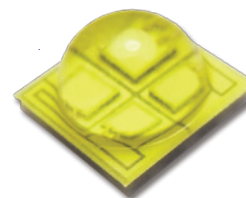


Federal 5050 Series Secondary Optical Lens Series Datasheet

Features :

- High Efficiency
- Available in various beams
- Total internal reflection technology
- Suitable for "Lambertian" type design
- New single piece, housing or housing-less design for easier assembly, improved performance/cost ratio



Typical Applications :

- Reading Lamps
- Architectural Lighting
- Streets Lighting
- Decoration Lights
- Downlights

General Characteristics :

- Lens Material: Optical Grade PMMA and PC
- Housing Material: PC
- Operating Temperature Range: -40°C / $+70^{\circ}\text{C}$
- Storage Temperature Range: -40°C / $+70^{\circ}\text{C}$

Usage and Maintenance :

1. Clean Lenses with mild soap and water and a soft cloth.
2. Do not use any commercial cleaning solvents on lenses, like alcohol.
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or optical characteristic.

Secondary Lens Series List



ED01FD-AK25L Specification3



ED01FD-AJ25L Specification4



ED01FD-AJ35L Specification5



ED01FD-DG30L Specification6



ED01FD-DG25-M2 Specification7



ED01FD-DG30-M2 Specification8



ED01FD-DG40-M2 Specification9

ED01FD-AK25L Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Narrow angle

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

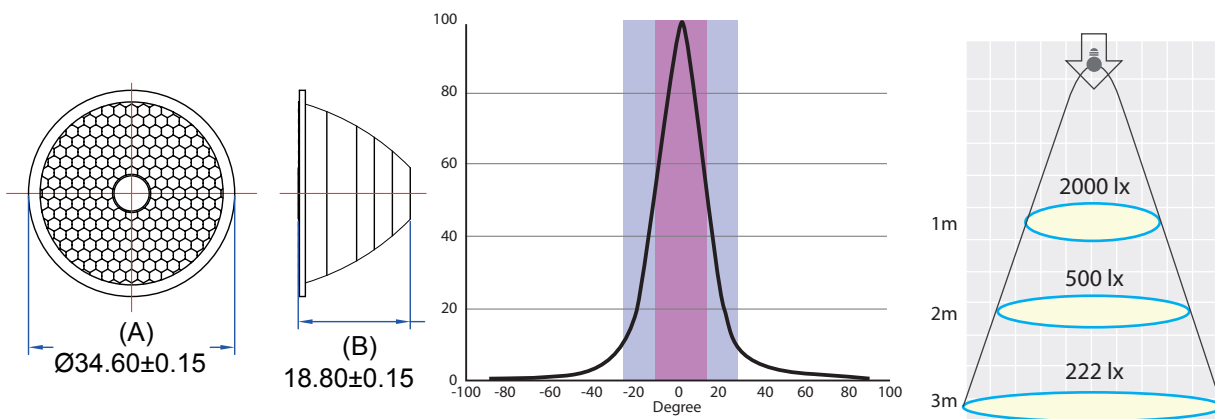


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	2000	23°	48°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-AJ25L Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Narrow angle

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

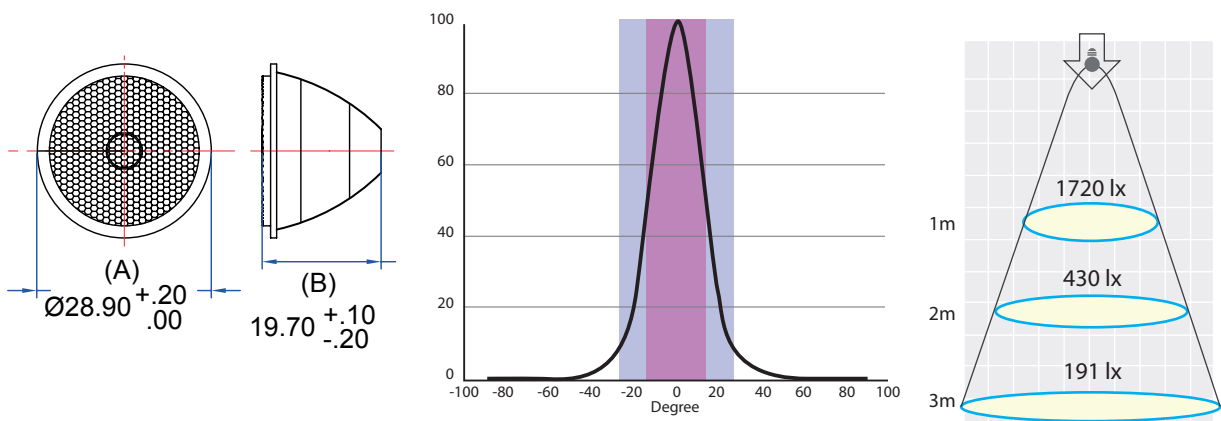


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	1720	26.5°	53°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-AJ35L Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Flood angle

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

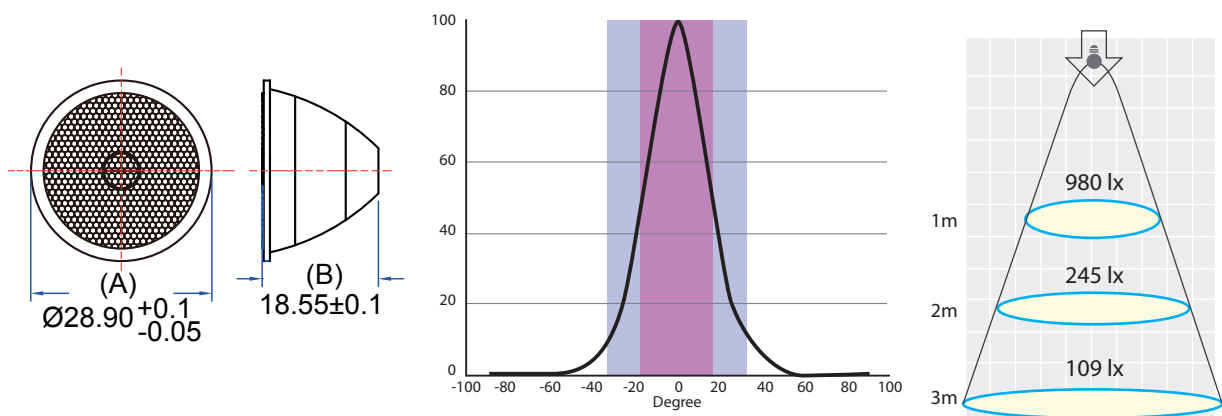


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	980	33.5°	65°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-DG30L Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Flood angle

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

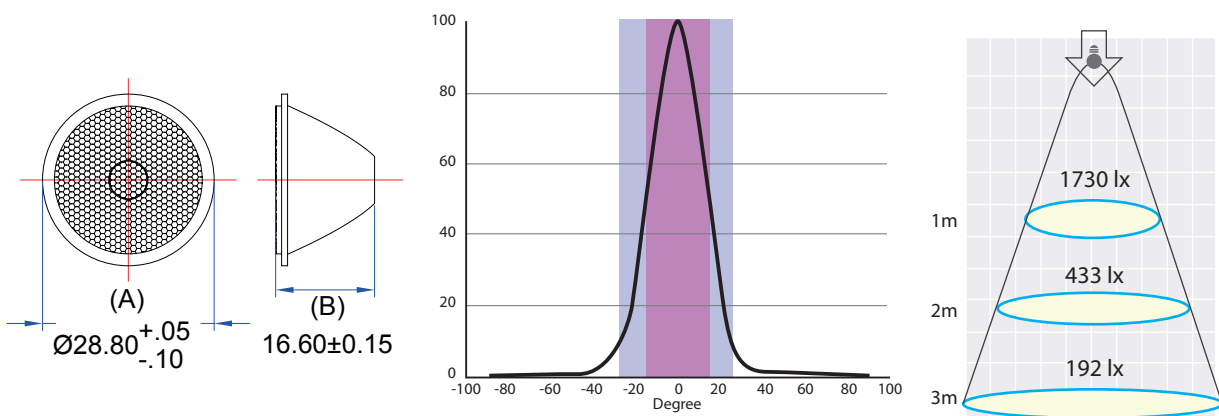


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	1730	30°	53.5°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-DG25-M2 Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Narrow angle
- Lens with housing

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

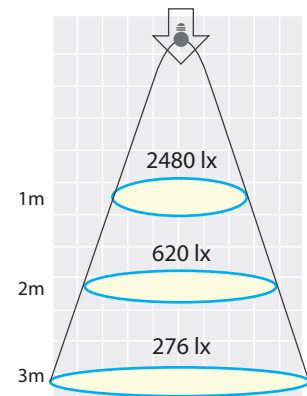
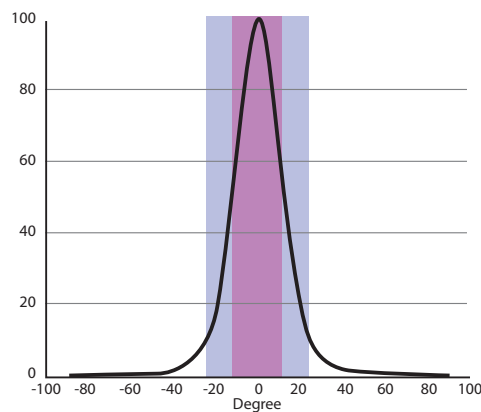
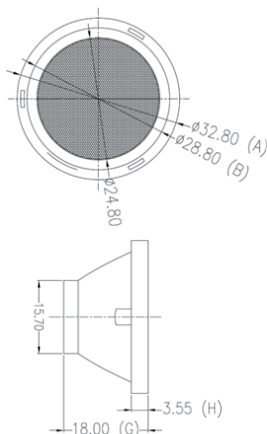


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	2480	23°	48°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-DG30-M2 Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Flood angle
- Lens with housing

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter

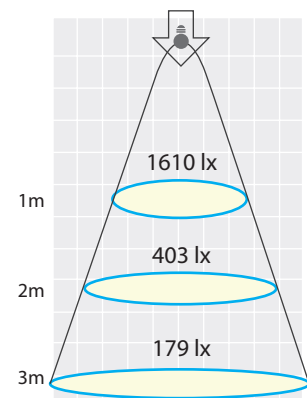
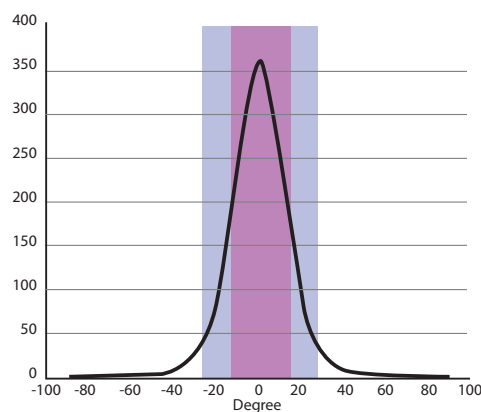
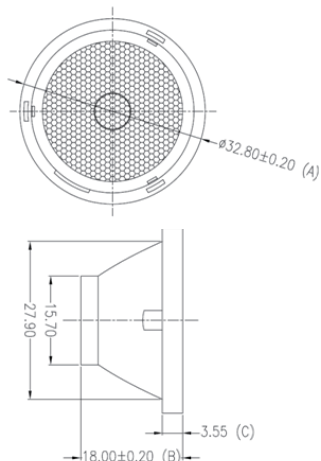


Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	1610	28°	55°

Note: Emitter flux is 440lm @1.4 A(4S1P)



ED01FD-DG40-M2 Specification

For Federal 5050 Single Emitter

Specification

Features :

- Lens material optical grade PMMA
- Flood angle
- Lens with housing

General Application :

- Spot light
- Down light
- Streets Lighting
- Only use for cool white / neutral white / warm white emitter



Application Note

- Operating temperature $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (Upper limit $+80^{\circ}\text{C}$)
- Federal 5050 Star 2.0mm
- Never use any commercial solvents on lenses

Item	Typical Lux from 1M	Beam angle	Field angle
EFEW-1CE7	875	39.5°	71°

Note: Emitter flux is 440lm @1.4 A(4S1P)

