

PRODUCT DATASHEET C14750_STRADA-2X2-CAT

STRADA-2X2-CAT

Catenary	street	light	beam	optimized	for
EN13201	/I-classe	S			

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	6.2 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



MATERIALS:

Component	Туре	Material	Colour	Finish
STRADA-2X2-CAT	Multi-lens	PMMA	clear	

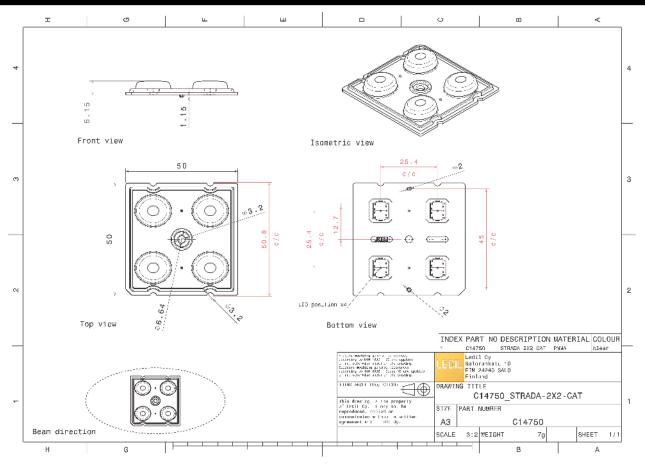
ORDERING INFORMATION:

Component

C14750_STRADA-2X2-CAT » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	6.3

PRODUCT DATASHEET C14750_STRADA-2X2-CAT



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



CONET		
LED	QUICK FLUX XTP 2x4 xxx LS G5	27
FWHM / FWTM		
	152.0 + 117.0° / 158.0 + 144.0°	A A A A A A A A A A A A A A A A A A A
Efficiency	94 %	
Peak intensity	0.5 cd/lm	V Man V
LEDs/each optic	1	
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Required component	nts:	XII XXI
		\times / \times X
CONT		
		1 ²²
LED	QUICK FLUX XTP 2x6 xxx LS G5	
FWHM / FWTM	153.0 + 118.0° / 158.0 + 145.0°	
Efficiency	94 %	ar X/IIX Yan
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	\times I \wedge \times
		\times / \times \times
		12.4 10 ¹ 0 ¹ 0 ¹ 0 ¹
CONT		
LED	QUICK FLUX XTP 2x8 xxx LS G5	2 ²²
FWHM / FWTM	152.0 + 118.0° / 157.0 + 145.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	at A an
LEDs/each optic	1	\times / \rightarrow
Light colour	u White	
Required compone	IIS.	$X \land X$
		VTATV
		1. 10 ¹ - 10 ¹ - 10 ¹ - 10 ¹
		THY YAT
LED	XD16	
FWHM / FWTM	150.0 + 126.0° / 178.0 + 142.0°	at a total
Efficiency	94 %	
Peak intensity	0.4 cd/lm 4	
LEDs/each optic		NA++NA
Light colour	White	
Required component	nts:	
		XTAX
		X X X
		he has a second se
1		10 26



	_	
LED	XD16	
FWHM / FWTM	148.0 + 133.0° / 176.0 + 145.0°	a today w
Efficiency	94 %	
Peak intensity	0.6 cd/lm	3.2 ⁴ 10 40
LEDs/each optic	1	
Light colour	White	
Required compone		
		Mez
	2	
LED	XM-L3	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		J-7-1-1
		A
		2° W W W
LED	XP-G2	
FWHM / FWTM	153.0 + 118.0° / 156.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	\times \times \times \times
LEDs/each optic	1	
Light colour	White	10
Required compone	nts:	N The TV
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	A Chart
Efficiency	94 %	XXIIIXX
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	X X + + V >
Required compone		
1		



LED XP-G3	
FWHM / FWTM Asymmetric	
Efficiency 94 %	
Peak intensity 0.4 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
	XTTX
	K - Y - Y
LED XP-L HI	
FWHM / FWTM 153.0 + 118.0° / 156.0 + 143.0°	TALINC'
Efficiency 94 %	30
Peak intensity 0.4 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
	NA
@ LUMILEDS	- TY YAT
LED LUXEON 5050 Round LES	
FWHM / FWTM 149.0 + 119.0° / 154.0 + 138.0°	
Efficiency 94 %	
Peak intensity 0.4 cd/lm	*X X * X /*
LEDs/each optic 1	
Light colour White	
Required components:	
	X
	**
LED LUXEON V	
FWHM / FWTM 152.0 + 117.0° / 174.0 + 141.0° Efficiency 94 %	
Efficiency 94 % Peak intensity 0.3 cd/lm	14 X
LEDs/each optic 1	
Light colour White	
Required components:	× ***
	XTAX
	V MARTIN



MST Your solu	lans	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	
Efficiency	98 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		n
ØNICHI/		
LED	NVSW219F	
FWHM / FWTM	154.0 + 118.0° / 156.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	× + - + - + - + - + - + - + - + - + - +
Required compone		
		r' r' w
ØNICHI/		
LED	NVSW319B	
FWHM / FWTM	155.0 + 120.0° / 158.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	*
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	XTTXX
		XT-TX
		X7-10-1
		2 ¹ - 50
(No. 1997)		
ØNICHI/		
LED	NVSW3x9A	
FWHM / FWTM	152.0 + 125.0° / 157.0 + 140.0°	a contraction of the second se
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	e la
Required compone	nts:	
		XI TV
		17 - 10



ØNICHI		- MASATI
LED	NVSxE21A	
FWHM / FWTM	142.0 + 130.0° / 147.0 + 140.0°	her for the second seco
Efficiency	94 %	In X X Mark X You
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	6
Required compone	nts:	X X X
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		12 m
OSRAM		
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	152.0 + 119.0° / 155.0 + 144.0°	/ m / +
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
		X/-2
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		× /~~ ×
		K - Marine S
		n' e y /*
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	152.0 + 119.0° / 155.0 + 144.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	w / / w
LEDs/each optic	1	X/Y - * - X/X
Light colour	White	
Required compone	nts:	
		The second secon
		× · · · · ·
000414		
OSRAM Opto Semiconductors		
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
		e X Mart X Mar
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	XXX++TX
		X - X
		$X \rightarrow X$



PHILIF	25	
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	117.0 + 153.0° / 143.0 + 155.0°	a bod
Efficiency	94 %	
Peak intensity	0.5 cd/lm	20°
LEDs/each optic	1	
Light colour	White	
Required compone	ants:	
		$\times$ / $\wedge$ $\times$
PHILIP	5	
		*
LED	Fortimo FastFlex LED 2x8 DA G4+	*
FWHM / FWTM	Asymmetric	These T
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		X7
		×
PHILIP	16	
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	1 2 body
Efficiency	98 %	** X X ***
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	$X \times f = X \times X$
Light colour	White	
Required compone	ints:	X7+TX
		XT-TX
		X - m - t >
SAMSI	ING	
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM		and freed
Efficiency	Asymmetric 98 %	
Peak intensity		10 A
LEDs/each optic	0.6 cd/lm	
	1 White	X / * * X X
Light colour Required compone		
Required compone	ano.	NY FT Y
		1 - 10"
		Lt-r-t)



2/11/2	JNG		HT.
LED	HiLOM RH12 Z (LH351C)		
FWHM / FWTM	Asymmetric		2
Efficiency	97 %		-4
Peak intensity	0.4 cd/lm	× × ×	$\sim >$
LEDs/each optic	1		
Light colour	White		
Required compone		$\sim$ $-*-$	X
			\
		2° 20	Se -
SAMS	JNG	1 HA Y	+
LED	HiLOM RH16 (LH351C)		411
FWHM / FWTM	Asymmetric		5
Efficiency	94 %		
Peak intensity	0.4 cd/lm		
LEDs/each optic	1	$X \times ( \mathbb{T} )$	
Light colour	White		XO
Required compone	ents:	X Y + Y	
		×	- \-
		12.4 ID, 150	Se .
SAMS	JNG		17
			4
LED	HILOM RM12 Z (LH502C)		
	HiLOM RM12 Z (LH502C) Asymmetric	10 × 10 × 10	1
FWHM / FWTM			
FWHM / FWTM Efficiency	Asymmetric		S.
FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 %		$\overline{\mathbf{S}}$
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.4 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White	20 57 10 10 10	S X
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White ents:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White ents:	15 19 19 19 19 19 19 19 19 19 19 19 19 19	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White ents:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White ents:	15 19 19 19 19 19 19 19 19 19 19 19 19 19	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.4 cd/lm 1 White ents:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	Asymmetric 97 % 0.4 cd/lm 1 White ents: UNC HiLOM RM16 Z (LH502C) Asymmetric 99 %		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 0.4 cd/lm 1 White ents: UNG HiLOM RM16 Z (LH502C) Asymmetric		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.4 cd/lm 1 White ents: UNCC HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.4 cd/lm 1		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White white HILOM RM16 Z (LH502C) Asymmetric 99 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.4 cd/lm 1 White white HILOM RM16 Z (LH502C) Asymmetric 99 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White white HILOM RM16 Z (LH502C) Asymmetric 99 % 0.4 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.4 cd/lm 1 White white HILOM RM16 Z (LH502C) Asymmetric 99 % 0.4 cd/lm 1 White		



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SAMS	JNG	
LED	HILOM RM8 Z (LH502C)	
FWHM / FWTM	Asymmetric	
Efficiency	98 %	
Peak intensity	0.4 cd/lm	N X X X X X
LEDs/each optic	1	$X \times I \times X$
Light colour	White	
Required compone	ints:	XX++X
		VA-A
SAMS	ING	TAY FAI
LED	LH351B	2 ²²
LED FWHM / FWTM	LH351B 154.0 + 119.0° / 158.0 + 136.0°	
Efficiency	94 %	5 KALLAN
Peak intensity	94 % 0.3 cd/lm	
LEDs/each optic	1	$\nabla \times \Pi \times \nabla$
Light colour	White	
Required compone		KALA?
rtoquilou compone		$\times$
		V T- V
		42°
SETTEC		
etakerente tempe		
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
	LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric	
FWHM / FWTM	LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 99 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 99 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 99 % 0.5 cd/lm	
FWHM / FWTM Efficiency	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 99 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 99 % 0.5 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 99 % 0.5 cd/lm 1 White ents:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone scout semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 99 % 0.5 cd/lm 1 White ents: Z5M3 Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone store standard compone store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store store	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semeconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stout structure LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semeconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semeconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 99 % 0.5 cd/lm 1 White onts: Z5M3 Asymmetric 94 % 0.5 cd/lm 1 White	



			1
LED	Z8Y22		1
FWHM / FWTM	143.0 + 128.0° / 149.0 + 172.0°		-
Efficiency	94 %	5-1111-	~
Peak intensity	0.5 cd/lm		~ 2
LEDs/each optic	1		
Light colour	White		
Required compone			1.1
Required compone	113.		
		1	
		2.4 <u>Her</u>	×
SEGUE			-1-1
SECUL SEMICONDUCTOR			
LED	Z8Y22P		
FWHM / FWTM	151.0 + 130.0° / 169.0 + 146.0°		$\rightarrow$ /
Efficiency	94 %		17-
Peak intensity	0.5 cd/lm		$\times$ /
LEDs/each optic	1		
Light colour	White	e A T	
Required compone	nts:		
		1 ton	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD 151.0 + 119.0° / 155.0 + 142.0° 94 % 0.6 cd/lm 1 White		
	RLE 2x8 4000Im HP EXC2 OTD		
FWHM / FWTM	151.0 + 119.0° / 155.0 + 142.0°	a tool	-
Efficiency	94 %	$X \times 1000$	X
Peak intensity	0.6 cd/lm	*** X / + + + + + + + + + + + + + + + + + +	$\times$ .
LEDs/each optic	1	$\sim \times 1 \times$	
Light colour	White		1
Required compone	nts:		X
			Y



TRIDON	NIC .	
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	147.0 + 107.0° / 159.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	er X Hart X A
LEDs/each optic	1	X / 4 20 / X /
Light colour	' White	
Required compone		
Required compone	115.	
		A THE
		X T + TX
		1
TRIDO	NIC	
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	147.0 + 107.0° / 159.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	11 X X 1 10
	1	
LEDs/each optic Light colour	' White	
Required compone	nts.	
		X T- M- TX
		X - t X
		1
TRIDO		THAT SHALL
		······································
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	~ ~
FWHM / FWTM	147.0 + 107.0° / 159.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	$X \times X = X \times X$
LEDelaach antia		
LEDs/each optic	1	$X \times T^{*} \to X \times$
Light colour	White	10 - 20
-	White	- 10. - 10. - 10.
Light colour	White	
Light colour	White	*
Light colour	White	
Light colour Required compone	White ints:	*
Light colour Required compone	White ints:	
Light colour Required compone	White Ints:	
Light colour Required compone	White Ints: RLE G1 49x245mm 4000lm xxx EXC OTD	
Light colour Required compone TRIDON LED FWHM / FWTM	White INIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0°	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	White ints: NIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 %	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	White ints: NIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White ints: NIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm 1	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White INIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White INIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White INIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White INIC RLE G1 49x245mm 4000lm xxx EXC OTD 147.0 + 107.0° / 159.0 + 142.0° 94 % 0.4 cd/lm 1 White	



LED	J Series 5050 Round LES	1
FWHM / FWTM	Asymmetric	
	96 %	
Efficiency		
Peak intensity	0.4 cd/lm	$\times$ $\rightarrow$ $\rightarrow$ $\times$ $\rightarrow$
LEDs/each optic	1	X X I X X
Light colour	White	fr
Required components:		V
LED	J Series 5050C 6V E Class	
FWHM / FWTM	152.0 + 112.0° / 158.0 + 140.0°	
Efficiency	96 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X T- X
		r
		- THOMAN
LED	XB-D	
FWHM / FWTM	154.0 + 107.0° / 180.0°	and million and
Efficiency	91 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:	wille	
Required components.		XT-+-TX
		XTAX
		XX
		INV VIII
		4* · · · · · · · · · · · · · · · · · · ·
LED	XM-L	
FWHM / FWTM	109.0 + 152.0° / 142.0 + 162.0°	- Control "
Efficiency	93 %	11 XX XX XX
Peak intensity	0.4 cd/lm	$X \rightarrow X$
LEDs/each optic	1	X X I X X
Light colour	White	fr
Required components:		NA-AV
		K
		· · · · · · · · · · · · · · · · · · ·



LED	XM-L2	
FWHM / FWTM	153.0 + 112.0° / 159.0 + 139.0°	
Efficiency	93 %	Contrading -
		and X X and X X Xan
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		$X \rightarrow X$
		NY Y
		1748-84TD
LED	XP-G	
FWHM / FWTM	156.0 + 112.0° / 161.0 + 144.0°	~ < (min) > ~
Efficiency	92 %	and and a second
Peak intensity	92 /8 0.4 cd/lm	MXXX In XXX
LEDs/each optic	1	
Light colour	White	
	white	
Required components:		$X \rightarrow - + X$
		XXXX
		X - X
		1° 10' 10 10 10 10 10
	XP-G2	
LED	XP-G2 Asymmetric	
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 75 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 75 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 75 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 75 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White 22-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White 22-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White 22-SHD-WHT XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White 22-SHD-WHT XP-G3 154.0 + 112.0° / 162.0 + 142.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White 22-SHD-WHT XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2X	Asymmetric 75 % 0.4 cd/lm 1 White XP-G3 154.0 + 112.0° / 162.0 + 142.0° 82 % 0.3 cd/lm 1 White	



Commence of Street Street		
	XP-G4	
		and
FWHM / FWTM	146.0 + 106.0° / 154.0 + 122.0°	
Efficiency	96 %	an the second second
Peak intensity	0.4 cd/lm	$X \longrightarrow X / X /$
LEDs/each optic	1	$X \times X \times X$
Light colour	White	
Required components:		N T- Y
		NITA
		THY YHT
		P*
LED	XP-L HD	
FWHM / FWTM	155.0 + 109.0° / 161.0 + 132.0°	- Carling-
Efficiency	91 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	$X \times \gamma \rightarrow \chi \times X$
Light colour	White	<pre></pre>
Required components:		X - m - X
		10 ⁻
		1 ²⁴
LED	XP-L2	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.3 cd/lm	a hand w
· · · ·		
LEDs/each optic	1	
LEDs/each optic Light colour		
	1	
Light colour Required components:	1 White	
Light colour	1 White	
Light colour Required components:	1 White	
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM	1 White	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency	1 White e, glass XT-E	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity	1 White e, glass XT-E 155.0 + 110.0° / 170.0 + 146.0°	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 %	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity	1 White a, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 % 0.4 cd/m	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White a, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 % 0.4 cd/lm 1	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White a, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 % 0.4 cd/lm 1	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White a, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 % 0.4 cd/lm 1	
Light colour Required components: Protective plate CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White a, glass XT-E 155.0 + 110.0° / 170.0 + 146.0° 91 % 0.4 cd/lm 1	



		THARATI
LED	XT-E	
FWHM / FWTM	153.0 + 110.0° / 180.0 + 145.0°	
Efficiency	95 %	XXXXXX
Peak intensity	0.5 cd/lm	
		NXA.X/
LEDs/each optic	1	
Light colour	White	
Required components:		
		and the second s
		17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LED	XT-E HVW	
FWHM / FWTM	155.0 + 110.0° / 160.0 + 144.0°	- Charles -
Efficiency	92 %	
Peak intensity	0.4 cd/lm	$\sim$ X/ $+$ + $\cdot$ X/ $\sim$
LEDs/each optic	1	
Light colour	White	
Required components:		
		XT
		×
		×
	S	
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	20 200 100
	,	
Efficiency	87 %	
Efficiency Peak intensity	87 % 0.4 cd/lm	ser an an
Peak intensity	87 % 0.4 cd/lm 1	nt m
Peak intensity LEDs/each optic	0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.4 cd/lm 1 White , glass	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: Protective plate LED FWHM / FWTM Efficiency	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plate UDMILED ED FWHM / FWTM Efficiency Peak intensity	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: Protective plate <b>Contemponents</b> Protective plate <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contempone</b>	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Components: Protective plate Components: Protective plate Components: Protective plate Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: Protective plate <b>Contemponents</b> Protective plate <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contemponents</b> <b>Contempone</b>	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Components: Protective plate Components: Protective plate Components: Protective plate Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Components: Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White , glass S LUXEON 5050 Square LES Asymmetric 86 % 0.3 cd/lm 1 White	



<b>UMILE</b>	DS	
LED	LUXEON 5050 Square LES	
FWHM / FWTM	152.0 + 112.0° / 160.0 + 140.0°	
Efficiency	96 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		XT
	DS	The sector
LED	LUXEON R	
FWHM / FWTM	150.0 + 107.0° / 156.0 + 138.0°	~ Lander
Efficiency	92 %	XXXXXXXX
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		× 7
		<b>T</b> [*]
	DS	- TARATI
LED	LUXEON Rebel ES	
FWHM / FWTM	151.0 + 106.0° / 157.0 + 139.0°	- format
Efficiency		
Efficiency	92 %	
Peak intensity	92 % 0.4 cd/lm	
Peak intensity LEDs/each optic	0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0°	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 %	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 % 0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUE</b> <b>ED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White DS LUXEON T 154.0 + 110.0° / 160.0 + 140.0° 96 % 0.4 cd/lm 1 White	

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C LUMILE	DS	
LED	LUXEON TX	
FWHM / FWTM	153.0 + 108.0° / 158.0 + 143.0°	- handward
Efficiency	92 %	
Peak intensity	0.5 cd/lm	X / + + X /
LEDs/each optic	1	
Light colour	White	
Required components:		
		XTX
		XTAX
		×
		2° 10 10 10
	)S	TATAT
LED	LUXEON V2	
LED FWHM / FWTM	LUXEON V2 154.0 + 110.0° / 160.0 + 141.0°	
Efficiency	94 %	
Peak intensity	94 % 0.4 cd/lm	
LEDs/each optic	1	
Light colour	ı White	$X \times T^* \setminus X \times$
Required components:	Wille	
Required components.		X Y Y
		V Hart
		2° 0° 0° 0°
	DS .	
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	154.0 + 114.0° / 160.0 + 132.0°	
Efficiency	96 %	1 had
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	XA
Light colour	' White	
Required components:	WING	
required components.		
		124 av
	)S	
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	150.0 + 112.0° / 160.0 + 132.0°	
Efficiency	84 %	
Peak intensity	04 70 0.3 cd/lm	
LEDs/each optic	0.3 cd/im 1	X/T X X
Light colour	' White	
	Willo	
Required componente:		
Required components:		
Required components: Protective plate	ə, glass	
	e, glass	



<b>WNICHIA</b>		
LED	NCSxx19B	
FWHM / FWTM	152.0 + 111.0° / 156.0 + 162.0°	and failing Phase
Efficiency	91 %	1 Contraction
	91 % 0.5 cd/lm	MXXX XXXX
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required components:		$X \rightarrow X$
		NY X
		I
<b>ØNICHI</b> Λ		
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	of C / " \ > "
Efficiency	96 %	- Lowed
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:	wine	
Required components.		
		XM-1-1
		T
<b>WNICHIA</b>		MAY HA
	NVSW519A	
FWHM / FWTM	156.0 + 114.0° / 162.0 + 138.0° 92 %	
Efficiency	92 % 0.3 cd/lm	K X T
Peak intensity		
LEDs/each optic	1	
Light colour	White	*** · · · · · · · · · · · · · · · · · ·
Required components:		
		$\times \cap X$
		V Hant V
		r n n
<b>ØNICHI</b> Λ		- The the
LED	NVSW519A	
FWHM / FWTM	Asymmetric	e ( ) .
Efficiency	85 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	X / T
Light colour	White	$Z \times [ \Lambda X \Lambda$
Required components:	AALING	
Required components:		X   X
Protective plate	glass	V T
		>     >
		2° 28 - 27 8°



<b>WNICHIA</b>		
LED	NVSxE21A	
FWHM / FWTM	148.0 + 112.0° / 158.0 + 140.0°	at the second se
Efficiency	84 %	
Peak intensity	0.3 cd/lm	10 ¹ - 20
LEDs/each optic	4 White	XANX
Light colour Required components:	white	
Required components.		XTTX
Protective plate	e, glass	1 toto
ØΝΙCΗΙΛ		
		#
LED	NVSxE21A	
FWHM / FWTM	105.0 + 146.0° / 138.0 + 152.0°	C Doord 2
Efficiency	84 %	
Peak intensity	0.4 cd/lm	$X \longrightarrow X /$
LEDs/each optic	1	
Light colour	White	
Required components:		XTHX
Protective plate	e, glass	V V V
		ALA
		r w v v
<b>ØNICHIA</b>		
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	· Chind
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	e v v av
Required components:		
		NY W
		VAL XX
OSRAM		
Opto Semiconductors		17 N
LED	Duris S8	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	0.4 cd/lm	I XXLXX
LEDs/each optic	1	
Light colour	White	e
Required components:		
		X T-+- X



OSRAM		
Opto Semiconductors		** **
LED FWHM / FWTM	Duris S8	
	Asymmetric 87 %	
Efficiency	07 % 0.3 cd/lm	
Peak intensity		
LEDs/each optic	1	XAN
Light colour	White	
Required components:		
Protective plate	e, glass	
		$\sim$
1		2°
OSRAM Opto Semiconductors		ITAL AT
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	153.0 + 92.0° / 163.0 + 137.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	$\sim \times \times 1 \times \times $
LEDs/each optic	1	
Light colour	White	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Required components:		
		XCTAX
		×
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	
Efficiency	85 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	······································
Required components:		
Protective plate	), glass	XIIX
		the star w
OSRAM		
OSRAM Opto Semiconductors		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 148.0 + 116.0°	
Opto Semiconductors LED FWHM / FWTM	148.0 + 116.0°	
Opto Semiconductors LED FWHM / FWTM Efficiency	148.0 + 116.0° 82 %	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	148.0 + 116.0° 82 % 1	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	148.0 + 116.0° 82 %	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic	148.0 + 116.0° 82 % 1	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour	148.0 + 116.0° 82 % 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	148.0 + 116.0° 82 % 1 White	



PHILIPS		. HY_YH.
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	152.0 + 112.0° / 160.0 + 140.0°	a / m / m
Efficiency	97 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		X = X
riequieu compensitei		XY
		10 10 10 10 10 10 10 10 10 10 10 10 10 1
PHILIPS		177 - PT
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	148.0 + 112.0° / 158.0 + 138.0°	
Efficiency	85 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X / T / X
Protective plate	e, glass	
PHILIPS		THY YAT
LED		
ED FWHM / FWTM	Fortimo FastFlex LED 2x8 DAX G4 157.0 + 94.0° / 164.0 + 120.0°	
		1 Land
Efficiency	94 %	
Efficiency Peak intensity	94 % 0.4 cd/lm	
Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm	
Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/lm 1 White G HiLOM RH12 Z (LH351C)	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	94 % 0.4 cd/lm 1 White G HiLOM RH12 Z (LH351C) Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	94 % 0.4 cd/lm 1 White BG HiLOM RH12 Z (LH351C) Asymmetric 86 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	94 % 0.4 cd/lm 1 White G HiLOM RH12 Z (LH351C) Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1 White BG HiLOM RH12 Z (LH351C) Asymmetric 86 % 0.3 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White Billom RH12 Z (LH351C) Asymmetric 86 % 0.3 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White HILOM RH12 Z (LH351C) Asymmetric 86 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/m 1 White HILOM RH12 Z (LH351C) Asymmetric 86 % 0.3 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.4 cd/m 1 White HILOM RH12 Z (LH351C) Asymmetric 86 % 0.3 cd/lm 1 White	



SAMSUN	IG	THAT KAT
		··· ··· ··· ··· ··· ··· ··· ··· ··· ··
	LH351A	
FWHM / FWTM	158.0 + 116.0° / 172.0 + 163.0°	- Contra-
Efficiency	92 %	XXX
Peak intensity	0.4 cd/lm	$(X \times (T \times X))$
LEDs/each optic	1	
Light colour	White	CX7-* X *
Required components:		X +
		X + X
		X / X
SAMSUN	IG	
LED	LH351B	
EED FWHM / FWTM	Asymmetric	
Efficiency	85 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	XTTAXX
Light colour	' White	
Required components:		N/ total
required componente.		$\mathcal{K}$
Protective plate	e, glass	V 7
		NIN
		12* 10 ⁴ 10 ⁴ 10 ⁴ 10 ⁴
SAMSUN	IG	
LED	LH351D	
FWHM / FWTM	153.0 + 113.0° / 160.0 + 132.0°	
Efficiency	92 %	- Countral
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	XAAX
Light colour	White	
Required components:		
		V/Y-
		$\mathcal{N}$
		K T-T-T-X
0.0.0.0	10	
SAMSUN	16	
LED	LH351Z	
FWHM / FWTM	150.0 + 105.0° / 156.0 + 126.0°	- Contract -
Efficiency	93 %	XXIIXX
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Light coloui		
Required components:		
		XI+tX
		X



SEQUE SEMICONDUCTOR		
		6° •
LED	MJT 5050	in the second se
FWHM / FWTM	Asymmetric	$\Gamma \cap O = O = O = O = O = O = O = O = O = O$
Efficiency	96 %	
Peak intensity	0.4 cd/lm	XXLXXI
LEDs/each optic	1	
Light colour	White	e a
Required components:		
		$X \to X$
		X T- X
		5°
SEQUL SEMICONDUCTOR		
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	0.4 cd/lm	AT TO AN A TO AN
		$X \rightarrow X$
LEDs/each optic		$X \times A \cup X X$
Light colour	White	f" #*
Required components:		NA YV
		X
		2° 10' 20 10' 10'
(Rate)		
SEQUE SEMICONDUCTOR		6*1
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
Efficiency		
,	86 %	
Peak intensity	86 % 0.3 cd/lm	
		V XII XV
Peak intensity	0.3 cd/lm	1 20 20
Peak intensity LEDs/each optic	0.3 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components:	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.3 cd/lm 1 White	10 10 10
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.3 cd/m 1 White e, glass Z5M	
Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul stanconductor LED FWHM / FWTM	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0°	
Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul smconouctor LED FWHM / FWTM Efficiency	0.3 cd/lm 1 White p, glass 25M 153.0 + 110.0° / 159.0 + 143.0° 92 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plate stout stanconouctor LED FWHM / FWTM Efficiency Peak intensity	0.3 cd/lm 1 White s, glass Z5M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Stoul SMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate SEGUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White s, glass Z5M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Stoul SMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Stout SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Stoul semconoucroe LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate Stoul semconoucroe LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.3 cd/lm 1 White 25M 153.0 + 110.0° / 159.0 + 143.0° 92 % 0.4 cd/lm 1	



		ITA Y
LED	Z8Y22	
FWHM / FWTM	Asymmetric	at land
Efficiency	82 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	XX/TL
Light colour	White	
Required component	5:	1-10-1
Protective p	ate, glass	
		21°
TRIDON		
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	86 %	50
Peak intensity	0.4 cd/im	
LEDs/each optic	1	
Light colour	White	e
Required component	5:	NA-
Protective p	ate, glass	
		× /~
		· · · · · · · · · · · · · · · · · · ·



#### **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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