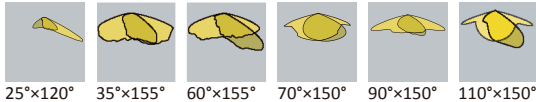




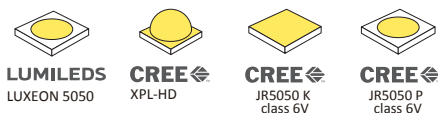
Datasheet

CFN Series

Available Distribution



LED



Recommend Applications



Street

General Information

PMMA 70°C -40°C	PC 110°C -40°C	PMMA 8N HB RTI 1.5mm 90°C	PC LEV1700KL V-2 RTI 1.5mm 130°C	400nm~900nm > 90%	☀️	🚫	🚫
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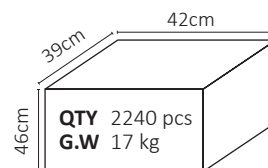
- Lens Material L06: PMMA 8N / L02: PC LEV1700KL
- Operating Temperature PMMA: -40°C~+70°C / PC: -40°C~+110°C
- UL Flammability PMMA: HB / PC LEV1700KL: V-2@1.5mm
- UL RTI Elec PMMA: 90°C / PC LEV1700KL: 130°C@1.5mm
- Light Transmission Rate 400nm~900nm > 90%
- ✓ If necessary, Clean lenses with mild soap, water and soft cloth.
- ⚠️ Never use any commercial cleaning solvents on lenses, like alcohol.
- ⚠️ Please handle or install with wearing gloves, skin oils may damage lens or its optical characteristic.

Dimensions

Part Number	Height	LxW
LL04LU-CFN25120L02	7.78	50x50
LL04CR-CFN35155L02	6.47	
LL04CR-CFN60155L02	7.3	
LL04LU-CFN70150L06	5.82	
LL04LU-CFN90150L06	5.72	
LL04LU-CFN110150L06	5.76	

*All dimensions are in millimeters.

Packaging Details (SPQ)

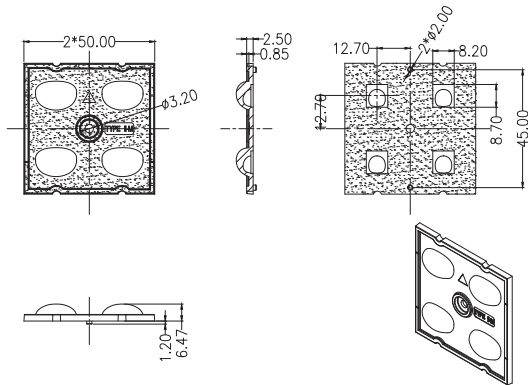


Mechanical Specification

*All dimensions are in millimeters.

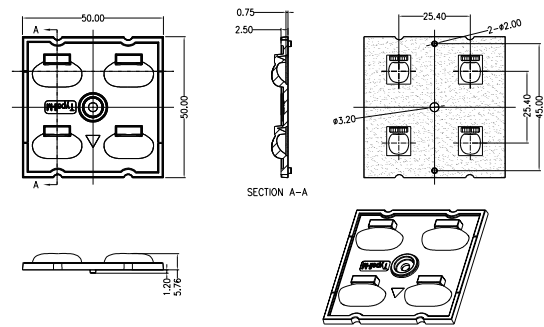
Lens Dimension

LL04CR-CFNxxL02



Lens Dimension

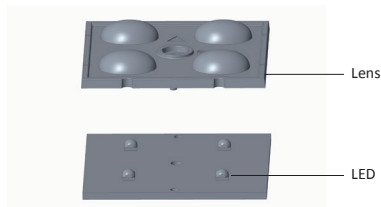
LL04LU-CFNxxL06



Assembly Instruction

Part No LL04CR-CFNxxL02

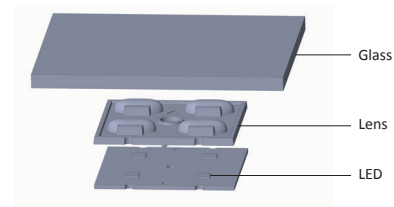
Fixing Method



Assembly Instruction

Part No LL04LU-CFNxxL06

Fixing Method



The height of the glass is 5mm.
Place the bottom of the glass above the top of the PCB with distance 16mm.

DIALux Simulation Result

LL04CR-CFN35155L02

LED



CREE

XPL-HD

Recommend Configuration Condition

Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

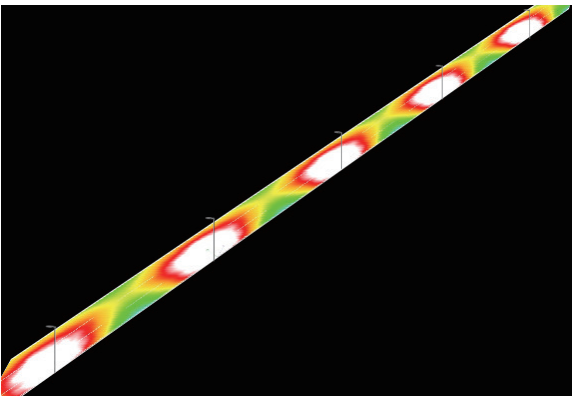
Result

U0	0.6
UI	0.7
TI	12
SR	0.6
Specification	Brightness

The Standard

Type II-S

* The results would be similar if the configuration conditions are equally magnified or minified.



LED

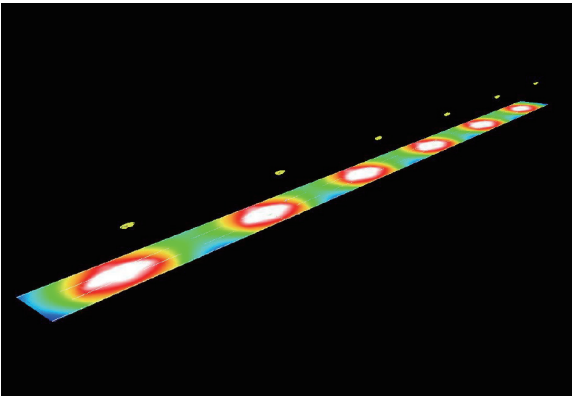


Recommend Configuration Condition	
Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

U0	0.60
UI	0.75
TI	9
SR	0.58
Specification	Brightness

The Standard	
Type III S SEMI CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.



LED

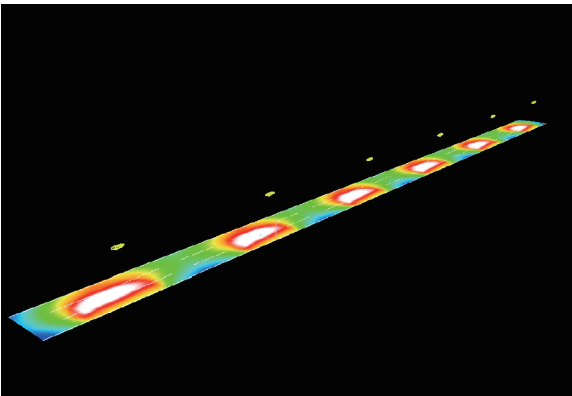


Recommend Configuration Condition	
Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

U0	0.62
UI	0.58
TI	8
SR	0.61
Specification	Brightness

The Standard	
Type III S CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.

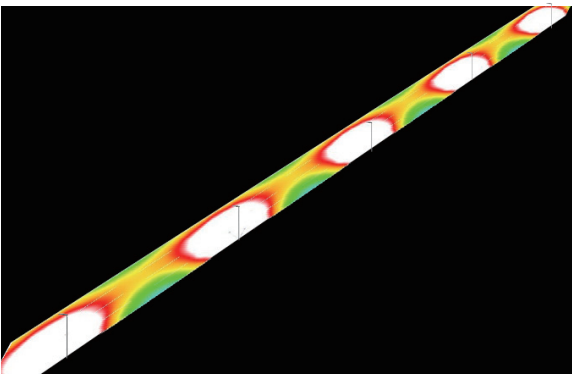


DIALux Simulation Result

LL04CR-CFN60155L02

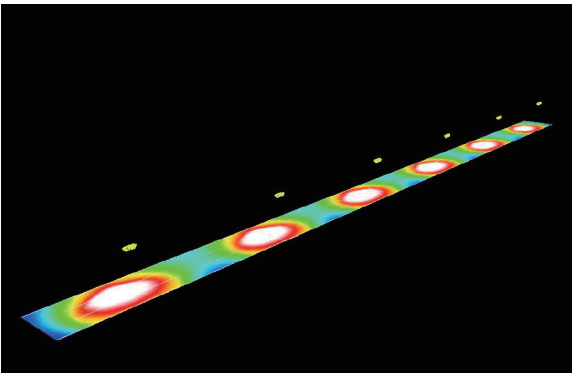
LED	Recommend Configuration Condition	
	Height	10 M
	Distance	40 M
	Roadwidth	14M / 4 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.4
	UI	0.7
	TI	14
	SR	0.6
	Specification	Brightness
	The Standard	
	Type III-M	

* The results would be similar if the configuration conditions are equally magnified or minified.



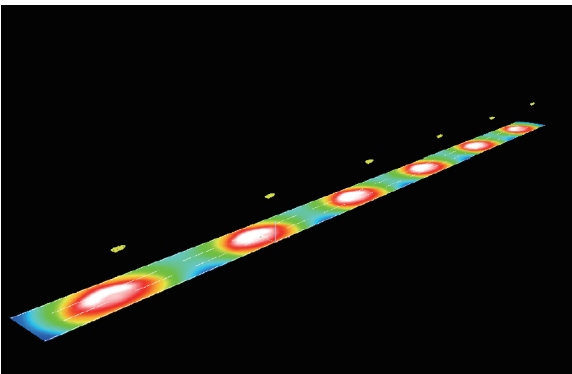
LED	Recommend Configuration Condition	
	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.54
	UI	0.73
	TI	8
	SR	0.55
	Specification	Brightness
	The Standard	
	Type III S CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.



LED	Recommend Configuration Condition	
	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.57
	UI	0.71
	TI	6
	SR	0.62
	Specification	Brightness
	The Standard	
	Type III S CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.

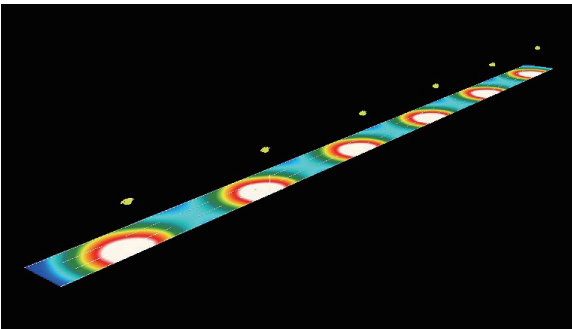


DIALux Simulation Result

LL04LU-CFN70150L06

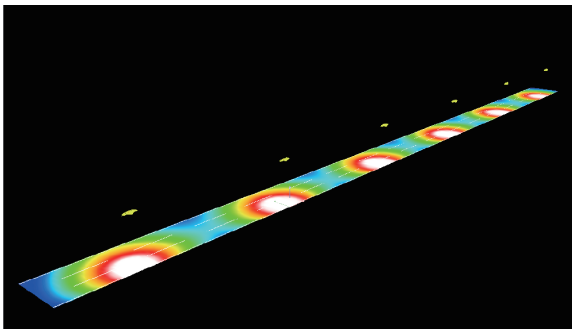
LED	Recommend Configuration Condition	
 LUMILEDS LUXEON 5050	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.42
	UI	0.68
	TI	12
	SR	0.7
	Specification	Brightness
	The Standard	
	Type III-M CUTOFF (With Glass)	

* The results would be similar if the configuration conditions are equally magnified or minified.



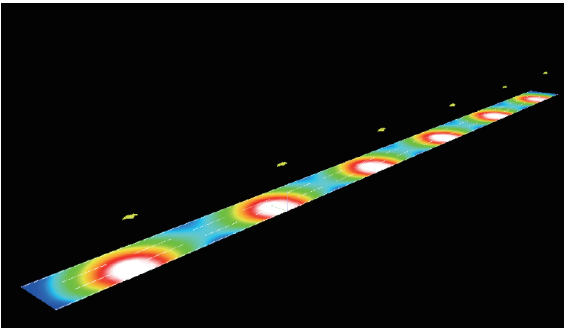
LED	Recommend Configuration Condition	
 CREE JR5050 K class 6V	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.41
	UI	0.78
	TI	15
	SR	0.66
	Specification	Brightness
	The Standard	
	Type III M SEMI CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.



LED	Recommend Configuration Condition	
 CREE JR5050 P class 6V	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.42
	UI	0.77
	TI	15
	SR	0.67
	Specification	Brightness
	The Standard	
	Type III M NON CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.

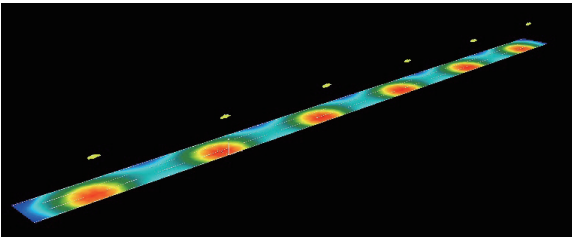


DIALux Simulation Result

LL04LU-CFN90150L06

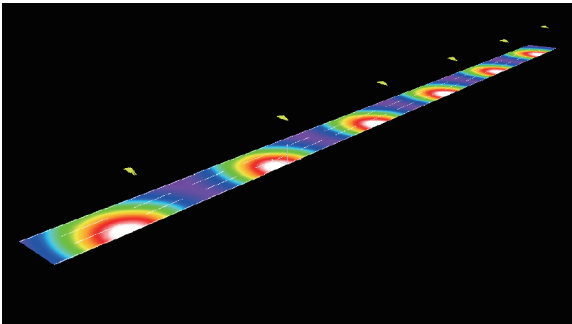
LED	Recommend Configuration Condition	
 LUMILEDS LUXEON 5050	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.42
	UI	0.71
	TI	12
	SR	0.6
	Specification	Brightness
	The Standard	
	Type II-M CUTOFF (With Glass)	

* The results would be similar if the configuration conditions are equally magnified or minified.



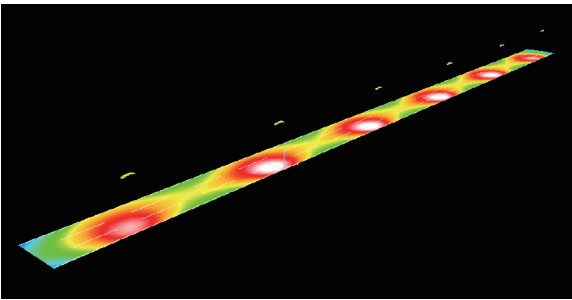
LED	Recommend Configuration Condition	
 CREE JR5050 K class 6V	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.23
	UI	0.20
	TI	3
	SR	0.26
	Specification	Brightness
	The Standard	
	Type I-M SEMICUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.



LED	Recommend Configuration Condition	
 CREE JR5050 P class 6V	Height	10 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1
	Result	
	U0	0.46
	UI	0.59
	TI	16
	SR	0.71
	Specification	Brightness
	The Standard	
	Type II M SEMI CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.

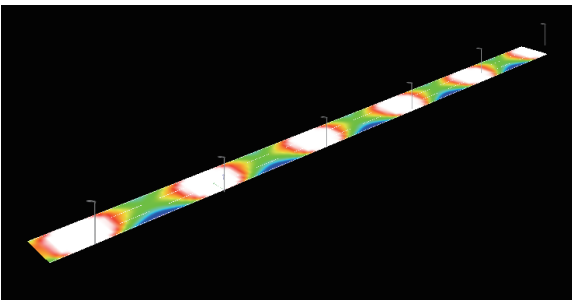


DIALux Simulation Result

LL04LU-CFN110150L06

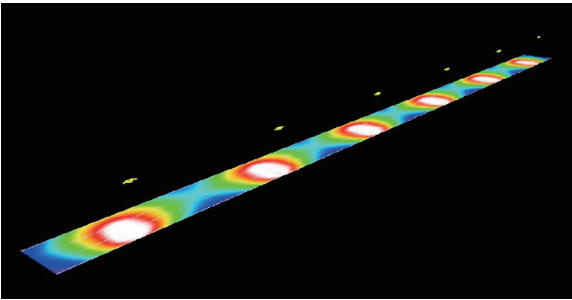
LED	Recommend Configuration Condition	
 LUMILEDS LUXEON 5050	Height	9 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	5°
	Overhang	1.9
	Result	
	U0	0.34
	UI	0.65
	TI	12
	SR	0.47
	Specification	Brightness
	The Standard	
	Type II-M CUTOFF (With Glass)	

* The results would be similar if the configuration conditions are equally magnified or minified.



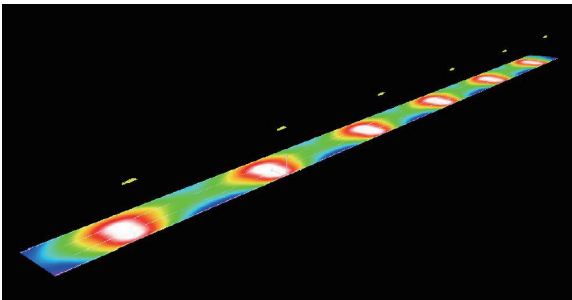
LED	Recommend Configuration Condition	
 CREE JR5050 K class 6V	Height	9 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1.9
	Result	
	U0	0.46
	UI	0.68
	TI	14
	SR	0.74
	Specification	Brightness
	The Standard	
	Type II M SEMI CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.

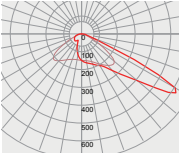
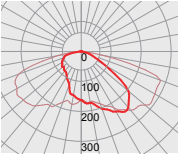
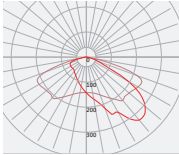
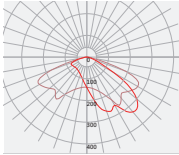
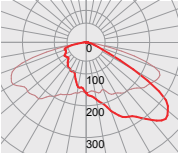
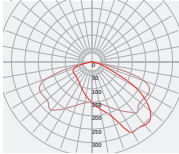
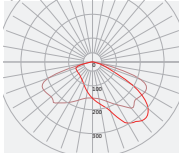
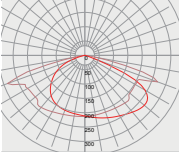
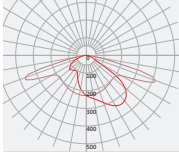
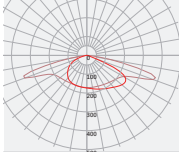
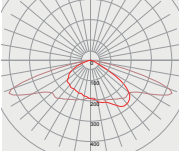
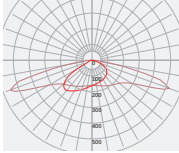
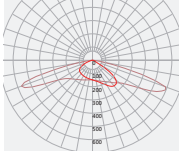
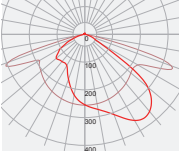
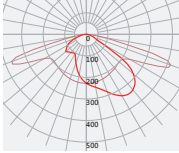
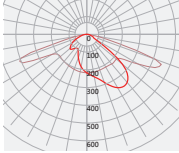


LED	Recommend Configuration Condition	
 CREE JR5050 P class 6V	Height	9 M
	Distance	35 M
	Roadwidth	10.5M / 3 Lines of the Road
	Elevation	0°
	Overhang	1.9
	Result	
	U0	0.51
	UI	0.65
	TI	13
	SR	0.78
	Specification	Brightness
	The Standard	
	Type II M SEMI CUTOFF	

* The results would be similar if the configuration conditions are equally magnified or minified.



Photometric Distribution

LED				
	 CREE XPL-HD	 LUMILEDS LUXEON 5050	 CREE JR5050 K class 6V	 CREE JR5050 P class 6V
25°×120°	—		—	—
35°×155°		—		
60°×155°		—		
70°×150°	—			
90°×150°	—			
110°×150°	—			

Details by LED

Part No	Accessories	LED Package Size	LED
LL04CR-CFNxxL02	-	3535 / 5050	 CREE XPL-HD  CREE JR5050 K class 6V  CREE JR5050 P class 6V
LL04LU-CFNxxL06	-	5050	 LUMILEDS LUXEON 5050  CREE JR5050 K class 6V  CREE JR5050 P class 6V

LED	Part No	Type	FWHM	cd / lm	IES
 CREE XPL-HD	LL04CR-CFN35155L02	II-Medium	75°×152°	0.6	↓
	LL04CR-CFN60155L02	III-Medium	52°×151°	0.5	↓
	LL04LU-CFN70150L06	-	-	-	-
	LL04LU-CFN90150L06	-	-	-	-
	LL04LU-CFN110150L06	-	-	-	-
 LUMILEDS LUXEON 5050	LL04LU-CFN25120L02	III-Short	20°×118°	0.6	↓
	LL04CR-CFN35155L02	-	-	-	-
	LL04CR-CFN60155L02	-	-	-	-
	LL04LU-CFN70150L06	III-Medium	121°×151°	0.3	↓
	LL04LU-CFN90150L06	III-Medium	109°×150°	0.4	↓
 CREE JR5050 K class 6V	LL04LU-CFN110150L06	II-Medium	72°×147°	0.4	↓
	LL04CR-CFN35155L02	III-Short	53°×148°	0.3	↓
	LL04CR-CFN60155L02	III-Short	60°×147°	0.3	↓
	LL04LU-CFN70150L06	II-Medium	70°×150°	0.5	↓
	LL04LU-CFN90150L06	I-Medium	106°×154°	0.5	↓
 CREE JR5050 P class 6V	LL04LU-CFN110150L06	II-Medium	70°×150°	0.5	↓
	LL04CR-CFN35155L02	III-Short	54°×143°	0.4	↓
	LL04CR-CFN60155L02	III-Short	57°×147°	0.3	↓
	LL04LU-CFN70150L06	III-Medium	120°×155°	0.5	↓
	LL04LU-CFN90150L06	II-Medium	107°×151°	0.6	↓
	LL04LU-CFN110150L06	II-Medium	64°×146°	0.6	↓

Product Nomenclature

Ledlink Led Type Lens Angle
LL 04 LU -CFN 70150 L06
Lens Dot Number Serial Number Type of Material

Ledlink Optics, Inc

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