

\*The Silicone is cuttable with a 4" cut unit. There are black cut marks on it.

\*The rest part without the live-in could not be used when it's cut, and the end needs to be protected using a specific glue.

**GROOVE BLADE SERIES**

The Groove Blade 48V Track System offers a perfect blend of minimalism and versatility, designed to meet the demands of modern lighting. Its ultra-slim 7mm-wide track integrates seamlessly into various interiors, offering mounting options such as recessed, ceiling, wall, and suspended configurations, including direct and indirect illumination. Compatible with surfaces like wood and drywall, the system supports diverse architectural applications.

Groove Blade Linear Silicone is a versatile, cuttable luminaire designed specifically for the Groove Blade system. Made from flexible silicone, it can be trimmed to desired length and conforms seamlessly to both straight runs and curved corners—including tight radii and 90° turns. Ideal for continuous lines of light across complex layouts, GB-L1R-SI-9 delivers soft, diffused illumination with a clean, modern aesthetic, making it a perfect solution for architectural highlights, custom geometries, and dynamic lighting compositions.

SERIES	LUMENS / FT	WATTAGE / FT
GB-L1R-SI-9	150lm	3.8W

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

SERIES	Groove Blade - 'Linear Silicone' series
SIZE OPTIONS	Lengths: 9 ft
CCT	2700K, 3000K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	Very Wide Flood 108°
FINISH	○ WH-WH (White) ● 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



## GROOVE BLADE 48V TRACK SYSTEM

The Groove Blade 48V Track System combines minimalism and versatility, offering a streamlined solution for modern lighting needs. Featuring an ultra-slim 7mm-wide track, the Groove Blade system seamlessly integrates into any design. The Groove Blade track utilizes a simple insertion mechanism for mounting fixtures, ensuring effortless installation and interchangeability while maintaining a clean aesthetic.

Available in Trimless Recessed, Ceiling Mount, Suspended Mount, Suspended Mount with Direct and Indirect Illumination, and Wall Mount options, the Groove Blade system adapts to diverse architectural applications. Its mounting options are compatible with surfaces such as wood and drywall ceilings, allowing for seamless integration into walls and ceilings.

The system includes a variety of connectors, such as flat, inside and outside "L" corners, and flexible round curved corners, enabling custom geometric designs and transitions across different planes. Flexible power connectors further enhance design freedom, ensuring smooth connectivity across complex layouts.

Fixtures are fully replaceable and interchangeable, providing the flexibility to update designs as needed. The Groove Blade supports a wide range of mounting options and luminaire types, making it ideal for accent, task, and general illumination in applications such as galleries, museums, hospitality spaces, retail spaces, corporate offices, and residential interiors.

Designed for modern aesthetics and adaptability, the Groove Blade 48V Track System is the perfect choice for those who seek precision and innovation in lighting design.

## 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.

## 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.

## DRIVERS

The Groove Blade 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' 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.

## LED MODULE PERFORMANCE

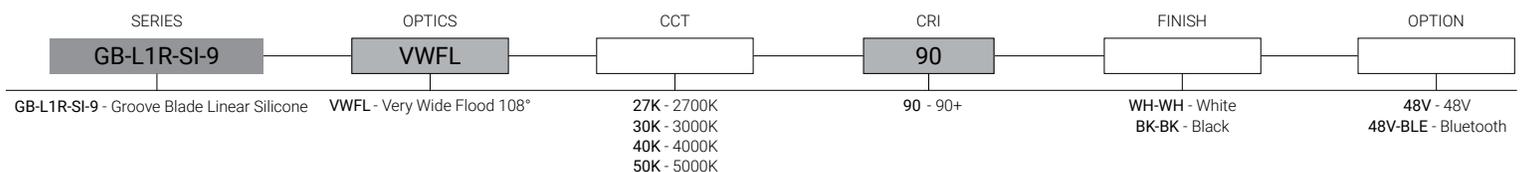
The Groove Blade System's luminaires are equipped with 2-step McAdam Eclipse LEDs, which provide consistent color across all fixtures, and 90+CRI. The LEDs are available in a variety of kelvin temperature options.

## WARRANTY

Five-year warranty for parts and components.

## MODULE ORDERING CHART:

Example: GB-L1R-SI-9-VWFL-30K-90-WH-BK-48V



GROOVE BLADE LUMINAIRE OPTIONS



GB-T2-1  
**Cylinder**  
1 7/8" x 7/8", 2W, 250 lm



GB-T2-2  
**Cylinder**  
2 1/8" x 1 1/8", 2W, 250 lm



GB-T2-3  
**Cylinder**  
2 1/2" x 1 1/4", 6W, 900 lm



GB-T2-4  
**Cylinder**  
3 1/2" x 2", 13W, 1300 lm



GB-T2-5  
**Cylinder**  
4 1/4" x 2 1/4", 18W, 2650 lm



GB-T3-1  
**Dual Cylinder**  
1 7/8" x 7/8", 2.1W x2, 500 lm



GB-T3-2  
**Dual Cylinder**  
2 1/8" x 1 1/8", 4.5W x2, 1400 lm



GB-T3-3  
**Dual Cylinder**  
2 1/2" x 1 1/4", 7W x2, 1800 lm



GB-T3-4  
**Dual Cylinder**  
3 1/2" x 2", 13W x2, 3100 lm



GB-T5-1  
**Flat Round**  
1" x 3", 6W, 650 lm



GB-T8-1  
**Track Globe**  
1 3/8", 2.1W, 260 lm



GB-T8-2  
**Track Globe**  
2 1/4", 6.3W, 900 lm



GB-T11-1  
**Globe**  
4", 4.5W, 250 lm



GB-T12-1  
**Flat Round Downlight**  
3", 4.5W, 330 lm



GB-T12-2  
**Flat Round Downlight**  
4", 9W, 1200 lm



GB-T12-3  
**Flat Round Downlight**  
5 1/2", 18W, 2200 lm



GB-TS-1  
**Flat Round Diffuse**  
6 1/2", 13W, 1400 lm



GB-T13-1  
**Round Downlight**  
3", 4.5W, 330 lm



GB-T13-2  
**Round Downlight**  
4", 9W, 1200 lm



GB-T13-3  
**Round Downlight**  
5 1/2", 18W, 2200 lm

GROOVE BLADE LUMINAIRE OPTIONS



*GB-TS-2*  
**Track Surface Round**  
15½", 11W, 150 lm



*GB-TS-3*  
**Track Surface Round Indirect**  
15½", 11W, 150 lm



*GB-T14-1*  
**Track Hose Light**  
2¼" x ¾", 4W, 220 lm



*GB-L1R-12*  
**Linear Diffused (12")**  
12", 4W, 100 lm



*GB-L1R-24*  
**Linear Diffused (24")**  
24", 8W, 200 lm



*GB-L1R-48*  
**Linear Diffused (48")**  
48", 12W, 300 lm



*GB-L2R-WW-12*  
**Linear Round Wall Wash**  
12", 4W, 100 lm



*GB-L2R-WW-24*  
**Linear Round Wall Wash**  
24", 8W, 200 lm



*GB-L2R-WW-48*  
**Linear Round Wall Wash**  
48", 12W, 300 lm



*GB-L4R-12*  
**Linear Downlight (12")**  
12", 5W, 270 lm



*GB-L4R-24*  
**Linear Downlight (24")**  
24", 9W, 460 lm



*GB-L1R-SI-9*  
**Linear Silicone | 9 ft**  
9 ft, 4W, 140 lm



*GB-P1-1*  
**Pendant**  
11¾" x 1¼", 8W, 650 lm



*GB-P5-1*  
**Pendant Globe**  
4", 4.5W, 250 lm



*GB-P7-1*  
**Pendant Round Diffuse**  
6¼", 14W, 500 lm



*GB-P2-1*  
**Pendant Chandelier**  
17¾", 10W, 1500 lm

**GB-L1R-SI-9-VWFL-40K-90-BK-BK-48V (1FT)**

TEST NO.: **EL02212530**

INPUT WATTS: **3.8**

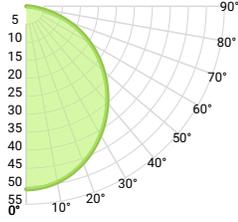
LUMENS: **137**

EFFICACY: **36**

BEAM ANGLE: **107**

SPACING CRITERIA: **1.20**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	51	51
10°	50	50
20°	46	47
30°	41	42
40°	35	36
50°	28	29
60°	20	21
70°	12	13
80°	4	5
90°	0	0

**LUMINANCE (cd/sq.m)**

	0.00°	90.00°
0.00°	5082	5082
45.00°	4459	4582
55.00°	4230	4364
65.00°	3913	4057
75.00°	3143	3488
85.00°	1199	2288

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	5
10° - 20°	14
20° - 30°	20
30° - 40°	24
40° - 50°	25
50° - 60°	22
60° - 70°	17
70° - 80°	9
80° - 90°	2

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LUMINAIRE
0° - 20°	18	13%
0° - 30°	39	28%
0° - 40°	63	46%
0° - 60°	109	80%
0° - 80°	135	99%
0° - 90°	137	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°	BEAM DIA. 90°
6.0 m	1.4 lx	16.1 m	16.8 m
8.0 m	0.8 lx	21.5 m	22.4 m
10.0 m	0.5 lx	26.8 m	28.0 m
12.0 m	0.4 lx	32.2 m	33.6 m
14.0 m	0.3 lx	37.5 m	39.2 m
16.0 m	0.2 lx	42.9 m	44.8 m
18.0 m	0.2 lx	48.3 m	50.4 m
20.0 m	0.1 lx	53.6 m	56.0 m

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																0%				
	80%				70%				50%				30%					10%			
pc																					0%
pw	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	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	84	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	70	70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59	59	59	
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	