

section view into track

SERIES	DELIVERED LUMENS	WATTAGE
FG-T2-1	200	5W

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

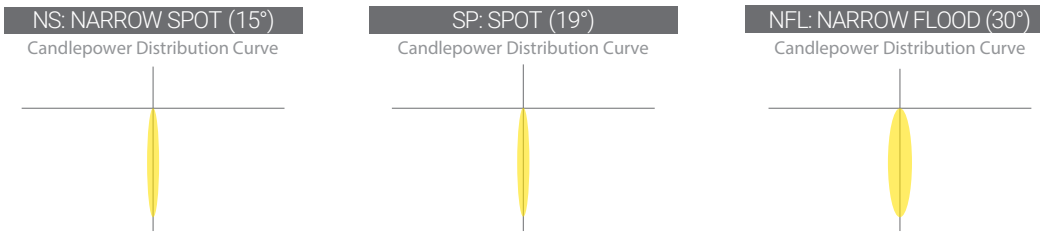
GROOVE 'CYLINDER' SERIES

The FG-T2-1 Cylinder Track Heads are crafted with black interiors and narrow spot 9°, spot 16°, and narrow flood 30°, TIR optics, providing precise beam control and reducing glare. The optics are field changeable, with various lumen and distribution options.

Groove 'Cylinder Track' luminaires have a nearly 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	Groove - 'Cylinder' series
SIZE	Length: 2"; Diameter: 3/4"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	Narrow Spot 15°, Spot 19°, Narrow Flood 30°
FINISH	● WH-BK (White+Black) ● BK-BK (Black)
DIMMING	On / Off, DIM10 - (0-10V Dimming), DALI.1 - DALI 2, BLE - Bluetooth
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 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 list of compatible DMX and DALI control systems.

FINISH

The luminaires are all 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-T2-1	<input type="checkbox"/> NS=15° <input type="checkbox"/> SP=19° <input type="checkbox"/> NFL=30°	<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"/> WH-BK (White+Black) <input type="checkbox"/> BK-BK (Black)	<input type="checkbox"/> 48V <input type="checkbox"/> 48V-BLE (Bluetooth) <small>*Power supply must be ordered separately</small>

FG-T2-1-NS-40K-90

TEST NO.: **220062**

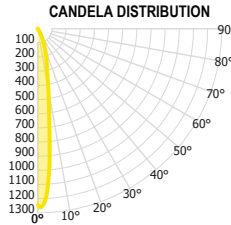
INPUT WATTS: **5.1**

LUMENS: **194**

EFFICACY: **38**

BEAM ANGLE: **15**

SPACING CRITERIA: **0.25**



	0°	90°
0°	1248	1248
10°	435	407
20°	152	154
30°	33	30
40°	10	9
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	10686501	10686501
45.00°	58993	55723
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	70
10° - 20°	70
20° - 30°	39
30° - 40°	11
40° - 50°	4
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	140	72%
0° - 30°	179	92%
0° - 40°	190	98%
0° - 60°	194	100%
0° - 80°	194	100%
0° - 90°	194	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	34.7 fc	1.6 ft	1.5 ft
8.0 ft	19.5 fc	2.1 ft	2.0 ft
10.0 ft	12.5 fc	2.6 ft	2.6 ft
12.0 ft	8.7 fc	3.1 ft	3.1 ft
14.0 ft	6.4 fc	3.6 ft	3.6 ft
16.0 ft	4.9 fc	4.2 ft	4.1 ft
18.0 ft	3.9 fc	4.7 ft	4.6 ft
20.0 ft	3.1 fc	5.2 ft	5.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	117	117	117	117	115	115	115	115	109	109	109	105	105	105	100	100	100	100	98	97	97	95
1	113	111	109	107	111	109	107	106	105	104	102	101	100	99	98	96	95	96	94	93	91	91
2	109	106	103	100	107	104	101	99	101	99	97	98	96	95	96	94	93	91	89	88	85	85
3	106	101	97	94	104	100	96	94	97	94	92	95	93	91	93	91	89	87	85	83	81	81
4	102	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	84	82	80	78	77
5	99	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	81	79	77	75	75
6	96	90	85	82	95	89	85	82	88	84	82	86	83	81	85	83	81	79	77	75	73	73
7	93	87	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77	74	71	70	70
8	90	84	80	77	89	83	79	76	82	79	76	81	78	76	81	78	76	74	72	70	68	68
9	88	81	77	74	87	81	77	74	80	76	74	79	76	74	79	76	74	72	70	68	66	66
10	86	79	75	72	85	78	75	72	78	74	72	77	74	72	77	74	72	70	68	66	64	64

FG-T2-1-SP-40K-90

TEST NO.: **220062**

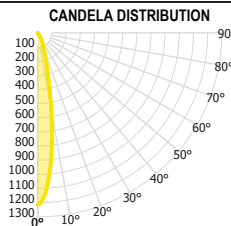
INPUT WATTS: **5.0**

LUMENS: **216**

EFFICACY: **43**

BEAM ANGLE: **19**

SPACING CRITERIA: **0.32 x 0.32**



	0°	90°
0°	1212	1212
10°	550	564
20°	131	146
30°	36	42
40°	9	10
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	10382421	10382421
45.00°	57176	63233
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	81
10° - 20°	80
20° - 30°	39
30° - 40°	12
40° - 50°	4
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	161	74%
0° - 30°	200	92%
0° - 40°	212	98%
0° - 60°	216	100%
0° - 80°	216	100%
0° - 90°	216	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	33.7 fc	2.0 ft	2.0 ft
8.0 ft	18.9 fc	2.7 ft	2.7 ft
10.0 ft	12.1 fc	3.4 ft	3.4 ft
12.0 ft	8.4 fc	4.1 ft	4.0 ft
14.0 ft	6.2 fc	4.8 ft	4.7 ft
16.0 ft	4.7 fc	5.4 ft	5.4 ft
18.0 ft	3.7 fc	6.1 ft	6.1 ft
20.0 ft	3.0 fc	6.8 ft	6.7 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	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	101	99	98	97	96
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	96	95	94	92	91	91
2	110	106	103	101	108	105	102	100	102	100	98	99	97	96	96	95	94	92	90	88	86	86
3	106	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	88	86	84	82	81
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	85	83	81	79	79
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	82	80	78	76	76
6	97	91	86	83	96	90	86	83	89	85	83	87	84	82	86	84	82	80	78	76	74	74
7	94	88	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	77	75	73	72	72
8	92	85	81	78	91	84	80	78	83	80	77	83	79	77	82	79	77	75	73	71	70	70
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	73	71	69	67	67
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	71	69	67	65	65

FG-T2-1-NFL-40K-90

TEST NO.: **220062**

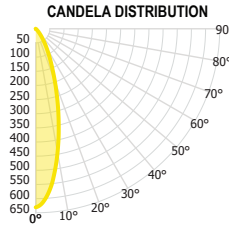
INPUT WATTS: **5.0**

LUMENS: **235**

EFFICACY: **47**

BEAM ANGLE: **30**

SPACING CRITERIA: **0.48**



CANDELA TABLE

	0°	90°
0°	631	631
10°	444	443
20°	198	189
30°	74	70
40°	20	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°	5401754	5401754
45.00°	106116	95213
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	51
10° - 20°	88
20° - 30°	60
30° - 40°	28
40° - 50°	8
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	139	59%
0° - 30°	199	85%
0° - 40°	227	97%
0° - 60°	235	100%
0° - 80°	235	100%
0° - 90°	235	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	17.5 fc	3.3 ft	3.2 ft
8.0 ft	9.9 fc	4.4 ft	4.2 ft
10.0 ft	6.3 fc	5.5 ft	5.3 ft
12.0 ft	4.4 fc	6.6 ft	6.4 ft
14.0 ft	3.2 fc	7.7 ft	7.4 ft
16.0 ft	2.5 fc	8.8 ft	8.5 ft
18.0 ft	1.9 fc	9.9 ft	9.6 ft
20.0 ft	1.6 fc	11.0 ft	10.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%	
	pc	80%				70%				50%				30%				0%
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
1	113	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	104	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85
4	100	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81
5	96	89	84	81	95	88	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	91	84	80	76	83	79	76	82	78	75	80	77	75	74
7	89	81	76	73	88	81	76	73	79	75	72	78	75	72	77	74	72	70
8	86	78	73	69	85	77	73	69	76	72	69	75	71	69	74	71	68	67
9	83	75	70	66	82	74	69	66	73	69	66	72	69	66	72	68	66	64
10	80	72	67	64	79	71	67	63	70	66	63	70	66	63	69	66	63	62

GROOVE TRACK LUMINAIRE OPTIONS:



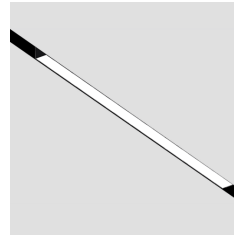
FG-L1R-C90
Seamless Linear Diffused



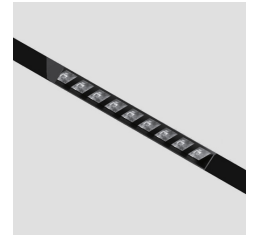
FG-L1R-CI
Seamless Linear Diffused



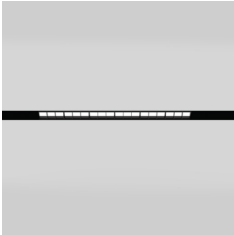
FG-L1R-CO
Seamless Linear Diffused



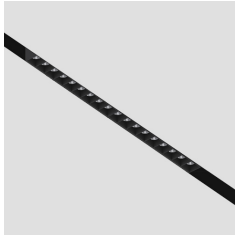
FG-L1R-8 | 16 | 32 | 48 | 64
Seamless Linear Diffused



FG-L1-WW-3 | 8
Wall Wash



FG-L3R-16 | 32
Linear Louvered



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



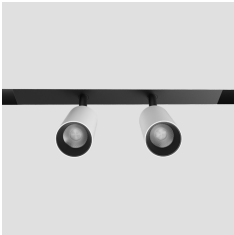
FG-L2A-3 | 5 | 8
Linear Diffused & Adjustable Light



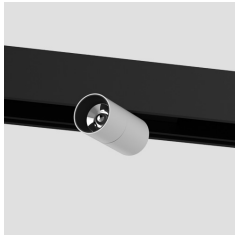
FG-L4A-3 | 5 | 8
Linear Adjustable Downlight, Task & Wall Grazer



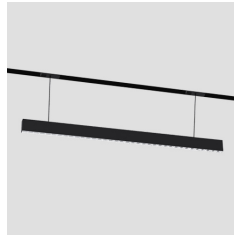
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3
Cylinder



FG-T2-4
Cylinder



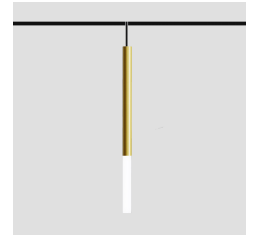
FG-T4-1 | 2 | 3
Beam Adjustable Cylinder



FG-L1P-32
Pendant Louvered



FG-P1-1 | 2
Pendant



FG-P3-1 | 2
Pendant



FG-P4-1 | 2 | 3
Pendant Globe



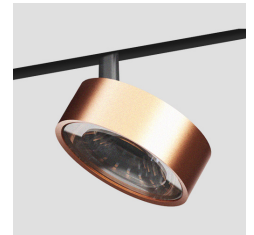
FG-P5-1
Globe



FG-T1-1
Recessed Track Light



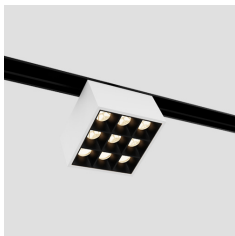
FG-T1-2
Recessed Track Light



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

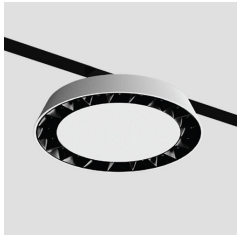


FG-T8-1
Track Globe

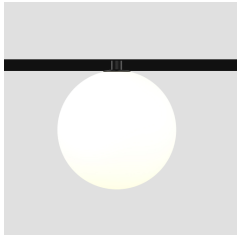


FG-T9-1
Track Globe

GROOVE TRACK LUMINAIRE OPTIONS:



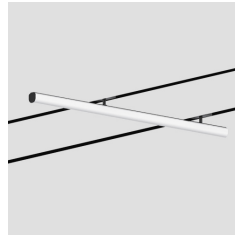
FG-T10-1
Track Downlight



FG-T11-1
Globe



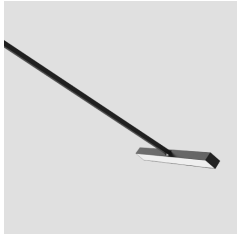
FG-L2S-32 | 48
Surface Light



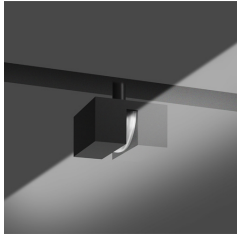
FG-L5S-32 | 48
Surface Light



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