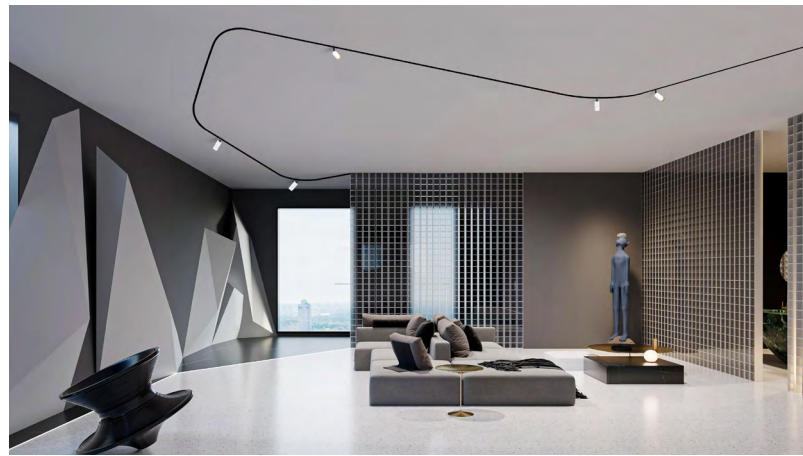
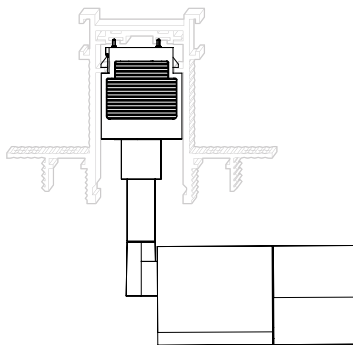
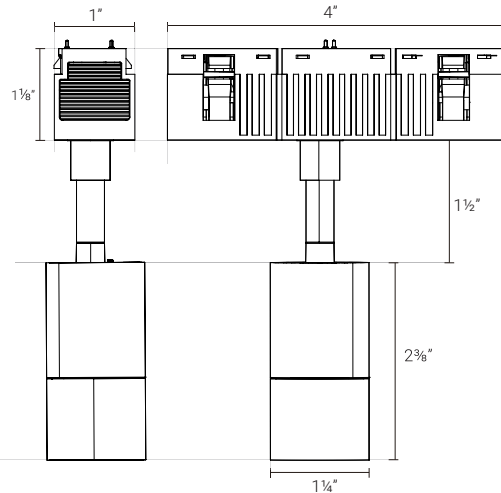




Rotate 355° Tilt 85° Zoom



SERIES	LUMENS	WATTAGE
FG-R-T4-1	250lm	8W

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

GROOVE CURVE 'BEAM ADJUSTABLE CYLINDER' SERIES

FG-R-T4-1 Cylinder Track Heads combine function and aesthetics for a potent, versatile, and discreet illumination. Black interiors and twistable front shield on the track allow for a zoomable distribution of 17° – 44° for precise beam control and glare-reduction. A rotational limit of 355° and a tilt range of 85° enable a nearly full range of motion, ideal for task or accent lighting. Available with various CCT options. Suitable for individual installation or assorted combination with other Groove Curve track luminaires for convenient, dynamic illumination.

SERIES	Groove Curve - 'Beam Adjustable Cylinder' Series
SIZE	Cylinder length = 2 3/8", Diameter = 1 1/4"
OPERATING VOLTAGE	48V DC
OUTPUT VOLTAGE	120-277V AC
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2-Step MacAdam Ellipse
OPTICS	17° - 44°
FINISH	☐ WH-BK (White+Black) ● BK-BK (Black)
DIMMING	DIM10 - (0-10V Dimming), DIMTR, DALI 2, BLE
LIFETIME	L70 at 60,000 Hours
LISTING	5-year pro-rated warranty. ETL Listed. Title 24 Compliant. Assembled in America. Class 2, Title 24 JA8 listed
PHOTOMETRIC TESTS	In accordance with IES LM79-08, LM80 and TM-30, TM-21

FEATURES OF GROOVE FAMILY

The Groove Curve 48V Track System offers seamless curved track solutions for modern lighting design.

FLEXIBLE AND CREATIVE: Groove Curve connects curved and straight tracks at various angles and diameters to create complete circular shapes and custom curved layouts.

VERSATILE AND PRECISE: Groove Curve tracks support a wide range of interchangeable luminaires with flexible adapters to allow easy repositioning and replacement.

Available in Trimless Recessed, Ceiling Mount, and Suspended Mount options. Fixtures can be mounted individually or in continuous runs for curved paths of smooth, uninterrupted illumination.

THE ORIGINAL GROOVE 48V DC TRACK SYSTEM

The Groove 48V DC track system combines sleek, minimal profiles with the convenience and versatility of easily interchangeable click-in track heads.

Designed for easy customization, Groove is available with a suite of in-line linear, adjustable linear, spot, pendant, cylinder, and suspended track heads which can be seamlessly clicked-in or removed to meet the needs of any project, current or future. Track head accessories include a variety of field-changeable optics, including TIR and diffuser options, and even spot, flood, snoot, and wall-wash accessories.

As a result, Groove can be used for accent, task, and general illumination in galleries and museums or hospitality, retail, corporate, and residential spaces.

- Single drivers can power runs up to 65' long at 480 watts
- Discreet integrated or remote driver options keep track lines clean
- Connector accessories like T, X, and L corners can be used to tailor designs into custom rectangular, square, or linear patterns, or even build wall to ceiling or wrap configurations
- Multiple lumen packages and distribution options available
- Available in Trimless Recessed, Recessed Flanged, Ceiling/ Surface, and Suspended options
- Suspended and surface mounting options can be used for wood, drywall or T-Bar ceilings

For more details refer to individual track head spec sheets.

CONSTRUCTION

All Groove track heads are engineered for long lifespans and reduced maintenance through the use of coolLED's Advanced Thermodynamic Design, which includes an extruded aluminum body, a hidden die-cast heat sink, and thermal management system.

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.

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.

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.

DIMMING INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277. Dimmable down to 1% of initial lumens, standard. Available in 75W, 100W, 150W, and 240W.
 DIMTR - Electronic low voltage dimming. Available in 120V.
 DALI - DALI DT6 dimming down to 1% Available in 75W, 100W, 150W, and 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.

WARRANTY

5-year warranty for parts and components (labor not included).

EXAMPLE:					
SERIES	ZOOM	CCT	CRI	FINISH	OPTION
FG-R-T4-1	☐ 17° - 44°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ WH-BK (White+Black) ☐ BK-BK (Black)	☐ 48V ☐ 48V-BLE (Bluetooth) *Power supply must be ordered

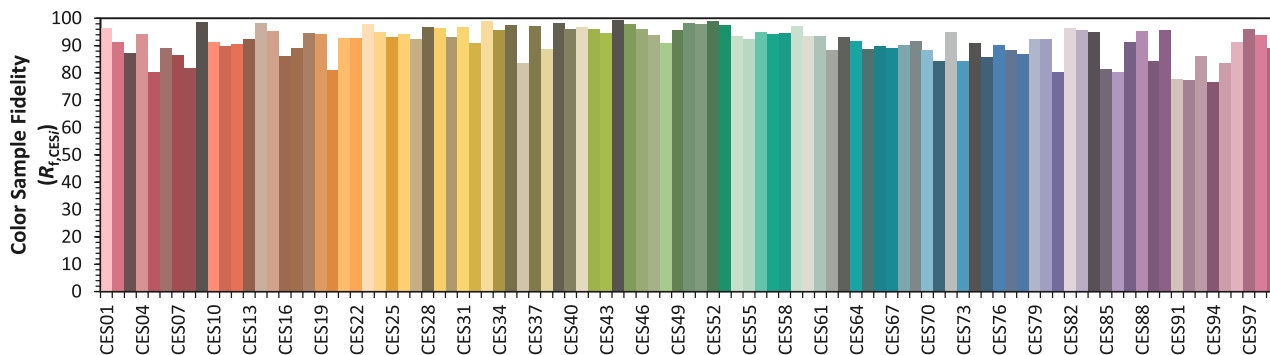
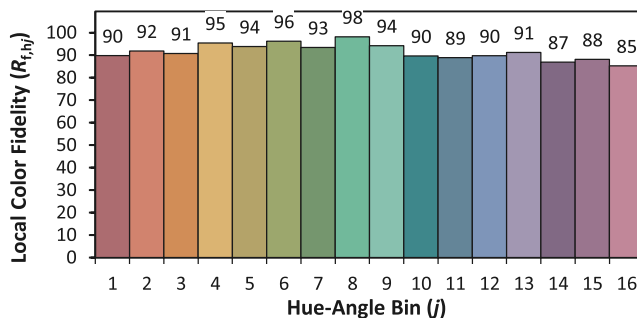
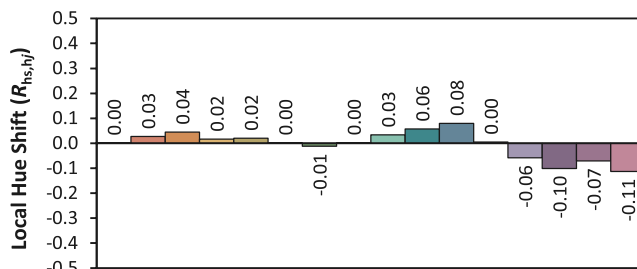
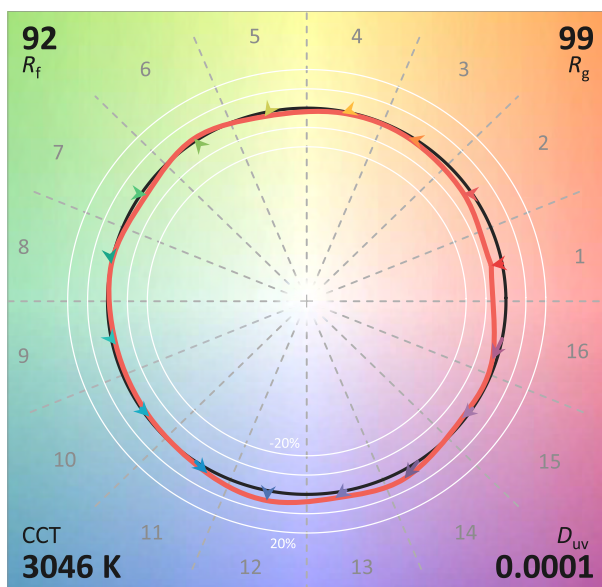
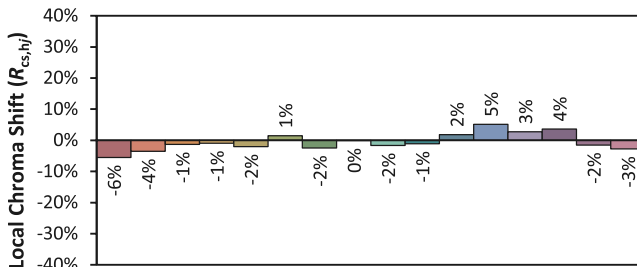
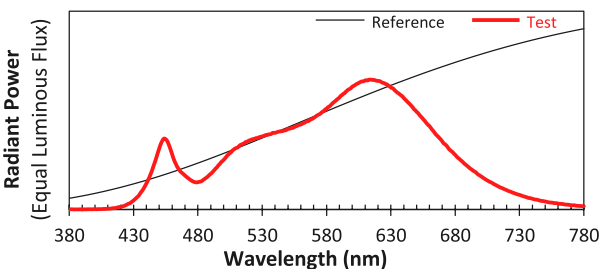
ANSI/IES TM-30-18 Color Rendition Report

Source: LED-PCB

Manufacturer:

Date: 2024/12/3

Model: CRI:90 CCT:3000K



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4339
 y 0.4033
 u' 0.2489
 v' 0.5206

CIE 13.3-1995
(CRI)

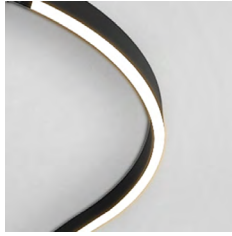
R_a 93
 R_g 52

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

GROOVE CURVE LUMINAIRE OPTIONS



FG-R-L4R-8
Linear Downlight



FG-LS-3
Linear Silicone 3ft



FG-LS-6
Linear Silicone 6ft



FG-LS-9
Linear Silicone 9ft



FG-R-T1-1
Recessed Track Light



FG-R-T2-2
Cylinder



FG-R-T3-1
Cylinder



FG-R-T3-2
Cylinder



FG-R-T4-1
Beam Adjustable Cylinder



FG-R-T4-2
Beam Adjustable Cylinder



FG-R-T5-1
Flat Round



FG-R-T5-2
Flat Round



FG-R-T6-1
Flat Square



FG-R-T7-1
Square Track Light



FG-R-T7-2
Rectangle Track Light



FG-R-T8-1
Track Globe



FG-R-T9-1
Track Globe



FG-R-T10-1
Track Downlight



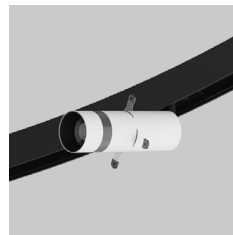
FG-R-T11-1
Globe



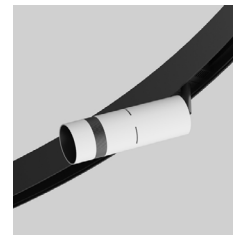
FG-R-WL-1
Wall Light



FG-R-LL-1
Line Light



FG-R-TPJ-1
Form Projector



FG-R-TPJ-2
Gobo Projector



FG-R-P1-1/2
Pendant



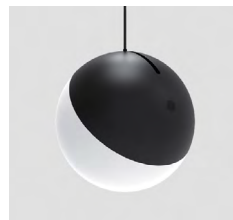
FG-R-P3-1/2
Pendant



FG-R-P4-1
Pendant Globe



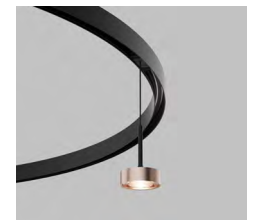
FG-R-P4-2
Pendant Globe



FG-R-P4-3
Pendant Globe



FG-R-P5-1
Globe

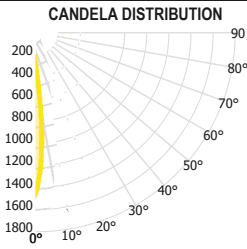


FG-R-P9-1
Pendant Flat Round

FG-R-T4-1-ZOOM-40K-90

TEST NO.: 220062

INPUT WATTS: 8.8 LUMENS: 214 EFFICACY: 24 BEAM ANGLE: 17 SPACING CRITERIA: 0.33



CANDELA TABLE

	0°	90°
0°	1727	1727
10°	795	594
20°	93	56
30°	11	9
40°	43	
50°	00	
60°	00	
70°	00	
80°	00	
90°	00	

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	26292349	26292349
45.00°	58576	47378
55.00°	00	
65.00°	00	
75.00°	00	
85.00°	00	

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	116
10° - 20°	78
20° - 30°	14
30° - 40°	4
40° - 50°	2
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONEU	MENS	% LUMINAIRE
0° - 20°	195	91%
0° - 30°	209	97%
0° - 40°	212	99%
0° - 60°	214	100%
0° - 80°	214	100%
0° - 90°	214	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	48.0 fc	1.9 ft	2.0 ft
8.0 ft	27.0 fc	2.5 ft	2.7 ft
10.0 ft	17.3 fc	3.2 ft	3.4 ft
12.0 ft	12.0 fc	3.8 ft	4.1 ft
14.0 ft	8.8 fc	4.4 ft	4.7 ft
16.0 ft	6.7 fc	5.1 ft	5.4 ft
18.0 ft	5.3 fc	5.7 ft	6.1 ft
20.0 ft	4.3 fc	6.3 ft	6.8 ft

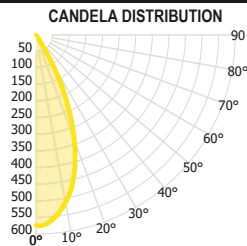
INDOOR COEFFICIENTS OF UTILIZATION

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%	
01	18	1181	18	1181	16	1161	16	1161	10	1101	10	106	106	106	101	101	101	99	
11	15	113	111	1101	13	111	109	108	107	106	105	103	103	102	100	99	99	97	
21	12	109	106	104	110	107	105	103	104	102	101	100	99	99	99	98	97	95	
3	109	105	102	100	107	104	101	99	101	99	97	99	97	96	97	96	94	93	
4	106	102	99	96	105	101	98	95	99	96	94	97	95	93	96	94	92	91	
5	104	99	96	93	103	98	95	93	97	94	92	95	93	91	94	92	91	90	
6	102	97	93	91	101	96	93	90	95	92	90	94	91	89	92	90	89	88	
7	100	94	91	89	99	94	91	88	93	90	88	92	89	88	91	89	87	86	
89	89	28	98	79	79	28	98	79	18	88	69	08	88	69	08	78	68	5	
99	69	18	78	59	59	08	78	58	98	78	58	98	68	48	88	68	48	3	
10	94	89	86	83	94	89	85	83	88	85	83	87	85	83	87	84	83	82	

FG-R-T4-1-ZOOM-40K-90

TEST NO.: 220062

INPUT WATTS: 8.4 LUMENS: 269 EFFICACY: 32 BEAM ANGLE: 44 SPACING CRITERIA: 0.72



CANDELA TABLE

	0°	90°
0°	574	574
10°	514	496
20°	340	286
30°	97	50
40°	43	
50°	00	
60°	00	
70°	00	
80°	00	
90°	00	

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	8739397	8739397
45.00°	41133	26704
55.00°	00	
65.00°	00	
75.00°	00	
85.00°	00	

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	51
10° - 20°	116
20° - 30°	87
30° - 40°	14
40° - 50°	1
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONEU	MENS	% LUMINAIRE
0° - 20°	167	62%
0° - 30°	254	94%
0° - 40°	268	100%
0° - 60°	269	100%
0° - 80°	269	100%
0° - 90°	269	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	15.9 fc	4.6 ft	4.7 ft
8.0 ft	9.0 fc	6.1 ft	6.2 ft
10.0 ft	5.7 fc	7.7 ft	7.8 ft
12.0 ft	4.0 fc	9.2 ft	9.3 ft
14.0 ft	2.9 fc	10.7 ft	10.9 ft
16.0 ft	2.2 fc	12.2 ft	12.5 ft
18.0 ft	1.8 fc	13.8 ft	14.0 ft
20.0 ft	1.4 fc	15.3 ft	15.6 ft

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%	
01	19	1191	19	1191	16	1161	16	116	111	111	111	106	106	106	102	102	102	100	
11	14	1121	10	108	1121	10	108	106	106	104	103	102	101	100	99	98	97	95	
21	10	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	93	91	
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	
4	102	96	91	88	100	95	90	87	92	89	86	91	88	85	89	86	84	83	
59	89	18	68	39	69	08	68	38	98	58	28	78	48	18	68	38	17	9	
69	48	78	27	99	38	68	27	98	58	17	88	48	07	88	27	97	77	6	
79	18	37	97	59	08	37	87	58	27	87	58	07	77	47	97	67	47	3	
88	88	07	57	28	77	97	57	27	87	47	17	77	47	17	77	37	17	0	
98	47	77	26	98	47	67	26	97	57	16	87	57	16	87	47	06	86	7	
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