LedLink
Linking LEDs to The Real World

Datasheet

LL04LU-CFN××L06

Available Distribution

35°×155° 60°×155° 70°×150° 90°×150° 110°×150°

Dimensions

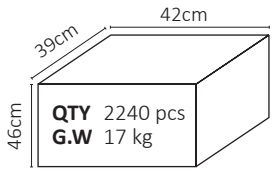
Part Number	Height	L×W
LL04CR-CFN35155L02	6.47	
LL04CR-CFN60155L02	7.3	
LL04LU-CFN70150L06	5.82	50×50
LL04LU-CFN90150L06	5.72	
LL04LU-CFN110150L06	5.76	

*All dimensions are in millimeters.

LED

LUMILEDS LUXEON 5050
CREE XPL-HD
CREE JR5050 K class 6V
CREE JR5050 P class 6V

Packaging Details (SPQ)



Recommand Applications

Street

General Information

- 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%

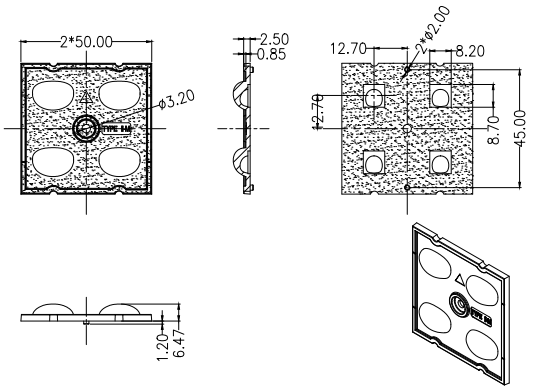
If necessary, Clean lenses with mild soap, water and soft cloth.
Never use any commercial cleaning solvents on lenses, like alcohol.
Please handle or install lenses with wearing gloves, skin oils may damage lens or its optical characteristic.

Mechanical Specification

*All dimensions are in millimeters.

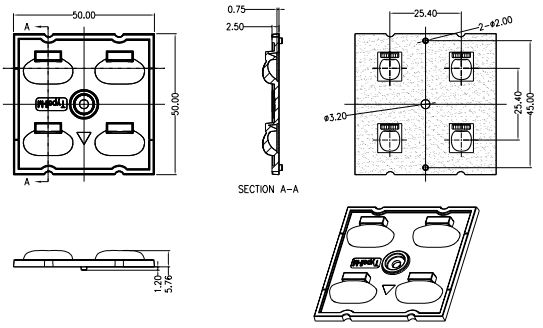
Lens Dimension

LL04CR-CFN××L02



Lens Dimension

LL04LU-CFN××L06

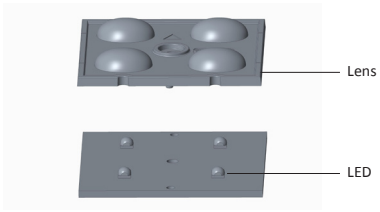


Assembly Instruction

Fixing Method

Part No LL04CR-CFN××L02

Screw Luminarie Accessories

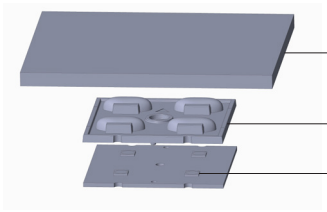


Assembly Instruction

Fixing Method

Part No LL04LU-CFN××L06

Screw Luminarie Accessories



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

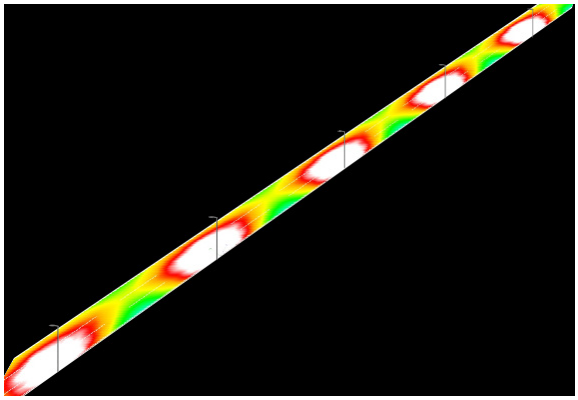
Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

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

CREE JR5050 K class 6V

Recommend Configuration Condition

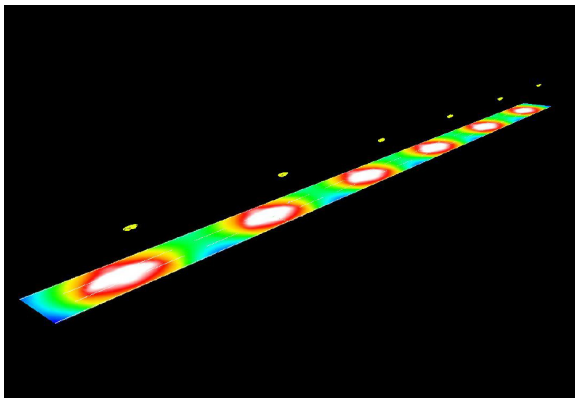
Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

Result

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

CREE JR5050 P class 6V

Recommend Configuration Condition

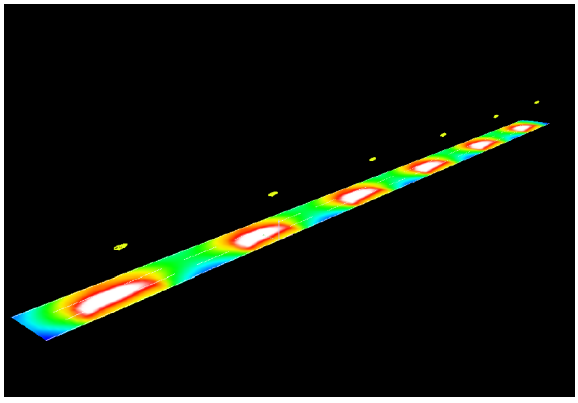
Height	10 M
Distance	35 M
Roadwidth	10.5M / 3 Lines of the Road
Elevation	0°
Overhang	1

Result

U0	0.62
UI	0.58
TI	8
SR	0.61
Specification	Brightness

The Standard

Type III S CUTOFF

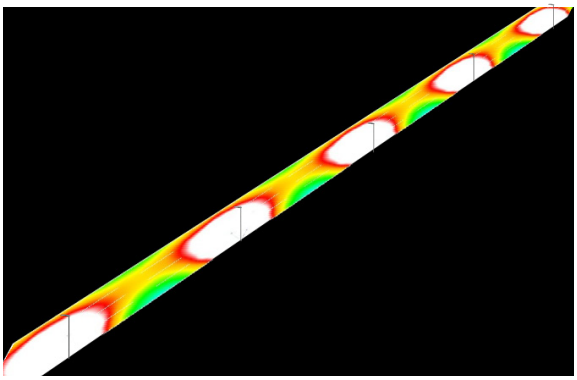


* The results would be similar if the configuration conditions are equally magnified or minified.

DIALux Simulation Result

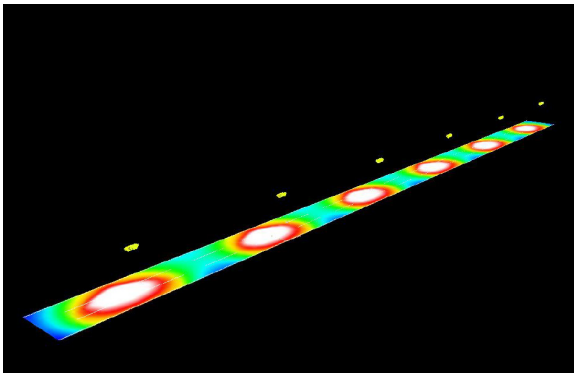
LL04CR-CFN60155L02

LED	Recommend Configuration Condition	
CREE XPL-HD	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	



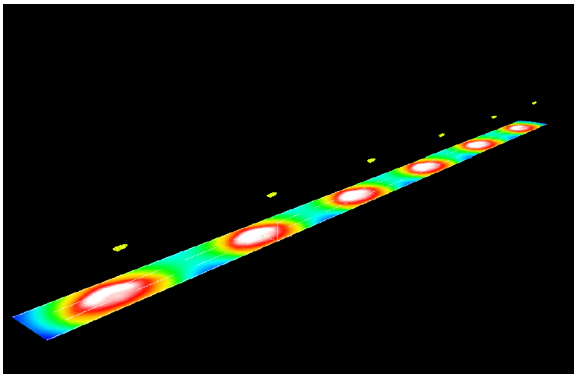
* The results would be similar if the configuration conditions are equally magnified or minified.

LED	Recommend Configuration Condition	
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	0.54
	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	
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	0.57
	UI	0.71
	TI	6
	SR	0.62
	Specification	Brightness
The Standard		
	Type III S CUTOFF	

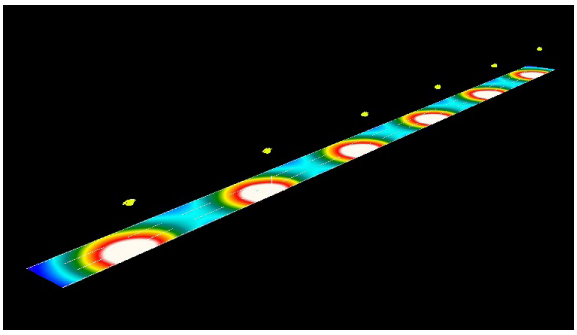


* The results would be similar if the configuration conditions are equally magnified or minified.

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

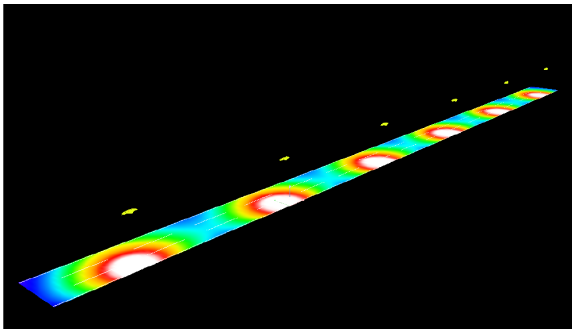


Result	
U0	0.42
UI	0.68
TI	12
SR	0.7
Specification	Brightness

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

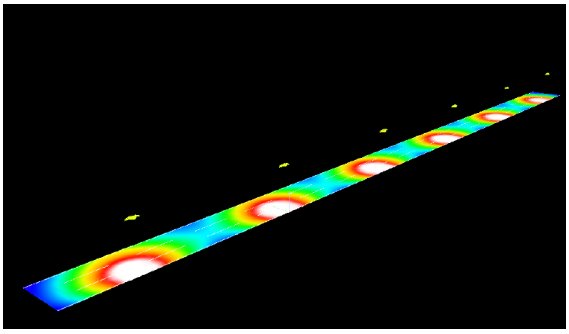


Result	
U0	0.41
UI	0.78
TI	15
SR	0.66
Specification	Brightness

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

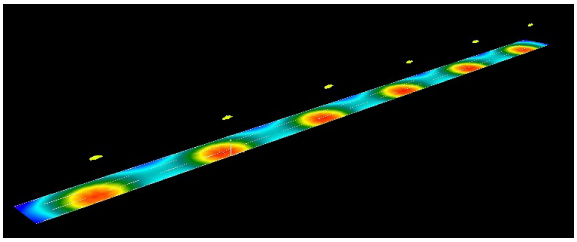
The Standard
Type III M NON CUTOFF

* 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

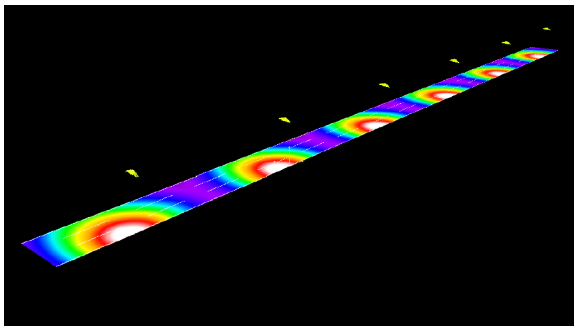


Result	
U0	0.42
UI	0.71
TI	12
SR	0.6
Specification	Brightness

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

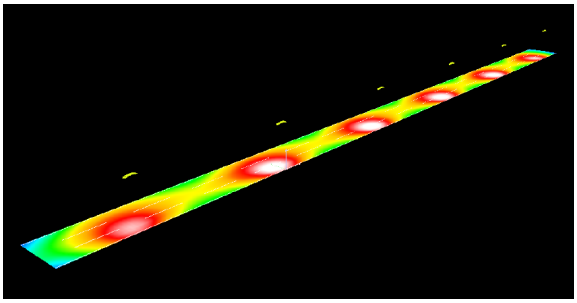


Result	
U0	0.23
UI	0.20
TI	3
SR	0.26
Specification	Brightness

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.

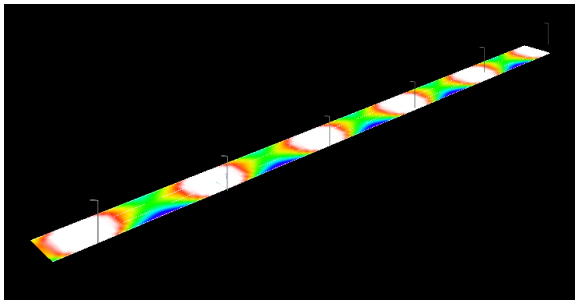
DIALux Simulation Result

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)

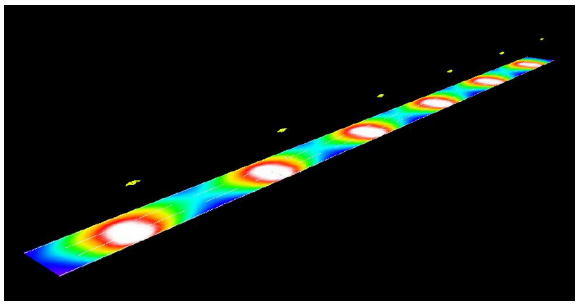


* The results would be similar if the configuration conditions are equally magnified or minified.

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

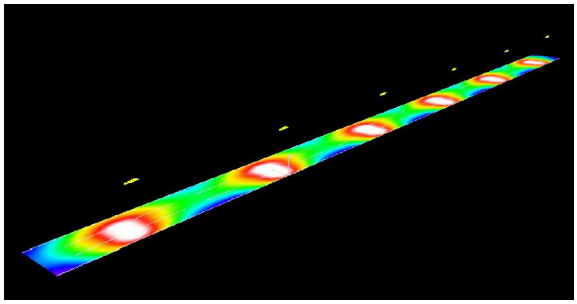


* The results would be similar if the configuration conditions are equally magnified or minified.

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

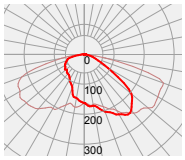
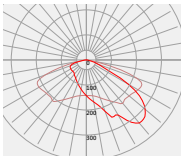
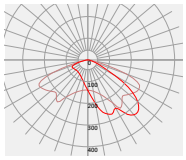
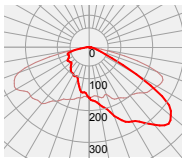
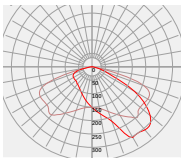
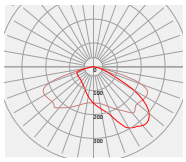
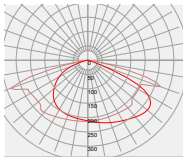
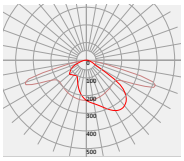
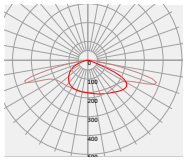
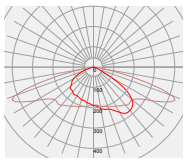
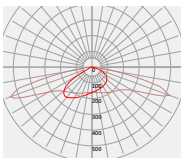
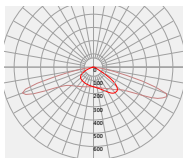
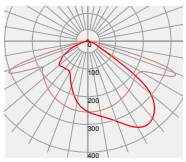
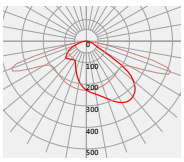
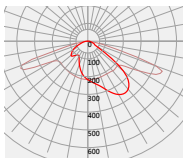
Result	
U0	0.51
UI	0.65
TI	13
SR	0.78
Specification	Brightness

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
35°×155°		–		
60°×155°		–		
70°×150°	–			
90°×150°	–			
110°×150°	–			

Details by LED

Part No	Accessories	LED Package Size	LED
LL04CR-CFN××L02	-	3535 / 5050	 CREE XPL-HD; CREE JR5050 K class 6V; CREE JR5050 P class 6V
LL04LU-CFN××L06	-	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	LL04CR-CFN35155L02	-	-	-	-
	LL04CR-CFN60155L02	-	-	-	-
	LL04LU-CFN70150L06	III-Medium	121°×151°	0.3	⬇
	LL04LU-CFN90150L06	III-Medium	109°×150°	0.4	⬇
	LL04LU-CFN110150L06	II-Medium	72°×147°	0.4	⬇
 CREE JR5050 K class 6V	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°x154°	0.5	⬇
	LL04LU-CFN110150L06	II-Medium	70°x150°	0.5	⬇
 CREE JR5050 P class 6V	LL04CR-CFN35155L02	III Short	54°x143°	0.4	⬇
	LL04CR-CFN60155L02	III Short	57°x147°	0.3	⬇
	LL04LU-CFN70150L06	III-Medium	120°x155°	0.5	⬇
	LL04LU-CFN90150L06	II-Medium	107°x151°	0.6	⬇
	LL04LU-CFN110150L06	II-Medium	64°x146°	0.6	⬇

Product Nomenclature

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