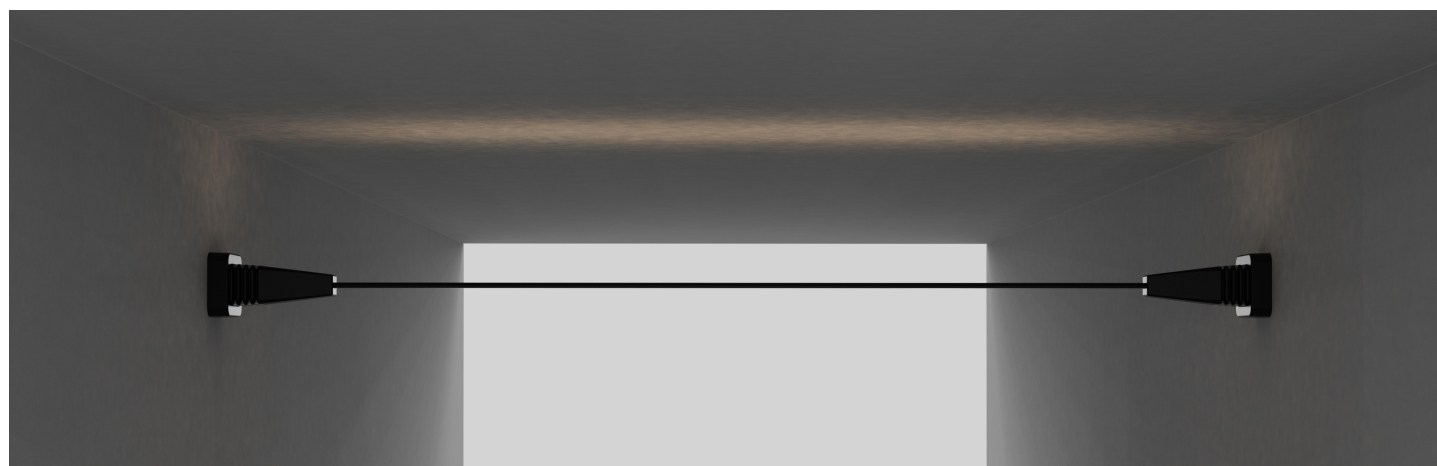
0-10V dimming on either MVOLT 120, 277 Dimmable down to 1% of initial lumens. FT-DR- ELG-100-48: 60W @ 120V or 85W. @ 277V.

EXAMPLE:				
SERIES	CCT	CRI	FINISH	OPTION
FT-L1R-11	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black) ☐ WH (White)	☐ 48V
FT-L1R-22				
FT-L1R-33				

ACCESSORY - TRACK



ACCESSORY - UPLIGHT



FT-L1R-11-30K-90

TEST NO.: 220070

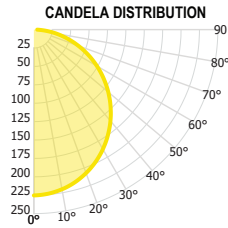
INPUT WATTS: 11.8

LUMENS: 652

EFFICACY: 55

BEAM ANGLE: 113

SPACING CRITERIA: 1.24



CANDELA TABLE

	0°	90°
0°	225	225
10°	220	222
20°	207	210
30°	188	191
40°	162	166
50°	132	136
60°	99	103
70°	64	68
80°	31	33
90°	5	2

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	432978	432978
45.00°	400568	411278
55.00°	387759	400728
65.00°	372038	388002
75.00°	350829	370212
85.00°	327721	357935

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	21
10° - 20°	61
20° - 30°	92
30° - 40°	111
40° - 50°	115
50° - 60°	104
60° - 70°	82
70° - 80°	50
80° - 90°	17

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	82	13%
0° - 30°	174	27%
0° - 40°	285	44%
0° - 60°	504	77%
0° - 80°	635	97%
0° - 90°	652	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	6.3 fc	18.1 ft	17.7 ft
8.0 ft	3.5 fc	24.1 ft	23.6 ft
10.0 ft	2.3 fc	30.2 ft	29.5 ft
12.0 ft	1.6 fc	36.2 ft	35.4 ft
14.0 ft	1.1 fc	42.2 ft	41.3 ft
16.0 ft	0.9 fc	48.3 ft	47.2 ft
18.0 ft	0.7 fc	54.3 ft	53.1 ft
20.0 ft	0.6 fc	60.3 ft	59.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

pc	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	111	111	111	106	106	106	102	102	102	100	0%
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

FT-L1R-22-30K-90

TEST NO.: 220070

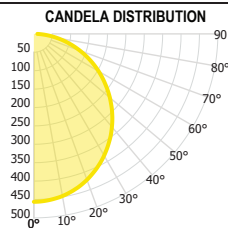
INPUT WATTS: 22.0

LUMENS: 1323

EFFICACY: 60

BEAM ANGLE: 113

SPACING CRITERIA: 1.24



CANDELA TABLE

	0°	90°
0°	456	456
10°	447	448
20°	422	423
30°	382	385
40°	330	331
50°	270	269
60°	203	201
70°	133	130
80°	64	59
90°	10	1

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	181902	181902
45.00°	169522	169736
55.00°	164435	164004
65.00°	158996	156279
75.00°	151459	144251
85.00°	146556	117190

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	43
10° - 20°	123
20° - 30°	186
30° - 40°	224
40° - 50°	233
50° - 60°	212
60° - 70°	166
70° - 80°	102
80° - 90°	33

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	167	13%
0° - 30°	353	27%
0° - 40°	577	44%
0° - 60°	1022	77%
0° - 80°	1290	97%
0° - 90°	1323	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	12.7 fc	18.1 ft	17.8 ft
8.0 ft	7.1 fc	24.1 ft	23.7 ft
10.0 ft	4.6 fc	30.2 ft	29.7 ft
12.0 ft	3.2 fc	36.2 ft	35.6 ft
14.0 ft	2.3 fc	42.2 ft	41.5 ft
16.0 ft	1.8 fc	48.3 ft	47.5 ft
18.0 ft	1.4 fc	54.3 ft	53.4 ft
20.0 ft	1.1 fc	60.3 ft	59.3 ft

INDOOR COEFFICIENTS OF UTILIZATION

pc	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	111	111	111	106	106	106	102	102	102	100	0%
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

FT-L1R-33-30K-90

TEST NO.: **220070**

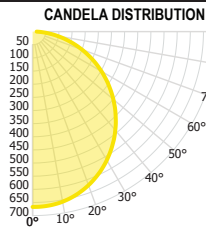
INPUT WATTS: **32.5**

LUMENS: **1940**

EFFICACY: **60**

BEAM ANGLE: **113**

SPACING CRITERIA: **1.25**



CANDELA TABLE

	0°	90°
0°	667	667
10°	657	653
20°	622	614
30°	565	562
40°	489	477
50°	401	387
60°	303	287
70°	200	184
80°	97	78
90°	15	2

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	119646	119646
45.00°	113268	110411
55.00°	110355	105839
65.00°	106760	99679
75.00°	102391	89235
85.00°	104071	63151

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	63
10° - 20°	180
20° - 30°	273
30° - 40°	329
40° - 50°	341
50° - 60°	311
60° - 70°	243
70° - 80°	149
80° - 90°	49

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	244	13%
0° - 30°	517	27%
0° - 40°	846	44%
0° - 60°	1498	77%
0° - 80°	1891	97%
0° - 90°	1940	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	18.5 fc	18.2 ft	17.9 ft
8.0 ft	10.4 fc	24.3 ft	23.8 ft
10.0 ft	6.7 fc	30.4 ft	29.8 ft
12.0 ft	4.6 fc	36.4 ft	35.8 ft
14.0 ft	3.4 fc	42.5 ft	41.7 ft
16.0 ft	2.6 fc	48.6 ft	47.7 ft
18.0 ft	2.1 fc	54.7 ft	53.7 ft
20.0 ft	1.7 fc	60.7 ft	59.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pc	20%										0%									
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83	83	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69	69	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57	57	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49	49	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26	26	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	24	24