

Starfield Systems

Description

A starfield ceiling kit consists of a few basic components: fibers and illuminators and in the case of a large ceiling, fiber drivers. Illuminators produce the light, fibers deliver it, and fiber drivers increase the efficiency of the system by delivering bulk light closer to the ceiling and allowing the illuminator to be housed in a more convenient location.

Planning a Starfield Ceiling

Accessibility

In order to install into the ceiling, access must be available from above. This is usually gained from an attic or crawlspace. Alternatively, the fibers can be installed into drywall sheets or other materials while on the ground and then lifted and installed into place.

Placement of Illuminators

Illuminators must be kept clean, dry, ventilated and accessible for maintenance and re-lamping.

Distance between Illuminators and Ceiling

Microfiber bundles are costly and inefficient to run long distances. It is best to keep the illuminators and the ceiling as close as possible. If not possible, it may be useful to include a fiber driver into the system, especially if lengths are greater than 15ft or 5m.

Mounting Fibers

Holes are drilled in the ceiling surface, fibers placed through and secured with glue. Fibers are pulled through the holes with an extra 2-3" length given. The extra is then cut off once the ceiling has been painted.

Density and Dispersion

The fiber density in the ceiling depends on the height and color of the ceiling, ambient light levels, and personal preference. The higher the ceiling, the fewer points per sq/ft are required. A higher density of points should be found in the center of the room and decreasing towards the periphery to create a galaxy effect. 1.5mm fibers can be separated from within the bundle and arranged to form constellations according to star maps.

Starfield Ceiling Kits

	Illuminator	# Pt	Length (m /ft)
BLFO-STAR	Halogen	50	10
		100	15
		200	20
			25

System consists of one 75W Halogen illuminator, one factory assembled fiber bundle at specified length with 0.75mm, 1.0mm and 1.5mm fibers, at specified quantity.

	Illuminator	# Pts	Length (m /ft)
BLFO-STAR	R-Type 150W MH	50	10
		100	15
		20	20
			25

System consists of one 150W Metal Halide Illuminator, one factory assembled fiber bundle at specified length with 0.75mm, 1.0mm and 1.5mm fibers, at specified quantity.

	Illuminator	# Pts	Length (m /ft)
BLFO-STAR	R-Type 150W MH + 2 Fiber Drivers	50	10
		100	15
		200	20
			25

System consists of one 150W MH illuminator, two fiber drivers with 12ft 1/2" fiber leads, two factory assembled fiber bundles at specified length with 0.75mm, 1.0mm and 1.5mm fibers, at specified number.



	Illuminator	# Pts	Length (m /ft)
BLFO-STAR	R-Type		
	150W MH		
	+ 4 Fiber Drivers		
		50	10
		100	15
	200	20	
			25

Micro Fiber & Bundles

Bundles are made up of 0.75mm, 1mm, and 1.5mm fibers in 70%, 20%, 10% ratios respectively. When installed into a ceiling they deliver light of different intensities that simulate the natural variations in the night sky.

Bundles are factory assembled and attached into a coupling device to attach to an illuminator or fiber driver. See the micro fiber section for technical information.

System consists of one 150W MH illuminator, four fiber drivers with 12ft 1/2" fiber leads, four factory assembled fiber bundles at specified length with 0.75mm, 1.0mm and 1.5mm fibers, at specified number.

	Fiber Count	Illuminator	Coverage (sqft)*	Bundle Diameter
BLFO-Star50	50	Halogen	12-25	¼"
BLFO-Star100	100	Halogen	25-50	3/8"
BLFO-Star200	200	Halogen	50-100	½"
BLFO-Star600	600	R-TYPE	150-300	1"
BLFO-Star1000	1000	Fiber Driver	250-500	1 ¼"

Illuminators

The light source for the fiber bundles. They consist of a lamp, reflector, decorative wheel and a micro fiber coupler. Illuminators must all be kept clean, dry, ventilated and accessible. Lamps will need to be replaced and periodic maintenance is necessary.

- * Estimated coverage is based on density
- * Specify fiber length

Fiber Drivers

Solid core fiber carries the light from an illuminator to the fiber driver where the micro fibers are coupled. The solid core fiber carries the bulk of the distance to the fiber driver which is to be positioned near the ceiling, keeping materials and costs down. Fiber drivers allow the illuminator to be placed in a more convenient location and still have the shortest lengths of micro fiber.

Effect Wheels

Wheel options are available for all illuminators and fiber drivers. Twinkle wheels create a shimmering effect, color wheels change the color of entire panels, and color twinkle wheels randomly change the color of random fibers.

