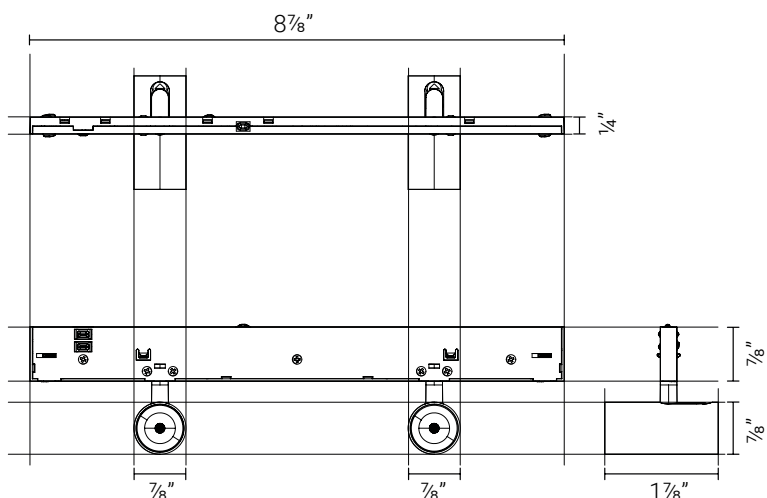




Rotate 355° Tilt 85°



SERIES	LUMENS	WATTAGE
GB-T3-1	500lm	6W

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

### 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.

With modular connectors—including flat, "L" corners, and flexible curved corners—it enables custom geometric designs and smooth transitions across planes. Fully replaceable and interchangeable fixtures provide the flexibility to update or adapt lighting designs over time. Ideal for accent, task, and general illumination, the Groove Blade enhances spaces such as galleries, museums, offices, hospitality venues, retail, and residential interiors. Combining precision, innovation, and effortless installation, it sets a new standard for modern lighting solutions.

SERIES	Groove Blade - 'Dual Cylinder' series
CYLINDER SIZE	Length: 1 7/8", Diameter: 7/8"
CCT	2700K, 3000K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	Spot 20°, Narrow Flood 32°, Flood 54°
FINISH	<div> <div>●</div> WH-BK (White+Black) <div>●</div> BK-BK (Black) </div> <div> <div>○</div> WH-WH (White) </div>
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:

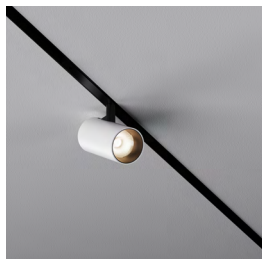
Example: GB-T3-1-SP-30K-90-WH-BK-48V

SERIES	OPTICS	CCT	CRI	FINISH	OPTION
<b>GB-T3-1</b>			<b>90</b>		
GB-T3-1 - Groove Blade Cylinder	SP - Spot 20° NFL - Narrow Flood 32° FL - Flood 54°	27K - 2700K 30K - 3000K 40K - 4000K 50K - 5000K	90 - 90+	WH-BK - White+Black BK-BK - Black WH-WH - White	48V - 48V 48V-BLE - Bluetooth

GROOVE BLADE LUMINAIRE OPTIONS



GB-T2-1  
**Cylinder**  
1 7/8" x 7/8", 4W, 250 lm



GB-T2-2  
**Cylinder**  
2 1/8" x 1 1/8", 6W, 600 lm



GB-T2-3  
**Cylinder**  
2 1/2" x 1 1/4", 9W, 700 lm



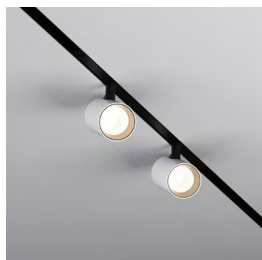
GB-T2-4  
**Cylinder**  
3 1/2" x 2", 14W, 1600 lm



GB-T2-5  
**Cylinder**  
4 1/4" x 2 1/4", 18W, 2000 lm



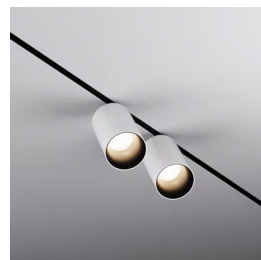
GB-T3-1  
**Dual Cylinder**  
1 7/8" x 7/8", 6W, 500 lm



GB-T3-2  
**Dual Cylinder**  
2 1/8" x 1 1/8", 11W, 1000 lm



GB-T3-3  
**Dual Cylinder**  
2 1/2" x 1 1/4", 15W 1300 lm



GB-T3-4  
**Dual Cylinder**  
3 1/2" x 2", 27W, 3000 lm



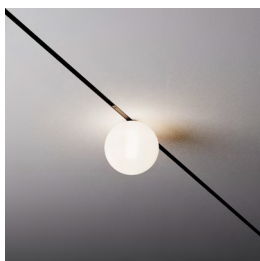
GB-T5-1  
**Flat Round**  
1" x 3", 8W, 650 lm



GB-T8-1  
**Track Globe**  
1 1/8", 3W, 250 lm



GB-T8-2  
**Track Globe**  
2 1/4", 9W, 750 lm



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



GB-T12-1  
**Flat Round Downlight**  
3", 7W, 450 lm



GB-T12-2  
**Flat Round Downlight**  
4", 9W, 700 lm



GB-T12-3  
**Flat Round Downlight**  
5 1/2", 18W, 1400 lm



GB-TS-1  
**Flat Round Diffuse**  
6 1/8", 15W, 500 lm



GB-T13-1  
**Round Downlight**  
3", 7W, 450 lm



GB-T13-2  
**Round Downlight**  
4", 9W, 700 lm



GB-T13-3  
**Round Downlight**  
5 1/2", 18W, 1400 lm

GROOVE BLADE LUMINAIRE OPTIONS



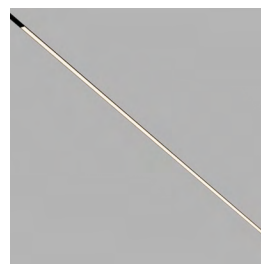
GB-TS-2  
**Track Surface Round**  
15½", 11W, 150 lm



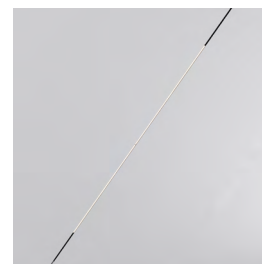
GB-TS-3  
**Track Surface Round Indirect**  
15½", 11W, 150 lm



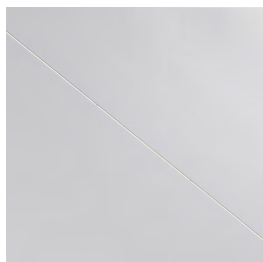
GB-T14-1  
**Track Hose Light**  
2¼" x ¾", 4W, 220 lm



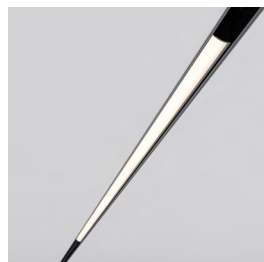
GB-L1R-12  
**Linear Diffused (12")**  
12", 4W, 100 lm



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



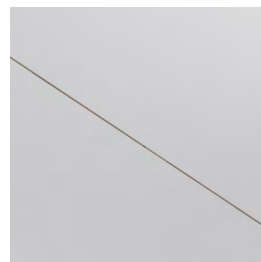
GB-L1R-48  
**Linear Diffused (48")**  
48", 12W, 300 lm



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



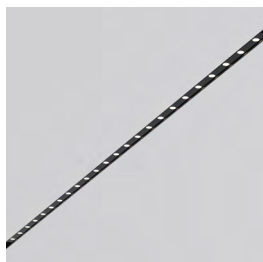
GB-L2R-WW-24  
**Linear Round Wall Wash**  
24", 8W, 200 lm



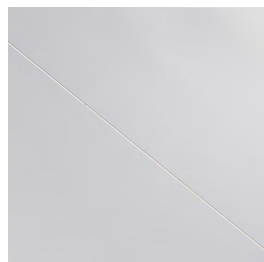
GB-L2R-WW-48  
**Linear Round Wall Wash**  
48", 12W, 300 lm



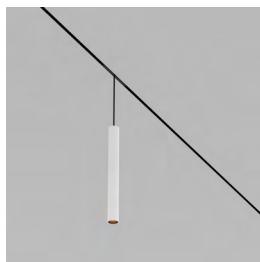
GB-L4R-12  
**Linear Downlight (12")**  
12", 5W, 270 lm



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



GB-L1R-SI-9  
**Linear Silicon | 9 ft**  
9 ft, 7W, 250 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**  
6¾", 14W, 500 lm



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



**GB-T3-1-SP-40K-90-WH-BK-48V**

TEST NO.: **EL02212530**

INPUT WATTS: **5.9**

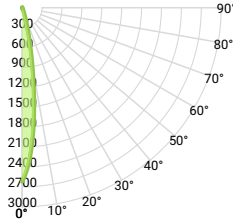
LUMENS: **439**

EFFICACY: **74**

BEAM ANGLE: **20**

SPACING CRITERIA: **0.26**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	2617	2617
10°	880	782
20°	84	87
30°	14	14
40°	3	3
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°	4250736	4250736
45.00°	2763	2154
55.00°	204	249
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	190
10° - 20°	189
20° - 30°	47
30° - 40°	10
40° - 50°	2
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	379	86%
0° - 30°	426	97%
0° - 40°	437	99%
0° - 60°	439	100%
0° - 80°	439	100%
0° - 90°	439	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	72.7 lx	2.1 m	2.1 m
8.0 m	40.9 lx	2.8 m	2.8 m
10.0 m	26.2 lx	3.5 m	3.5 m
12.0 m	18.2 lx	4.2 m	4.2 m
14.0 m	13.4 lx	4.9 m	4.9 m
16.0 m	10.2 lx	5.5 m	5.7 m
18.0 m	8.1 lx	6.2 m	6.4 m
20.0 m	6.5 lx	6.9 m	7.1 m

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																0%
pc	80%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	96	96	96	96	94	94	94	94	90	90	90	86	86	86	83	83	83
1	93	92	90	89	91	90	89	88	87	86	85	84	83	82	81	81	80
2	90	88	86	84	89	86	84	83	84	82	81	82	80	79	80	79	78
3	88	84	82	80	87	83	81	79	81	79	78	80	78	77	78	77	75
4	86	82	79	76	84	81	78	76	79	77	75	78	76	74	76	75	73
5	83	79	76	74	82	78	75	73	77	75	73	76	74	72	75	73	72
6	81	77	74	71	80	76	73	71	75	73	71	74	72	70	73	71	70
7	79	74	71	69	78	74	71	69	73	71	69	72	70	68	72	70	68
8	77	73	69	67	77	72	69	67	71	69	67	71	68	67	70	68	67
9	76	71	68	66	75	70	68	66	70	67	65	69	67	65	69	67	65
10	74	69	66	64	73	69	66	64	68	66	64	68	65	64	67	65	64

**GB-T3-1-NFL-40K-90-WH-BK-48V**

TEST NO.: **EL02212530**

INPUT WATTS: **5.9**

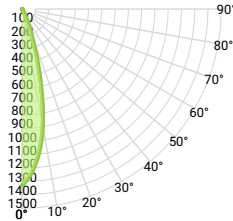
LUMENS: **447**

EFFICACY: **76**

BEAM ANGLE: **32**

SPACING CRITERIA: **0.43 x 0.43**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	1327	1327
10°	895	911
20°	213	204
30°	18	21
40°	4	3
50°	1	1
60°	0	0
70°	0	0
80°	0	0
90°	0	0

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

	0.00°	90.00°
0.00°	2155250	2155250
45.00°	4256	3388
55.00°	567	633
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	117
10° - 20°	213
20° - 30°	96
30° - 40°	18
40° - 50°	3
50° - 60°	1
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	329	74%
0° - 30°	425	95%
0° - 40°	443	99%
0° - 60°	447	100%
0° - 80°	447	100%
0° - 90°	447	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	36.9 lx	3.4 m	3.5 m
8.0 m	20.7 lx	4.6 m	4.7 m
10.0 m	13.3 lx	5.7 m	5.8 m
12.0 m	9.2 lx	6.9 m	7.0 m
14.0 m	6.8 lx	8.0 m	8.1 m
16.0 m	5.2 lx	9.2 m	9.3 m
18.0 m	4.1 lx	10.3 m	10.5 m
20.0 m	3.3 lx	11.5 m	11.6 m

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																0%
pc	80%																0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	98	98	98	98	96	96	96	96	91	91	91	87	87	87	84	84	84
1	94	93	91	89	92	91	89	88	88	86	85	85	84	83	82	81	80
2	91	88	85	83	89	87	84	82	84	82	81	82	80	79	79	78	77
3	88	84	81	78	86	83	80	78	81	78	76	79	77	75	77	76	74
4	85	80	77	74	84	79	76	74	78	75	73	76	74	72	75	73	71
5	82	77	73	71	81	76	73	70	75	72	70	74	71	69	72	70	69
6	79	74	70	68	78	73	70	67	72	69	67	71	69	67	70	68	66
7	77	71	68	65	76	71	67	65	70	67	64	69	66	64	68	66	64
8	75	69	65	63	74	68	65	62	67	64	62	67	64	62	66	64	62
9	72	66	63	60	71	66	63	60	65	62	60	65	62	60	64	62	60
10	70	64	61	58	69	64	60	58	63	60	58	63	60	58	62	60	58

**GB-T3-1-FL-40K-90-WH-BK-48V**

TEST NO.: **EL02212530**

INPUT WATTS: **5.9**

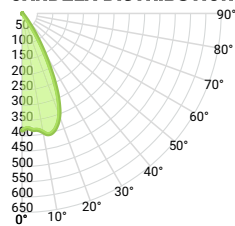
LUMENS: **451**

EFFICACY: **76**

BEAM ANGLE: **54**

SPACING CRITERIA: **0.92**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	382	382
10°	393	500
20°	354	471
30°	135	160
40°	11	8
50°	1	1
60°	0	0
70°	0	0
80°	0	0
90°	0	0

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

	0.00°	90.00°
0.00°	620250	620250
45.00°	8439	7737
55.00°	634	429
65.00°	0	0
75.00°	0	0
85.00°	0	0

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	40
10° - 20°	139
20° - 30°	178
30° - 40°	82
40° - 50°	10
50° - 60°	1
60° - 70°	0
70° - 80°	0
80° - 90°	0

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	180	40%
0° - 30°	358	79%
0° - 40°	440	98%
0° - 60°	451	100%
0° - 80°	451	100%
0° - 90°	451	100%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	10.6 lx	6.2 m	6.3 m
8.0 m	6.0 lx	8.3 m	8.4 m
10.0 m	3.8 lx	10.4 m	10.5 m
12.0 m	2.7 lx	12.4 m	12.6 m
14.0 m	1.9 lx	14.5 m	14.7 m
16.0 m	1.5 lx	16.6 m	16.8 m
18.0 m	1.2 lx	18.7 m	18.9 m
20.0 m	1.0 lx	20.7 m	21.0 m

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	20%																		0%
pc	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	99	99	99	99	96	96	96	96	92	92	92	88	88	88	85	85	85	83	
1	94	92	90	88	92	90	89	87	87	86	84	84	83	82	81	80	79	78	
2	90	86	83	80	88	85	82	79	82	80	78	80	78	76	77	76	74	73	
3	86	81	77	74	84	80	76	73	77	74	72	75	73	71	74	71	70	68	
4	82	76	71	68	80	75	71	68	73	69	67	71	68	66	70	67	65	64	
5	78	71	66	63	76	70	66	63	69	65	62	67	64	62	66	63	61	60	
6	74	67	62	59	73	66	62	59	65	61	58	64	60	58	63	60	57	56	
7	70	63	58	55	69	62	58	55	61	57	54	60	57	54	60	56	54	53	
8	67	59	55	51	66	59	54	51	58	54	51	57	54	51	57	53	51	50	
9	64	56	52	48	63	56	51	48	55	51	48	54	51	48	54	50	48	47	
10	61	53	49	45	60	53	48	45	52	48	45	52	48	45	51	48	45	44	