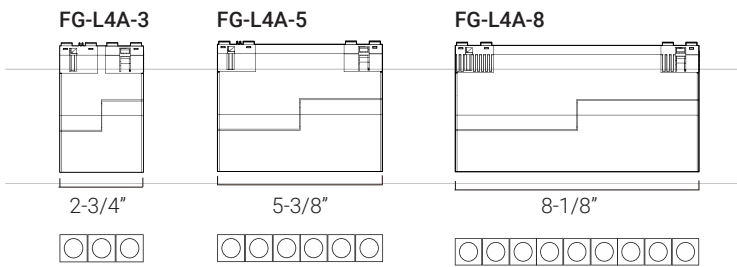


**GROOVE 'LINEAR ADJUSTABLE' SERIES**

The "Linear Adjustable Downlight, Task & Wall Grazer" luminaire is equipped with your choice of 20° spot, 32° narrow flood, or 47° flood TIR optics. 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, or straight down at 180°. Based on its positioning and distance from the subject being illuminated, the Linear Adjustable can be utilized as a wall grazer or task luminaire. When positioned straight down, it can be utilized as a downlight.

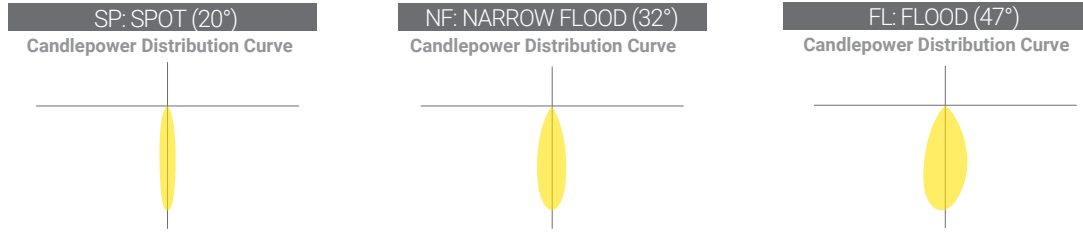


SERIES	DELIVERED LUMENS	WATTAGE
FG-L4A-3	320	6W
FG-L4A-5	550	10W
FG-L4A-8	900	13W

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

<b>SERIES</b>	Groove 'Linear Adjustable' series
<b>SIZE</b>	3", 5", 8"
<b>CCT</b>	2700K, 3000K, 3500K, 4000K, 5000K
<b>CRI</b>	90+
<b>COLOR QUALITY</b>	2 Step MacAdam Ellipse
<b>OPTICS</b>	Spot 20°, Narrow Flood 32°, Flood 47°
<b>FINISH</b>	○ WH (White) ● 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





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**

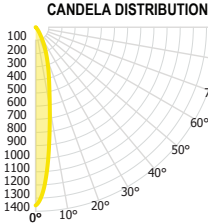
Five-year warranty for parts and components.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FG-L4A-3 3"	<input type="checkbox"/> SP=20° <input type="checkbox"/> NFL=32° <input type="checkbox"/> FL=47°	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 40K <input type="checkbox"/> 50K <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-L4A-5 5"					
FG-L4A-8 8"					

**FG-L4A-3-SP-40K-90**

TEST NO.: **220062**

INPUT WATTS: **6.4**      LUMENS: **322**      EFFICACY: **50**      BEAM ANGLE: **20**      SPACING CRITERIA: **0.31**



	0°	90°
0°	1356	1356
10°	621	655
20°	253	264
30°	83	97
40°	21	26
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	14591556	14591556
45.00°	136241	160445
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	88
10° - 20°	114
20° - 30°	77
30° - 40°	34
40° - 50°	10
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	202	63%
0° - 30°	278	86%
0° - 40°	312	97%
0° - 60°	322	100%
0° - 80°	322	100%
0° - 90°	322	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	37.7 fc	2.0 ft	2.0 ft
8.0 ft	21.2 fc	2.7 ft	2.7 ft
10.0 ft	13.6 fc	3.4 ft	3.3 ft
12.0 ft	9.4 fc	4.1 ft	4.0 ft
14.0 ft	6.9 fc	4.8 ft	4.7 ft
16.0 ft	5.3 fc	5.4 ft	5.3 ft
18.0 ft	4.2 fc	6.1 ft	6.0 ft
20.0 ft	3.4 fc	6.8 ft	6.6 ft

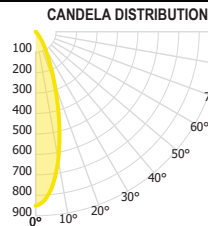
**INDOOR COEFFICIENTS OF UTILIZATION**

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%	50%	30%	10%	0%	
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	101	99	99	99	99
1	113	111	109	107	111	109	107	106	105	104	102	101	100	99	98	97	96	95	94	93	92	90
2	109	105	102	99	107	103	100	98	100	98	96	97	95	94	95	93	92	90	89	88	86	86
3	105	100	96	92	103	98	95	92	96	93	90	94	91	89	91	89	88	86	84	82	80	79
4	101	95	90	87	99	94	90	87	92	88	86	90	87	85	88	86	84	82	80	79	77	75
5	97	91	86	82	96	90	85	82	88	84	81	86	83	81	85	82	80	79	77	75	74	72
6	94	87	82	78	92	86	81	78	85	81	78	83	80	77	82	79	77	75	74	72	71	70
7	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	72	71	70	69	67
8	87	80	75	72	86	79	75	72	78	74	71	77	74	71	76	73	71	70	69	67	66	65
9	84	77	72	69	83	76	72	69	75	71	69	75	71	68	74	71	68	67	66	65	64	63
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65	64	63	62	61

**FG-L4A-3-NFL-40K-90**

TEST NO.: **220062**

INPUT WATTS: **6.4**      LUMENS: **333**      EFFICACY: **52**      BEAM ANGLE: **32**      SPACING CRITERIA: **0.51**



	0°	90°
0°	851	851
10°	636	694
20°	270	335
30°	88	116
40°	19	28
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	9155028	9155028
45.00°	107014	148571
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	72
10° - 20°	131
20° - 30°	83
30° - 40°	36
40° - 50°	10
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	203	61%
0° - 30°	286	86%
0° - 40°	323	97%
0° - 60°	333	100%
0° - 80°	333	100%
0° - 90°	333	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	23.6 fc	3.5 ft	3.6 ft
8.0 ft	13.3 fc	4.6 ft	4.8 ft
10.0 ft	8.5 fc	5.8 ft	6.0 ft
12.0 ft	5.9 fc	6.9 ft	7.2 ft
14.0 ft	4.3 fc	8.1 ft	8.4 ft
16.0 ft	3.3 fc	9.2 ft	9.7 ft
18.0 ft	2.6 fc	10.4 ft	10.9 ft
20.0 ft	2.1 fc	11.5 ft	12.1 ft

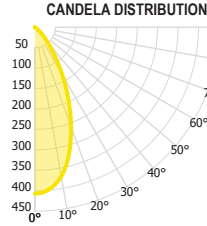
**INDOOR COEFFICIENTS OF UTILIZATION**

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%	50%	30%	10%	0%	
0	118	118	118	118	115	115	115	115	110	110	110	106	106	106	101	101	101	99	99	99	99	99
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	95	94	93	91	90
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7	89	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71	70	69	68	67
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68	67	66	65	64
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65	64	63	62	61
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	63	62	61	60	59

**FG-L4A-3-FL-40K-90**

TEST NO.: 220062

INPUT WATTS: 6.4      LUMENS: 301      EFFICACY: 47      BEAM ANGLE: 47      SPACING CRITERIA: 0.75



	0°	90°
0°	407	407
10°	370	354
20°	258	250
30°	133	135
40°	49	52
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	4380588	4380588
45.00°	384063	438712
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	37
10° - 20°	90
20° - 30°	91
30° - 40°	58
40° - 50°	24
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	127	42%
0° - 30°	219	73%
0° - 40°	277	92%
0° - 60°	301	100%
0° - 80°	301	100%
0° - 90°	301	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	11.3 fc	5.5 ft	5.5 ft
8.0 ft	6.4 fc	7.3 ft	7.3 ft
10.0 ft	4.1 fc	9.1 ft	9.1 ft
12.0 ft	2.8 fc	10.9 ft	10.9 ft
14.0 ft	2.1 fc	12.8 ft	12.7 ft
16.0 ft	1.6 fc	14.6 ft	14.6 ft
18.0 ft	1.3 fc	16.4 ft	16.4 ft
20.0 ft	1.0 fc	18.2 ft	18.2 ft

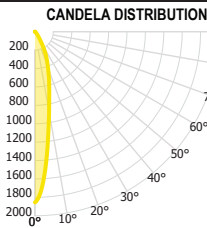
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%										0%				
		80%		70%		50%		30%		10%		0%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	117	117	117	117	114	114	114	114	109	109	109	104	104	104	100	98
1	112	109	107	104	109	107	105	103	103	101	100	99	98	97	96	94
2	106	102	98	95	104	100	96	94	97	94	91	94	92	90	91	88
3	101	95	90	86	99	94	89	86	91	87	84	89	86	83	87	84
4	96	89	84	80	94	88	83	79	86	82	78	84	80	77	82	79
5	91	83	78	74	90	83	77	73	81	76	73	79	75	72	78	74
6	87	79	73	69	86	78	72	68	76	72	68	75	71	68	74	70
7	83	74	68	64	82	73	68	64	72	67	64	71	67	63	70	66
8	79	70	64	60	78	69	64	60	68	63	60	67	63	60	66	62
9	75	66	60	57	74	66	60	57	65	60	56	64	59	56	63	59
10	72	63	57	53	71	62	57	53	61	57	53	61	56	53	60	56

**FG-L4A-5-SP-40K-90**

TEST NO.: 220062

INPUT WATTS: 9.7      LUMENS: 515      EFFICACY: 53      BEAM ANGLE: 20      SPACING CRITERIA: 0.32



	0°	90°
0°	1855	1855
10°	886	952
20°	415	442
30°	150	163
40°	37	41
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	7131090	7131090
45.00°	101501	113516
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	121
10° - 20°	172
20° - 30°	136
30° - 40°	65
40° - 50°	21
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	293	57%
0° - 30°	429	83%
0° - 40°	494	96%
0° - 60°	515	100%
0° - 80°	515	100%
0° - 90°	515	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	51.5 fc	2.1 ft	2.1 ft
8.0 ft	29.0 fc	2.8 ft	2.7 ft
10.0 ft	18.6 fc	3.5 ft	3.4 ft
12.0 ft	12.9 fc	4.2 ft	4.1 ft
14.0 ft	9.5 fc	4.9 ft	4.8 ft
16.0 ft	7.2 fc	5.6 ft	5.5 ft
18.0 ft	5.7 fc	6.3 ft	6.2 ft
20.0 ft	4.6 fc	7.0 ft	6.8 ft

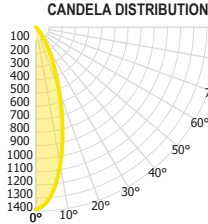
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%										0%				
		80%		70%		50%		30%		10%		0%				
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	117	117	117	117	115	115	115	115	110	110	110	105	105	105	101	99
1	113	110	108	106	110	108	106	105	104	103	101	101	100	98	97	96
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3	104	98	94	91	102	97	93	90	95	91	89	92	90	87	90	86
4	100	93	89	85	98	92	88	85	90	86	84	88	85	83	86	84
5	96	89	84	80	94	88	83	80	86	82	79	85	81	78	83	80
6	92	84	79	76	91	84	79	76	82	78	75	81	77	75	80	77
7	88	81	76	72	87	80	75	72	79	75	72	78	74	71	77	74
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70
9	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	68	65

**FG-L4A-5-NFL-40K-90**

TEST NO.: 220062

INPUT WATTS: 9.8      LUMENS: 581      EFFICACY: 59      BEAM ANGLE: 32      SPACING CRITERIA: 0.54


**CANDELA TABLE**

	0°	90°
0°	1387	1387
10°	1065	1056
20°	516	501
30°	189	181
40°	38	38
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°	5332364	5332364
45.00°	79102	80842
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	118
10° - 20°	220
20° - 30°	153
30° - 40°	71
40° - 50°	19
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	338	58%
0° - 30°	491	85%
0° - 40°	562	97%
0° - 60°	581	100%
0° - 80°	581	100%
0° - 90°	581	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	38.5 fc	3.7 ft	3.6 ft
8.0 ft	21.7 fc	4.9 ft	4.8 ft
10.0 ft	13.9 fc	6.2 ft	6.0 ft
12.0 ft	9.6 fc	7.4 ft	7.2 ft
14.0 ft	7.1 fc	8.6 ft	8.4 ft
16.0 ft	5.4 fc	9.9 ft	9.6 ft
18.0 ft	4.3 fc	11.1 ft	10.8 ft
20.0 ft	3.5 fc	12.3 ft	12.0 ft

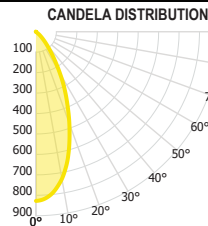
**INDOOR COEFFICIENTS OF UTILIZATION**

pf	pc	20%																0%	
		80%				70%				50%				30%				10%	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	105	105	105	101	101	101	101	99	0%
1	113	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	0%
2	109	104	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	0%
3	104	99	95	91	102	97	94	90	95	92	89	93	90	88	90	88	86	85	0%
4	100	94	89	85	98	93	88	85	90	87	84	89	85	83	87	84	82	81	0%
5	96	89	84	80	94	88	83	80	86	82	79	85	81	79	83	80	78	77	0%
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	0%
7	89	81	76	72	87	80	75	72	79	75	72	78	74	71	77	73	71	70	0%
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	0%
9	82	74	69	66	81	73	69	65	73	68	65	72	68	65	71	67	65	64	0%
10	79	71	66	63	78	71	66	63	70	65	63	69	65	62	68	65	62	61	0%

**FG-L4A-5-FL-40K-90**

TEST NO.: 220062

INPUT WATTS: 9.7      LUMENS: 553      EFFICACY: 57      BEAM ANGLE: 47      SPACING CRITERIA: 0.70


**CANDELA TABLE**

	0°	90°
0°	827	827
10°	731	740
20°	478	482
30°	234	234
40°	80	80
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°	3180928	3180928
45.00°	224205	222031
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	75
10° - 20°	172
20° - 30°	166
30° - 40°	101
40° - 50°	40
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	247	45%
0° - 30°	412	75%
0° - 40°	513	93%
0° - 60°	553	100%
0° - 80°	553	100%
0° - 90°	553	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	23.0 fc	5.1 ft	5.0 ft
8.0 ft	12.9 fc	6.7 ft	6.7 ft
10.0 ft	8.3 fc	8.4 ft	8.4 ft
12.0 ft	5.7 fc	10.1 ft	10.1 ft
14.0 ft	4.2 fc	11.8 ft	11.8 ft
16.0 ft	3.2 fc	13.5 ft	13.4 ft
18.0 ft	2.6 fc	15.2 ft	15.1 ft
20.0 ft	2.1 fc	16.9 ft	16.8 ft

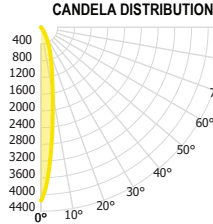
**INDOOR COEFFICIENTS OF UTILIZATION**

pf	pc	20%																0%	
		80%				70%				50%				30%				10%	0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	117	117	117	117	114	114	114	114	109	109	109	105	105	105	100	100	100	98	0%
1	112	109	107	105	109	107	105	103	103	102	100	100	98	97	96	95	94	92	0%
2	107	102	98	95	104	100	97	94	97	94	92	94	92	90	92	90	88	87	0%
3	102	96	91	87	100	94	90	87	92	88	85	89	86	84	87	85	83	81	0%
4	97	90	85	81	95	89	84	80	87	82	79	85	81	78	83	80	77	76	0%
5	92	84	79	75	91	83	78	75	82	77	74	80	76	73	79	75	73	71	0%
6	88	80	74	70	86	79	73	70	77	73	69	76	72	69	75	71	68	67	0%
7	84	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63	0%
8	80	71	65	62	79	70	65	61	69	65	61	68	64	61	68	64	61	59	0%
9	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	60	57	56	0%
10	73	64	59	55	72	64	58	55	63	58	55	62	58	55	61	57	54	53	0%

**FG-L4A-8-SP-40K-90**

TEST NO.: **220062**

INPUT WATTS: **13.6**      LUMENS: **886**      EFFICACY: **65**      BEAM ANGLE: **20**      SPACING CRITERIA: **0.26**



	0°	90°
0°	4148	4148
10°	1626	1871
20°	644	704
30°	210	211
40°	47	45
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	11161636	11161636
45.00°	70708	79499
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	261
10° - 20°	310
20° - 30°	204
30° - 40°	87
40° - 50°	25
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	570	64%
0° - 30°	774	87%
0° - 40°	861	97%
0° - 60°	886	100%
0° - 80°	886	100%
0° - 90°	886	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	115.2 fc	1.9 ft	1.8 ft
8.0 ft	64.8 fc	2.5 ft	2.4 ft
10.0 ft	41.5 fc	3.1 ft	3.0 ft
12.0 ft	28.8 fc	3.8 ft	3.7 ft
14.0 ft	21.2 fc	4.4 ft	4.3 ft
16.0 ft	16.2 fc	5.0 ft	4.9 ft
18.0 ft	12.8 fc	5.7 ft	5.5 ft
20.0 ft	10.4 fc	6.3 ft	6.1 ft

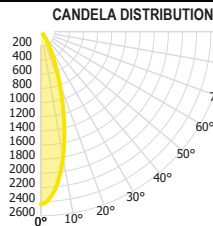
**INDOOR COEFFICIENTS OF UTILIZATION**

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	106	106	106	106	101	101	101	99	0%
1	114	111	109	107	111	109	107	106	105	104	103	102	101	100	98	97	97	95	0%
2	109	105	102	99	107	104	101	98	101	98	96	98	96	94	95	94	92	91	0%
3	105	100	96	93	103	99	95	92	96	93	91	94	92	90	92	90	88	87	0%
4	101	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83	0%
5	98	91	87	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80	0%
6	94	87	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76	0%
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	74	0%
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	78	74	72	71	0%
9	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	69	68	0%
10	83	75	71	68	82	75	70	68	74	70	67	73	70	67	73	69	67	66	0%

**FG-L4A-8-NFL-40K-90**

TEST NO.: **220062**

INPUT WATTS: **13.5**      LUMENS: **932**      EFFICACY: **69**      BEAM ANGLE: **32**      SPACING CRITERIA: **0.50**



	0°	90°
0°	2439	2439
10°	1802	1946
20°	766	944
30°	238	333
40°	45	86
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	6562218	6562218
45.00°	64619	108612
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	205
10° - 20°	366
20° - 30°	233
30° - 40°	100
40° - 50°	27
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	571	61%
0° - 30°	804	86%
0° - 40°	905	97%
0° - 60°	932	100%
0° - 80°	932	100%
0° - 90°	932	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	67.7 fc	3.4 ft	3.5 ft
8.0 ft	38.1 fc	4.6 ft	4.7 ft
10.0 ft	24.4 fc	5.7 ft	5.8 ft
12.0 ft	16.9 fc	6.9 ft	7.0 ft
14.0 ft	12.4 fc	8.0 ft	8.1 ft
16.0 ft	9.5 fc	9.2 ft	9.3 ft
18.0 ft	7.5 fc	10.3 ft	10.5 ft
20.0 ft	6.1 fc	11.4 ft	11.6 ft

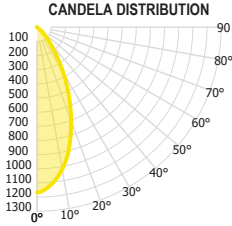
**INDOOR COEFFICIENTS OF UTILIZATION**

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	106	106	106	106	101	101	101	99	0%
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	95	0%
2	109	105	102	99	107	103	100	98	100	98	96	97	95	94	95	93	92	90	0%
3	105	99	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86	0%
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	82	0%
5	97	90	85	82	95	89	85	81	87	83	80	86	82	80	84	81	79	78	0%
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74	0%
7	90	82	77	74	88	81	77	73	80	76	73	79	75	73	78	75	72	71	0%
8	86	79	74	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68	0%
9	83	75	70	67	82	75	70	67	74	70	67	73	69	67	72	69	66	65	0%
10	80	72	68	64	79	72	67	64	71	67	64	71	67	64	70	66	64	63	0%

**FG-L4A-8-FL-40K-90**

TEST NO.: **220062**

INPUT WATTS: **13.6**      LUMENS: **851**      EFFICACY: **63**      BEAM ANGLE: **47**      SPACING CRITERIA: **0.72**



**CANDELA TABLE**

	0°	90°
0°	1168	1168
10°	1020	1147
20°	703	819
30°	366	415
40°	136	151
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°	3142523	3142523
45.00°	278723	291662
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	107
10° - 20°	257
20° - 30°	259
30° - 40°	162
40° - 50°	67
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	363	43%
0° - 30°	622	73%
0° - 40°	785	92%
0° - 60°	851	100%
0° - 80°	851	100%
0° - 90°	851	100%

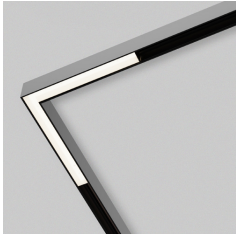
**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	32.4 fc	5.3 ft	5.3 ft
8.0 ft	18.2 fc	7.1 ft	7.0 ft
10.0 ft	11.7 fc	8.9 ft	8.8 ft
12.0 ft	8.1 fc	10.7 ft	10.6 ft
14.0 ft	6.0 fc	12.5 ft	12.3 ft
16.0 ft	4.6 fc	14.2 ft	14.1 ft
18.0 ft	3.6 fc	16.0 ft	15.8 ft
20.0 ft	2.9 fc	17.8 ft	17.6 ft

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																0%						
	80%				70%				50%				30%					10%		0%			
pc	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	0%
pw	0	117	117	117	117	114	114	114	114	109	109	109	104	104	104	104	100	100	100	100	98		
	1	112	109	107	105	109	107	105	103	103	101	100	99	98	97	96	95	94	92				
	2	106	102	98	95	104	100	97	94	97	94	92	94	92	90	91	89	88	86				
	3	101	95	90	87	99	94	89	86	91	88	85	89	86	83	87	84	82	81				
	4	96	89	84	80	95	88	83	79	86	82	79	84	80	78	82	79	77	75				
	5	92	84	78	74	90	83	78	74	81	77	73	79	76	72	78	75	72	70				
	6	87	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66				
	7	83	74	69	65	82	74	68	64	72	68	64	71	67	64	70	66	63	62				
	8	79	70	64	61	78	70	64	60	69	64	60	68	63	60	67	63	60	58				
	9	76	66	61	57	75	66	61	57	65	60	57	64	60	57	63	59	56	55				
	10	72	63	57	54	71	63	57	54	62	57	54	61	57	53	60	56	53	52				

**GROOVE TRACK LUMINAIRE OPTIONS:**



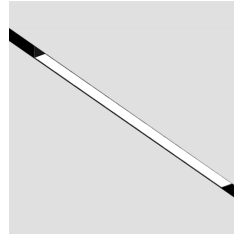
FG-L1R-C90  
*Seamless Linear Diffused*



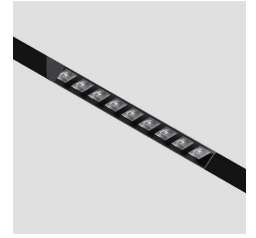
FG-L1R-CI  
*Seamless Linear Diffused*



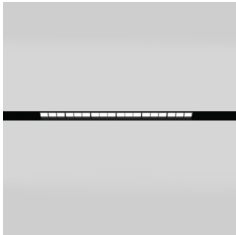
FG-L1R-CO  
*Seamless Linear Diffused*



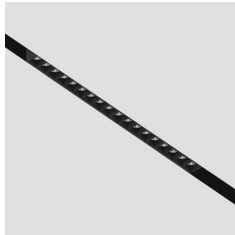
FG-L1R-8 | 16 | 32 | 48 | 64  
*Seamless Linear Diffused*



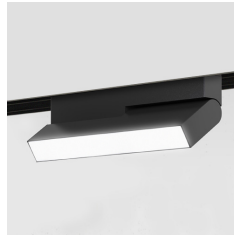
FG-L1-WW-3 | 8  
*Wall Wash*



FG-L3R-16 | 32  
*Linear Louvered*



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



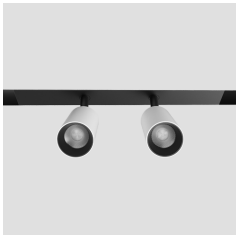
FG-L2A-3 | 5 | 8  
*Linear Diffused & Adjustable Light*



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



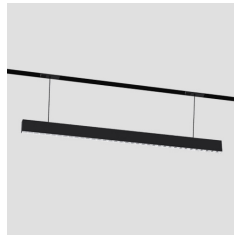
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3  
*Cylinder*



FG-T2-4  
*Cylinder*



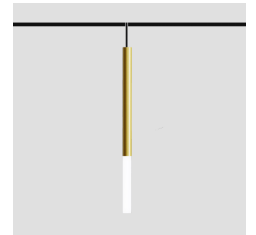
FG-T4-1 | 2 | 3  
*Beam Adjustable Cylinder*



FG-L1P-32  
*Pendant Louvered*



FG-P1-1 | 2  
*Pendant*



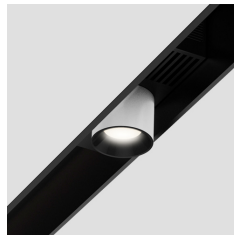
FG-P3-1 | 2  
*Pendant*



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



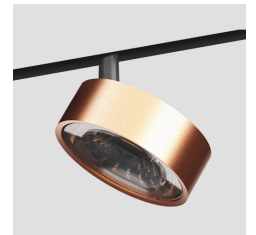
FG-P5-1  
*Globe*



FG-T1-1  
*Recessed Track Light*



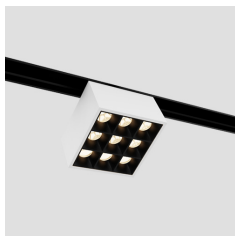
FG-T1-2  
*Recessed Track Light*



FG-T5-1 | 2  
*Flat Round*



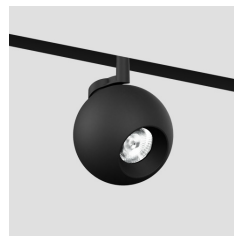
FG-T6-1 | 2  
*Flat Square*



FG-T7-1 | 13  
*Square Track Light*



FG-T7-2  
*Rectangle Track Light*



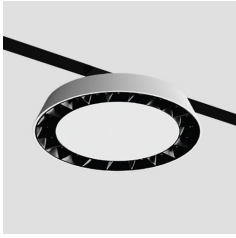
FG-T8-1  
*Track Globe*



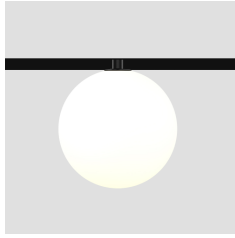
FG-T9-1  
*Track Globe*



**GROOVE TRACK LUMINAIRE OPTIONS:**



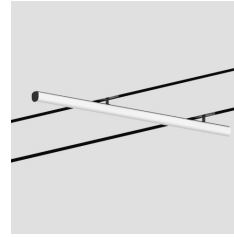
FG-T10-1  
*Track Downlight*



FG-T11-1  
*Globe*



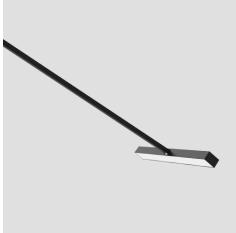
FG-L2S-32 | 48  
*Surface Light*



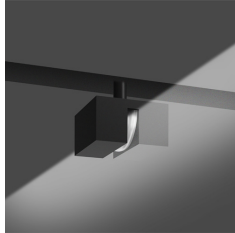
FG-L5S-32 | 48  
*Surface Light*



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*