

STANDARD RANGE

280 x 40 mm PMMA collimator —
POLLUX7X1

July, 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.

3 colours: Black, White or Metallized (coming soon) 
2 finishes: Glossy or Matt

12 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
~53°

POLLUX7X1L

Large beam
~63°

POLLUX7X1VL
& VLD (diffused) 

Very Large beam
~83°

POLLUX7X1E
& ED (diffused) 

Elliptical beam
~23° X ~73°

POLLUX7X1AS25
& AS25D (diffused) 

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 & VLD	POLLUX7X1E & ED	POLLUX7X1AS25 & AS25D	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	✗	✗	✗	✓	✓	✓	✗	✗	✗

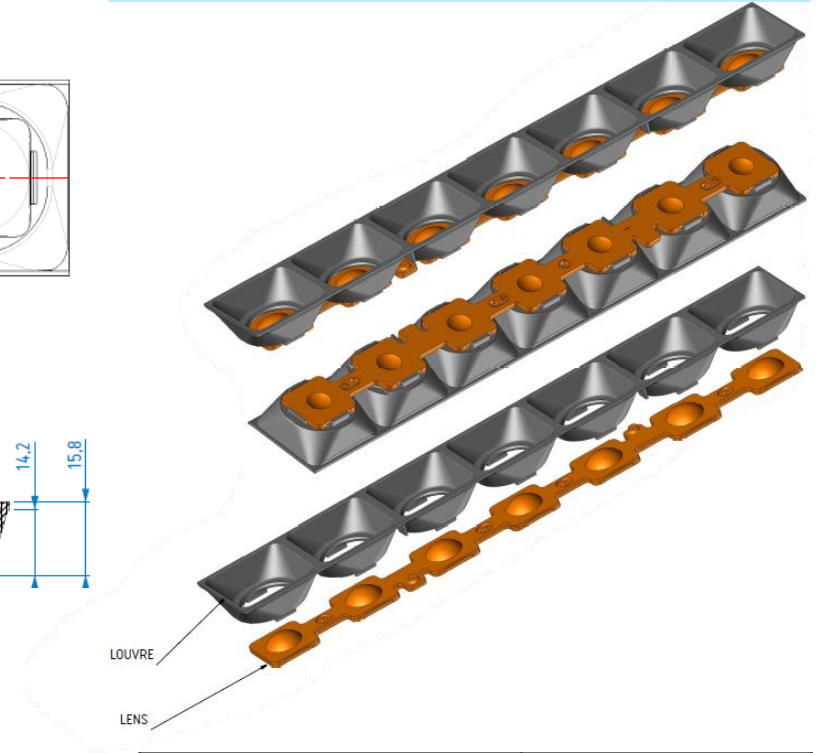
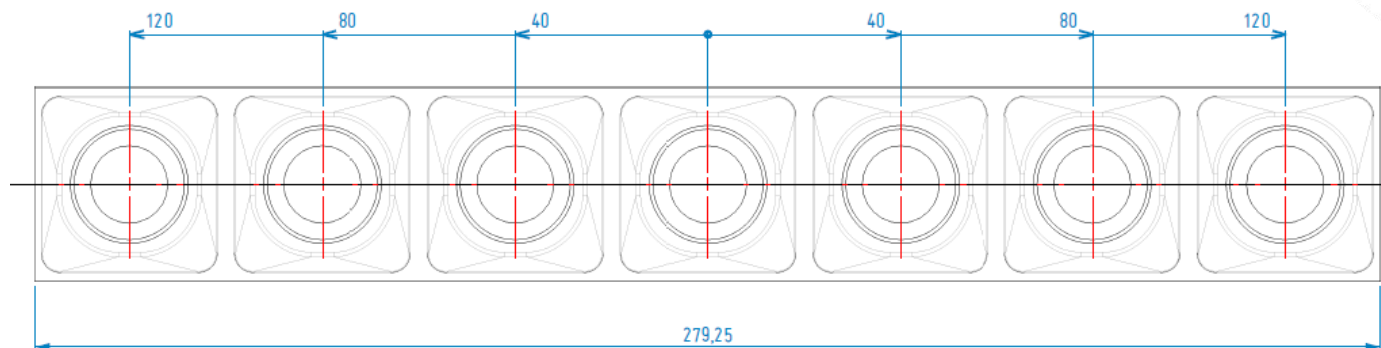
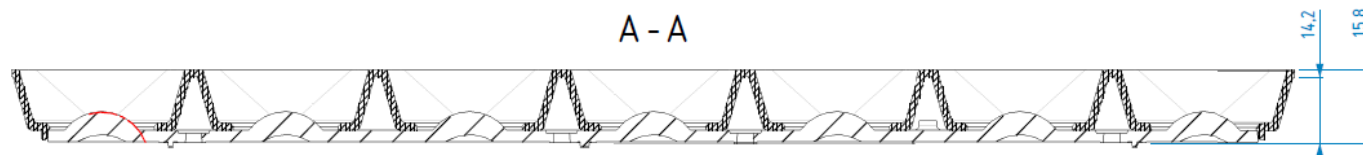
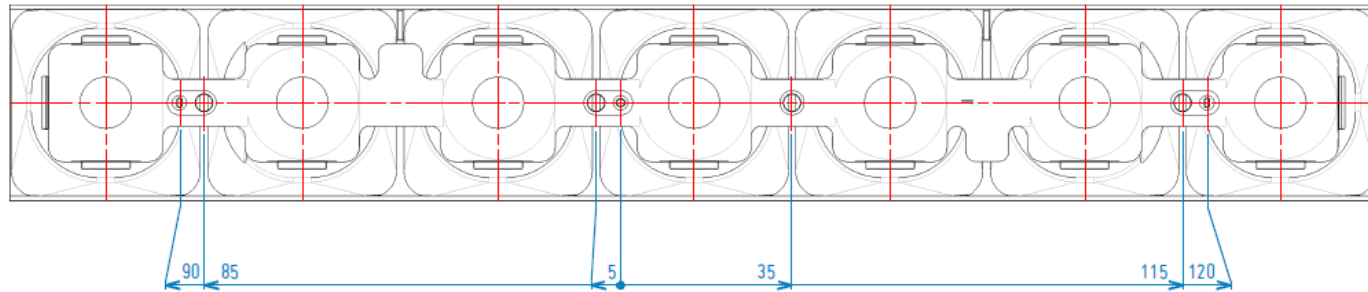
** Some photometries such as POLLUX7X1E, POLLUX7X1AS25 and POLLUX7X1DA35 can be used even with 3pcs of CSPs (linear installation), please kindly contact us (contact@gaggione.com) for more compatibility information

POLLUX7X1: applications



POLLUX7X1: 2D drawing

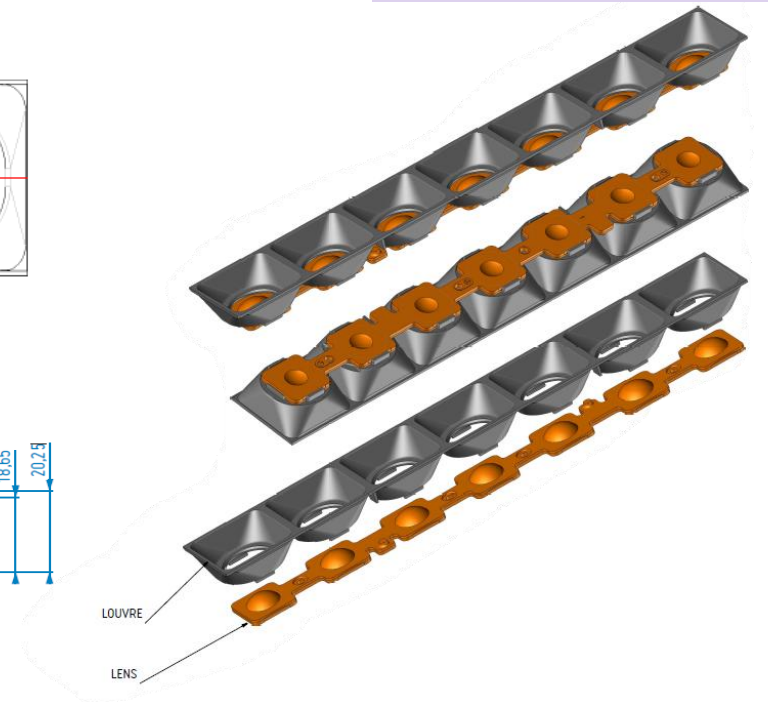
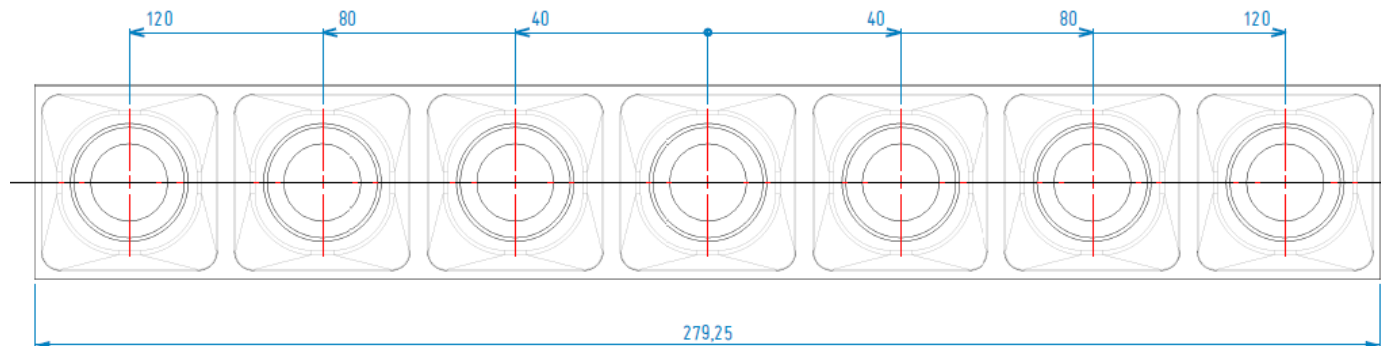
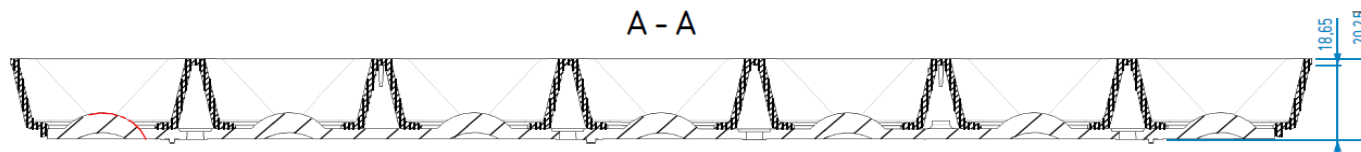
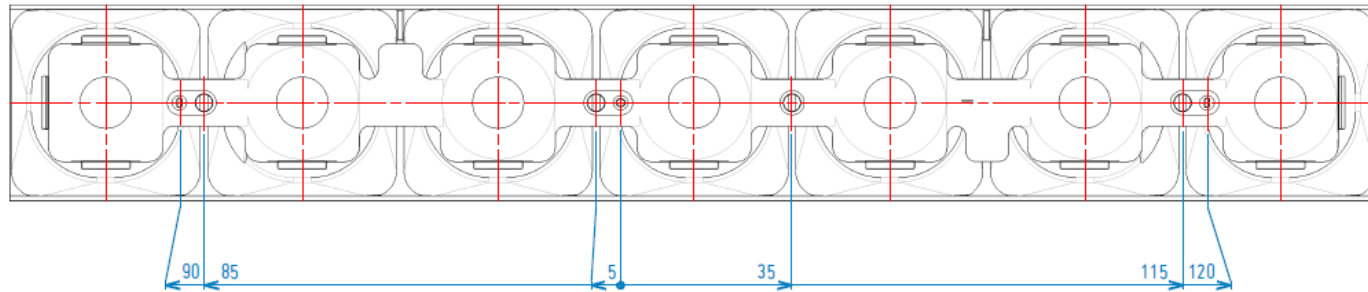
Louvre version 1 (low profile)



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

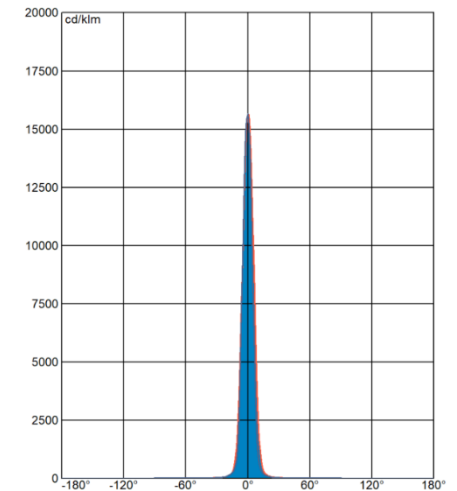
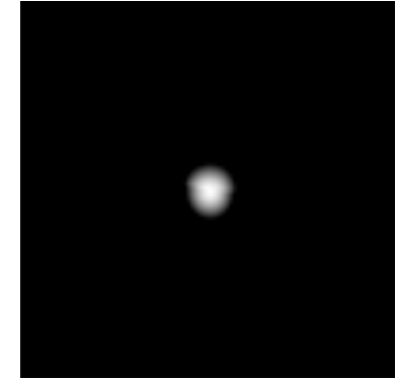
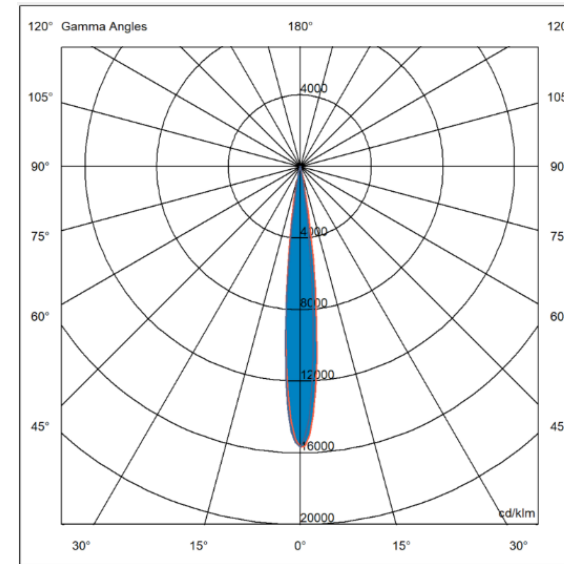
POLLUX7X1: 2D drawing

Louvre version 2



Louvre reference	Description
LVR2POLLUX7X101	White, glossy
LVR2POLLUX7X101M	White, matt
LVR2POLLUX7X102	Black, glossy
LVR2POLLUX7X102M	Black, matt
LVR2POLLUX7X103	Metallized, glossy

POLLUX7X1N: Narrow beam



Compatibility matrix

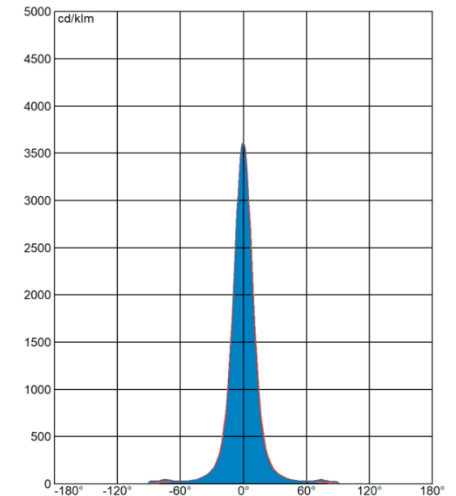
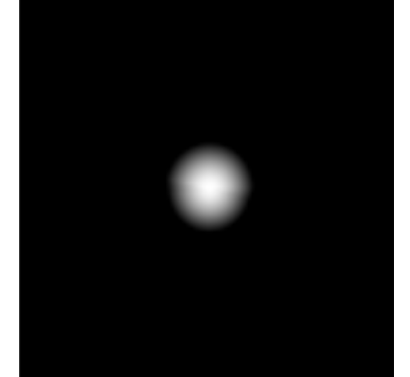
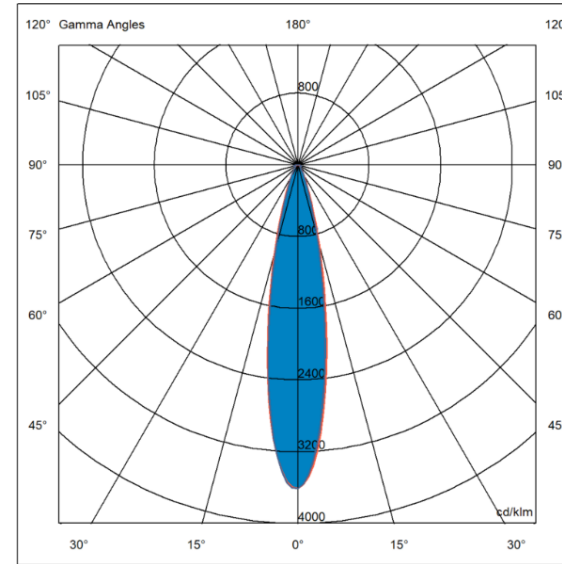
POLLUX7X1N	NICHIA	NICHIA
	E17 (1717)	E21
FWHM (°)	13.4	18.2
FTM (°)	23.8	28.7
Efficacy (cd/lm)	11.6	8

*** 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 E17x1

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

POLLUX7X1G: Wall Grazer



Compatibility matrix

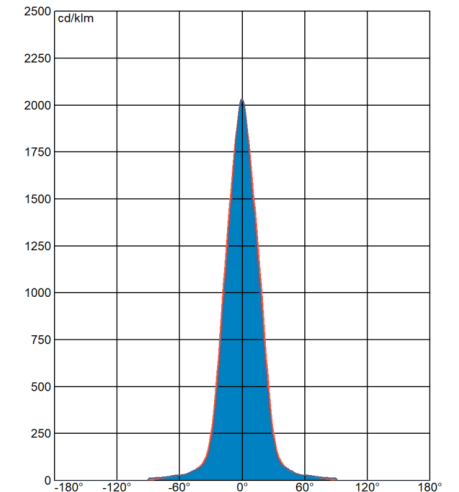
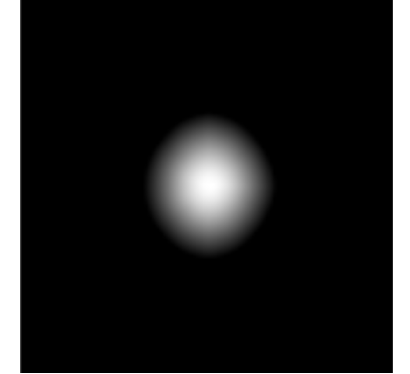
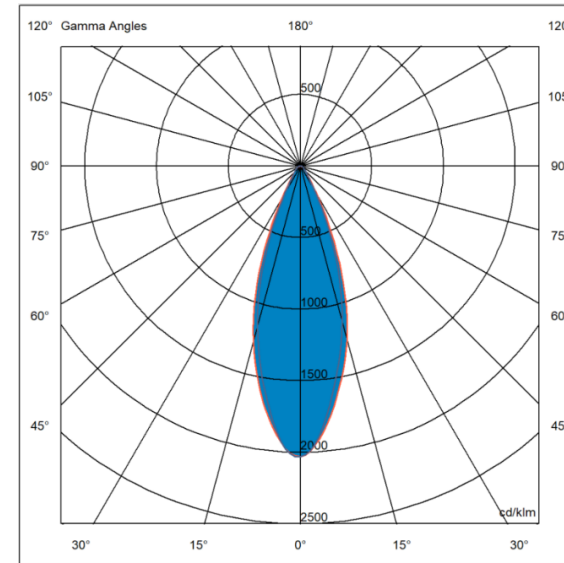
POLLUX7X1N	NICHIA	NICHIA	NICHIA
	E17 (1717)	E21	757
FWHM (°)	20.3	22	23.2
FTM (°)	42.7	45.4	49.4
Efficacy (cd/lm)	3.6	3.4	3.2

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

Intensity pattern
LED: Nichia E17x1

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
FTM (°)	56.2	58.2	49.9
Efficacy (cd/lm)	2.40	2.13	2.88

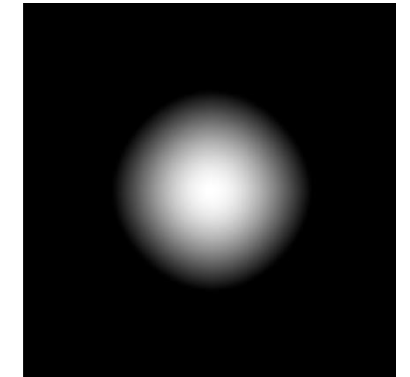
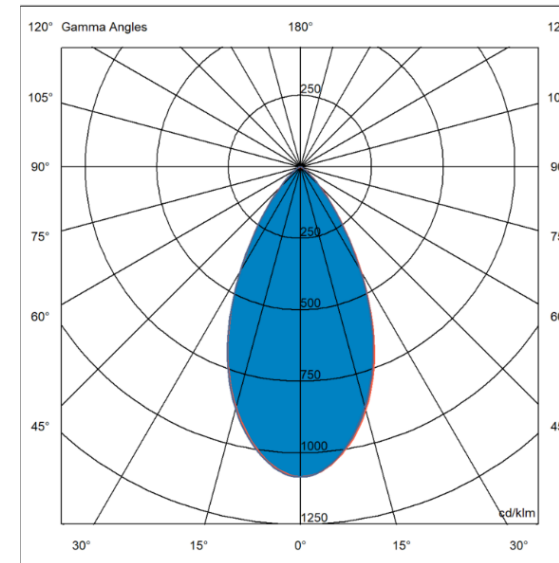
*** Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.*

Intensity pattern

LED: Nichia 757
TWx2 Alternated

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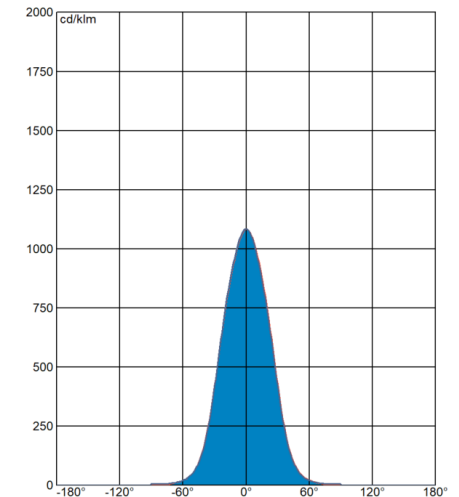
POLLUX7X1W: Wide beam



Compatibility matrix

	Nichia	Lumileds		
POLLUX7X1W	4x 757	4x 2835		
FWHM (°)	55	51		
FTM (°)	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.

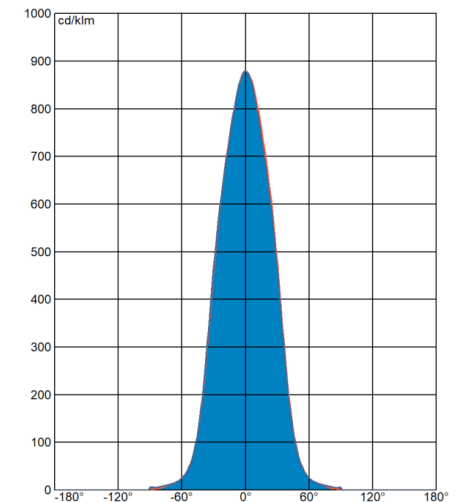
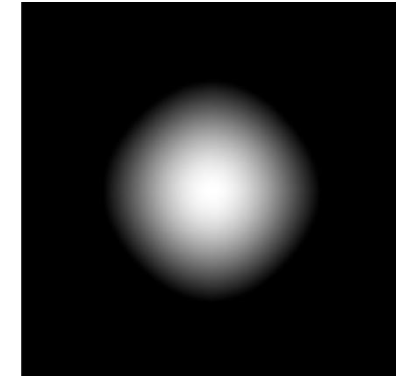
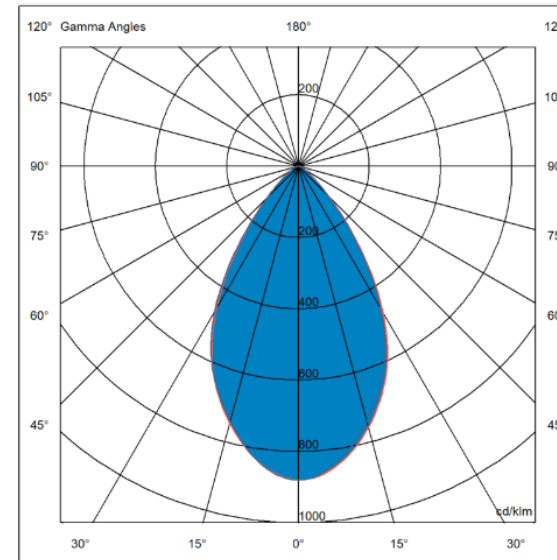


Intensity pattern

LED: Nichia 757
TWx4

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POLLUX7X1L: Large beam



Compatibility matrix

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

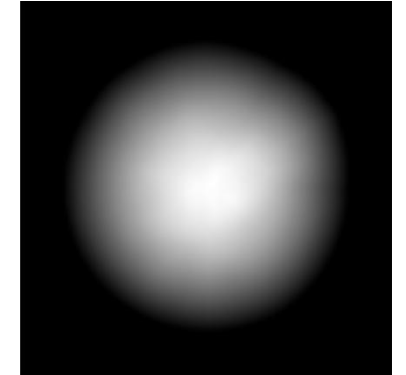
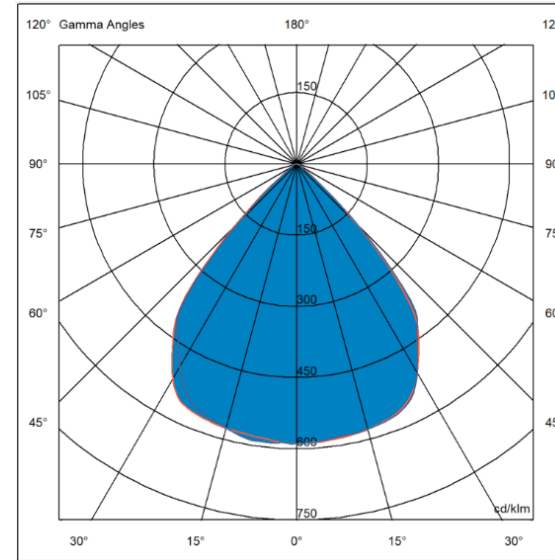
*** Note, these are based on simulated results, please [contact us](#) for measurements, simulations and compatibilities for the LED type you would like to use.*

Intensity pattern

LED: Nichia 757
TWx4

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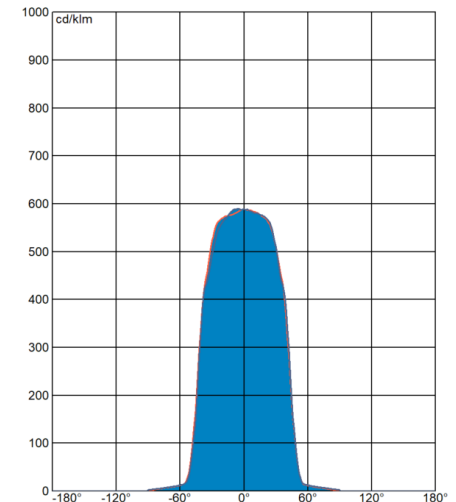
POLLUX7X1VL: Very Large beam



Compatibility matrix

	Nichia	Lumileds	Nichia	
POLLUX7X1VL	4x 757	4x 2835	2x 757	
FWHM (°)	85	83.8		
FTM (°)	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.*



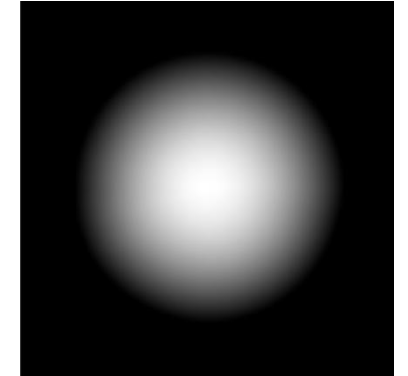
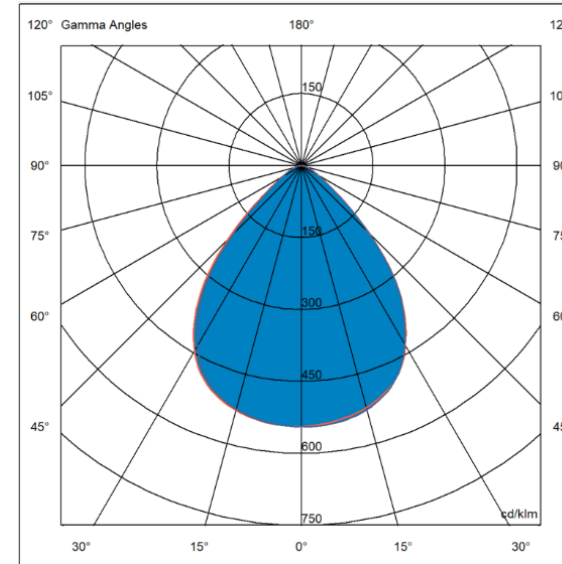
Intensity pattern

LED: Nichia 757
TWx4

UGR ≤19 @ 1000 lumens

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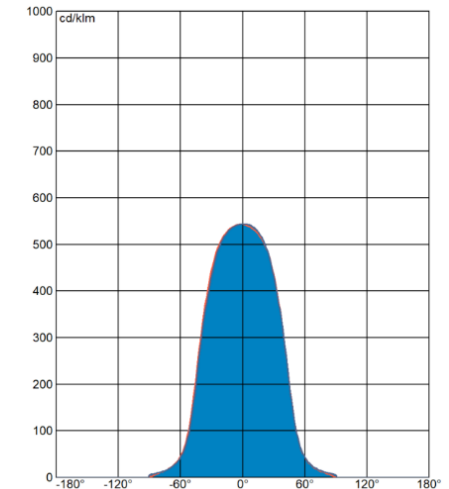
POLLUX7X1VLD: Very Large beam Diffused



Compatibility matrix

	Nichia	Lumileds	Nichia	
POLLUX7X1VLD	4x 757	4x 2835	2x 757	
FWHM (°)	83,0	82,7	83,0	
FTM (°)	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.*



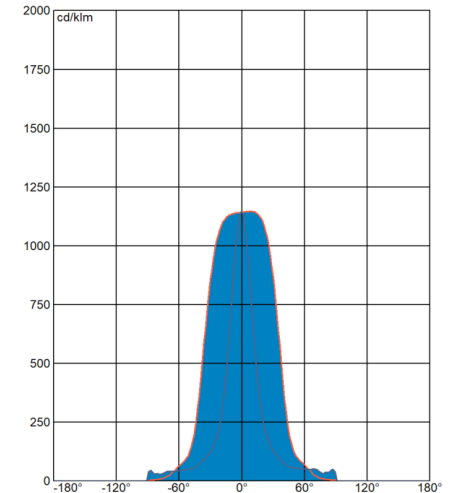
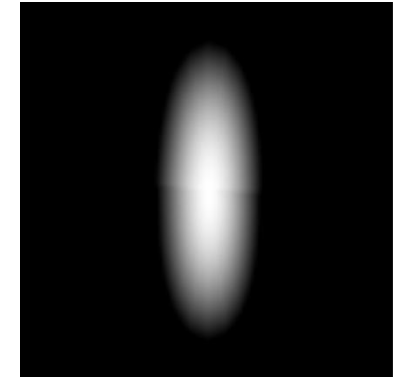
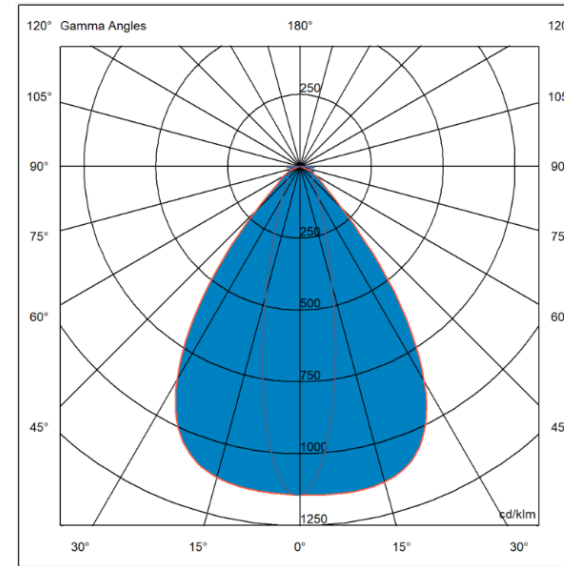
Intensity pattern

LED: Nichia 757
TWx4

UGR ≤19 @ 1000 lumens

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

POLLUX7X1E: Elliptical beam



Compatibility matrix

	NICHIA	SAMSUNG	Nichia	
POLLUX7X1E	2x E21	2x 3030	2x E11	
FWHM (°)	18 x 87	22 x 84		
FTM (°)	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: Nichia E21x2

UGR ≤ 19 @ 1000 lumens

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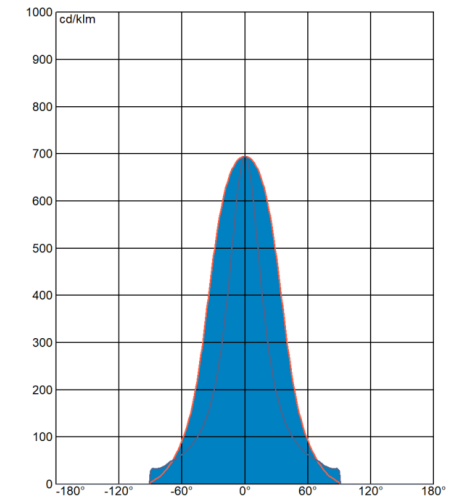
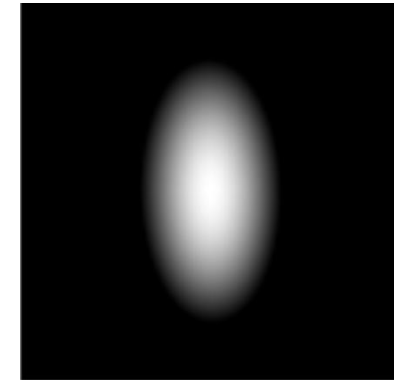
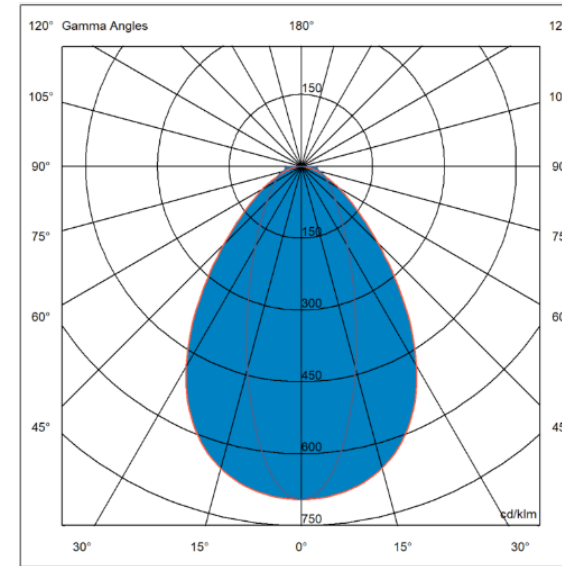
POLLUX7X1ED: Elliptical beam Diffused



Compatibility matrix

	SAMSUNG			
POLLUX7X1ED	2x 2835			
FWHM (°)	73 x 36			
FTM (°)	100 x 92			
Efficacy (cd/lm)	0.8			

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



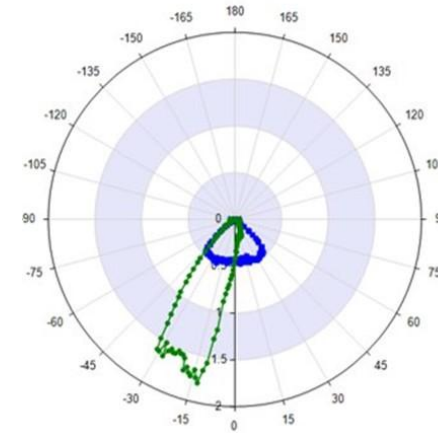
Intensity pattern
LED: Nichia E21x2

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POLLUX7X1AS25: Asymmetric beam

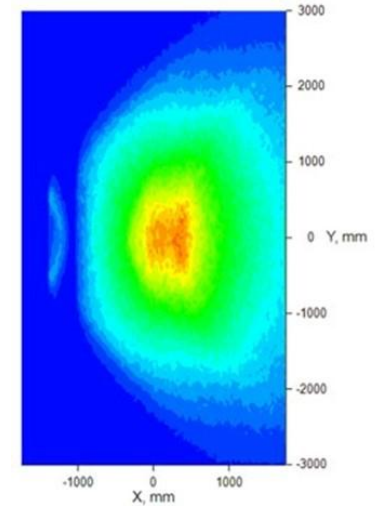


lineaires40_2x3030 farFieldReceiver_155 Intensity Slices
Intensité (cd)



Puissance collectée totale = 1.3833 lm
Efficacité = 0.69163
Intensité maximale = 1.8088 cd

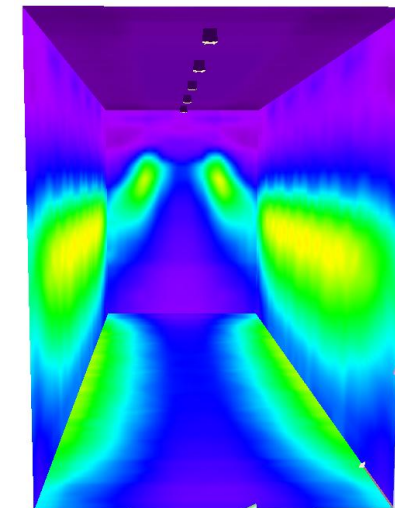
lineaires40_2x3030 25 Receiver_367 Simulation directe
Eclaircissement, Lux



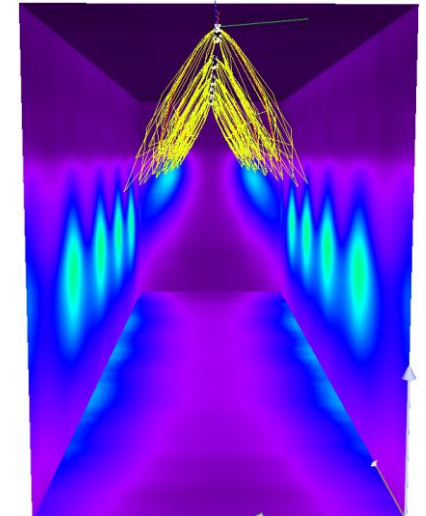
Compatibility matrix

	NICHIA	Nichia	SAMSUNG	NICHIA
POLLUX7X1AS25	2x E21	2x E11	2X LM301B+	2x 757
FWHM (°)	Asym.	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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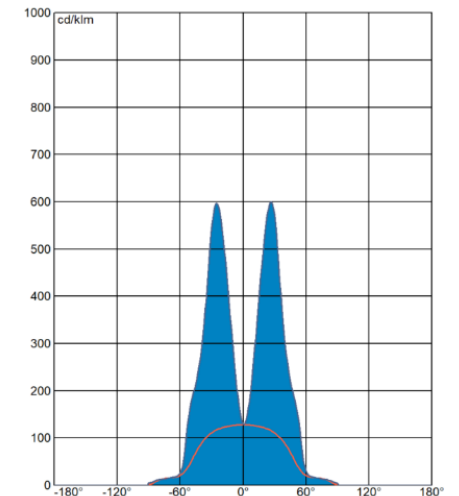
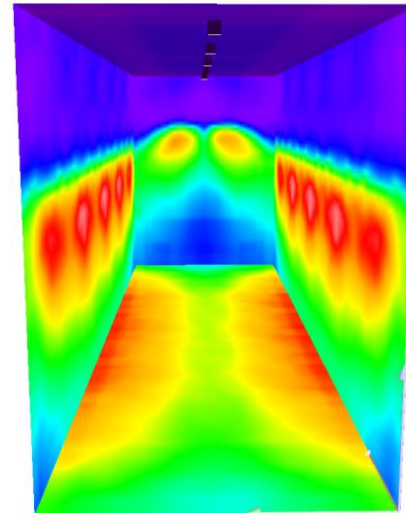
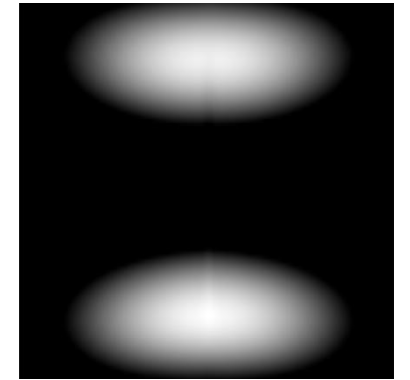
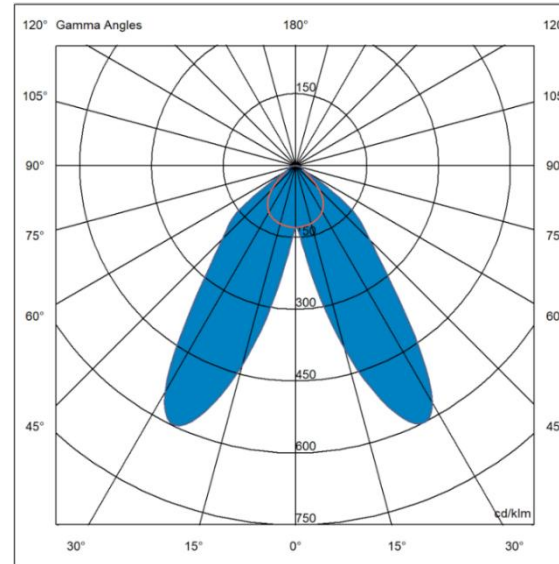
POLLUX7X1DA35: Double Asymmetric beam



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

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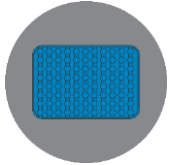
POLLUX7X1: Kit codes (lens + louvre)

Louvre 1 (low profile)	Narrow POLLUX7X1N	Medium POLLUX7X1M	Wide POLLUX7X1W	Large POLLUX7X1L	Very Large POLLUX7X1VL	Very Large Diffused POLLUX7X1VLD	Elliptical POLLUX7X1E	Elliptical Diffused POLLUX7X1ED	Asymmetric POLLUX7X1AS25	Asymmetric Diffused POLLUX7X1AS25	Double Asymmetric POLLUX7X1DA35
White, glossy	KPOLLUX7X1N101	KPOLLUX7X1M101	KPOLLUX7X1W101	KPOLLUX7X1L101	KPOLLUX7X1VL101	KPOLLUX7X1VLD101	KPOLLUX7X1E101	KPOLLUX7X1ED101	KPOLLUX7X1AS25101	KPOLLUX7X1AS25D101	KPOLLUX7X1DA35101
White, matt	KPOLLUX7X1N101M	KPOLLUX7X1M101M	KPOLLUX7X1W101M	KPOLLUX7X1L101M	KPOLLUX7X1VL101M	KPOLLUX7X1VLD101M	KPOLLUX7X1E101M	KPOLLUX7X1ED101M	KPOLLUX7X1AS25101M	KPOLLUX7X1AS25D101M	KPOLLUX7X1DA35101M
Black, glossy	KPOLLUX7X1N102	KPOLLUX7X1M102	KPOLLUX7X1W102	KPOLLUX7X1L102	KPOLLUX7X1VL102	KPOLLUX7X1VLD102	KPOLLUX7X1E102	KPOLLUX7X1ED102	KPOLLUX7X1AS25102	KPOLLUX7X1AS25D102	KPOLLUX7X1DA35102
Black, matt	KPOLLUX7X1N102M	KPOLLUX7X1R102M	KPOLLUX7X1W102M	KPOLLUX7X1L102M	KPOLLUX7X1VL102M	KPOLLUX7X1VLD102M	KPOLLUX7X1E102M	KPOLLUX7X1ED102M	KPOLLUX7X1AS25102M	KPOLLUX7X1AS25D102M	KPOLLUX7X1DA35102M

Louvre 2 (H = 20.5 mm)	Narrow POLLUX7X1N	Medium POLLUX7X1M	Wide POLLUX7X1W	Large POLLUX7X1L	Very Large POLLUX7X1VL	Very Large POLLUX7X1VLD	Elliptical POLLUX7X1E	Elliptical Diffused POLLUX7X1ED	Asymmetric POLLUX7X1AS25	Asymmetric Diffused POLLUX7X1AS25	Double Asymmetric POLLUX7X1DA35
White, glossy	K2POLLUX7X1N101	K2POLLUX7X1M101	K2POLLUX7X1W101	K2POLLUX7X1L101	K2POLLUX7X1VL101	K2POLLUX7X1VLD101	K2POLLUX7X1E101	K2POLLUX7X1ED101	K2POLLUX7X1AS25101	K2POLLUX7X1AS25D101	K2POLLUX7X1DA35101
White, matt	K2POLLUX7X1N101 M	K2POLLUX7X1M101M	K2POLLUX7X1W101M	K2POLLUX7X1L101M	K2POLLUX7X1VL101M	K2POLLUX7X1VLD101M	K2POLLUX7X1E101M	K2POLLUX7X1ED101 M	K2POLLUX7X1AS25101M	K2POLLUX7X1AS25D101 M	K2POLLUX7X1DA35101 M
Black, glossy	K2POLLUX7X1N102	K2POLLUX7X1M102	K2POLLUX7X1W102	K2POLLUX7X1L102	K2POLLUX7X1VL102	K2POLLUX7X1VLD102	K2POLLUX7X1E102	K2POLLUX7X1ED102	K2POLLUX7X1AS25102	K2POLLUX7X1AS25D102	K2POLLUX7X1DA35102
Black, matt	K2POLLUX7X1N102 M	K2POLLUX7X1R102M	K2POLLUX7X1W102M	K2POLLUX7X1L102M	K2POLLUX7X1VL102M	K2POLLUX7X1VLD102M	K2POLLUX7X1E102M	K2POLLUX7X1ED102 M	K2POLLUX7X1AS25102M	K2POLLUX7X1AS25D102 M	K2POLLUX7X1DA35102 M

POLLUX7X1: Packaging

POLLUX7X1

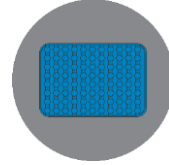


17 thermoformed trays with 12 parts each



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

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