

section view into track

SERIES	DELIVERED LUMENS	WATTAGE
FG-T3-1	1200	16W

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

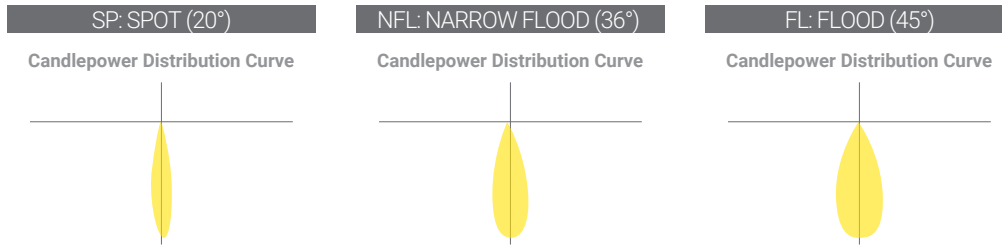
GROOVE 'CYLINDER' SERIES

The FG-T3-1 Cylinder Track Heads are crafted with black interiors and spot 20°, narrow flood 36°, and flood 45° TIR optics, providing precise beam control and reducing glare. The optics are field changeable, with various lumen and distribution options. Additionally, each optic can be overlaid with a single optical accessory, like the Linear Diffuser, Frosted Diffuser, and Honeycomb lens. Create a powerful beam of light with the Snoot accessory, an even wash of light with the Wall Wash accessory, and a gentle, yet focused glow with the Frosted Edge Cover accessory.

Groove 'Cylinder Track' luminaires have a nearly full range of motion with a rotational limit of 355° and a tilt range of 85°. The luminaire serves as an excellent task or accent light and is compatible with a variety of accessories that allow you to tailor the style of light emitted for a customized application.

SERIES	Groove - 'Cylinder' series
SIZE	Length: 3-1/2"; Diameter: 2"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	Spot 20°, Narrow Flood 36°, Flood 45°
FINISH	● WH-BK (White+Black) ● 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





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

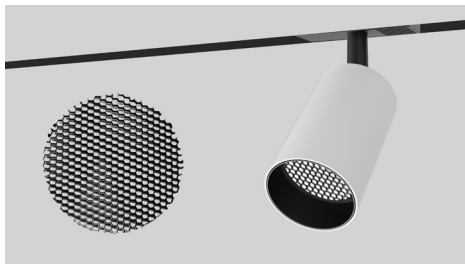
Five-year warranty for parts and components.

EXAMPLE:						
SERIES	OPTICS	CCT	CRI	FINISH	ACCESSORY	OPTION
FG-T3-1	<input type="checkbox"/> SP=20° <input type="checkbox"/> NFL=36° <input type="checkbox"/> FL=45°	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> 90	<input type="checkbox"/> WH-BK (White+Black) <input type="checkbox"/> BK-BK (Black)	<input type="checkbox"/> FG-T-ACC-LI-2 <input type="checkbox"/> FG-T-ACC-HC-2 <input type="checkbox"/> FG-T-ACC-FR-2 <input type="checkbox"/> FG-T-ACC-SN-2 <input type="checkbox"/> FG-T-ACC-WW-2 <input type="checkbox"/> FG-T-ACC-FC-2	<input type="checkbox"/> 48V <input type="checkbox"/> 48V-BLE (Bluetooth) <small>*Power supply must be ordered seperately</small>

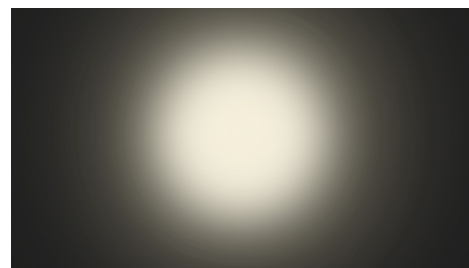
ACCESSORIE HOLDER WITH HONEYCOMB LENS



FG-T-ACC-LI-2 LINEAR DIFFUSER



FG-T-ACC-HC-2 HONEYCOMB



FG-T-ACC-FR-2 FROSTED DIFFUSER



FG-T-ACC-SN-2 SNOOT



FG-T-ACC-WW-2 SNOOT- WALL WASH

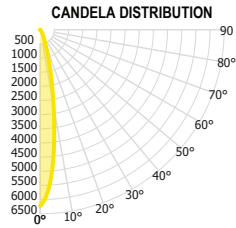


FG-T-ACC-FC-2 FROSTED EDGE

FG-T3-1-SP-40K-90

TEST NO.: **220062**

INPUT WATTS: **16.0** LUMENS: **1116** EFFICACY: **70** BEAM ANGLE: **20** SPACING CRITERIA: **0.31**



	0°	90°
0°	6225	6225
10°	2729	2304
20°	541	468
30°	152	132
40°	44	35
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	94793162	94793162
45.00°	363733	290943
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	439
10° - 20°	438
20° - 30°	157
30° - 40°	63
40° - 50°	19
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	878	79%
0° - 30°	1034	93%
0° - 40°	1098	98%
0° - 60°	1116	100%
0° - 80°	1116	100%
0° - 90°	1116	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	172.9 fc	2.1 ft	2.1 ft
8.0 ft	97.3 fc	2.8 ft	2.8 ft
10.0 ft	62.3 fc	3.5 ft	3.6 ft
12.0 ft	43.2 fc	4.2 ft	4.3 ft
14.0 ft	31.8 fc	4.8 ft	5.0 ft
16.0 ft	24.3 fc	5.5 ft	5.7 ft
18.0 ft	19.2 fc	6.2 ft	6.4 ft
20.0 ft	15.6 fc	6.9 ft	7.1 ft

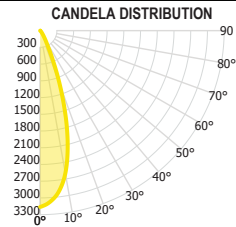
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%		10%	50%	30%	10%
0	118	118	118	118	115	115	115	115	110	110	110	106	106	106	106	106	101	101	101	99	99	
1	114	112	110	109	112	110	108	107	106	105	104	102	102	102	101	99	98	98	98	96	96	
2	111	107	104	102	109	105	103	100	102	100	98	99	98	98	96	97	95	94	93	91	90	
3	107	102	99	96	105	101	98	95	99	96	94	96	94	92	94	93	91	90	88	87	87	
4	104	99	95	92	102	97	94	91	96	93	90	94	91	89	92	90	88	87	85	84	84	
5	101	95	91	88	99	94	90	88	93	89	87	91	88	86	90	87	85	84	82	81	81	
6	98	92	88	85	97	91	87	84	90	86	84	89	86	83	87	85	83	81	80	78	77	
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80	78	76	75	
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77	75	74	74	
9	90	84	80	77	89	83	80	77	83	79	77	82	79	77	81	78	76	75	73	72	72	
10	88	82	78	75	87	81	77	75	81	77	75	80	77	75	79	76	74	74	72	71	71	

FG-T3-1-NFL-40K-90

TEST NO.: **220062**

INPUT WATTS: **15.2** LUMENS: **1185** EFFICACY: **78** BEAM ANGLE: **36** SPACING CRITERIA: **0.55**



	0°	90°
0°	3161	3161
10°	2599	2481
20°	1024	822
30°	168	134
40°	37	31
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

	0.00°	90.00°
0.00°	48133608	48133608
45.00°	388714	300203
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

ZONE	LUMENS
0° - 10°	283
10° - 20°	557
20° - 30°	264
30° - 40°	64
40° - 50°	17
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONE	UMENS	% LUMINAIRE
0° - 20°	840	71%
0° - 30°	1104	93%
0° - 40°	1168	99%
0° - 60°	1185	100%
0° - 80°	1185	100%
0° - 90°	1185	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	87.8 fc	3.8 ft	3.9 ft
8.0 ft	49.4 fc	5.1 ft	5.2 ft
10.0 ft	31.6 fc	6.4 ft	6.5 ft
12.0 ft	22.0 fc	7.7 ft	7.8 ft
14.0 ft	16.1 fc	9.0 ft	9.1 ft
16.0 ft	12.3 fc	10.2 ft	10.4 ft
18.0 ft	9.8 fc	11.5 ft	11.7 ft
20.0 ft	7.9 fc	12.8 ft	13.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%				
		80%				70%				50%				30%					10%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%		10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	99	98	97	95
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	98	96	95	94	93	92
2	110	106	103	100	108	104	102	99	101	99	97	98	97	95	96	94	93	92	90	89	88	88
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88	86	85	84	84
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6	95	89	84	81	94	88	84	80	86	83	80	85	82	79	84	81	79	78	76	75	74	74
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75	73	72	72	72
8	89	82	77	74	88	81	77	74	80	77	74	80	76	73	79	76	73	72	70	69	69	69
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	71	70	68	67	67	67
10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	74	71	68	67	65	64	64	64

FG-T3-1-FL-40K-90

TEST NO.: **220062**

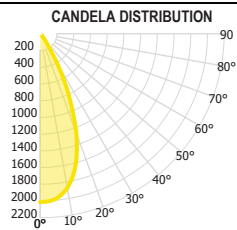
INPUT WATTS: **15.8**

LUMENS: **1207**

EFFICACY: **76**

BEAM ANGLE: **45**

SPACING CRITERIA: **0.74**



CANDELA TABLE

	0°	90°
0°	2012	2012
10°	1873	1773
20°	1261	1112
30°	393	272
40°	52	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°	30636846	30636846
45.00°	454397	367178
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	187
10° - 20°	461
20° - 30°	407
30° - 40°	128
40° - 50°	23
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	649	54%
0° - 30°	1056	87%
0° - 40°	1184	98%
0° - 60°	1207	100%
0° - 80°	1207	100%
0° - 90°	1207	100%

CONE OF LIGHT

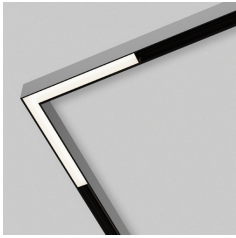
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	55.9 fc	5.2 ft	5.3 ft
8.0 ft	31.4 fc	6.9 ft	7.0 ft
10.0 ft	20.1 fc	8.7 ft	8.8 ft
12.0 ft	14.0 fc	10.4 ft	10.6 ft
14.0 ft	10.3 fc	12.2 ft	12.3 ft
16.0 ft	7.9 fc	13.9 ft	14.1 ft
18.0 ft	6.2 fc	15.6 ft	15.9 ft
20.0 ft	5.0 fc	17.4 ft	17.6 ft



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	118	118	118	118	116	116	116	116	111	111	111	106	106	106	102	102	102	99			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	92	89	92	90	87	90	88	86	85			
4	100	93	89	85	98	92	88	84	90	86	83	88	85	83	87	84	82	80			
5	96	89	84	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76			
6	92	84	79	75	90	83	79	75	82	78	75	81	77	74	79	76	74	72			
7	88	80	75	71	87	79	75	71	78	74	71	77	73	70	76	73	70	69			
8	85	76	71	68	83	76	71	67	75	70	67	74	70	67	73	69	67	65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	64	62			
10	78	70	65	61	77	69	64	61	68	64	61	68	64	61	67	63	61	60			

GROOVE TRACK LUMINAIRE OPTIONS:



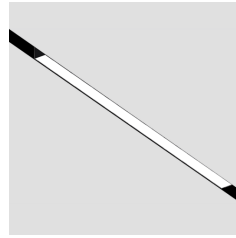
FG-L1R-C90
Seamless Linear Diffused



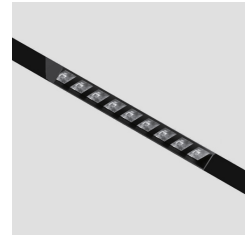
FG-L1R-CI
Seamless Linear Diffused



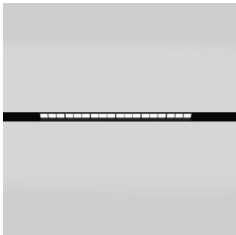
FG-L1R-CO
Seamless Linear Diffused



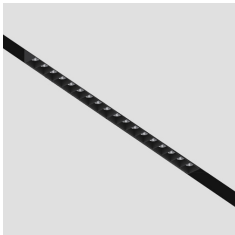
FG-L1R-8 | 16 | 32 | 48 | 64
Seamless Linear Diffused



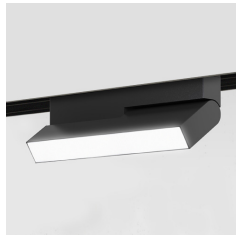
FG-L1-WW-3 | 8
Wall Wash



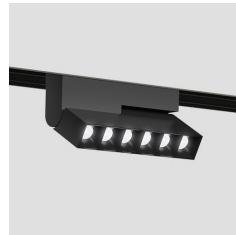
FG-L3R-16 | 32
Linear Louvered



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



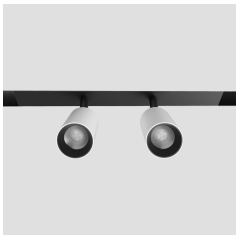
FG-L2A-3 | 5 | 8
Linear Diffused & Adjustable Light



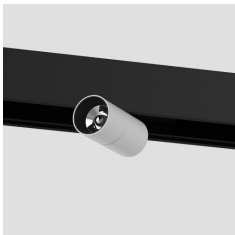
FG-L4A-3 | 5 | 8
Linear Adjustable Downlight, Task & Wall Grazer



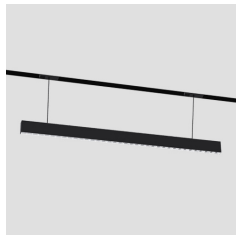
FG-T2-1 | 2 | 3 | FG-T3-1 | 2 | 3
Cylinder



FG-T2-4
Cylinder



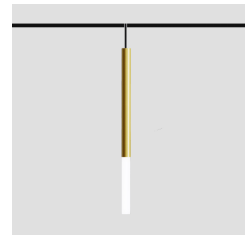
FG-T4-1 | 2 | 3
Beam Adjustable Cylinder



FG-L1P-32
Pendant Louvered



FG-P1-1 | 2
Pendant



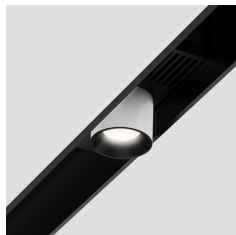
FG-P3-1 | 2
Pendant



FG-P4-1 | 2 | 3
Pendant Globe



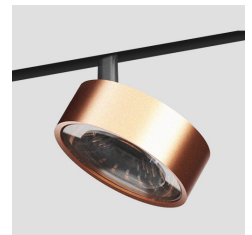
FG-P5-1
Globe



FG-T1-1
Recessed Track Light



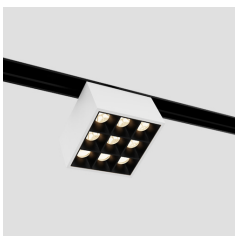
FG-T1-2
Recessed Track Light



FG-T5-1 | 2
Flat Round



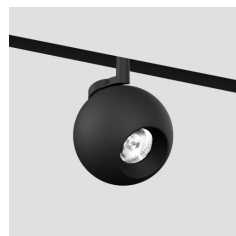
FG-T6-1 | 2
Flat Square



FG-T7-1 | 3
Square Track Light



FG-T7-2
Rectangle Track Light

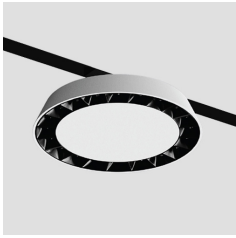


FG-T8-1
Track Globe

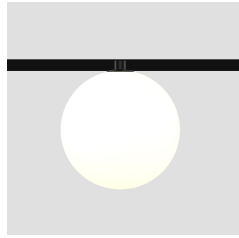


FG-T9-1
Track Globe

GROOVE TRACK LUMINAIRE OPTIONS:



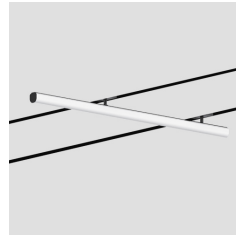
FG-T10-1
Track Downlight



FG-T11-1
Globe



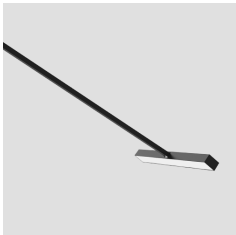
FG-L2S-32 | 48
Surface Light



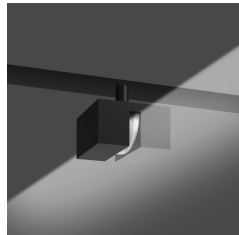
FG-L5S-32 | 48
Surface Light



FG-WL-1
Wall Light



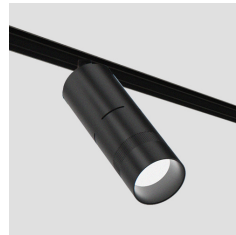
FG-WL-2
Wall Light



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