

# STANDARD RANGE

280 x 40 mm PMMA collimator —  
POLLUX7X1

February, 2025

# POLLUX7X1: presentation

**GAGGIONE's new diamond-turned glare-free family, POLLUX7X1 is here (280 mm x 40 mm).**

Beautifully designed, high precision micro-structured optics provides excellent color consistency and homogenous light. Pollux7x1 optics are tunable white optimized and mixing colors without the need of using diffusing material.

2 colours: Black or White  
2 finishes: Glossy or Matt

## 10 References:

2 Louvre heights  
LVR (H = 15.8 mm)  
LVR2 (H = 20.25 mm)



### POLLUX7X1N

Narrow beam  
~10-15°

### POLLUX7X1G

Wall Grazer  
~20-25°

### POLLUX7X1M

Medium beam  
~30°

### POLLUX7X1W

Wide beam  
~50-55°

### POLLUX7X1L

Large beam  
~63°

### POLLUX7X1VL

Very Large beam  
~80°

### POLLUX7X1VLD

Very Large beam  
diffused  
~80°

### POLLUX7X1E

Elliptical beam  
~25° X ~80°

### POLLUX7X1AS25

Asymmetric Shelf beam

### POLLUX7X1DA35

Double Asymmetric beam

# POLLUX7X1: LED specifications

LES size: 5.0 mm x 5.0 mm maximum.

Type of LED: Mid-power, Chip Scale Package.

Type of Led	POLLUX7X1N	POLLUX7X1G	POLLUX7X1M	POLLUX7X1W	POLLUX7X1L	POLLUX7X1VL	POLLUX7X1VLD	POLLUX7X1E	POLLUX7X1AS25	POLLUX7X1DA35
CSP 3535 HP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2835 x 1 3030 x 1 3535 x 1	✗	✓	✓	✓	✓	✓	✓	✓	✓	✗
2835 X 2 3030 X 2 5050 X 1	✗	✓	✓	✓	✓	✓	✓	✓	✓	✗
CSP X 4 2835 X 4 3030 X 4	✗	✗	✗	✓	✓	✓	✓	✗	✗	✗
Tunable white	✗	✗	✗	✓	✓	✓	✓	✗	✗	✗

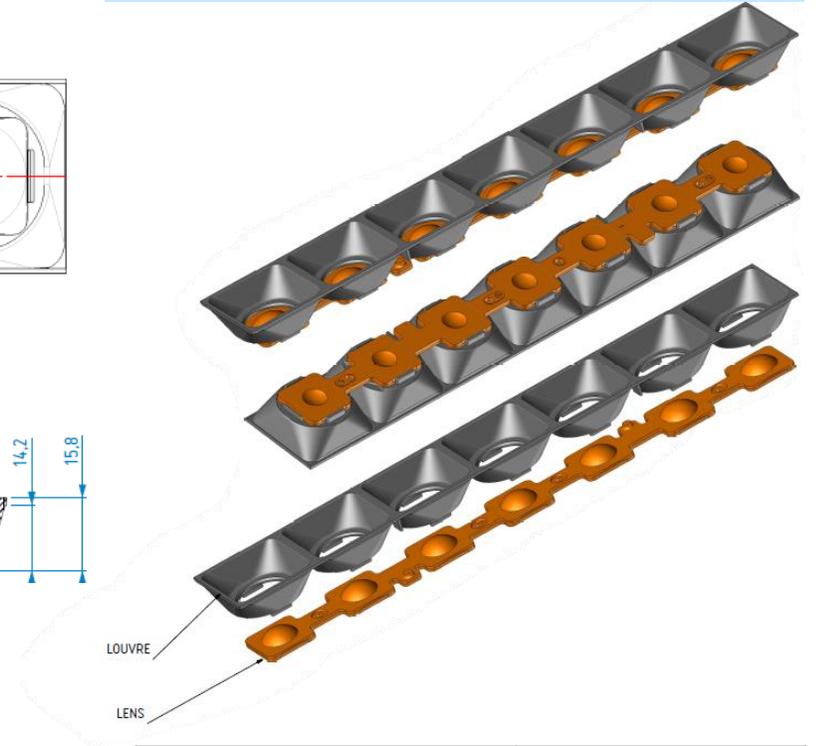
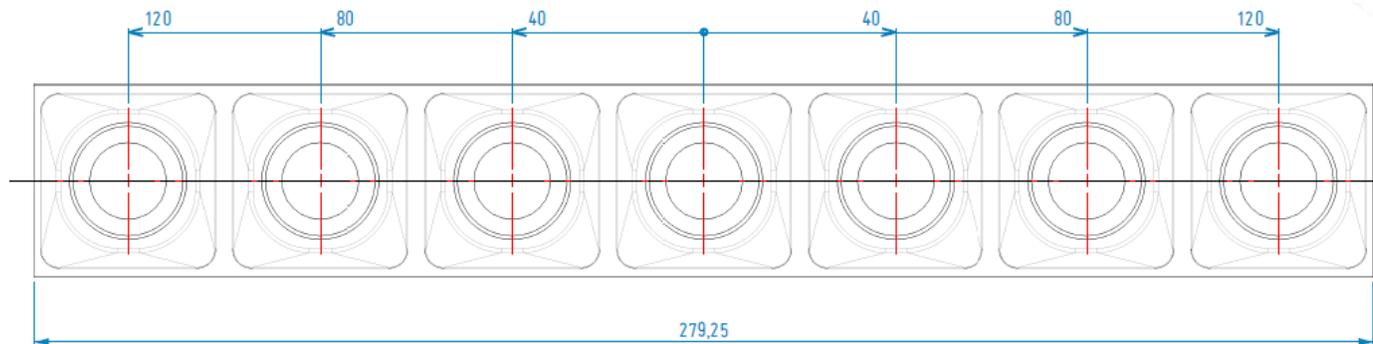
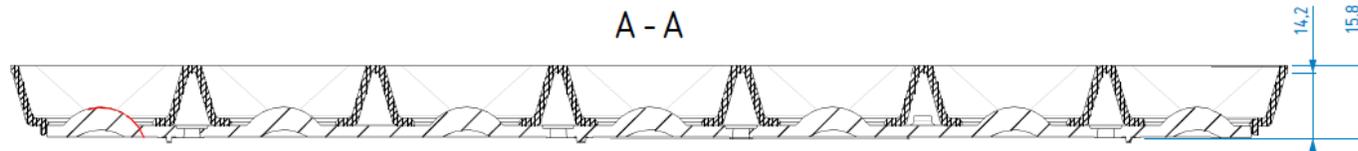
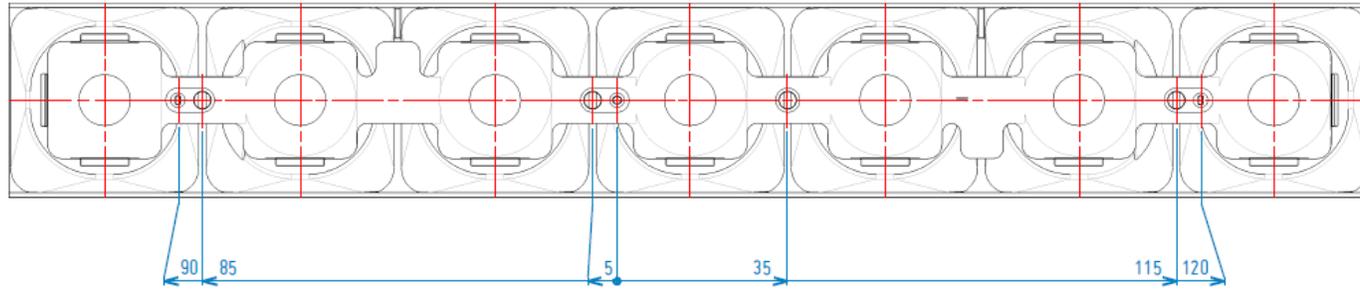
\*\* Some photometries such as POLLUX7X1E, POLLUX7X1AS25 and POLLUX7X1DA35 can be used even with 3pcs of CSPs (linear installation), please kindly contact us ([contact@gaggione.com](mailto:contact@gaggione.com)) for more compatibility information

# POLLUX7X1: applications



# POLLUX7X1: 2D drawing

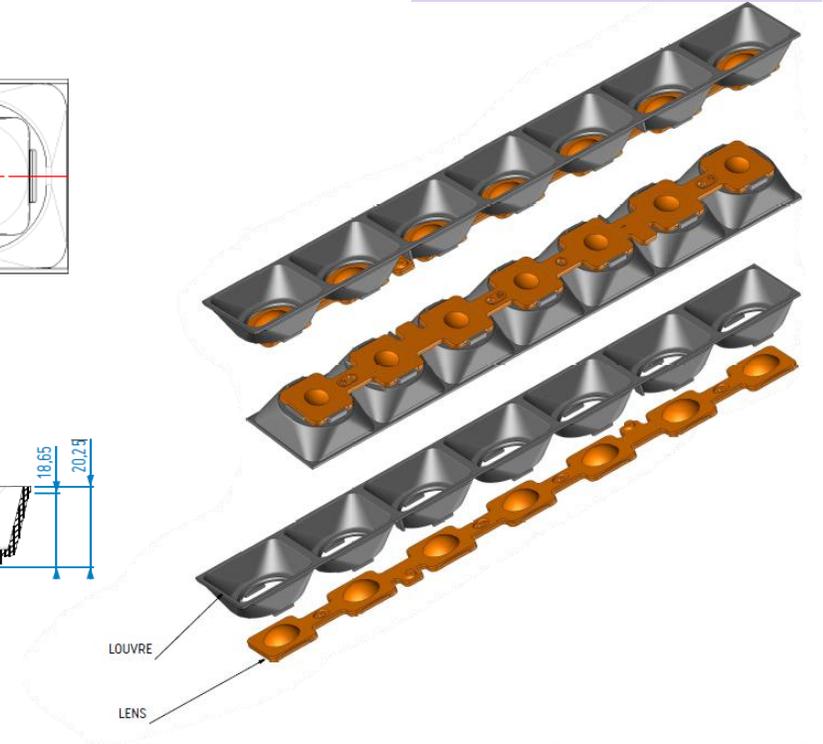
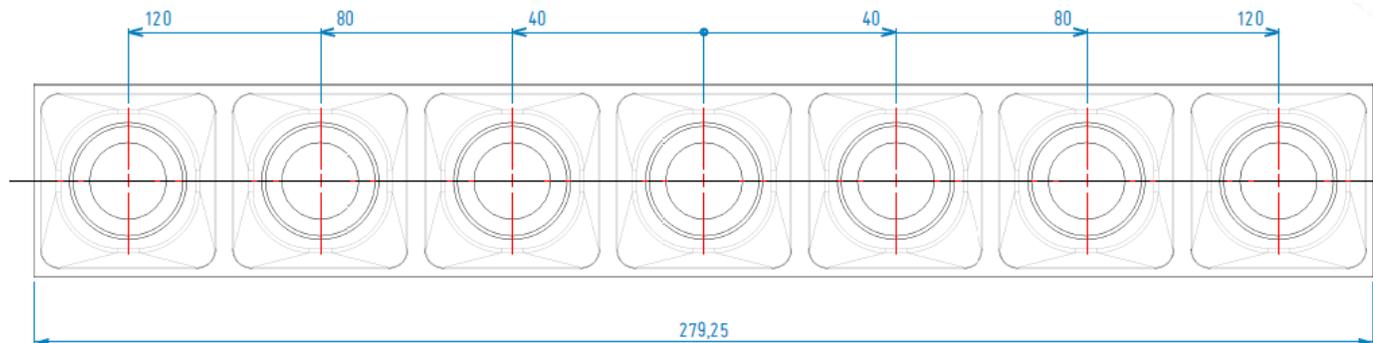
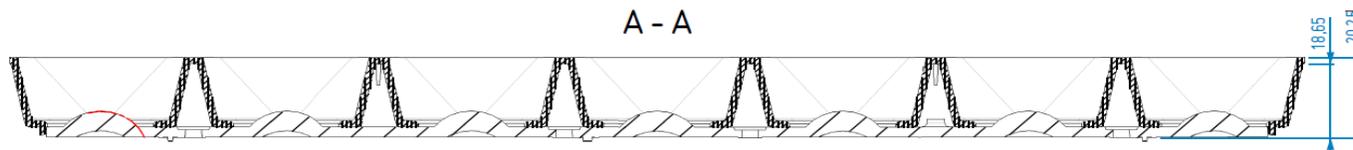
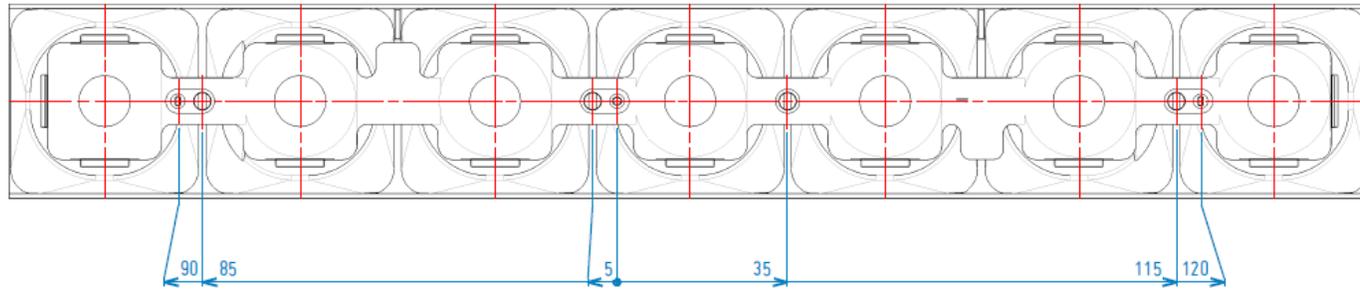
Louvre version 1 (low profile)



Louvre reference	Description
LVRPOLLUX7X101	White, glossy
LVRPOLLUX7X101M	White, matt
LVRPOLLUX7X102	Black, glossy
LVRPOLLUX7X102M	Black, matt

# POLLUX7X1: 2D drawing

Louvre version 2



Louvre reference	Description
LVR2POLLUX7X101	White, glossy
LVR2POLLUX7X101M	White, matt
LVR2POLLUX7X102	Black, glossy
LVR2POLLUX7X102M	Black, matt

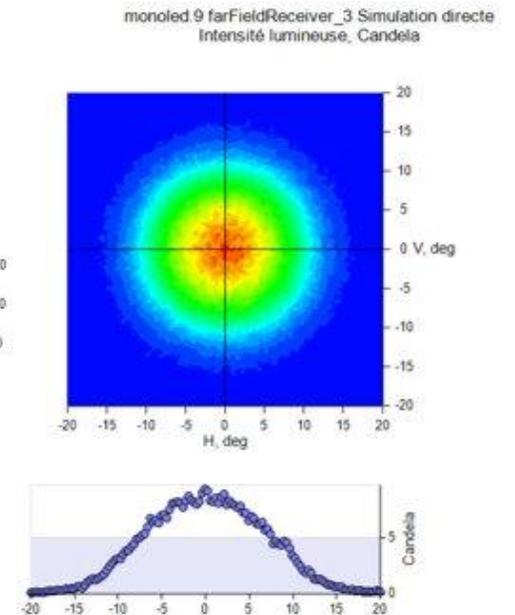
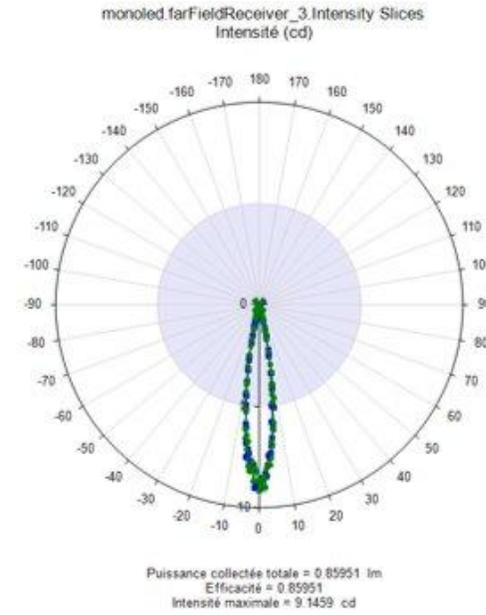
# POLLUX7X1N: Narrow beam



## Compatibility matrix

POLLUX7X1N	NICHIA	
	E17 (1717)	E21
FWHM (°)	13.4	18.2
FTM (°)	23.8	28.7
Efficacy (cd/lm)	11.6	8

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



Intensity pattern  
LED: Nichia E21

Visit the [product page](#) on our website

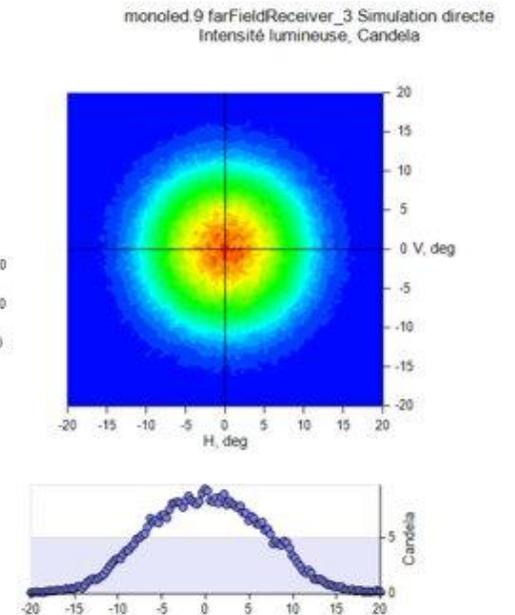
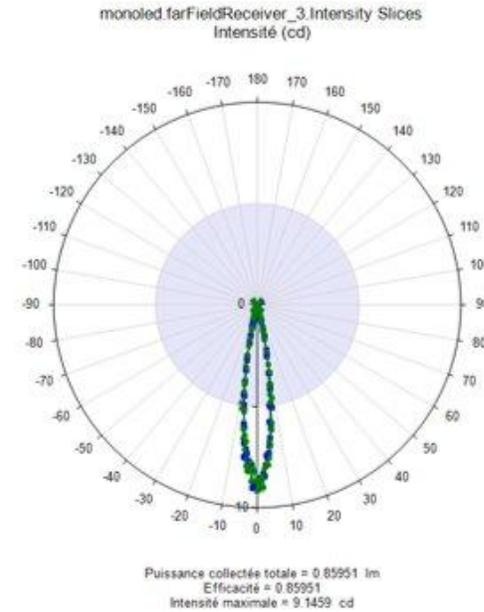
# POLLUX7X1G: Wall Grazer



## Compatibility matrix

POLLUX7X1N	NICHIA	NICHIA	NICHIA
	E17 (1717)	E21	757
FWHM (°)	20.3	22	23.2
FTM (°)	42.7	45.4	49.4
Efficacy (cd/lm)	3.6	3.4	3.2

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



Visit the [product page](#) on our website

# POLLUX7X1M: Medium beam

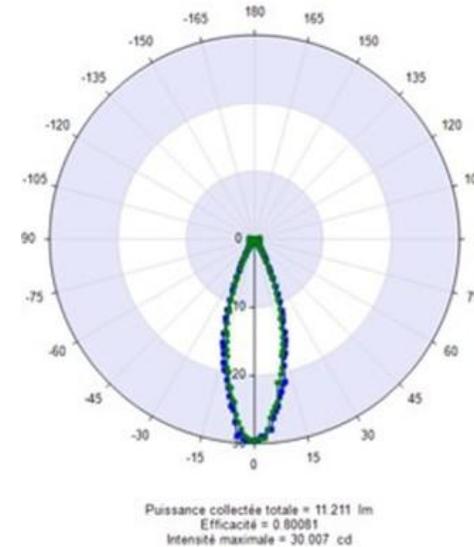


## Compatibility matrix

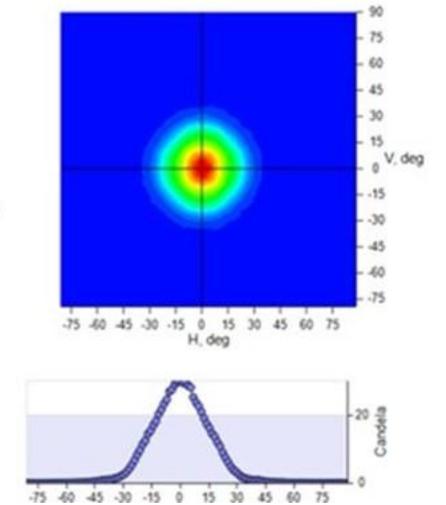
	Nichia	Samsung	Lumileds
POLLUX7X1M	2 x 757	2 x 3030	5050
FWHM (°)	32.1	34.1	27.1
FWTM (°)	56.2	58.2	49.9
Efficacy (cd/lm)	2.40	2.13	2.88

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.

lineaires40\_2x3030 farFieldReceiver\_155 Intensity Slices  
Intensité (cd)



lineaires40\_2x3030 23 farFieldReceiver\_2 Simulation directe  
Intensité lumineuse, Candela



Intensity pattern  
LED: 2x 3030

Visit the [product page](#) on our website

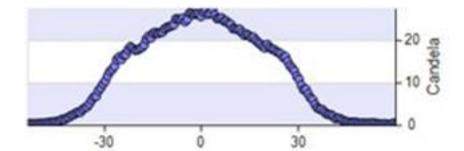
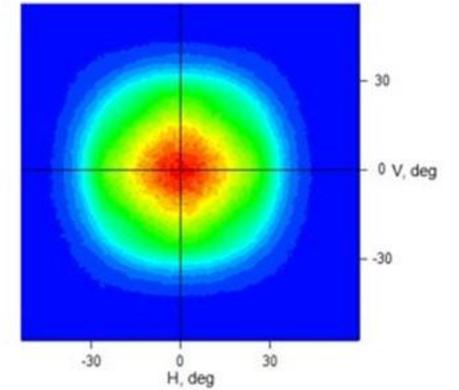
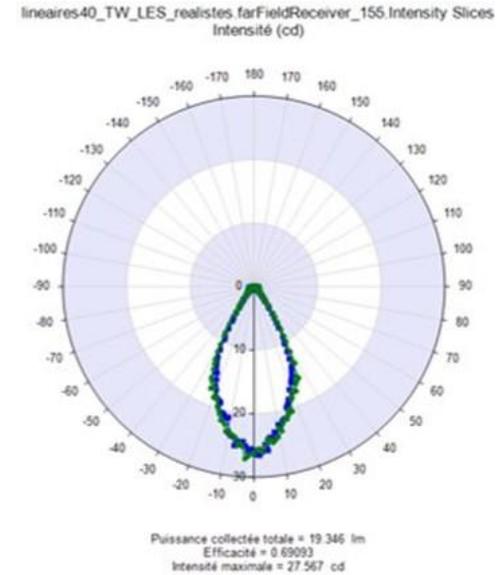
# POLLUX7X1W: Wide beam



## Compatibility matrix

	Nichia	Lumileds		
POLLUX7X1W	4x 757	4x 2835		
FWHM (°)	55	51		
FWTM (°)	78.2	74.2		
Efficacy (cd/lm)	1	1		

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



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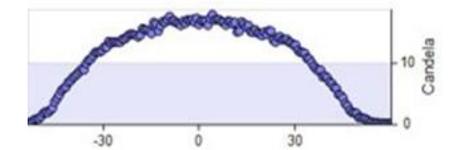
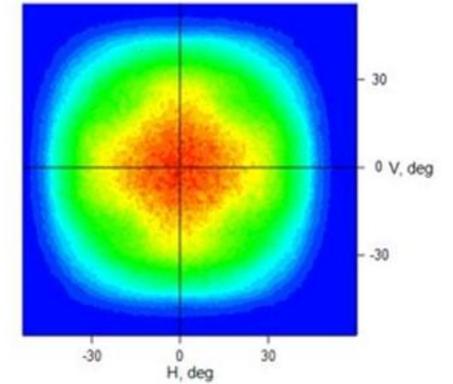
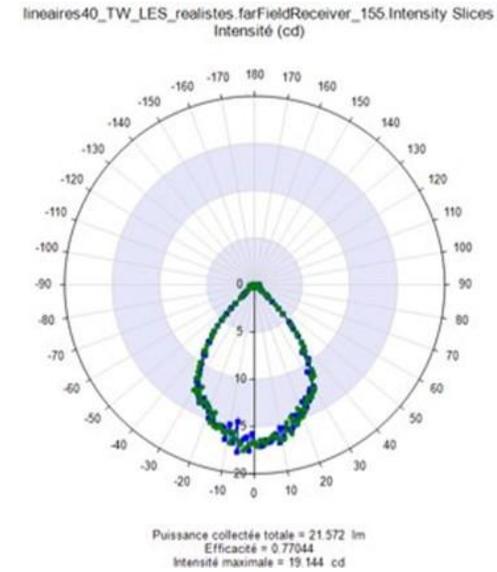
# POLLUX7X1L: Large beam



## Compatibility matrix

	Nichia	Lumileds		
POLLUX7X1L	4x 757	4x 2835		
FWHM (°)	75.3	73.2		
FWTM (°)	108	106.5		
Efficacy (cd/lm)	0.55	0.5		

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



Intensity pattern  
LED: Nichia 757 (4pcs)

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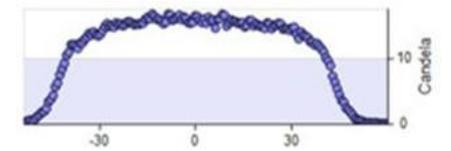
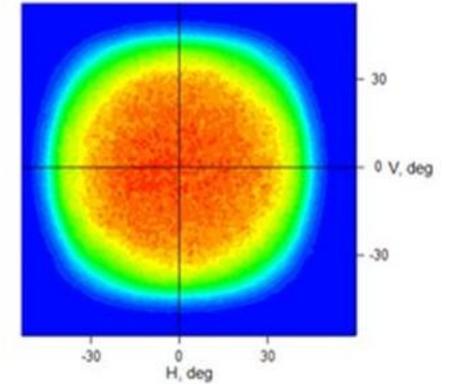
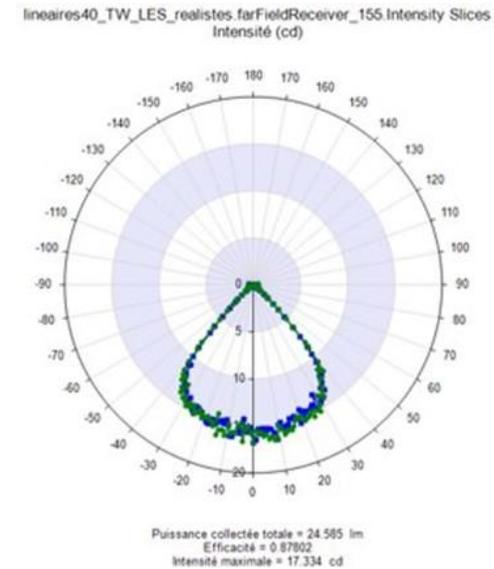
# POLLUX7X1VL: Very Large beam



## Compatibility matrix

	Nichia	Lumileds	Nichia
POLLUX7X1VL	4x 757	4x 2835	2x 757
FWHM (°)	85	83.8	
FWTM (°)	99	96.4	
Efficacy (cd/lm)	0.60	0.55	

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



Intensity pattern

LED: Nichia 757 (4pcs)

UGR ≤19 @ 1000 lumens

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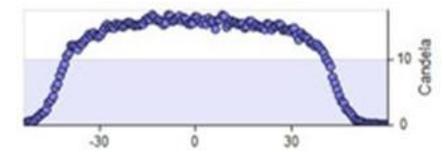
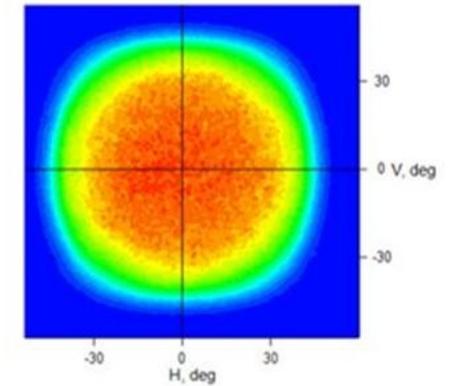
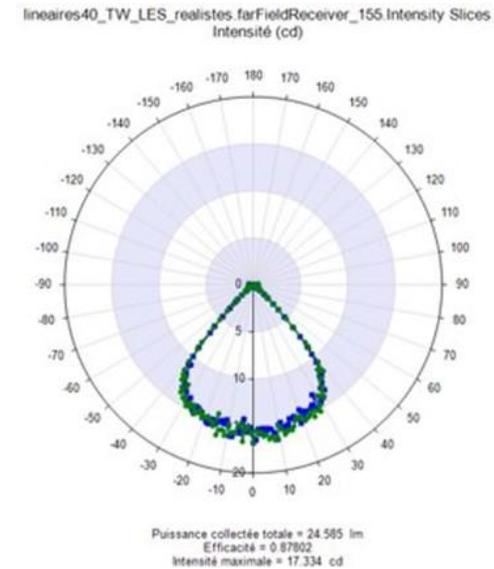
# POLLUX7X1VLD: Very Large beam Diffused



## Compatibility matrix

	Nichia	Lumileds	Nichia
POLLUX7X1VLD	4x 757	4x 2835	2x 757
FWHM (°)	83,0	82,7	83,0
FWTM (°)	114,1	114,8	113,4
Efficacy (cd/lm)	0,5	0,5	0,5

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



\*\* Please note that this photometry is based on POLLUX7X1VL, that has similar photometry. Please see our .IES file for exact photometry comparison \*\*

Intensity pattern

LED: Nichia 757 (4pcs)

UGR ≤19 @ 1000 lumens

Visit the [product page](#) on our website

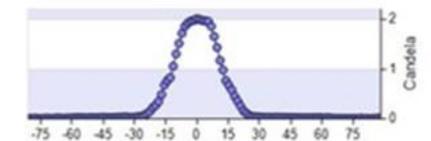
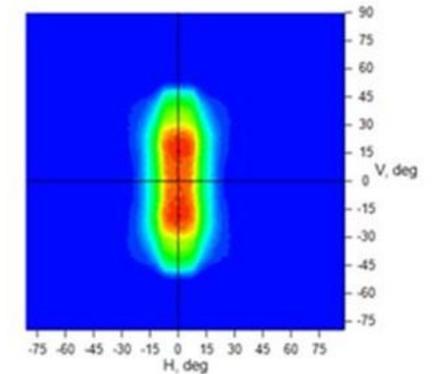
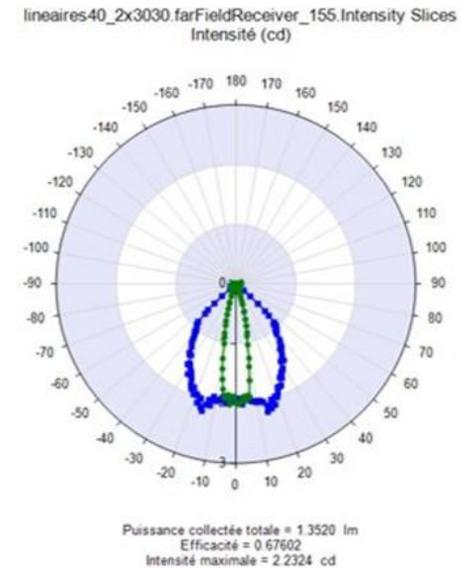
# POLLUX7X1E: Elliptical beam



## Compatibility matrix

	NICHIA	SAMSUNG	Nichia	
<b>POLLUX7X1E</b>	<b>2x E21</b>	<b>2x 3030</b>	<b>2x E11</b>	
FWHM (°)	18 x 87	22 x 84		
FWTM (°)	35 x 97	43 x 101		
Efficacy (cd/lm)	1.26	1.14		

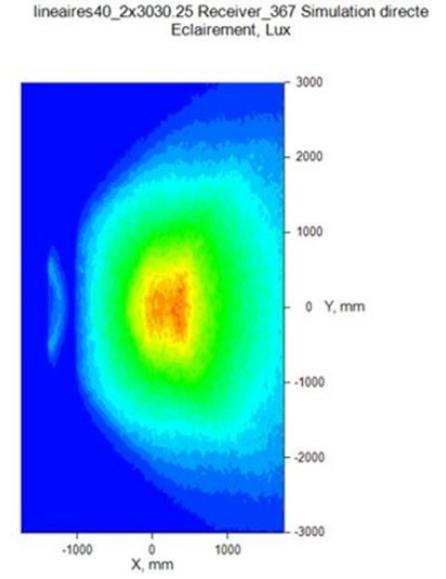
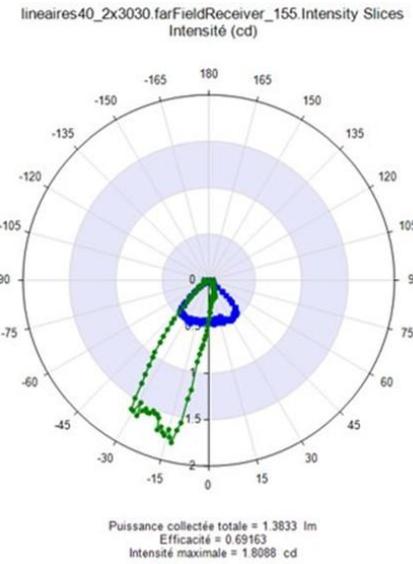
\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



Intensity pattern  
LED: 3030 (2pcs)

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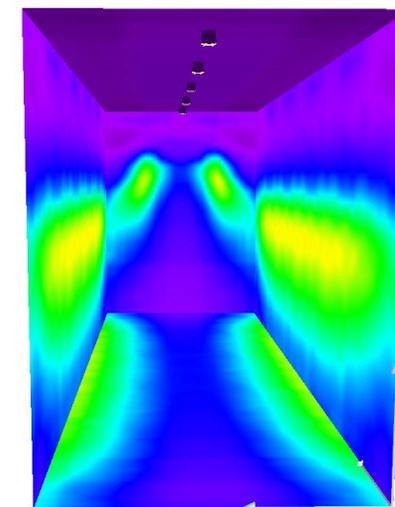
# POLLUX7X1AS25: Asymmetric beam



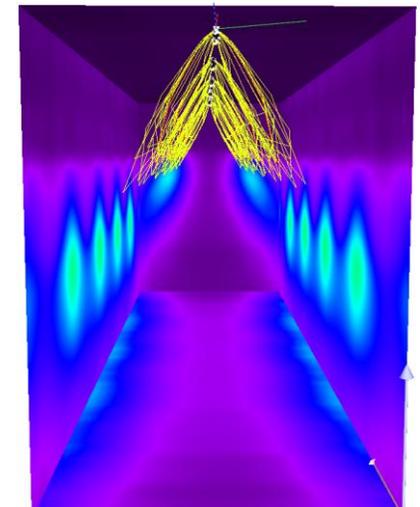
## Compatibility matrix

	NICHIA	Nichia	SAMSUNG	NICHIA
POLLUX7X1AS25	2x E21	2x E11	2X LM301B+	2x 757
FWHM (°)	Asym.	Asym.	Asym.	
FWTM (°)				
Efficacy (cd/lm)				

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.



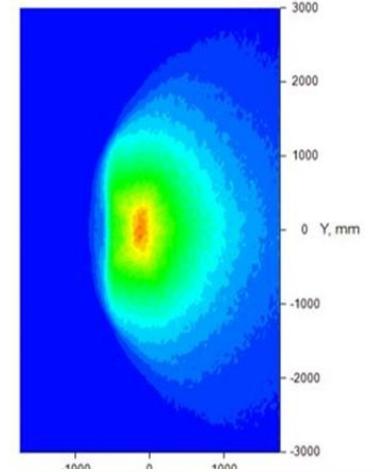
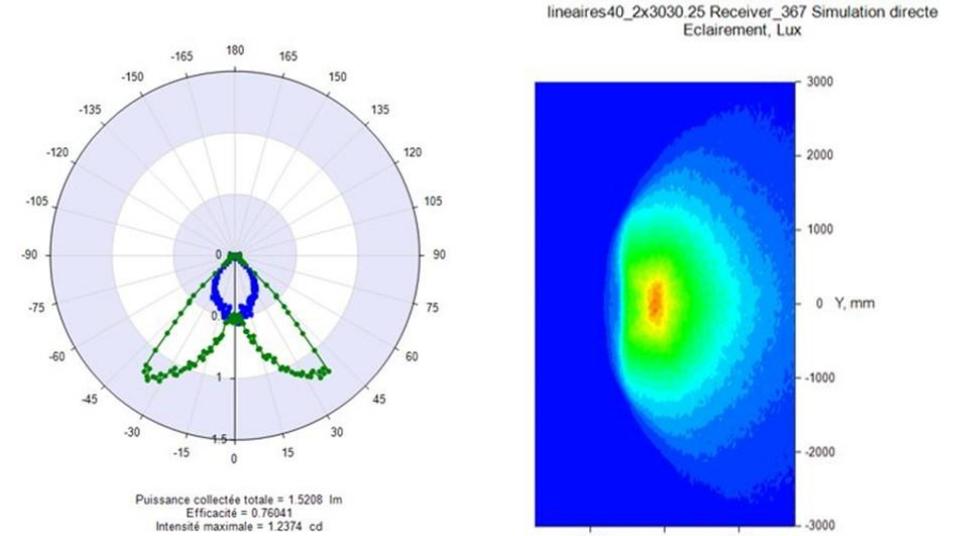
POLLUX7X1AS25



Competition

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# POLLUX7X1DA35: Double Asymmetric beam



## Compatibility matrix

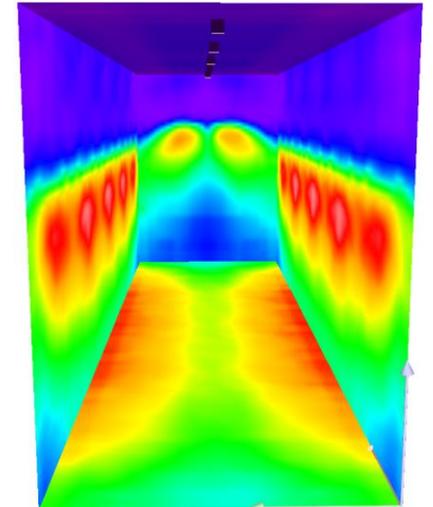
	NICHIA	NICHIA	NICHIA
POLLUX7X1E	2x E21	2x E11	2x 757
FWHM (°)	Asym.		
FWTM (°)			
Efficacy (cd/lm)			

\*\* Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.

## Dialux simulation

LED: 2x Nichia E21

Room width 2.6m  
Room height 3.5m  
Distance between luminaires 2m  
Light starts 1m away  
Tilt: 0



Visit the [product page](#) on our website

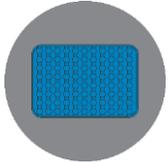
# POLLUX7X1: Kit codes (lens + louvre)

Louvre 1 (low profile)	Narrow POLLUX7X1N	Medium POLLUX7X1M	Wide POLLUX7X1W	Large POLLUX7X1L	Very Large POLLUX7X1VL	Very Large Diffused POLLUX7X1VLD	Elliptical POLLUX7X1E	Asymmetric POLLUX7X1AS25	Double Asymmetric POLLUX7X1DA3 5
White, glossy	KPOLLUX7X1N101	KPOLLUX7X1M101	KPOLLUX7X1W101	KPOLLUX7X1L101	KPOLLUX7X1VL101	KPOLLUX7X1VLD101	KPOLLUX7X1E101	KPOLLUX7X1AS25101	KPOLLUX7X1DA35101
White, matt	KPOLLUX7X1N101 M	KPOLLUX7X1M101M	KPOLLUX7X1W101M	KPOLLUX7X1L101M	KPOLLUX7X1VL101M	KPOLLUX7X1VLD101M	KPOLLUX7X1E101M	KPOLLUX7X1AS25101M	KPOLLUX7X1DA35101 M
Black, glossy	KPOLLUX7X1N102	KPOLLUX7X1M102	KPOLLUX7X1W102	KPOLLUX7X1L102	KPOLLUX7X1VL102	KPOLLUX7X1VLD102	KPOLLUX7X1E102	KPOLLUX7X1AS25102	KPOLLUX7X1DA35102
Black, matt	KPOLLUX7X1N102 M	KPOLLUX7X1R102M	KPOLLUX7X1W102M	KPOLLUX7X1L102M	KPOLLUX7X1VL102M	KPOLLUX7X1VLD102M	KPOLLUX7X1E102M	KPOLLUX7X1AS25102M	KPOLLUX7X1DA35102 M

Louvre 2 (H = 20.5 mm)	Narrow POLLUX7X1N	Medium POLLUX7X1M	Wide POLLUX7X1W	Large POLLUX7X1L	Very Large POLLUX7X1VL	Very Large POLLUX7X1VLD	Elliptical POLLUX7X1E	Asymmetric POLLUX7X1AS25	Double Asymmetric POLLUX7X1DA3 5
White, glossy	K2POLLUX7X1N101	K2POLLUX7X1M101	K2POLLUX7X1W101	K2POLLUX7X1L101	K2POLLUX7X1VL101	K2POLLUX7X1VLD101	K2POLLUX7X1E101	K2POLLUX7X1AS25101	K2POLLUX7X1DA35101
White, matt	K2POLLUX7X1N101 M	K2POLLUX7X1M101M	K2POLLUX7X1W101M	K2POLLUX7X1L101M	K2POLLUX7X1VL101M	K2POLLUX7X1VLD101 M	K2POLLUX7X1E101 M	K2POLLUX7X1AS25101 M	K2POLLUX7X1DA35101 M
Black, glossy	K2POLLUX7X1N102	K2POLLUX7X1M102	K2POLLUX7X1W102	K2POLLUX7X1L102	K2POLLUX7X1VL102	K2POLLUX7X1VLD102	K2POLLUX7X1E102	K2POLLUX7X1AS25102	K2POLLUX7X1DA35102
Black, matt	K2POLLUX7X1N102 M	K2POLLUX7X1R102M	K2POLLUX7X1W102M	K2POLLUX7X1L102M	K2POLLUX7X1VL102M	K2POLLUX7X1VLD102 M	K2POLLUX7X1E102 M	K2POLLUX7X1AS25102 M	K2POLLUX7X1DA35102 M

# POLLUX7X1: Packaging

## POLLUX7X1

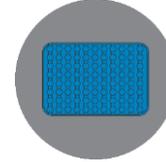


17 thermoformed trays with 12 parts each



204 parts  
Box: 285 x 195 x 50 mm  
Weight: 1.0 kg

## LVRPOLLUX7X1



Bulk packing, packed in plastic bags matching POLLUX7X1 lens quantity



204 parts  
Box: 285 x 195 x 150 mm  
Weight: 1.0 kg

# Code form standard range

## LENS

### OPTICAL

- 01: 16 mm
- 02: 16 mm
- 12: 16 mm
- 22: 16 mm RGBW
- 05: 32 mm
- 15: 32 mm
- 25: 32 mm RGBW
- 07: 35 mm
- 45: 45 mm UFO or VEGA
- 49: 45 mm RGBW
- 59: 45 mm RGBW gen 2
- 56: 67mm in PMMA
- 66: 67 mm in silicone
- 76: 67mm in silicone
- 67: 67 mm UFO

### PRODUCT

- LLC: Collimator
- LLH: Holder
- LLL: Linear collimator
- LLR: Reflector
- LLS: Set
- UFO: Ultra Flat Optic
- VEGA : 45mm COB oriented
- HADAR70: 70mm COB oriented
- POLLUX7X1: Linear low UGR solution
- AVIKA : Street Lighting

### BEAM ANGLE

- U/R/RF/UF: Ultra Narrow
- N/NF: Narrow
- M: Medium
- W: Wide
- X: Extra large
- S: Super large
- L: Large
- V: Very large
- E: Elliptical
- Z: Zoom

### MATERIAL

- 0 or nothing : PMMA
- 1: PC
- 2: PC anti-UV
- 7: Silicone

LLS01W01ABC001

**ABC:** Holder type according to LED package

### COLORS & DECORS

- 0: Translucent
- 1: White
- 2: Black

### ADHESIVE OPTION

- 1: Yes
- Nothing: No

### VERSION

### TYPE

- 1: 16mm
- 2: 32mm
- 3: 3x16mm
- 4: 4x16mm
- 9: 45mm

## HOLDER

# Contact us

## GAGGIONE SAS Headquarter

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