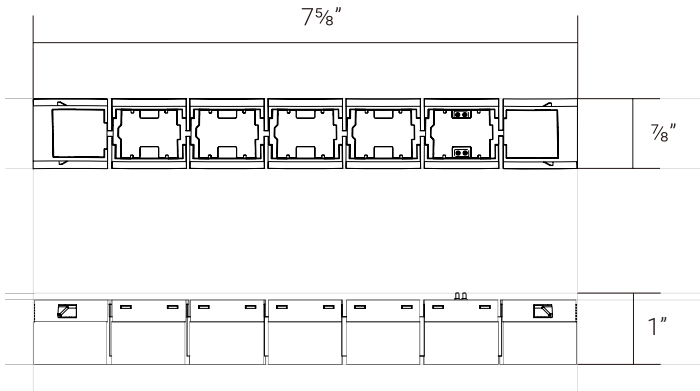
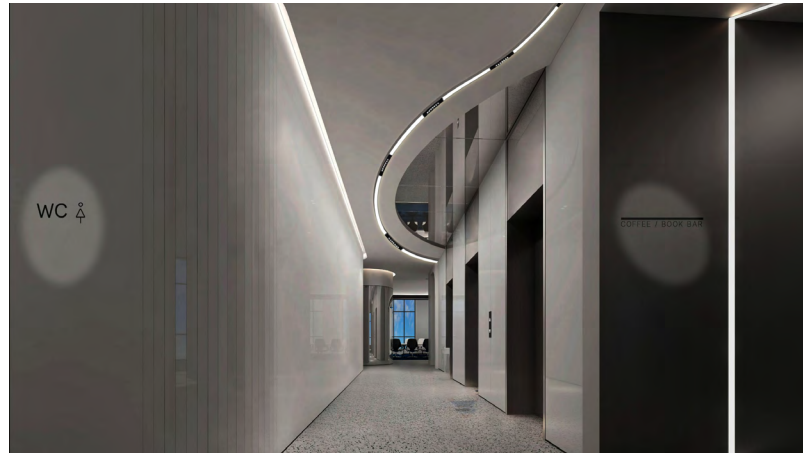




GROOVE CURVE LINEAR DOWNLIGHT

The FG-R-L4R-8 combines the elegance and minimalism of a linear downlight with the precision of optional Spot, Narrow Flood, and Flood TIR optics. Customizable for a wide variety of applications, the FG-R-L4R provides glare-free illumination ideal for both downlight and task lighting applications. May be continuously mounted on one Groove Curve track for consistent, uninterrupted illumination. Suitable for individual installation or assorted combination with other Groove Curve track luminaires for convenient, dynamic illumination.

SERIES	Groove Curve - ' Linear Downlight ' series
SIZE	7 5/8"
OPERATING VOLTAGE	48V DC
OUTPUT VOLTAGE	120-277V AC
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2-Step MacAdam Ellipse
OPTICS	Narrow Flood 29°, Flood 55°, Wide Flood 77°
FINISH	● 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

SERIES	LUMENS	WATTAGE
FG-R-L4R-8	600lm	6W

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

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	OPTICS	CCT	CRI	FINISH	OPTION
FG-R-L4R-8	☐ NFL=29° ☐ FL=55° ☐ WFL=77°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black)	☐ 48V ☐ 48V-BLE (Bluetooth) *Power supply must be ordered

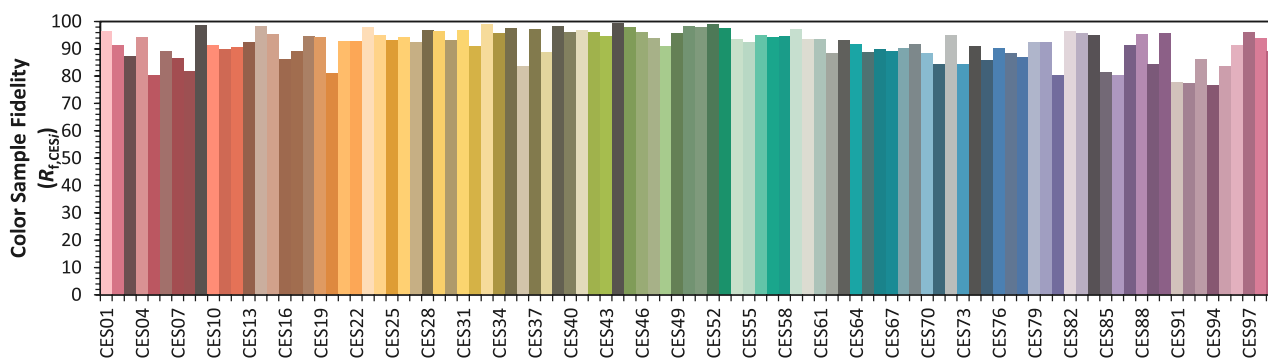
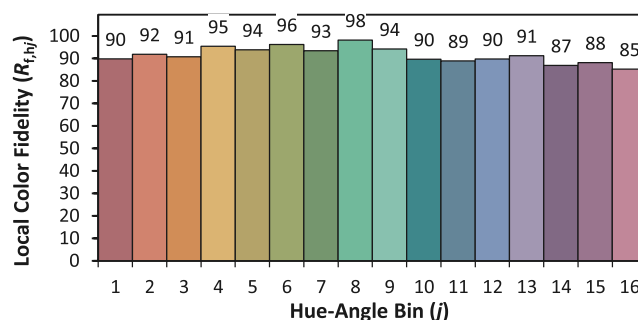
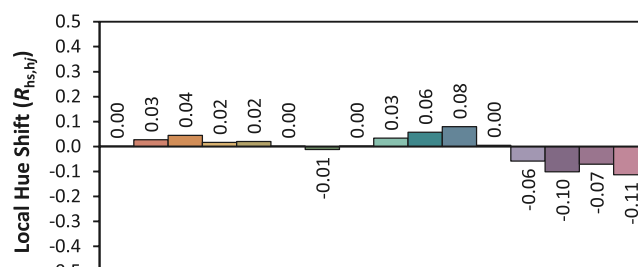
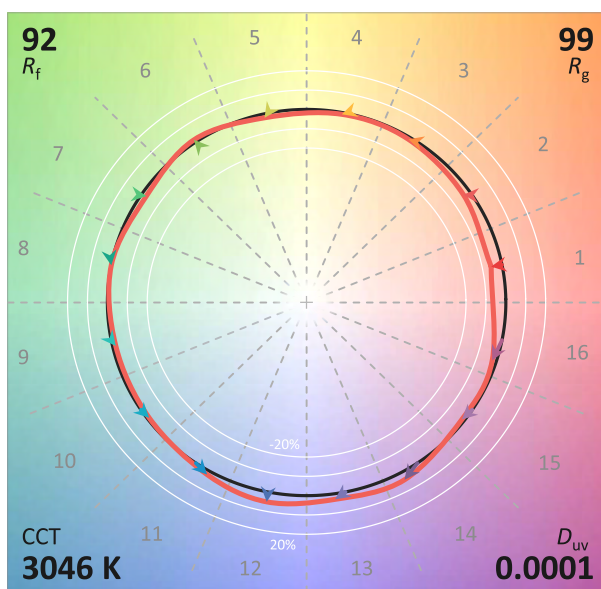
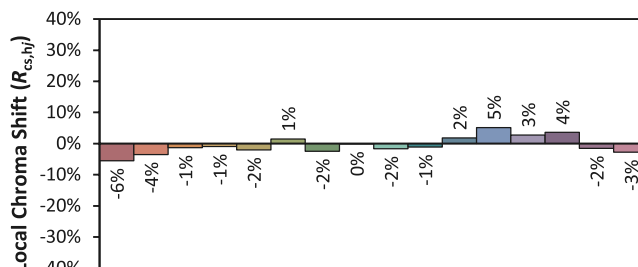
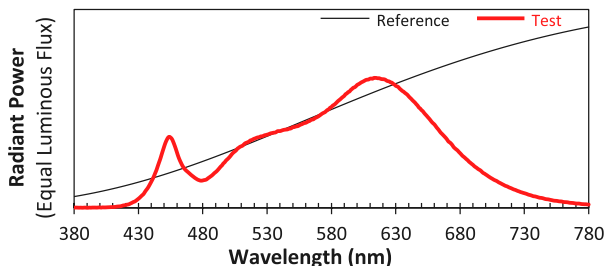
ANSI/IES TM-30-18 Color Rendition Report

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

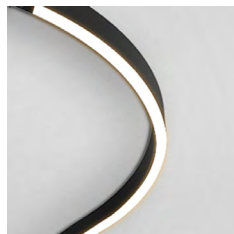
R_g 52

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



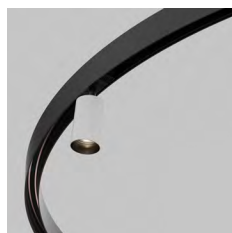
FG-R-T3-1
Cylinder



FG-R-T3-2
Cylinder



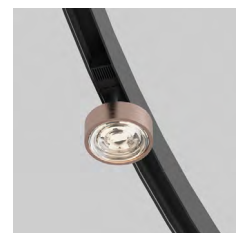
FG-R-T4-1
Beam Adjustable Cylinder



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



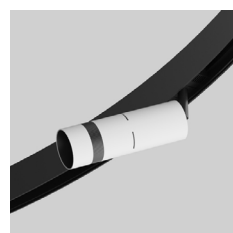
FG-R-WL-1
Wall Light



FG-R-LL-1
Line Light



FG-R-TRJ-1
Form Projector



FG-R-TRJ-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-L4R-8-NFL-40K-90-WH-BK-48V

TEST NO.: **EL06192528**

INPUT WATTS: **6.1**

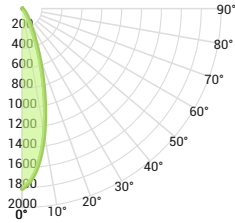
LUMENS: **592**

EFFICACY: **97**

BEAM ANGLE: **28**

SPACING CRITERIA: **0.47**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1810	1810
10°	1277	1369
20°	489	522
30°	137	148
40°	48	54
50°	12	16
60°	2	3
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	297643	297643
45.00°	6395	7457
55.00°	1528	1976
65.00°	289	742
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	149
10° - 20°	235
20° - 30°	120
30° - 40°	53
40° - 50°	25
50° - 60°	8
60° - 70°	2
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	384	65%
0° - 30°	504	85%
0° - 40°	558	94%
0° - 60°	590	100%
0° - 80°	592	100%
0° - 90°	592	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	50.3 lx	3.0 m	3.2 m
8.0 m	28.3 lx	4.1 m	4.2 m
10.0 m	18.1 lx	5.1 m	5.3 m
12.0 m	12.6 lx	6.1 m	6.3 m
14.0 m	9.2 lx	7.1 m	7.4 m
16.0 m	7.1 lx	8.1 m	8.4 m
18.0 m	5.6 lx	9.1 m	9.5 m
20.0 m	4.5 lx	10.2 m	10.5 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	78	78	78	78	77	77	77	77	73	73	73	70	70	70	67	67	67	66			
1	75	74	72	71	74	72	71	70	70	69	68	67	66	66	65	64	64	63			
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FG-R-L4R-8-FL-40K-90-WH-BK-48V

TEST NO.: **EL06192528**

INPUT WATTS: **6.1**

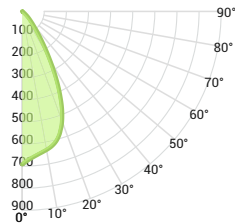
LUMENS: **645**

EFFICACY: **106**

BEAM ANGLE: **53**

SPACING CRITERIA: **0.86**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	691	691
10°	636	719
20°	527	581
30°	247	256
40°	72	79
50°	18	23
60°	2	3
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	113681	113681
45.00°	9312	10587
55.00°	2235	2504
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	68
10° - 20°	197
20° - 30°	212
30° - 40°	110
40° - 50°	43
50° - 60°	14
60° - 70°	1
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	265	41%
0° - 30°	477	74%
0° - 40°	587	91%
0° - 60°	643	100%
0° - 80°	645	100%
0° - 90°	645	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	19.2 lx	5.9 m	6.1 m
8.0 m	10.8 lx	7.9 m	8.1 m
10.0 m	6.9 lx	9.9 m	10.2 m
12.0 m	4.8 lx	11.9 m	12.2 m
14.0 m	3.5 lx	13.9 m	14.3 m
16.0 m	2.7 lx	15.9 m	16.3 m
18.0 m	2.1 lx	17.8 m	18.3 m
20.0 m	1.7 lx	19.8 m	20.4 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	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72	
1	81	79	78	76	80	78	76	75	75	74	73	72	71	70	70	69	68	67	
2	77	74	71	69	76	73	70	68	70	68	66	68	67	65	66	65	64	63	
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8	57	51	46	43	56	50	46	43	49	46	43	49	45	43	48	45	43	42	
9	55	48	44	41	54	47	43	41	47	43	41	46	43	40	45	42	40	39	
10	52	45	41	38	51	45	41	38	44	41	38	44	40	38	43	40	38	37	

FG-R-L4R-8-WFL-40K-90-WH-BK-48V

TEST NO.: **EL06192528**

INPUT WATTS: **6.1**

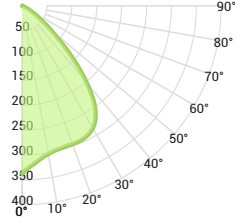
LUMENS: **536**

EFFICACY: **88**

BEAM ANGLE: **74**

SPACING CRITERIA: **1.24 x 1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	337	337
10°	303	357
20°	296	370
30°	284	302
40°	202	145
50°	75	44
60°	17	8
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	55387	55387
45.00°	30907	18888
55.00°	11385	6423
65.00°	2437	532
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	33
10° - 20°	101
20° - 30°	154
30° - 40°	142
40° - 50°	75
50° - 60°	26
60° - 70°	5
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	134	25%
0° - 30°	288	54%
0° - 40°	430	80%
0° - 60°	531	99%
0° - 80°	536	100%
0° - 90°	536	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	9.4 lx	9.2 m	9.3 m
8.0 m	5.3 lx	12.2 m	12.4 m
10.0 m	3.4 lx	15.3 m	15.5 m
12.0 m	2.3 lx	18.3 m	18.5 m
14.0 m	1.7 lx	21.4 m	21.6 m
16.0 m	1.3 lx	24.4 m	24.7 m
18.0 m	1.0 lx	27.5 m	27.8 m
20.0 m	0.8 lx	30.5 m	30.9 m

INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																		0%												
	80%						70%						50%						30%						10%						0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%										
0	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	61	61	61	60										
1	67	65	64	62	66	64	62	61	62	60	59	59	58	57	57	57	57	57	57	56	55										
2	63	60	57	55	62	59	56	54	57	55	53	55	53	52	53	52	51	50	48	46	45										
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10	39	32	28	26	38	32	28	26	31	28	26	31	28	25	30	28	25	25	24	23	22										