mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LENINA-XW

White version with ${\sim}75^{\circ}$ wide beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
Colour	white
Box size	476 x 273 x 197 mm
Box weight	2 kg
Quantity in Box	60 pcs
ROHS compliant	yes 🛈



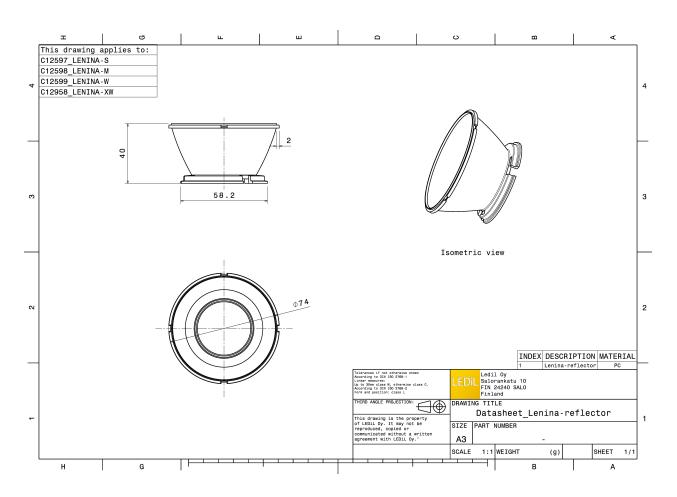
MATERIAL SPECIFICATIONS:

Component LENINA-XW **Type** Reflector Material HRPC Colour

white

Coating







bridgelux.		50*
LED	BXRA ES Rectangle	73'
FWHM	73.0°	60 ¹ 700 60 ¹
Efficiency	84 %	
Peak intensity		
Required comp		
	IA-STD-BASE-BXRA	
C12606_LEN	IINA-DL	\times \times \times
		30° <u>60</u> 35° 35° 15°
bridgelux.		90°
LED	BXRA ES Rectangle	73*
FWHM	74.0°	
Efficiency	89 %	60 ¹ 61 ⁴
Peak intensity	0.610 cd/lm	
Required comp	onents:	es* es*
C12153_LEN	IA-STD-BASE-BXRA	
		30° 600 30°
1		
bridgelux.		20 ¹ 20 ²
bridgelux. LED	BXRA RS	
	BXRA RS 87.0°	
LED		
LED FWHM	87.0° 87 %	
LED FWHM Efficiency	87.0° 87 % 0.539 cd/lm	
LED FWHM Efficiency Peak intensity Required comp	87.0° 87 % 0.539 cd/lm	
LED FWHM Efficiency Peak intensity Required comp	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN bridgetux. LED FWHM	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS 76.0° 91 %	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN bridgetux. LED FWHM Efficiency	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS 76.0° 91 % 0.570 cd/lm	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN bridgetux. LED FWHM Efficiency Peak intensity Required comp	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS 76.0° 91 % 0.570 cd/lm	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN bridgetux. LED FWHM Efficiency Peak intensity Required comp	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS 76.0° 91 % 0.570 cd/lm onents:	
LED FWHM Efficiency Peak intensity Required comp C12229_LEN C12606_LEN bridgetux. LED FWHM Efficiency Peak intensity Required comp	87.0° 87 % 0.539 cd/lm onents: IA-STD-BASE-RS IINA-DL BXRA RS 76.0° 91 % 0.570 cd/lm onents:	



bridgelux.		
LED	V10 Gen6	
FWHM	69.0°	
Efficiency	86 %	
Peak intensity	0.700 cd/lm	
Required comp	onents:	
C13186_LEN	A-STD-BASE-CXA15	
C12606_LEN	INA-DL	
bridgelux.		90 ⁴
LED	Vero SE 29	75*
FWHM	76.0°	
Efficiency	93 %	60*200
Peak intensity	0.600 cd/lm	
Required comp	onents:	42* 42*
C15083_LEN	A-STD-BASE-VERO29	
		30 ⁴ 00 30 ⁴
bridgelux.		90 ⁴
LED	VERO13	731
FWHM	75.0°	
Efficiency	87 %	60* - 200
Peak intensity	0.550 cd/lm	
Required comp	onents:	a.
C13868_LEN	A-STD-BASE-VERO13-18	
C12606_LEN	INA-DL	
		36* 157 8% 157
bridgelux.		90* 90*
LED	VERO13	75
FWHM	76.0°	
Efficiency	91 %	60 ⁴
Peak intensity	0.590 cd/lm	
Required comp	onents:	400 KO
	A-STD-BASE-VERO13-18	
		30.
		15° 0° 35°



bridgelux.		30 ⁴
LED	VERO18	77
FWHM	76.0°	
Efficiency	91 %	200 - ²⁰⁰
Peak intensity	0.580 cd/lm	
Required comp	onents:	₫ ⁶ * (40
C13868_LEN	A-STD-BASE-VERO13-18	
		30 ⁵ 000 30 ⁴
bridgelux.		90 ⁴
LED	VERO18	
FWHM	75.0°	
Efficiency	87 %	9 ¹⁰ - 20 <u>-</u>
Peak intensity	0.540 cd/lm	
Required comp	onents:	₩ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
C13868_LEN	A-STD-BASE-VERO13-18	
C12606_LEN	INA-DL	
		20 20 - 20 - 30.
bridgelux.		95*
LED	VERO29	
FWHM	77.0°	
Efficiency	87 %	9 ¹⁰ 200
Peak intensity	0.520 cd/lm	
Required comp	onents:	σ [,] σ [,]
C13867_LEN	A-STD-BASE-VERO29	
C12606_LEN	INA-DL	
		30° 20° 30°
bridgelux.		N'
LED	VERO29	25
FWHM	77.0°	
Efficiency	91 %	64 ⁴ 200
Peak intensity	0.540 cd/lm	
Required comp	onents:	o, o,
	A-STD-BASE-VERO29	
1		
		yet



CITIZE	Ν	90* 90
LED	CL-L340	73*
FWHM	71.0°	
Efficiency	82 %	60° - 200 - 60
Peak intensity	0.575 cd/lm	
Required comp	oonents:	400 es
C11995_LEI	NA-STD-BASE-CL340	
C12606_LEI	NINA-DL	
CITIZE	N	 20 V 20
LED	CL-L340	70.
FWHM	72.0°	
Efficiency	86 %	60°
Peak intensity	0.619 cd/lm	
Required comp	oonents:	5°
C11995_LEI	NA-STD-BASE-CL340	
		364 560
CITIZE	Ν	90° 90
LED	CLL02x/CLU02x (LES10)	
FWHM	73.0°	78
Efficiency	89 %	eg*
Peak intensity		
Required comp		g. (
	NA-STD-BASE-VERO13-18	
C12606_LE		
Bender Wirth	n: 434 Typ L1	30* 000 36
CITIZE	Ν	90 ⁴ 90
	N CLL02x/CLU02x (LES10)	90° 90 292 72
CITIZE		90 ⁴ 70 ⁻ 72
	CLL02x/CLU02x (LES10)	99° 99 29° 99 200 - 200 - 200
CITIZE LED FWHM	CLL02x/CLU02x (LES10) 75.0° 93 %	9° 99 99 99 99 99 99 99 99 99 99 99 99 9
CITIZE LED FWHM Efficiency	CLL02x/CLU02x (LES10) 75.0° 93 % 0.640 cd/lm	99°
CITIZE LED FWHM Efficiency Peak intensity Required comp	CLL02x/CLU02x (LES10) 75.0° 93 % 0.640 cd/lm	9° 9° 99° 99 20 00 00 0° 40 00 00 0° 00 00 0° 00 00 00 00 000000
CITIZE LED FWHM Efficiency Peak intensity Required comp C13868_LEI	CLL02x/CLU02x (LES10) 75.0° 93 % 0.640 cd/Im ponents:	



CITIZE	N	957
LED FWHM Efficiency Peak intensity Required com	CLL03x/CLU03x 72.0° 88 % 0.610 cd/lm ponents: NA-STD-BASE-CLL030	
CITIZE		
C12606_LE	ponents: NA-STD-BASE-VERO13-18	
CITIZE	N	90°
LED FWHM Efficiency Peak intensity Required com C12691_LE		
CITIZE	N	99 ⁴



CITIZE	N	90* 90*
LED	CLL04x/CLU04x	73'
FWHM	71.0°	
Efficiency	89 %	ex ²
Peak intensity	0.600 cd/lm	
Required comp	onents:	5° (
C12692_LEN	IA-STD-BASE-CLL040	
		30° 50° 50°
CITIZE	N	90* 90*
LED	CLL04x/CLU04x	73*
FWHM	75.0°	
Efficiency	93 %	60* 60*
Peak intensity	0.580 cd/lm	
Required comp	oonents:	434 434
C13867_LEN	IA-STD-BASE-VERO29	
Bender Wirth	i: 431 Typ L3	
		36* 600 30*
CITIZE	N	90 ⁴ 90 ⁴
LED	CLL04x/CLU04x	73*
FWHM	75.0°	
Efficiency	89 %	60° 60°
Peak intensity	0.540 cd/lm	
Required comp	oonents:	434 434
C13867_LEN	IA-STD-BASE-VERO29	
C12606_LEN	IINA-DL	
Bender Wirth	i: 431 Typ L3	30° 30°
CITIZE	N	90*
LED	CLL04x/CLU04x	70 75'
FWHM	73.0°	
Efficiency	81 %	
Peak intensity	0.500 cd/lm	
Required comp	oonents:	or
C12606_LEN	IINA-DL	
A.A.G. STUC	CHI: 8102/G2 + S-8000/12	800



CITIZE	EN	90* 90*
LED	CLL04x/CLU04x	75 75
FWHM	71.0°	
Efficiency	88 %	60* 00*
	v 0.600 cd/lm	
Required com		45 ⁻
C12606_LE	NINA-DL	
IDEAL: 50-2	2204CT + 50-2100LN	
		30° 660 30
CITIZE	EN	90* 90 ¹
LED	CLL04x/CLU04x	
FWHM	74.0°	
Efficiency	84 %	500 60 ⁴
	/ 0.500 cd/lm	
Required com		g
· ·	ICCHI: 8102/G2 + S-8000/12	
		30.
CITIZE	EN	10 10 10
LED	CLL04x/CLU04x	
FWHM	71.0°	
Efficiency	84 %	
	v 0.600 cd/lm	
Required com		
-	NA-STD-BASE-CLL040	
C12606_LE		
CITIZE	EN	30' 30'
LED	CLL04x/CLU04x	75.
FWHM	72.0°	
Efficiency	91 %	601 601
-	v 0.600 cd/lm	
Required com		45° 440
-	2204CT + 50-2100LN	
		15° 0° 35°



PHOTOMETRIC DATA (MEASURED):

CITIZE	2N	90*9
LED	CLU700/701	75'
FWHM	73.0°	
Efficiency	89 %	eo ⁺ / / / / / / / / / / / / / / / / / / /
Peak intensity	0.610 cd/lm	
Required com	ponents:	40° 400
C13868_LE	NA-STD-BASE-VERO13-18	
C12606_LE	NINA-DL	
Bender Wirt	h: 434 Typ L1	30° 22° 0° 12° 3
CITIZE	2N	20 ⁴
LED	CLU700/701	
FWHM	75.0°	20
Efficiency	93 %	60°*
Peak intensity	0.680 cd/lm	
Required com	ponents:	
C13868_LE	NA-STD-BASE-VERO13-18	
Bender Wirt	h: 434 Typ L1	eco
		36% 15, 0% 15, 3
CITIZE	2N	90* 9
LED	CLU710/711	
FWHM	75.0°	
Efficiency	94 %	60 ²
Peak intensity	0.640 cd/lm	
Required com	ponents:	57° 460 *
C12691_LE	NA-STD-BASE-CLL030	
		30~ 3
CITIZE	T	T P
	.IN	90° 91
LED	CLU710/711	33.
LED FWHM		25 ⁻
	CLU710/711	50 ⁴ 9 73 61 20
FWHM Efficiency	CLU710/711 73.0°	59* 9 73* 7 64* 200 6
FWHM Efficiency	CLU710/711 73.0° 90 % 0.590 cd/lm	20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20
FWHM Efficiency Peak intensity Required com	CLU710/711 73.0° 90 % 0.590 cd/lm	59* 9 73* 200 0 64* 200 0 65* 6
FWHM Efficiency Peak intensity Required com	CLU710/711 73.0° 90 % 0.590 cd/lm ponents: NA-STD-BASE-CLL030	9 ⁴ 75 61 70 70 70 70 70 70 70 70 70 70
FWHM Efficiency Peak intensity Required com C12691_LE	CLU710/711 73.0° 90 % 0.590 cd/lm ponents: NA-STD-BASE-CLL030	200

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CITIZE	N	90° 90°
LED FWHM Efficiency Peak intensity Required comp	CLU720/721 73.0° 85 % 0.560 cd/lm ponents: NA-STD-BASE-CLL030	50° - 50° - 7° 60° - 60° 30° - 60° - 7°
CITIZE LED FWHM Efficiency Peak intensity Required comp C12691_LEI	CLU720/721 74.0° 89 % 0.600 cd/lm	
CITIZE LED FWHM Efficiency Peak intensity Required comp C12692_LEI C12606_LEI	CLU730/731 71.0° 84 % 0.570 cd/lm ponents: NA-STD-BASE-CLL040	
CITIZE LED FWHM Efficiency Peak intensity Required comp C12692_LEI	CLU730/731 72.0° 94 % 0.660 cd/lm	



PHOTOMETRIC DATA (MEASURED):

CREE C LED FWHM Efficiency Peak intensity Required com C14146_LE	CMA1840 71.0° 93 % 0.700 cd/lm	
CREE C LED FWHM Efficiency Peak intensity Required com C13186_LE	CXA/B 15xx 70.0° 91 % 0.800 cd/lm	
CREE C LED FWHM Efficiency Peak intensity Required com C13186_LE C12606_LE	CXA/B 15xx 69.0° 86 % 0.700 cd/Im ponents: NA-STD-BASE-CXA15	
C12606_LE	CXA/B 15xx 73.0° 89 % 0.590 cd/lm ponents: NA-STD-BASE-VERO13-18	

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CREE -	▼ ™		90 ⁴
LED	CXA/B 15xx		75
FWHM	75.0°		
Efficiency	93 %		60°
Peak intensity	0.640 cd/lm		
Required comp	ponents:		5° - 400 - 5°.
C13868_LEI	NA-STD-BASE-VERO13-18		
Bender Wirth	n: 441 Typ L1		
			30- 25- 0- 25-
CREE (Ni de la constante de la consta		30 ⁴
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850		73*
FWHM	75.0°		
Efficiency	93 %		60 ²
Peak intensity	0.620 cd/lm		
Required comp	ponents:	ALC: NO.	45 ⁴ 460 454
C13868_LEI	NA-STD-BASE-VERO13-18		
Bender Wirth	n: 437 Typ L1		
			30° 50° 30° 30°
CREE	14		
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850		
FWHM	73.0°		
Efficiency	94 %		
Peak intensity	0.790 cd/lm		
Required comp	oonents:		
C14146_LEI	NA-STD-BASE-CXA18		
CREE -	14		
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850		
FWHM	73.0°		
Efficiency	94 %		
Peak intensity	0.790 cd/lm		
Required comp	ponents:		
C14146_LEI	NA-STD-BASE-CXA18		
C12606_LEI	NINA-DL		



PHOTOMETRIC DATA (MEASURED):

CREE		A REAL PROPERTY AND A REAL	90° 90°
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850		75.
FWHM	74.0°		
Efficiency	89 %		60* <u>200</u>
Peak intensit	y 0.590 cd/lm		
Required con	nponents:		400 - 400
C13868_LE	ENA-STD-BASE-VERO13-18		
C12606_LE	ENINA-DL		
Bender Wir	rth: 437 Typ L1		30° 500 36° 36°
CREE			50° 50°
LED	CXA/B 1830		75.
FWHM	74.0°		
Efficiency	89 %		60°
Peak intensit	y 0.570 cd/lm		
Required con	nponents:	the second se	ar de la companya de
C13868_LE	ENA-STD-BASE-VERO13-18		
C12606_LE	ENINA-DL		
Bender Wir	rth: 437 Typ L1		30° <u>600</u> 30°
CREE	▲ ▼.		50* 50*
LED	CXA/B 1830		75*
FWHM	75.0°	and the second se	
Efficiency	94 %		egt
Peak intensit	y 0.600 cd/lm		
Required con	nponents:	and the second se	457 440 453
C13868_LE	ENA-STD-BASE-VERO13-18		
Bender Wir	rth: 437 Typ L1		
			30° 0° 35'
CREE			90 ⁴
LED	CXA/B 25xx		735
FWHM	70.0°		
Efficiency	89 %		60 ⁺
	y 0.700 cd/lm		
Required con			434 400 433
	ENA-STD-BASE-CXA25		
			30°
			15° 0° 15°

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CREE (ⁿ	50* 50*
LED	CXA/B 25xx	751
FWHM	70.0°	
Efficiency	84 %	200 64*
Peak intensity	0.600 cd/lm	
Required comp	onents:	400 X 400
C13324_LEN	IA-STD-BASE-CXA25	
C12606_LEN	IINA-DL	
		36°
CREE (N	50°
LED	CXA/B 30xx	75-
FWHM	72.0°	
Efficiency	91 %	50 ⁴
Peak intensity	0.600 cd/lm	
Required comp	onents:	450 GT
IDEAL: 50-2	234C + 50-2100LN	
		30° (15° 0° 15°
CREE 4	n	90° 90°
LED	CXA/B 30xx	73.
FWHM	77.0°	
Efficiency	87 %	60* 60*
Peak intensity	0.600 cd/lm	
Required comp	onents:	- 5°
C12606_LEN	IINA-DL	
IDEAL: 50-22	234C + 50-2100LN	
		30° 600 15° 30°
CREE (• •	50*
LED		
	CXA2011	75'
FWHM	CXA2011 70.0°	73
FWHM Efficiency		25 - 25 - 55 60
	70.0° 82 %	60°
Efficiency	70.0° 82 % 0.600 cd/lm	20
Efficiency Peak intensity Required comp	70.0° 82 % 0.600 cd/lm	2 ³
Efficiency Peak intensity Required comp	70.0° 82 % 0.600 cd/lm onents: IA-STD-BASE-CXA20	20 - 20 - 20 gt gt dt dt dt dt dt dt dt dt dt d
Efficiency Peak intensity Required comp C12105_LEN	70.0° 82 % 0.600 cd/lm onents: IA-STD-BASE-CXA20	20 - 20 - 6° c 60 6° 3°



ſ			
CREE LED FWHM Efficiency Peak intensity Required comp C12105_LEN	CXA2011 72.0° 87 % 0.700 cd/lm		200 52 61 61 50 50 50 50 50 50 50 50 50 50
LED FWHM Efficiency Peak intensity Required comp C13867_LEN C12606_LEN Bender Wirth	onents: IA-STD-BASE-VERO29 IINA-DL		
LED FWHM Efficiency Peak intensity Required comp	CHI3030 29W 75.0° 90 % 0.520 cd/lm ponents: IA-STD-BASE-VERO29 IINA-DL		
W LUMIL LED FWHM Efficiency Peak intensity Required comp C13868_LEN Bender Wirth	LUXEON CoB 1202/1203 76.0° 93 % 0.630 cd/lm onents: NA-STD-BASE-VERO13-18		20° 20° 21° 21° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20



UMIL	EDS	50° 50°
LED	LUXEON CoB 1202/1203	31
FWHM	74.0°	
Efficiency	89 %	97 - 200 - 97 - 97 - 97 - 97 - 97 - 97 - 97 -
Peak intensity	0.590 cd/lm	
Required comp	onents:	9°
C13868_LEN	IA-STD-BASE-VERO13-18	
C12606_LEN		
Bender Wirth	: 438 Typ L1	30° 50° 50°
UMIL	EDS	90°
LED	LUXEON CoB 1204/1205	37
FWHM	71.0°	
Efficiency	86 %	
Peak intensity	0.600 cd/lm	
Required comp		¢*
	IA-STD-BASE-MEZ	
C12606_LEN	IINA-DL	
		30° 50° 50°
UMIL	EDS	39° 397
LED	LUXEON CoB 1204/1205	77
FWHM	73.0°	
Efficiency	90 %	60°
Peak intensity	0.600 cd/lm	
Required comp	onents:	· · · · · · · · · · · · · · · · · · ·
C12292_LEN	IA-STD-BASE-MEZ	
		40
		34° 25° 27°
	EDS EDS	**
LED	LUXEON CoB 1205HD	
FWHM	74.0°	
Efficiency	94 %	er.
Peak intensity	0.670 cd/lm	
Required comp		· · · · · · · · · · · · · · · · · · ·
C11981_LEN	IA-STD-BASE-COB-L110	
		60
		30° - 25° - 0° - 30°
1		



LUMIL LED FWHM Efficiency Peak intensity Required comp C12292_LEt	LUXEON CoB 1208 73.0° 91 % 0.600 cd/lm	
UMIL	EDS	90° 90°
LED FWHM Efficiency Peak intensity Required comp	LUXEON CoB 1208 72.0° 86 % 0.600 cd/lm ponents: NA-STD-BASE-MEZ	20 - 20
	EDS	90° 90°
LED FWHM Efficiency Peak intensity Required comp C13867_LEN	LUXEON CoB 1211 76.0° 93 % 0.600 cd/lm	20 ⁴ 00 ⁴ 22 ⁴ 20 ⁴
🤭 LUMIL	EDS	90* 90*
C12606_LEN	oonents: NA-STD-BASE-VERO29	



	FDC	7
CUMIL LED FWHM Efficiency Peak intensity Required comp A.A.G. STUC	LUXEON CoB 1216/1812 74.0° 88 % 0.560 cd/lm	
	EDS	90 ⁶ 99
LED FWHM Efficiency Peak intensity Required comp	LUXEON CoB 1216/1812 72.0° 90 % 0.590 cd/lm ponents: NA-STD-BASE-CLL040	75
	EDS	90° 99
LED FWHM Efficiency Peak intensity Required comp	LUXEON CoB 1216/1812 73.0° 94 % 0.620 cd/lm	75 - 250 - 60 67 - 660 - 60 79 - 60 - 60 80 - 70 80 - 70 80 80 - 70 80 80 - 70 80 80 80 80 80 - 70 80 80 80 80
UMIL	EDS	90 ⁴
LED FWHM Efficiency Peak intensity Required comp C12606_LEN A.A.G. STUC	oonents:	27 27 27 27 270 200 200 200 200



	.EDS	50° 59
LED FWHM Efficiency Peak intensity Required comp	LUXEON K12 72.0° 90 % 0.700 cd/lm	
	.EDS	50 ⁶ 90
LED FWHM Efficiency Peak intensity Required comp	LUXEON K12 68.0° 83 % 0.600 cd/lm ponents: NA-STD-BASE-LUXEON-K	
	EDS	90* 99
LED FWHM Efficiency Peak intensity Required comp	LUXEON K16 68.0° 80 % 0.600 cd/lm ponents: NA-STD-BASE-LUXEON-K	
	.EDS	90* 90
LED FWHM Efficiency Peak intensity Required comp C12924_LEI		



(C LUM	INUS		50°
LED	CDM-14 (Dim-To-Warm)		75 75
FWHM	75.0°		
Efficiency	89 %		69 ⁴ - 209 - 69 ⁴
Peak intensity	0.550 cd/lm		
Required comp	oonents:		an ca
C13868_LEN	NA-STD-BASE-VERO13-18		
C12606_LEN	NINA-DL		
Bender Wirth	n: 491 Typ L2		364 359 369 359
	INUS		30° 30°
LED	CDM-14 (Dim-To-Warm)		75
FWHM	77.0°		
Efficiency	93 %		60°-
Peak intensity	0.590 cd/lm		
Required comp	oonents:		ar 400
C13868_LEN	NA-STD-BASE-VERO13-18		
Bender Wirth	n: 491 Typ L2		
			30- 200 34-
	INUS		90° 90°
LED	CDM-18 (Dim-To-Warm)		73-
FWHM	75.0°		
Efficiency	89 %		69° - 200 - 60°
Peak intensity	0.500 cd/lm		
Required comp	ponents:		97°
	NA-STD-BASE-VERO13-18		
C12606_LEN			
Bender Wirth	n: 491 Typ L2		304 309 300
ELUM	INUS		90 ⁴ 90 ⁴
LED	CDM-18 (Dim-To-Warm)		78.
FWHM	76.0°		
Efficiency	93 %		60 ⁴ 00 ⁴
Peak intensity	0.570 cd/lm	and the second	
Required comp	ponents:		
C13868_LEN	NA-STD-BASE-VERO13-18		
Bender Wirth	n: 491 Typ L2		
			362 660 305
			15° 0° 35°



() LUM	IINUS		90 ⁴ 99
LED	CDM-9 (Dim-To-Warm)		75*
FWHM	76.0°		
Efficiency	92 %		••••
Peak intensity	/ 0.610 cd/lm		
Required com	ponents:		er
C13868_LE	NA-STD-BASE-VERO13-18		
Bender Wir	th: 490 Typ L1		
			30° 600 30° 30° 30° 30° 30° 30° 30° 30° 30° 3
	IINUS		90*
LED	CDM-9 (Dim-To-Warm)		75-
FWHM	74.0°		
Efficiency	88 %		60 ⁵⁻
Peak intensity	/ 0.560 cd/lm		
Required com		and the second se	a. (
C13868_LE	NA-STD-BASE-VERO13-18		
Bender Wir	th: 490 Typ L1		
			36 ¹⁶ 25 ³ 6 ⁶⁰ 35 ³
() LUM	IINUS		90*
LED	CTM-14 (Tunable White)		75*
FWHM	76.0°		
Efficiency	87 %		50° - 200 - 60
Peak intensity	/ 0.510 cd/lm		
Required com	ponents:		a. I a a a a a a a a a a a a a a a a a a
C13867_LE	NA-STD-BASE-VERO29		
C12606_LE	NINA-DL		
Bender Wir	th: 442 Typ L3		304 125 0 ⁴ 15 ⁴
	IINUS		50 ⁴
LED	CTM-14 (Tunable White)		75
FWHM	77.0°		
Efficiency	92 %		50° 6
Peak intensity	/ 0.550 cd/lm	and the second	
Required com	ponents:		
C13867_LE	NA-STD-BASE-VERO29		
Bender Wir	th: 442 Typ L3		
			305
			15° 80° 35°



ELUM	INUS		90* 90
LED	CTM-22 (Tunable White)		75"
FWHM	77.0°		
Efficiency	88 %		60°
Peak intensity	0.500 cd/lm		
Required comp	ponents:		er es
C13867_LEN	NA-STD-BASE-VERO29		40
C12606_LEN	NINA-DL		
Bender Wirth	n: 494 Typ L3		30° 15° 0° 15° 30
	INUS		90* 90
LED	CTM-22 (Tunable White)		75'
FWHM	78.0°		
Efficiency	92 %		60° 60
Peak intensity	0.500 cd/lm		
Required comp	ponents:		
C13867_LEN	NA-STD-BASE-VERO29		
Bender Wirth	n: 494 Typ L3		
			36 ⁶ 15 ⁶ 0 ⁶ 15 ⁵ 30
ELUM	INUS		80* 90
LED	CXM-14		75*
FWHM	73.0°		
Efficiency	91 %		
Peak intensity	0.620 cd/lm		
Required comp	ponents:		400 400
	NA-STD-BASE-CLL030		
C12606_LEN	NINA-DL		
			30° 15° 0° 15°
	INUS		90 ⁺ 90
LED	CXM-14		25"
FWHM	74.0°		
Efficiency	94 %		60*
Peak intensity	0.650 cd/lm		
Required comp	oonents:		45° 440 45
C12691_LEN	NA-STD-BASE-CLL030		
			30°
			15° 0° 15°



E LUM	INUS	
LED	CXM-22	
FWHM	73.0°	
Efficiency	91 %	
Peak intensity	0.600 cd/lm	
Required com	ponents:	
C12692_LEI	NA-STD-BASE-CLL040	-
C12606_LEI	NINA-DL	
() LUM	INUS	
LED	CXM-22	
FWHM	73.0°	
Efficiency	94 %	
Peak intensity		
Required com		
	NA-STD-BASE-CLL040	-
		90°
LED	COB J-Type	75'
FWHM	74.0°	60 ¹ 200
Efficiency	89 %	
Peak intensity Required comp		gr a
	NA-STD-BASE-VERO13-18	
C13606_LEI		
	n: 463 Typ L2	30° 00 00 30
ØNICHI/	N Contraction of the second se	90 ³
LED	COB J-Type	75*
FWHM	73.0°	
Efficiency	89 %	60 ⁰
Peak intensity	0.620 cd/lm	
Required comp	ponents:	42 ⁴
C12292 LEI	NA-STD-BASE-MEZ	
_		



		
ØNICHI		90° 90
LED	COB J-Type	75
FWHM	76.0°	
Efficiency	94 %	60 C C C C C C C C C C C C C C C C C C C
Peak intensity	0.610 cd/lm	
Required comp	ponents:	47 440
C13868_LEN	NA-STD-BASE-VERO13-18	
Bender Wirth	n: 463 Typ L2	
		30° 500 30
		301 50
LED	COB J-Type	77:
FWHM	72.0°	
Efficiency	84 %	60 [*]
Peak intensity	0.580 cd/lm	
Required comp	oonents:	
C12292_LEN	NA-STD-BASE-MEZ	
C12606_LEN	NINA-DL	\rightarrow \times \times \times
		30* <u>660</u> 30
ØNICHI		90° 90
LED	COB L-Type (LES 11)	75*
FWHM	73.0°	
Efficiency	89 %	E0 ⁴
Peak intensity	0.580 cd/lm	
Required comp	oonents:	or the second seco
C13868_LEN	NA-STD-BASE-VERO13-18	
C12606_LEN	NINA-DL	
Bender Wirth	n: 438 Typ L1	30 ⁴ 600 30
ØNICHI/		30 ⁺ 90
LED	COB L-Type (LES 11)	25
FWHM	75.0°	
Efficiency	93 %	60° 60°
Peak intensity	0.630 cd/lm	
Required comp	ponents:	gr 40
C13868_LEN	NA-STD-BASE-VERO13-18	
Bender Wirth	n: 438 Typ L1	
		304
		15° 0° 15°