

**GROOVE 'SQUARE TRACK LIGHT' SERIES**

The FG-T7-1 Square Track Light is crafted for a slim, modern look with narrow flood 28°, flood 50°, and wide flood 80° TIR optics, providing precise beam control and reducing glare.

Based on the positioning of the track head, the distance from the subject being illuminated, and the optics specified, the FG-T7-1 Square luminaire can be utilized as a wall wash, wall grazer, task, or downlight luminaire.

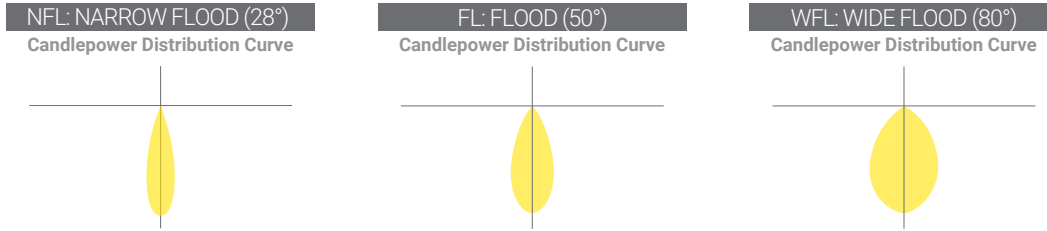
Groove 'Square Track Light' Track Heads are equipped with nearly a full range of motion with a rotational range of 355° and a tilt range of 85°.

<b>SERIES</b>	Groove - 'Square Track Light' series
<b>SIZE</b>	2"
<b>CCT</b>	2700K, 3000K, 3500K, 4000K, 5000K
<b>CRI</b>	90+
<b>COLOR QUALITY</b>	2 Step MacAdam Ellipse
<b>OPTICS</b>	Narrow Flood 28°, Flood 50°, Wide Flood 80°
<b>FINISH</b>	☐ WH-BK (White+Black) ● BK-BK (Black)
<b>DIMMING</b>	On / Off, DIM10 - ( 0-10V Dimming), DALI.1 - DALI 2, BLE - Bluetooth
<b>LIFETIME</b>	L70 at 60,000 Hours
<b>PHOTOMETRIC TESTS</b>	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

SERIES	DELIVERED LUMENS	WATTAGE
FG-T7-1	500	9W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%





Reference IES files for additional distribution curve information.

**FEATURES OF GROOVE FAMILY**

The Groove 48V DC track system is available with multiple sleek, slender, and compact track heads that can be seamlessly mounted onto the track by simply clicking the track head’s connector into place, allowing you to interchange one Groove-compatible luminaire for another. The Groove’s intuitive click-in track makes it easy to install and switch luminaires, so the system can be updated to match any design or application, current or future.

The Groove track system is available in Trimless Recessed, Recessed Flanged, Ceiling/ Surface, and Suspended options, and can be integrated in most ceiling and wall applications. Utilize suspended and surface mounting options for surface such as wood, drywall or T-Bar ceilings.

The Groove offers a variety of connector accessories that enable users to tailor their designs with custom rectangular, square, or many other linear patterns. The T, X, L Corners and power connectors create dynamic designs that transcend flat surfaces including wall to ceiling, wrap corners, and more.

Drivers can be stowed within the system, hidden from view, or placed in a remote location. The single driver can power runs up to 65’ long and 480 Watts. Please refer to driver spec sheets for more detailed information. Our team at Elite Lighting can help you organize the placement of drivers and complete systems.

Fixtures can be installed individually or combined with other Groove track system luminaires to create the perfect design. Multiple linear fixtures can be mounted next to each other on one track for continuous rays of illumination.

Available track head options are in-line linear, adjustable linear, spot, pendant, cylinder, and suspended. Many track heads are crafted with black interiors and TIR optics, providing precise beam control and reducing glare. Most track heads that are available with optics are field-changeable, with various lumen and distribution options. Additionally, some track heads can be overlaid with a single optical accessory, like the Linear Diffuser, Frosted Diffuser, and Honeycomb accessories. Some track heads can be used with spot-light, flood-light, snoot, and wall-wash accessories. (Please refer to the spec sheet on each individual track head for more detailed information.)

Subsequently, the system can be used for accent, task, and general illumination, making it ideal 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 coolLED’s Advanced Thermodynamic Design, which includes an extruded aluminum body, a hidden diecast heat sink, and a thermal management system.

**LED MODULE PERFORMANCE**

The Groove 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.

**DRIVERS**

The Groove 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 wattages range from 75W to 450W and can power up to 65 ft. of track. Groove drivers can be installed internally within the track or remotely mounted, and are available in 0-10V 1 % Dimming, Dali Dimming, or 120V On/ Off Non-Dimming Driver. Please see Groove track system spec sheets for a complete list of drivers and capabilities.

**DIMMING INFORMATION**

DIM10 - 0-10V dimming on either MVOLT 120, 277. Dimmable down to 1% of initial lumens, standard. Available in 75W, 100W, 150W., 240W.  
DIMTR - Electronic low voltage dimming. Available in 120V.  
DALI - DALI DT6 dimming down to 1% Available in 75W, 100W, 150W, 240W.

EldoLED PowerDrive dimming down to 0.1%. Please see the EldoLED website for wiring diagrams and a full list of compatible DMX and DALI control systems.

**FINISH**

Luminaires are available in a powder-coated black or white post-paint finish. They may also be issued in custom RAL colors upon request. Consult the factory to find out which custom colors can be accommodated.

**WARRANTY**

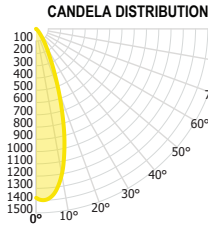
Five-year warranty for parts and components.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FG-T7-1	<input type="checkbox"/> NFL=28° <input type="checkbox"/> FL=50° <input type="checkbox"/> WFL=80°	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> 90	<input type="checkbox"/> BK-BK (Black) <input type="checkbox"/> WH-BK (White+Black)	<input type="checkbox"/> 48V <input type="checkbox"/> 48V-BLE (Bluetooth) *Power supply must be ordered separately

**FG-T7-1-NFL-40K-90**

TEST NO.: **220062**

INPUT WATTS: **9.6**      LUMENS: **494**      EFFICACY: **51**      BEAM ANGLE: **28**      SPACING CRITERIA: **0.58**



	0°	90°
0°	1377	1377
10°	1206	929
20°	538	323
30°	160	105
40°	43	27
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	20974795	20974795
45.00°	436953	287282
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	117
10° - 20°	199
20° - 30°	113
30° - 40°	49
40° - 50°	16
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	316	64%
0° - 30°	429	87%
0° - 40°	478	97%
0° - 60°	494	100%
0° - 80°	494	100%
0° - 90°	494	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	38.3 fc	3.3 ft	3.3 ft
8.0 ft	21.5 fc	4.4 ft	4.4 ft
10.0 ft	13.8 fc	5.4 ft	5.5 ft
12.0 ft	9.6 fc	6.5 ft	6.5 ft
14.0 ft	7.0 fc	7.6 ft	7.6 ft
16.0 ft	5.4 fc	8.7 ft	8.7 ft
18.0 ft	4.3 fc	9.8 ft	9.8 ft
20.0 ft	3.4 fc	10.9 ft	10.9 ft

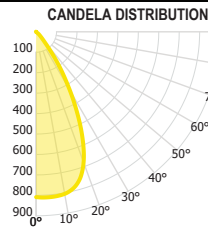
**INDOOR COEFFICIENTS OF UTILIZATION**

pf	pc	20%																0%	
		80%				70%				50%				30%					
pw		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99	99
1	113	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90
3	105	99	95	92	103	98	94	91	96	92	90	93	91	89	91	89	87	86	86
4	101	95	90	87	99	93	89	86	91	88	85	90	87	84	88	85	83	82	82
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7	90	82	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72	72
8	87	79	74	71	86	79	74	71	78	73	71	77	73	70	76	72	70	69	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66	66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64

**FG-T7-1-FL-40K-90**

TEST NO.: **220062**

INPUT WATTS: **9.5**      LUMENS: **584**      EFFICACY: **61**      BEAM ANGLE: **50**      SPACING CRITERIA: **0.90**



	0°	90°
0°	809	809
10°	805	745
20°	679	509
30°	330	191
40°	64	35
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	12313518	12313518
45.00°	627972	375146
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	76
10° - 20°	199
20° - 30°	196
30° - 40°	90
40° - 50°	22
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	276	47%
0° - 30°	471	81%
0° - 40°	561	96%
0° - 60°	584	100%
0° - 80°	584	100%
0° - 90°	584	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	22.5 fc	5.7 ft	5.7 ft
8.0 ft	12.6 fc	7.6 ft	7.5 ft
10.0 ft	8.1 fc	9.5 ft	9.4 ft
12.0 ft	5.6 fc	11.4 ft	11.3 ft
14.0 ft	4.1 fc	13.3 ft	13.2 ft
16.0 ft	3.2 fc	15.2 ft	15.1 ft
18.0 ft	2.5 fc	17.1 ft	17.0 ft
20.0 ft	2.0 fc	19.0 ft	18.8 ft

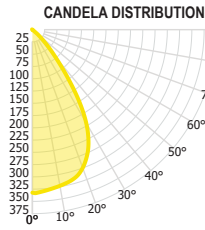
**INDOOR COEFFICIENTS OF UTILIZATION**

pf	pc	20%																0%	
		80%				70%				50%				30%					
pw		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99	99
1	113	110	108	106	110	108	106	104	104	103	101	101	99	98	97	96	95	94	94
2	108	103	100	97	106	102	98	96	99	96	93	96	93	91	93	91	90	88	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	86	89	86	84	83	83
4	98	91	86	83	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78
5	94	86	81	77	92	85	80	77	84	79	76	82	78	75	81	77	75	73	73
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7	86	77	72	68	84	77	71	68	75	71	67	74	70	67	73	69	67	65	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62	62
9	78	70	64	60	77	69	64	60	68	63	60	67	63	60	67	63	60	59	59
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56	56

**FG-T7-1-WFL-40K-90**

TEST NO.: 220062

INPUT WATTS: 9.4      LUMENS: 427      EFFICACY: 45      BEAM ANGLE: 80      SPACING CRITERIA: 1.06



	0°	90°
0°	332	332
10°	323	334
20°	300	346
30°	219	294
40°	74	131
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

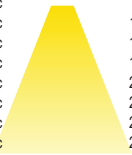
	0.00°	90.00°
0.00°	5058376	5058376
45.00°	716267	1391186
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	32
10° - 20°	94
20° - 30°	137
30° - 40°	118
40° - 50°	47
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	LUMENS	% LUMINAIRE
0° - 20°	126	29%
0° - 30°	262	61%
0° - 40°	380	89%
0° - 60°	427	100%
0° - 80°	427	100%
0° - 90°	427	100%

**CONE OF LIGHT**

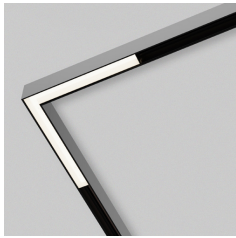
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	9.2 fc	8.7 ft	8.6 ft
8.0 ft	5.2 fc	11.6 ft	11.4 ft
10.0 ft	3.3 fc	14.4 ft	14.3 ft
12.0 ft	2.3 fc	17.3 ft	17.1 ft
14.0 ft	1.7 fc	20.2 ft	20.0 ft
16.0 ft	1.3 fc	23.1 ft	22.9 ft
18.0 ft	1.0 fc	26.0 ft	25.7 ft
20.0 ft	0.8 fc	28.9 ft	28.6 ft



**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																0%	
	80%				70%				50%				30%					
pc	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	116	116	116	116	114	114	114	114	109	109	109	104	104	104	100	100	100	98
1	111	108	105	103	108	106	104	101	102	100	98	98	97	95	95	94	93	91
2	105	100	96	92	103	98	94	91	95	92	89	92	90	87	89	87	85	84
3	99	93	87	83	97	91	86	83	89	85	81	86	83	80	84	81	79	77
4	94	86	80	76	92	85	79	75	83	78	74	81	77	73	79	75	73	71
5	88	80	74	69	87	79	73	69	77	72	68	75	71	68	74	70	67	65
6	83	74	68	63	82	73	68	63	72	67	63	70	66	62	69	65	62	60
7	79	69	63	58	78	68	63	58	67	62	58	66	61	58	65	61	57	56
8	75	65	58	54	73	64	58	54	63	58	54	62	57	53	61	57	53	52
9	71	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48
10	67	57	51	47	66	56	50	47	55	50	46	55	50	46	54	49	46	45

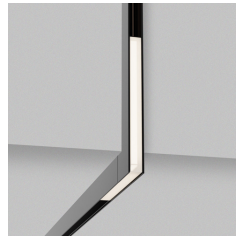
**GROOVE TRACK LUMINAIRE OPTIONS:**



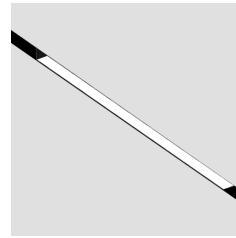
FG-L1R-C90  
*Seamless Linear Diffused*



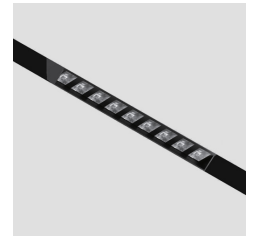
FG-L1R-CI  
*Seamless Linear Diffused*



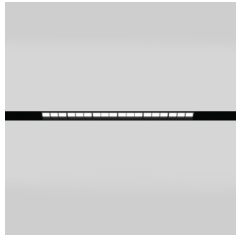
FG-L1R-CO  
*Seamless Linear Diffused*



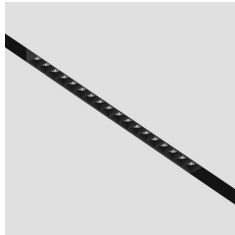
FG-L1R-8 | 16 | 32 | 48 | 64  
*Seamless Linear Diffused*



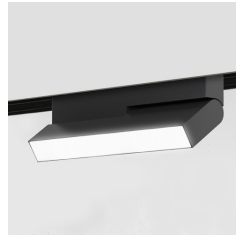
FG-L1-WW-3 | 8  
*Wall Wash*



FG-L3R-16 | 32  
*Linear Louvered*



FG-L4R-3 | 5 | 8 | 16 | 32  
*Linear Recessed Downlight & Task*



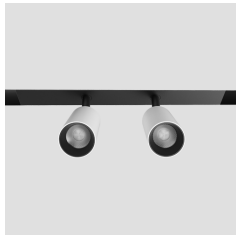
FG-L2A-3 | 5 | 8  
*Linear Diffused & Adjustable Light*



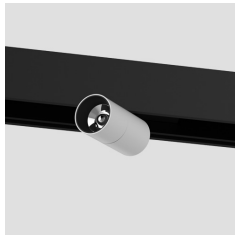
FG-L4A-3 | 5 | 8  
*Linear Adjustable Downlight, Task & Wall Grazer*



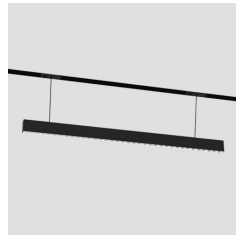
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3  
*Cylinder*



FG-T2-4  
*Cylinder*



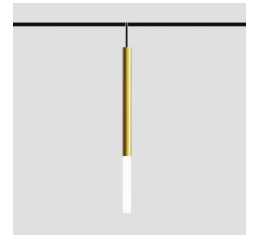
FG-T4-1 | 2 | 3  
*Beam Adjustable Cylinder*



FG-L1P-32  
*Pendant Louvered*



FG-P1-1 | 2  
*Pendant*



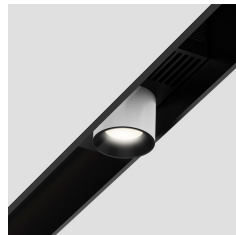
FG-P3-1 | 2  
*Pendant*



FG-P4-1 | 2 | 3  
*Pendant Globe*



FG-P5-1  
*Globe*



FG-T1-1  
*Recessed Track Light*



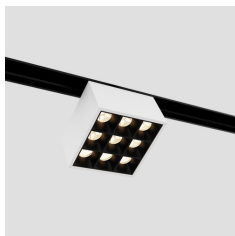
FG-T1-2  
*Recessed Track Light*



FG-T5-1 | 2  
*Flat Round*



FG-T6-1 | 2  
*Flat Square*



FG-T7-1 | 3  
*Square Track Light*



FG-T7-2  
*Rectangle Track Light*

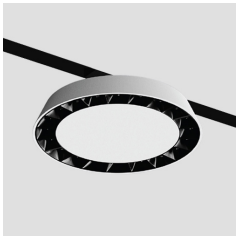


FG-T8-1  
*Track Globe*

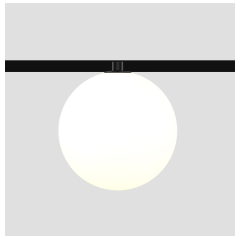


FG-T9-1  
*Track Globe*

**GROOVE TRACK LUMINAIRE OPTIONS:**



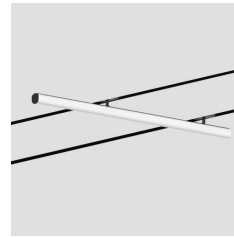
FG-T10-1  
*Track Downlight*



FG-T11-1  
*Globe*



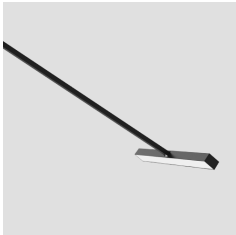
FG-L2S-32 | 48  
*Surface Light*



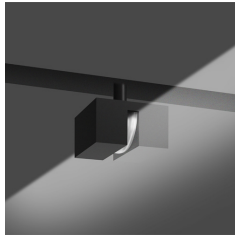
FG-L5S-32 | 48  
*Surface Light*



FG-WL-1  
*Wall Light*



FG-WL-2  
*Wall Light*



FG-LL-1  
*Line Light*



FG-TRJ-1  
*Projector*



FG-TRJ-2  
*Gobo Projector*

**GROOVE TRACK MOUNTING OPTIONS:**



*Trimless Recessed Mount*



*Surface, Ceiling Mount*



*Suspended Mount with Uplight*



*Suspended Mount*