

GROOVE 'LINEAR ADJUSTABLE' SERIES

The "Linear Adjustable" luminaire is equipped with a soft focus, frosted lens. The fixture can be mounted on a ceiling or wall track system, and once inserted into the track system, can be positioned in a variety of angles – up to 120°, on the left side 90°, on the right 30°, or straight down at 180°. Based on its positioning and distance from the subject being illuminated, the Linear Adjustable luminaire can be utilized as a wall wash, accent, or general luminaire.

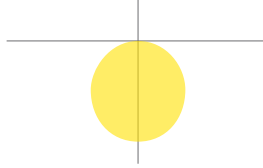
SERIES	Groove - 'Linear Adjustable' series
SIZE	3", 5", 8"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
FINISH	<input type="radio"/> WH (White) <input checked="" type="radio"/> BK (Black)
DIMMING	On / Off, DIM10 - (0-10V Dimming), DALI.1 - DALI 2, BLE - Bluetooth
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

SERIES	DELIVERED LUMENS	WATTAGE
FG-L2A-3	150	5W
FG-L2A-5	250	6.5W
FG-L2A-8	400	8W

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



VWFL: VERY WIDE FLOOD
Candlepower Distribution Curve



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

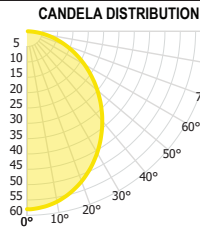
Five-year warranty for parts and components.

EXAMPLE:				
SERIES	CCT	CRI	FINISH	OPTION
FG-L2A-3 3"	<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 (Black) <input type="checkbox"/> WH (White)	<input type="checkbox"/> 48V <input type="checkbox"/> 48V-BLE (Bluetooth) *Power supply must be ordered separately
FG-L2A-5 5"				
FG-L2A-8 8"				

FG-L2A-3-40K-90

TEST NO.: **220062**

INPUT WATTS: **4.7** LUMENS: **157** EFFICACY: **33** BEAM ANGLE: **106** SPACING CRITERIA: **1.18**



	0°	90°
0°	58	58
10°	56	57
20°	52	53
30°	46	46
40°	38	39
50°	30	31
60°	22	22
70°	14	13
80°	6	6
90°	0	0

	0.00°	90.00°
0.00°	39019	39019
45.00°	32490	33309
55.00°	30225	31234
65.00°	27873	28781
75.00°	25161	23420
85.00°	19606	21613

ZONE	LUMENS
0° - 10°	6
10° - 20°	16
20° - 30°	23
30° - 40°	27
40° - 50°	28
50° - 60°	24
60° - 70°	19
70° - 80°	11
80° - 90°	4

ZONE	UMENS	% LUMINAIRE
0° - 20°	21	13%
0° - 30°	44	28%
0° - 40°	72	46%
0° - 60°	124	79%
0° - 80°	154	98%
0° - 90°	157	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	1.6 fc	15.9 ft	15.7 ft
8.0 ft	0.9 fc	21.3 ft	20.9 ft
10.0 ft	0.6 fc	26.6 ft	26.2 ft
12.0 ft	0.4 fc	31.9 ft	31.4 ft
14.0 ft	0.3 fc	37.2 ft	36.6 ft
16.0 ft	0.2 fc	42.5 ft	41.9 ft
18.0 ft	0.2 fc	47.8 ft	47.1 ft
20.0 ft	0.1 fc	53.2 ft	52.3 ft

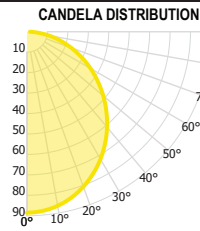
INDOOR COEFFICIENTS OF UTILIZATION

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

FG-L2A-5-40K-90

TEST NO.: **220062**

INPUT WATTS: **6.5** LUMENS: **242** EFFICACY: **37** BEAM ANGLE: **106** SPACING CRITERIA: **1.20**



	0°	90°
0°	89	89
10°	86	86
20°	81	80
30°	72	70
40°	61	58
50°	49	46
60°	36	33
70°	23	20
80°	11	8
90°	1	0

	0.00°	90.00°
0.00°	340332	340332
45.00°	298523	283682
55.00°	283572	263063
65.00°	268158	238777
75.00°	251611	205269
85.00°	242152	97919

ZONE	LUMENS
0° - 10°	8
10° - 20°	24
20° - 30°	36
30° - 40°	42
40° - 50°	42
50° - 60°	38
60° - 70°	29
70° - 80°	17
80° - 90°	6

ZONE	UMENS	% LUMINAIRE
0° - 20°	32	13%
0° - 30°	68	28%
0° - 40°	110	45%
0° - 60°	190	78%
0° - 80°	236	98%
0° - 90°	242	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	2.5 fc	16.0 ft	16.0 ft
8.0 ft	1.4 fc	21.4 ft	21.3 ft
10.0 ft	0.9 fc	26.7 ft	26.7 ft
12.0 ft	0.6 fc	32.1 ft	32.0 ft
14.0 ft	0.5 fc	37.4 ft	37.3 ft
16.0 ft	0.3 fc	42.8 ft	42.7 ft
18.0 ft	0.3 fc	48.1 ft	48.0 ft
20.0 ft	0.2 fc	53.5 ft	53.3 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
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6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

FG-L2A-8-40K-90

TEST NO.: **220062**

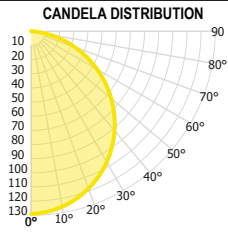
INPUT WATTS: **7.9**

LUMENS: **375**

EFFICACY: **47**

BEAM ANGLE: **113**

SPACING CRITERIA: **1.23**



CANDELA TABLE

	0°	90°
0°	129	129
10°	126	127
20°	118	121
30°	107	110
40°	92	96
50°	74	78
60°	54	59
70°	33	38
80°	12	17
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	347271	347271
45.00°	315600	332687
55.00°	299792	323390
65.00°	276027	309073
75.00°	233000	285297
85.00°	99110	235580

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	12
10° - 20°	35
20° - 30°	53
30° - 40°	64
40° - 50°	67
50° - 60°	61
60° - 70°	47
70° - 80°	28
80° - 90°	8

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	47	13%
0° - 30°	100	27%
0° - 40°	165	44%
0° - 60°	292	78%
0° - 80°	367	98%
0° - 90°	375	100%

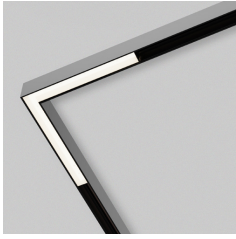
CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	3.6 fc	18.2 ft	18.3 ft
8.0 ft	2.0 fc	24.3 ft	24.4 ft
10.0 ft	1.3 fc	30.4 ft	30.5 ft
12.0 ft	0.9 fc	36.5 ft	36.7 ft
14.0 ft	0.7 fc	42.6 ft	42.8 ft
16.0 ft	0.5 fc	48.7 ft	48.9 ft
18.0 ft	0.4 fc	54.7 ft	55.0 ft
20.0 ft	0.3 fc	60.8 ft	61.1 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%				
	80%				70%				50%				30%					10%			
pc	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	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	85	83	83	83
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6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24	24

GROOVE TRACK LUMINAIRE OPTIONS:



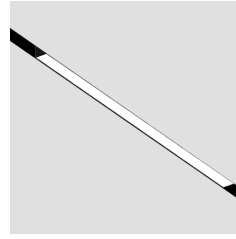
FG-L1R-C90
Seamless Linear Diffused



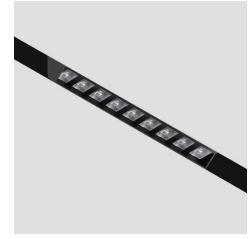
FG-L1R-CI
Seamless Linear Diffused



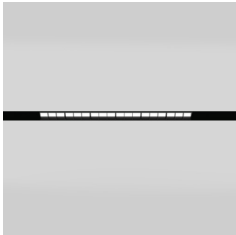
FG-L1R-CO
Seamless Linear Diffused



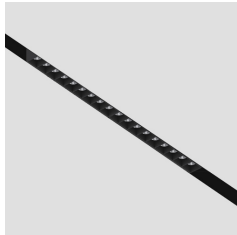
FG-L1R-8 | 16 | 32 | 48 | 64
Seamless Linear Diffused



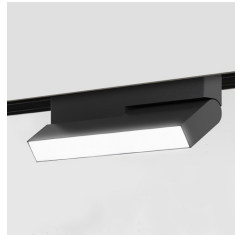
FG-L1-WW-3 | 8
Wall Wash



FG-L3R-16 | 32
Linear Louvered



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



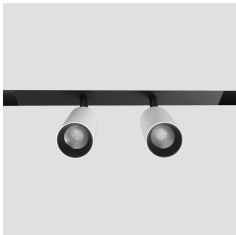
FG-L2A-3 | 5 | 8
Linear Diffused & Adjustable Light



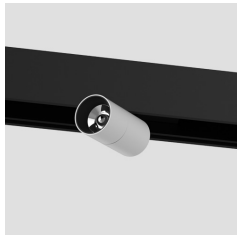
FG-L4A-3 | 5 | 8
Linear Adjustable Downlight, Task & Wall Grazer



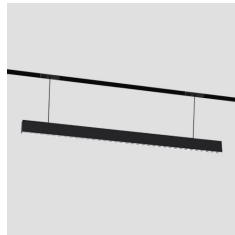
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3
Cylinder



FG-T2-4
Cylinder



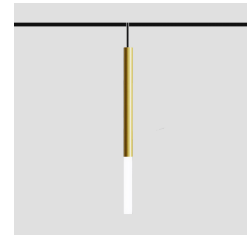
FG-T4-1 | 2 | 3
Beam Adjustable Cylinder



FG-L1P-32
Pendant Louvered



FG-P1-1 | 2
Pendant



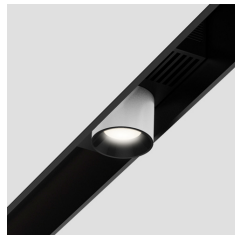
FG-P3-1 | 2
Pendant



FG-P4-1 | 2 | 3
Pendant Globe



FG-P5-1
Globe



FG-T1-1
Recessed Track Light



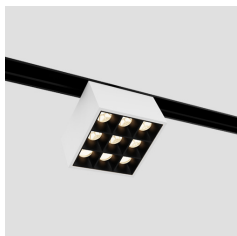
FG-T1-2
Recessed Track Light



FG-T5-1 | 2
Flat Round



FG-T6-1 | 2
Flat Square



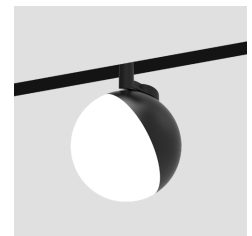
FG-T7-1 | 3
Square Track Light



FG-T7-2
Rectangle Track Light

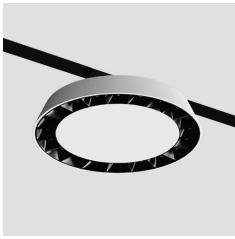


FG-T8-1
Track Globe

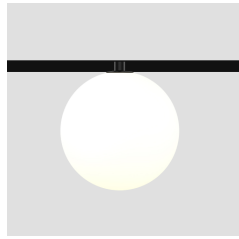


FG-T9-1
Track Globe

GROOVE TRACK LUMINAIRE OPTIONS:



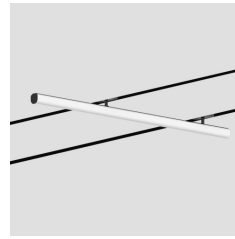
FG-T10-1
Track Downlight



FG-T11-1
Globe



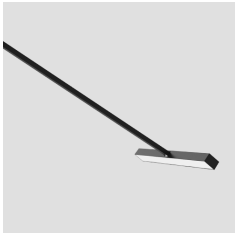
FG-L2S-32 | 48
Surface Light



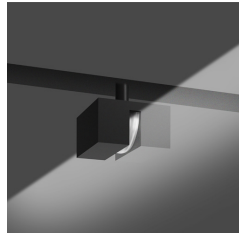
FG-L5S-32 | 48
Surface Light



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