

PRODUCT DATASHEET FCP13895_SEANNA-A

SEANNA-A

~2.3° spot beam. Assembly with holder.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 155.2 mm
Height	82 mm
Fastening	pin, screw
ROHS compliant	yes 🛈



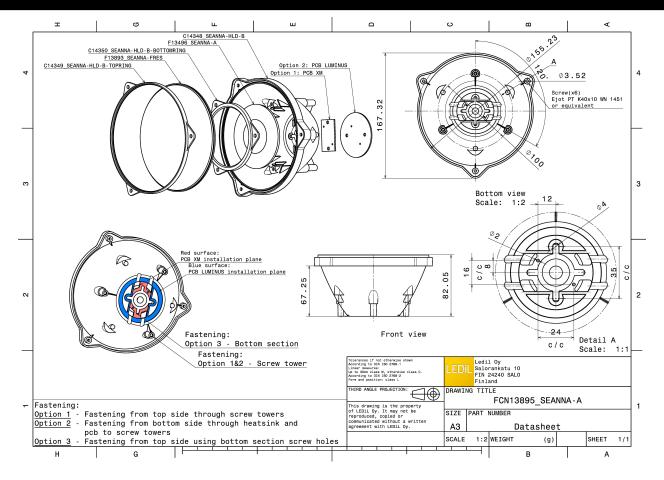
MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
SEANNA-A	Single lens	PMMA	clear	
SEANNA-FRES	Single lens	PMMA	clear	
SEANNA-HLD-B	Holder	PA66GF30	black	
SEANNA-HLD-B-TOPRING	Holder	PA66GF30	black	
SEANNA-HLD-B-BOTTOMRING	Holder	PA66GF30	black	
SEANNA-SCREW	Accessory	Stainless steel	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCP13895_SEANNA-A » Box size:	Single lens		20	2	6.5

PRODUCT DATASHEET FCP13895_SEANNA-A



See also our general installation guide: www.ledil.com/installation_guide



PHOTOMETRIC DATA (MEASURED):

CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	XD16 1.0° 91 % 629 cd/lm 1 White	30° 30° 37° 60° 40° 60° 50° 60° 60° 60° 60° 60° 60° 60° 6
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	XP-E2 1.0° % 718 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	XP-L HD 2.4° 94 % 255 cd/lm 1 White	27 Ho 27 Ho 29 Ho 10 Kg 10
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	XP-L HI 1.6° 94 % 492 cd/lm 1 White	20 ⁻ 20



PHOTOMETRIC DATA (MEASURED):

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Μ ΝΙCΗΙΛ		90* 90*
LED	NVSW3x9A	
FWHM	1.9°	
Efficiency	92 %	60° 60°
Peak intensity	310 cd/lm	$\mathbb{N} / \mathbb{N} / \mathbb{N} $
LEDs/each optic		
	White	es. es.
Required compon	ents:	
		30* 3000 300
OSRAM		1 20 ⁵ , V ^c 20 ⁶
Opto Semiconductors		90* 90*
LED	OSLON Black Flat	75*
FWHM	1.2°	
Efficiency	94 %	60 ⁵ 60 ⁹
Peak intensity	1196 cd/lm	
LEDs/each optic		
0	White	60° 40°
Required compon	ents:	
		36° 122880 36° 36°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM	1.5°	75'
Efficiency	94 %	
Peak intensity	587 cd/lm	60° - 200000 - 60°
LEDs/each optic		\times / / \times
Light colour	White	gr at
Required compon	ents:	409600
		\times / \setminus \times
		30* 614200 30*
		15° 0° 15°



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	MK-R 4.0° 91 % 82 cd/lm 1 White ts:	94 ³ 95 ³ 95 ⁴ 95 ⁴ 9
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XB-D 1.3° 87 % 698 cd/lm 1 White ts:	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XHP35 HD 2.4° 89 % 257 cd/lm 1 White ts:	Jak 10 ¹ 0 ¹ 10 ² Xi
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XHP35 HI 1.6° 83 % 496 cd/lm 1 White ts:	94 ⁴ 95 97 98 99 99 99 99 99 90 90 90 90 90



CREE LED FWHM Efficiency Peak intensity	XHP50 3.3° 87 % 122 cd/lm	9 ¹ 77 78 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9
LEDs/each optic	1	$Z \times I \land X \land$
Light colour	White	45° 7800 °
Required componer	ItS:	
		30° 128000 3
CREE 🔶		99 ⁴
LED	XHP50.2	
FWHM	2.7°	
Efficiency	84 %	60 ⁵ 6
Peak intensity	128.7 cd/im	5200
LEDs/each optic	1	
Light colour	White	43*
Required componer	ts:	
		08201
		-30"
		15° 0° 15°
CREE ≑		90°
LED	XHP70	
FWHM	4.3°	75.
Efficiency	81 %	
Peak intensity	69.9 cd/lm	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LEDs/each optic	1	
Light colour	White	
Required componer		
	ts:	
	ts:	
	ts:	
	ıts:	
	ıts:	30° 15° 0° 5° 3
	its:	30° 127 0° 125 3
CREE ≑		30° 9
LED	ХНР70.2	20 ⁻ 10 ⁻ 0 ⁻ 10 ⁻ 2
LED FWHM	XHP70.2 4.5°	30°
LED FWHM Efficiency	XHP70.2 4.5° 83 %	500 500 500 50 50 50 50 50 50 5
LED FWHM Efficiency Peak intensity	XHP70.2 4.5° 83 % 71.6 cd/lm	80* 300 0 35* 0 30* 12* 0* 12* 0
LED FWHM Efficiency Peak intensity LEDs/each optic	XHP70.2 4.5° 83 % 71.6 cd/lm 1	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	XHP70.2 4.5° 83 % 71.6 cd/lm 1 White	001 001 001 001 001 001 001 001 001 001 001 001 001 001 001
LED FWHM Efficiency Peak intensity LEDs/each optic	XHP70.2 4.5° 83 % 71.6 cd/lm 1 White	50° 50° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	XHP70.2 4.5° 83 % 71.6 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	XHP70.2 4.5° 83 % 71.6 cd/lm 1 White	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	XHP70.2 4.5° 83 % 71.6 cd/lm 1 White	



CREE ≑		a*	90°
	XM-L		~
LED		73.	75*
FWHM	2.4°		
Efficiency	% 270 c.1/hz	50° 10000	60°
Peak intensity	272 cd/lm		
LEDs/each optic	1		X
Light colour	White		4
Required componer	its:	201300	
		30° 15° 0° 15°	30.
CREE 🔶		90 ⁴	008
	VM LO		90*
LED	XM-L2	75*	- 25*
FWHM	2.0°		
Efficiency	85 %	60° 100,00	60*
Peak intensity	275 cd/lm		
LEDs/each optic	1	$X / / \rangle \rangle$	\times
Light colour	White		t,
Required componer	its:	20100	
			\geq
		300 100 100	36.
CREE ≑		90*	90°
LED	XP-E	50 ⁴	90°
LED FWHM	1.2°	5° 75	90* 75*
LED FWHM Efficiency	1.2° 92 %	6°	90° 75° 60°
LED FWHM Efficiency Peak intensity	1.2°	64 22 24 24	90° 75° 60°
LED FWHM Efficiency Peak intensity LEDs/each optic	1.2° 92 % 955 cd/lm 1	50* 75 50*00 60* 60*00	90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White	5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6	90° 75° 60°
LED FWHM Efficiency Peak intensity LEDs/each optic	1.2° 92 % 955 cd/lm 1 White	5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6	90° 75° 60°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White	50 ¹ 75 60 ¹ 67 67 67 67 67 67 67 67 67 67 67 67 67	90* 75* 60*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White	5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°	62. 60. 22.
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White	5° 02600 6° 02600 6° 02600	90° 75° 60° 63°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	1.2° 92 % 955 cd/lm 1 White	2 ³ 2 ³	3(*, 62, 52, 50,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	1.2° 92 % 955 cd/lm 1 White hts:	5° 02600 6° 02600 6° 02600	95°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	1.2° 92 % 955 cd/lm 1 White hts:	20 20 20 21 10000 72 22 10000 72 24 10000 72	99°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0°	5° 02600 6° 02600 6° 02600	90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM Efficiency	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 %	20 20 20 21 100000 72 22 100000 72 24 100000 72	90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM Efficiency Peak intensity	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm	20 20 20 21 100000 72 22 100000 72 24 100000 72	90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1	20 20 20 21 100000 72 22 100000 72 24 100000 72	80°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1 Blue	20 20 20 21 100000 72 22 100000 72 24 100000 72	90*
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1 Blue	20 20 20 21 100000 72 22 100000 72 24 100000 72	80°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1 Blue	20 20 20 21 100000 72 22 100000 72 24 100000 72	80°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1 Blue	20 20 20 21 100000 72 22 100000 72 24 100000 72	90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM Efficiency Peak intensity LEDs/each optic Light colour	1.2° 92 % 955 cd/lm 1 White hts: XP-E2 2.0° 85 % 211.5 cd/lm 1 Blue	20 20 20 21 100000 72 22 100000 72 24 100000 72	90°



ED XP-G WHM 14* Hitchancy 90% Peak Intensity 578 cd/m LEDsteach optic 1 ight colour White Required components: CREE Required components: CREE ED XD-E HD WHM 1.4* Efficiency 91% Required components: CREE LED XO-E HD WHM 1.1* Efficiency 92% Peak Intensity 1460 cd/m LEDsteach optic 1 ight colour White Required components: CREE LED XO-E HD WHM 1.1* Efficiency 92% Peak Intensity 1460 cd/m LEDsteach optic 1 ight colour White Required components: CREE LED XO-E HD WHM 1.1* Efficiency 92% Peak Intensity 1460 cd/m LEDsteach optic 1 ight colour White Required components: CREE LED XO-E HD WHM 1.1* Efficiency 92% Peak Intensity 1460 cd/m LEDsteach optic 1 ight colour White Required components: CREE LED XO-E HI WHM 1.2* HIGHON White Required components: CREE LED XO-E HI HI HI HI HI HI HI HI HI HI	CREE ≑		50* 50*
WHM 1.4° findiancy 90 % #eak intensity 578 cd/m EDS/each optic 1 Light colour White Required components: ************************************	LED	XP-G	
findiency 90% Peak intensity 578 collm LEDviewch optic 1 ight colour White Required components: ED XP-G2 WHM 1.4° Findiancy 928 collm LEDviewch optic 1 ight colour White Required components: ED XO-E HD WHM 1.1° Findiancy 92% Peak intensity 12% Peak intensity 628 collm LEDviewch optic 1 ight colour White Required components: ED XO-E HD WHM 1.1° Findiancy 92% Peak intensity 1.2° Findiancy 92% Peak in			77
Peak intensity 578 cd/m EDS/each optic 1 ight colour White Required components: CREE LED XP-G2 WHM 1.4° Efficiency 91% Peak intensity 528 cd/m EDS/each optic 1 ight colour White Required components: CREE EEC XO-E HD WHM 1.1° Efficiency 92% Peak intensity 1460 cd/m EDS/each optic 1 ight colour White Required components: ECCEE ECC XO-E HI EDS/each optic 1 ight colour White Required components: ECCEE ECC XO-E HI EDS/each optic 1 ight colour White Required components: ECCEE ECC XO-E HI Stridency 90% Peak intensity 1300 cd/m EDS/each optic 1 ight colour White			
EDBreach optic 1 ight colour White Required components: ED XP-G2 WHM 1.4* Efficiency 91% Preak intensity 628 colfin EDSreach optic 1 ight colour White Required components: ED XO-E HD WHM 1.1* Efficiency 92% Preak intensity 1460 colfin EDSreach optic 1 ight colour White Required components: ED XO-E HD WHM 1.1* Efficiency 92% Preak intensity 1460 colfin EDSreach optic 1 EDSreach optic			60* 20* 62*
ight colour White Required components: CREE ← ED XP-G2 WHM 1.4* Hitciancy 91% Paak intensity 628 cd/lm .EDs/each optic 1 .ight colour White Required components: CREE ← LED XQ-E HD WHM 1.1* Hitciancy 92% Paak intensity 1460 cd/lm .EDs/each optic 1 .ight colour White Required components: CREE ← ED XQ-E HI .EDs/each optic 1 .ight colour White Required components: CREE ← ED XQ-E HI .EDs/each optic 1 .ight colour White Required components: ED XQ-E HI .EDs/each optic 1 .ight colour White			
Required components: ED XP-G2 WHM 1.4* Filiciency 91 % Peak intensity 628 cd/lm EDS/each optic 1 ight colour White Required components: ED XQ-E HD WHM 1.1* Filiciency 92 % Peak intensity 1460 cd/lm EDS/each optic 1 ight colour White Required components: ED XQ-E HD WHM 1.1* Filiciency 92 % Peak intensity 1460 cd/lm EDS/each optic 1 ight colour White Required components: ED XQ-E HI Strictiency 93 % Peak intensity 1300 cd/lm EDS/each optic 1 ight colour White Required components: ED XQ-E HI Strictiency 93 % Peak intensity 1300 cd/lm EDS/each optic 1 ight colour White NHM 1.2* Filiciency 93 % Peak intensity 1300 cd/lm EDS/each optic 1 ight colour White			
CREE \$ LED XP-G2 WHM 1.4* Efficiency 91% Peak intensity 628 cd/lm EDS/each optic 1 Light colour White Required components: CREE \$ LED XQ-E HD WHM 1.1* Efficiency 92% Peak intensity 1460 cd/lm EDS/each optic 1 Light colour White Required components: CREE \$ LED XQ-E HD WHM 1.1* Efficiency 92% Peak intensity 1460 cd/lm EDS/each optic 1 Light colour White Required components:			
CREE \$ ED XP-G2 WHM 1.4° Efficiency 91 % Peak intensity 628 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components:	Required componer	115.	
CREE \$ ED XP-G2 WHM 1.4° Efficiency 91 % Peak intensity 628 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components:			
CREE \$ ED XP-G2 WHM 1.4° Efficiency 91 % Peak intensity 628 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components: CREE \$ ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 col/m EDS/each optic 1 ight colour White Required components:			
ED XP-G2 WHM 1.4° Filciency 91 % Peak intensity 628 cd/lm EDs/each optic 1 .ight colour White Required components: Image: Component State St			30° 15° 64680 15°
ED XP-G2 WHM 1.4° Filciency 91 % Peak intensity 628 cd/lm EDs/each optic 1 .ight colour White Required components: Image: Component State St			50* 30*
WHM 1.4° Efficiency 91 % Peak intensity 628 cd/lm LEDs/each optic 1 ght colour White Required components:		XP-G2	
Efficiency 91 % Peak intensity 628 cd/lm LEDs/each optic 1 ight colour White Required components: CREE LED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm LEDs/each optic 1 ight colour White Required components: CREE EED XQ-E HI SWHM 1.2° ED XQ-E HI SWHM 1.2° ED XQ-E HI SWHM 1.2° ED XQ-E HI SWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 SWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 SWHM 1.2°			75
Peak intensity 628 cd/lm LEDs/each optic 1 .ight colour White Required components: ED XQ-E HD WHM 1.1° Efficiency 92% Peak intensity 1460 cd/lm LEDs/each optic 1 .ight colour White Required components: ED XQ-E HI WHM 1.2° Efficiency 90% Peak intensity 1300 cd/lm LEDs/each optic 1 .ight colour White			
LEDs/each optic 1 Light colour White Required components: ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm LEDs/each optic 1 Light colour White Required components: ED XQ-E HI WHM 1.2° Efficiency 92 % Peak intensity 1460 cd/lm LEDs/each optic 1 Light colour White Required components: ED XQ-E HI WHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 WHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 WHite			6/* 2000
ight colour White Required components: CREE € ED XQ-E HD WHM 1.1° Filiciency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 ight colour White Required components: ED XQ-E HI WHM 1.2° Filiciency 90 % Peak intensity 1300 cd/lm EDs/each optic 1 ight colour White			
Required components: ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/m EDs/each optic 1 ight colour White Required components: ED XQ-E HI WHM 1.2° Efficiency 90 % Peak intensity 1300 cd/m EDs/each optic 1 ight colour White			₹ ⁴ 6 ⁵
CREE ED XQ-E HD WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/m .EDs/each optic 1 .ight colour White Required components: CREE ED XQ-E HI WHM 1.2° Efficiency 90 % Peak intensity 1300 cd/m .EDs/each optic 1 			60 10
ED XQ-E HD "WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 Light colour White Required components: Image: Second Seco	Required componer	115.	
ED XQ-E HD "WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 Light colour White Required components: Image: Second Seco			\times / \times /
ED XQ-E HD "WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 Light colour White Required components: Image: Second Seco			654600
ED XQ-E HD "WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 Light colour White Required components: Image: Second Seco			30° 15° 0° 15°
ED XQ-E HD "WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm EDs/each optic 1 Light colour White Required components: Image: Second Seco			50' 80'
WHM 1.1° Efficiency 92 % Peak intensity 1460 cd/lm LEDs/each optic 1 .ight colour White Required components: Image: CREE Im			
Efficiency 92 % Peak intensity 1460 cd/lm LEDs/each optic 1 Light colour White Required components: CREE ED XQ-E HI WHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 LEDs/each optic 1 Light colour White			787
Peak intensity 1460 cd/lm LEDs/each optic 1 Light colour White Required components: Image: CREE Image			
LEDs/each optic 1 Light colour White Required components: Image: Creece state			6/*
Light colour White Required components: CREE LED XQ-E HI SWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/m LEDs/each optic 1 Light colour White			
Required components: CREE LED XQ-E HI EWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 Light colour White			10 ^{°°} 81200 65°
CREE LED XQ-E HI FWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 Light colour White			
EDXQ-E HIFWHM1.2°Efficiency90 %Peak intensity1300 cd/ImLEDs/each optic1Light colourWhite	Required componer	115.	
EDXQ-E HIFWHM1.2°Efficiency90 %Peak intensity1300 cd/ImLEDs/each optic1Light colourWhite			122/00/
EDXQ-E HIFWHM1.2°Efficiency90 %Peak intensity1300 cd/ImLEDs/each optic1Light colourWhite			\times / \setminus \times
EDXQ-E HIFWHM1.2°Efficiency90 %Peak intensity1300 cd/ImLEDs/each optic1Light colourWhite			30 ⁴ 35 ⁴ 36 ⁴
EDXQ-E HIFWHM1.2°Efficiency90 %Peak intensity1300 cd/ImLEDs/each optic1Light colourWhite	CREE 🔶		
FWHM 1.2° Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 Light colour White		XQ-E HI	
Efficiency 90 % Peak intensity 1300 cd/lm LEDs/each optic 1 Light colour White			
Peak intensity 1300 cd/lm LEDs/each optic 1 Light colour White			
EDs/each optic 1 Light colour White			
light colour White			
		no.	



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E 1.4° 88 % 519 cd/lm 1 White ss:	22 ⁴ 61600 72 ⁴ 25 ⁴ 61 61 61 72 72 72 72 72 72 72 72 72 72 72 72 72
LED ENGIN LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	LZ4 (00xW00) 3.3° 91 % 136 cd/lm 1 White	50° 00° 50° 00° 50° 00° 50° 00°
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.4° 94 % 424 cd/lm 1 Green	5°. 6° 35° 6°
Required component	s:	2000 2000 200 200 200 200 200 200 200 2
EED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	1.3° 94 % 564 cd/lm 1 PC Amber	30 30 30 30 30 30 30 30 40 40 40 40 40 40 40 40 40 4



M LUMILEI	DS	90*	90*
LED	LUXEON CZ		
FWHM	1.6°	7.5*	
Efficiency	93 %	60°	$T \setminus X_{sc}$
Peak intensity	371 cd/lm	$ \times / /$	
LEDs/each optic	1		
Light colour	Blue	452	
Required componen	ts:	\sim /	
		30720	
		30* 159	36
	DS	90*	90
LED	LUXEON CZ		
FWHM	1.2°	75°	
Efficiency	94 %	>	$\langle \rangle$
Peak intensity	564 cd/lm	60.e20000	
LEDs/each optic	1		
Light colour	Red	95"	
Required componen	ts:	40580	
		304	36,
		15° 61480	15*
	DS	90.0	35°
	DS LUXEON CZ	50°	90
		25° 6449	
LED	LUXEON CZ	25° 6449	
LED FWHM	LUXEON CZ 1.7°	25° 6493	- 35° - 92 - 92 - 92 - 92 - 92 - 92 - 92 - 92
LED FWHM Efficiency	LUXEON CZ 1.7° 93 % 346 cd/lm 1	25° 6493	K K K K K K K K K K K K K K K K K K K
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White	27 5495 90' 90' 1800	15°
LED FWHM Efficiency Peak intensity LEDs/each optic	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White	25° 6449	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White	25° 6493	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White	25° 6493	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White	25° 6493	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:	25° 6449	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts: DS LUXEON M/MX	25° 6493	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts: DS LUXEON M/MX 3.6°		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts: DS LUXEON M/MX 3.6° 89 %		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts: DS LUXEON M/MX 3.6° 89 % 99 cd/lm		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen MUMILEI LED FWHM Efficiency Peak intensity LEDs/each optic	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts: DS LUXEON M/MX 3.6° 89 % 99 cd/lm 1		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen EQUINILEI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen MUMILEI LED FWHM Efficiency Peak intensity LEDs/each optic	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen EQUINILEI LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:		
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen EQUINIE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 1.7° 93 % 346 cd/lm 1 White ts:		



		7
LUMILE LED FWHM	LUXEON MZ 2.2°	25. 25.
Efficiency	84 %	
Peak intensity	151 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required componer	ts:	100 00
		34° 13500 or 135
	DS	904 90
LED	LUXEON Rebel	I A I AI
FWHM	1.3°	75
Efficiency	90 %	50° 20 ° 00
Peak intensity	704 cd/lm	\sim \times / / \wedge \times
LEDs/each optic	1	
Light colour	White	43* 45
Required componer	ts:	X X
		61.000
		\times / \setminus \times
		30 ⁴ 15 ⁴ 815800 15 ⁴
		90° 90
		90* 90
LED	LUXEON Rebel ES	39° 99 75° 23
LED FWHM	LUXEON Rebel ES 1.6°	27 - 27 27 - 27
LED FWHM Efficiency	LUXEON Rebel ES 1.6° 90 %	97 75 60 ⁴ 2890 66
LED FWHM Efficiency Peak intensity	LUXEON Rebel ES 1.6°	90 ⁴ 92 75 90 ⁴ 70 90 ⁴ 70 70 70 70 70 70 70 70 70 70 70 70 70 7
LED FWHM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES 1.6° 90 % 530 cd/lm	50° 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM Efficiency Peak intensity	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White	57 ² 72 ² 60 ⁴ 57 ⁴ 50 ⁴ 60 5 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White	97 72 69 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White	91 23 91 91 91 92 91 91 91 91 91 91 91 91 91 91 91 91 91
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White	575 755 755 755 755 755 755 755
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts: DS LUXEON S1000	
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts: DS LUXEON S1000 3.8°	30, 30,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts: DS LUXEON S1000 3.8° 88 %	30, 30,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts: DS LUXEON S1000 3.8° 88 % 100 cd/lm	30,4 30,400
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts: DS LUXEON S1000 3.8° 88 % 100 cd/lm 1	30,4 30,4 <td< th=""></td<>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	30,4 30,4 <td< th=""></td<>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	30, 30,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	30,4 30,400
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 1.6° 90 % 530 cd/lm 1 White ts:	



	US	90* 90*
LED	SBT-90	
FWHM	2.0°	75
Efficiency	76 %	
Peak intensity	175.9 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45° 10000 43°
Required componen		
		X X
		15300
		30° 15° 0° 15° 30°
	US	50* 50*
LED	SBT-90	
FWHM	2.3°	75
Efficiency	90 %	
Peak intensity	253 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	er 1500 er
Required component		
		20 00
		X / X
		25000
		15" 0" 15"
OSRAM Onto Semiconductors		50°
Opto Semiconductors		
Opto Semiconductors	OSCONIQ P 7070 3.5°	50 ¹ 50 ¹
opto Semiconductors LED FWHM	3.5°	30° 390 390
opto Semiconductors LED FWHM Efficiency	3.5° 91 %	
opto Semiconductors LED FWHM Efficiency Peak intensity	3.5° 91 % 122.2 cd/lm	60°
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	3.5° 91 % 122.2 cd/lm 1	6, 3, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	3.5° 91 % 122.2 cd/lm 1 White	500 50 50 50 50 50 50 50 50 50
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White	1000 100 1000 1
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White	120000
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White ts:	2127 ch 2127 2014 125 2014 125 2014 2014 125 2014 2014 2014 2014 2014 2014
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC	128000
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5°	99* 99*
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 %	2127 ch 2127 2014 125 2014 125 2014 2014 125 2014 2014 2014 2014 2014 2014
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5°	257 ch 157 397 397 397 397
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 % 550 cd/lm 1	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 % 550 cd/lm 1 White	
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 % 550 cd/lm 1 White	20002 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 12
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 % 550 cd/lm 1 White	20002 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 00 120 12
opto semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen OSRAM Opto semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	3.5° 91 % 122.2 cd/lm 1 White ts: OSLON Square PC 1.5° 89 % 550 cd/lm 1 White	99* 99*



SEOUL		991
LED	Z8Y50P	77
FWHM	3.0°	
Efficiency	79 %	500
Peak intensity	90.4 cd/lm	(X / (I) X)
LEDs/each optic	1	
Light colour	White	g. <u>200</u> c.
Required components:		
		34.
		15° 0° 15°



PRODUCT DATASHEET FCP13895_SEANNA-A

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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