

# PRODUCT DATASHEET C17446\_STRADA-2X2-LN1

# STRADA-2X2-LN1

Beam for EN13201 M-class requirements with high poles or where road width is equal or less the pole height.

#### **SPECIFICATION:**

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.1 mm glue, pin, screw yes ①



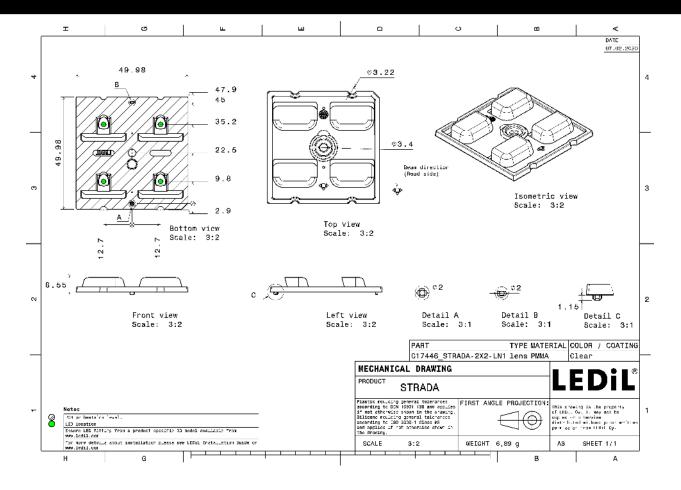
#### **MATERIALS:**

Component	Туре	Material	Colour	Finish
STRADA-2X2-LN1	Multi-lens	PMMA	clear	

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17446_STRADA-2X2-LN1	800	160	160	6.3
» Box size: 480 x 280 x 300 mm				

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

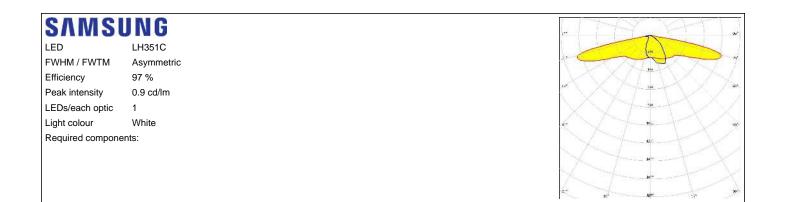


#### **OPTICAL RESULTS (MEASURED):**

		- TAZATI
LED	ZP-G3	
FWHM / FWTM	Asymmetric	a contine a
Efficiency	97 %	
Peak intensity	1 cd/lm	M X X X X
LEDs/each optic	1	XX
Light colour	White	
Required compone		$K \times F \times Z$
		X
		100
		A tomoto A
		r
MST Your solut	lons	. TASSET
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$X \times X X$
Light colour	White	
Required compone	nts:	
		XXXX
		X - M - X
		** ********
PHILIF	S	
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	at the second
Efficiency	97 %	
Peak intensity	1.1 cd/lm	$\times$ $\rightarrow$ $\times$ $\wedge$
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	X
		194
		X X X
0.0.0.0		
SAMSI	JNG	
LED	LH351C	
FWHM / FWTM	Asymmetric	20 (20 ) · · · · · · · · · · · · · · · · · ·
Efficiency	84 %	XXXXXX
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	$\times$ / $\times$
Drotostius		
Protective	plate, glass	$\times$ / $\land$ $\times$
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		<b>n</b> ' é ér



#### **OPTICAL RESULTS (MEASURED):**





bridgelux.		
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	a (a)
Efficiency	81 %	
-	0.4 cd/lm	er fan fan fan
Peak intensity		
LEDs/each optic	1	
Light colour	White	
Required components:		X THIX
Protective plate	e, glass	X
		-
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		/
LED	J Series 5050 Round LES	1
FWHM / FWTM	Asymmetric	
Efficiency	83 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic		
Light colour	White	
Required components:		$\times$
Protective plate		V T- V
i fotective plate	, yidas	
LED	XP-G	
FWHM / FWTM	160.0 + 63.0° / 166.0 + 93.0°	
Efficiency	80 %	1 - Ling
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
required components.		NALIA
Protective plate	e, glass	X
piace		X T- X
		л <sup>.</sup> и/
		10



ED       XP-G2 HE         WHM / FVTTM       Asymmetric         fficiency       83 %         ask intensity       0.4 col/m         EDs/each optic       1         ght colour       White         equired components:          Protective plate, glass          CREE       Left         ED       XP-G2 HE         WHM / FWTM       Asymmetric         fficiency       91 %         ask intensity       0.7 col/m         EDs/each optic       1         ght colour       White         equired components:          CREE       Left         ED       XP-G2 HE         WHM / FWTM       Asymmetric         fficiency       91 %         eask intensity       0.7 col/m         EDs/each optic       1         ght colour       White         equired components:          ED       XP-G3         WHM / FWTM       Asymmetric         Ifficiency       80 %         eask intensity       0.5 col/m         EDs/each optic       1			
ED       XP-G2 HE         WHM / FWTM       Asymmetric         Box dath memory       0.4 adhm         Expressed optic       1         ght colour       While         equietd components:       Image: Component is the symmetric         Protective plats.       glass         CEE C LED       XP-G2 HE         WHM / FWTM       Asymmetric         Bic colour       91 %         Ask intensity       0.7 cdVm         EDE/explored optic       1         ght colour       White         equired components:       Image: Colour         CEE C LED       XP-G2 HE         WHM / FWTM       Asymmetric         Bic colour       0.7 cdVm         EDe/explored optic       1         ght colour       White         equired components:       Image: Colour         Potective plats.       Soft         EDe/explored 1       Image: Colour         ght colour       White         equired components:       Image: Colour         Potective plats.       glass         EDe/explored and glass       Image: Colour         Potective plats.       Image: Colour         WHM / FWTM       Asymmetric			NY M
WHM FVTM       Asymmetric         Biclency       83 %         as linensity       0.4 cd/m         EDeviation optic       1         through       1	LED	XP-G2 HF	
hteensy 83 % aak intensity 0.4 cd/m EbSeach optic 1 phr colur White equired components: Protective plats_glass			
eki kinensity 0.4 cd/m D2elend potic 1 phi colour White equired components: Protective plate_glass	Efficiency		
EDerestroptic 1 ghr colour White equired components: Protective plate, glass			
git colour White equired components: Protective ptate, glass CREESIES ED X XP-G2 HE WMM /FVTM Asymmetric ficiency 91 % eak intensity 0.5 cd/m EDs/each optic 1 ght colour White equired components: Protective ptate, glass CREESIES ED XP-G3 WMM /FVTM Asymmetric ficiency 80 % eak intensity 0.5 cd/m EDs/each optic 1 ght colour White equired components: Protective ptate, glass CREESIES ED XP-G3 WMM /FVTM Asymmetric ficiency 80 % eak intensity 0.5 cd/m EDs/each optic 1 ght colour White equired components: Protective ptate, glass CREESIES ED XP-LHD XP-LHD XP-LHD XP-LHD XP-LHD XP-LHD SDS/each optic 1 ght colour White equired components: ED XP-LHD XP-LHD XP-LHD XP-LHD SDS/each optic 1 ght colour White equired components: ED XP-LHD			
equired components: Protective plate, glass			
Protective plate, glass         CREE\$LED         ED       XP-G2 HE         WMM / FWTM       Asymmetric         Ticlean optic       1         ght colour       White         equired components:       VP-G3         REE\$LEDE       XP-G3         WMM / FWTM       Asymmetric         ficency       9 %         eak intensity       0.5 col/m         ED       XP-G3         WMM / FWTM       Asymmetric         ficency       80 %         eak intensity       0.5 col/m         ED/seach optic       1         ght colour       White         equired components:       VP-G3         Protective plate, glass       Image: Glass         CREE\$LED       XP-L HO         ED       XP-L HO         ED       XP-L HO         VMM / FWTM       Asymmetric         ficency       0.5 %         eak intensity       0.4 col/m         ED/seach optic       1         ght colour       White         equired components:       Image: Glass			$(X, T) \times$
CREESED         ED       XP-G2 HE         WHM /FWTM       Asymmetric         91 %       Seakintensity         eakintensity       0.7 cd/m         ED       XP-G3         WHM /FWTM       Asymmetric         ght colour       White         equired components:       Image: Colour imag			X X
CREESLED         ED       XP-G2 HE         WHM / FWTM       Asymmetric         91 %       ask intensity         0.7 col/m         EDs/ach optic       1         ght colour       White         equired components:       Image: Colour of the c	Protective plate	, glass	
CREESLED         ED       XP-G2 HE         WHM / FWTM       Asymmetric         91 %       ask intensity         0.7 col/m         EDs/ach optic       1         ght colour       White         equired components:       Image: Colour of the c			
ED       XP-G2 HE         WHM / FVTTM       Asymmetric         Eb/sech optic       1         ght colour       White         equired components:			
WHM / FWTM Asymmetric ficiency 91% equired components: Protective plate, glass Protective pl			14
fficiency 91 % eak intensity 0.7 cd/m EDS/each optic 1 http://white equired components:	LED	XP-G2 HE	
eak intensity 0.7 cd/m EDs/each optic 1 ght colour White equired components: ED XP-G3 WHM / FVTM Asymmetric fficiency 80% eak intensity 0.5 cd/m EDs/each optic 1 ght colour White equired components: Frotective plate. glass ECEC SUBJECT SUBJEC	FWHM / FWTM	Asymmetric	
EDs/each optic 1 ght colour White equired components: ED XP-G3 WHM / FWTM Asymmetric fficiency 80% eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass ENERE LED ED XP-L HD WHM / FWTM Asymmetric fficiency 80% eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass	Efficiency	91 %	XXATRXS
ght colour White equired components: White equired components: White ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective placs CREE\$LED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:	Peak intensity	0.7 cd/lm	
equired components:	LEDs/each optic	1	
CREE       XP-G3         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.5 cd/lm         EDs/each optic       1         ght colour       White         equired components:          Protective plate, glass          CREE       ED         ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         EDS/each optic       1         ght colour       White         equired components:	Light colour	White	
ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECLED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:	Required components:		
ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECLED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECLED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECLED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
ED XP-G3 WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECLED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
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fficiency 80 % eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plats ED XP-L HD WHM / FVVTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:	LED	XP-G3	
eak intensity 0.5 cd/lm EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECIED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:	FWHM / FWTM	Asymmetric	
EDs/each optic 1 ght colour White equired components: Protective plate, glass CREECIED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/m EDs/each optic 1 ght colour White equired components:	Efficiency	80 %	
ght colour White equired components: Protective plate, glass CREECIED ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:	Peak intensity	0.5 cd/lm	
equired components: Protective plate, glass   CREE CLED  ED XP-L HD  WHM / FWTM Asymmetric  fficiency 80 % eak intensity 0.4 cd/lm  EDs/each optic 1 ght colour White equired components:	LEDs/each optic		$X \times I \to X$
Protective plate, glass         CREE         ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         ED/each optic       1         ght colour       White         equired components:       Image: Component (Component)	Light colour	White	e
CREE       LED         ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         ED/each optic       1         ght colour       White         equired components:       Image: Component in the image: Comp	Required components:		NA.
CREE       LED         ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         ED/each optic       1         ght colour       White         equired components:       Image: Component in the image: Comp	Droto etivo ploto	riess	
ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDS/each optic 1 ght colour White equired components:	FIDIECTIVE plate	, glass	
ED XP-L HD WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
ED       XP-L HD         WHM / FWTM       Asymmetric         fficiency       80 %         eak intensity       0.4 cd/lm         EDs/each optic       1         ght colour       White         equired components:       ************************************			142 841
WHM / FWTM Asymmetric fficiency 80 % eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			7
fficiency     80 %       eak intensity     0.4 cd/lm       EDs/each optic     1       ght colour     White       equired components:     1			
eak intensity 0.4 cd/lm EDs/each optic 1 ght colour White equired components:			
EDs/each optic 1 ght colour White equired components:			
ght colour White equired components:			
equired components:			
		WING	The the
Protective plate, glass	required components:		
	Protective plate	, glass	X 7-1-T D
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LED	XT-E HE	·· · · · · · · · · · · · · · · · · · ·
FWHM / FWTM	158.0 + 60.0° / 164.0 + 141.0°	
	83 %	
Efficiency		10
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	de
Required components:		
Protective plate		
LED	XT-E HE	
FWHM / FWTM	160.0 + 60.0° / 164.0 + 151.0°	a total and a
Efficiency	94 %	VXXII BXXV
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	$X \longrightarrow X$
Light colour	White	
Required components:		
		$\times$
		X Tommer X
		E A
		10 <sup>2</sup> 6 <sup>3</sup> 3 <sup>4</sup>
	DS	
		TAX VAL
LED	LUXEON 5050 Round LES	TAV VAL
LED FWHM / FWTM	LUXEON 5050 Round LES Asymmetric	-
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES	-
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White a, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White a, glass LUXEON 5050 Square LES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White 9, glass LUXEON 5050 Square LES Asymmetric 65 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Vertice plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES Asymmetric 65 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES Asymmetric 65 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Who Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White , glass LUXEON 5050 Square LES Asymmetric 65 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate COMPACTION Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2X	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES Asymmetric 65 % 0.4 cd/lm 1 White 22.SHD-BLK	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CONTINUE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES Asymmetric 82 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES Asymmetric 65 % 0.4 cd/lm 1 White 22.SHD-BLK	



LUMILE	DS		
LED	LUXEON 5050 Square LE	S	
FWHM / FWTM	Asymmetric		
Efficiency	85 %		200
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		$\times$ $\times$ $\times$ $\times$ $\times$
Light colour	White		6. 1. 1. 1.
Required components	6:		V Your V
C17580_STRADA	-2X2-SHD-WHT		
	DS		
LED	LUXEON 5050 Square LE	S	3
FWHM / FWTM	Asymmetric		
Efficiency	95 %		
Peak intensity	0.5 cd/lm		10°
LEDs/each optic	1		
Light colour	White		$X / T \land \land$
Required components	5:		$\times$
	DS		
LED	LUXEON 5050 Square LE	S	
FWHM / FWTM	Asymmetric		
Efficiency	82 %		
Peak intensity	0.4 cd/lm		
LEDs/each optic	1		X
Light colour			
-	White		
Required components			
Required components	3:		
-	3:		
Required components	3:		
Required components	s: ate, glass		
Required component: Protective pl	s: ate, glass	S	
Protective pl	s: ate, glass	S	
Required components Protective pl Protective pl Components Protective pl Protective pl Pro	s: ate, glass EDS LUXEON 5050 Square LE	S	
Required components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Protective pl Components Components Protective pl Components Co	s: ate, glass <b>IDS</b> LUXEON 5050 Square LE Asymmetric	S	
Required components Protective pl Protective pl Components Protective pl Protective pl Pro	s: ate, glass DS LUXEON 5050 Square LE Asymmetric 74 %	S	
Required components Protective pl Protective pl	s: ate, glass DS LUXEON 5050 Square LE Asymmetric 74 % 0.5 cd/lm 1 White	S	
Required components Protective pl Protective pl	s: ate, glass EDS LUXEON 5050 Square LE Asymmetric 74 % 0.5 cd/lm 1 White s:	S	
Required components Protective pl Protective pl	s: ate, glass EDS LUXEON 5050 Square LE Asymmetric 74 % 0.5 cd/lm 1 White s:	S	
Required components Protective pl Protective pl Postective pl Protective pl	s: ate, glass EDS LUXEON 5050 Square LE Asymmetric 74 % 0.5 cd/lm 1 White s:	S	



	DS S	IN T
LED FWHM / FWTM	LUXEON 5050 Square LES	
Efficiency	Asymmetric 74 %	
Peak intensity	0.4 cd/lm	ar hu ha
LEDs/each optic	1	
Light colour	' White	X / /
Required components:	White	
C17580_STRADA-2	(2-SHD-WHT	XTEX
Protective plate	e, glass	
	DS	INY MI
LED	LUXEON HL2X	
FWHM / FWTM	157.0 + 62.0° / 166.0 + 141.0°	
Efficiency	81 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	XXIIXX
Light colour	White	
Required components:		NY++Y
Protective plate		V + V
	, 9005	
	05	
LED	LUXEON HL2X-D	
FWHM / FWTM	Asymmetric	
Efficiency		
	95 %	$X \times Y \otimes X$
-	95 % 0.7 cd/lm	1 <sup>27</sup>
Peak intensity		*
Peak intensity LEDs/each optic	0.7 cd/lm	
Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: UDELED FWHM / FWTM Efficiency	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 %	
Peak intensity LEDs/each optic Light colour Required components: UDE LED FWHM / FWTM Efficiency Peak intensity	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUALED</b> ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: <b>WIM / EUNILEU</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: <b>WED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: <b>WINICONSTITUTED</b> ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUATION</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White DS LUXEON HL2X-D Asymmetric 81 % 0.4 cd/lm 1 White	



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	S	
LED	LUXEON HL2X-P	
FWHM / FWTM	Asymmetric	
Efficiency	81 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	$\times$
Light colour	White	
Required components:		
		V
Protective plate	e, glass	
	DS	
LED	LUXEON HL2X-P	*
FWHM / FWTM	Asymmetric	
Efficiency	95 %	Mar All
Peak intensity	0.7 cd/lm	18° / 10 / 10
LEDs/each optic	1	
Light colour	White	e 100 / 100
Required components:		
		Marth .
		$\times$ / $\times$
		/ Hand N
	S	- TANK A
LED	LUXEON TX	
FWHM / FWTM	157.0 + 58.0° / 164.0 + 139.0°	
Efficiency	81 %	ti ti
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		XATAX
Protective plate	a, glass	XTAX
		12°
	DS	TAY KAT
LED	LUXEON V2	··· ··· ··· ··· ··· ··· ··· ··· ··· ··
FWHM / FWTM	158.0 + 57.0° / 164.0 + 149.0°	
FWHM / FWTM Efficiency	158.0 + 57.0° / 164.0 + 149.0° 95 %	
Efficiency	95 %	20 00 00 10 00 10 00
Efficiency Peak intensity		
Efficiency Peak intensity LEDs/each optic	95 % 0.9 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.9 cd/lm 1	
Efficiency Peak intensity LEDs/each optic	95 % 0.9 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.9 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.9 cd/lm 1	



<b>COLUMILEI</b>	DS	, MY MI
LED	LUXEON V2	
FWHM / FWTM	157.0 + 57.0° / 164.0 + 140.0°	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	× X X X X
LEDs/each optic	1	
Light colour	White	$\times \times \cap \times >$
Required components:		
required compensioner		X
Protective plat	e, glass	X A X
LUMILEI	DS	- HYAN
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	
Efficiency	81 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X T- X
Protective plat	e, glass	
	· -	1 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup>
LUMILEI	DS	
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	
Efficiency	95 %	X X X X X
Peak intensity	0.7 cd/lm	
LEDs/each optic		
	1	$X \times I \setminus X \setminus$
	1 White	X Hall
Light colour Required components:		
Light colour		
Light colour		r
Light colour		FC
Light colour Required components:		
Light colour Required components:		
Light colour Required components: MST Your solutions		
Light colour Required components: MST Vour solutions LED	White	
Light colour Required components: MST Your solutions LED FWHM / FWTM	White RecLED 122x50mm 1900lm 730 2x4 Opt G1	
Light colour Required components: MSST Vour solutions LED FWHM / FWTM Efficiency	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric	
Light colour Required components: MSST Your solutions LED FWHM / FWTM Efficiency Peak intensity	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 %	
Light colour Required components: MSST Your solutions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 % 0.7 cd/lm	K. Co
Light colour Required components: MSST Vour solutions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 % 0.7 cd/lm 1	K. Co
Light colour Required components: MSST Your solutions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 % 0.7 cd/lm 1	K. Co
Light colour Required components: MSST Vour solutions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 % 0.7 cd/lm 1 White	
Light colour Required components: Wave solutions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	White RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 84 % 0.7 cd/lm 1 White	K. Co



<b>ØNICHIA</b>		
LED	NF2x757G	· · · · · · · · · · · · · · · · · · ·
FWHM / FWTM		
	Asymmetric 81 %	$\sum e 1 \times 1$
Efficiency		
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$\times$ / $\longrightarrow$ $\times$
Light colour	White	e 🔨   🔪 🕷
Required components:		1 tont
Protective plate	e, glass	X X
<b>ØNICHIA</b>		
LED	NFSx757G	
FWHM / FWTM	Asymmetric	
Efficiency	80 %	A GAN
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
rioquiou componente.		30
Protective plate	, glass	$\times /   \times \times$
		ar a a a
<b>ØNICHIA</b>		
LED	NVSW219F	
FWHM / FWTM	158.0 + 59.0° / 164.0 + 141.0°	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X/T/X
Protective plate	e, glass	XT
		X The X
		r' v v
<b>ØNICHIA</b>		
LED	NVSW219F	
FWHM / FWTM	160.0 + 59.0° / 166.0 + 150.0°	at the total and the second se
Efficiency	94 %	
Peak intensity	0.8 cd/lm	K X/Y X *
LEDs/each optic	1	
Light colour	White	
Required components:		N/HAZ
1		$\times$
		V T+TV
		192 - 192 -
		an contraction of the film



<b>ØNICHIA</b>		
LED	NVSxE21A	6. ·
FWHM / FWTM		at 1 to
	Asymmetric 92 %	and and a
Efficiency		
Peak intensity	0.4 cd/lm	
LEDs/each optic	4	
Light colour	White	$\sim$ / $\sim$ /
Required components:		
		$\times$ / $\times$
		2°
<b>WNICHIA</b>		
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	9.
Efficiency	80 %	
Peak intensity	0.4 cd/lm	and the factor of the
LEDs/each optic	4	
Light colour	White	XATAXX
Required components:	White	$f \times / \bigvee X$
required components.		
Protective plate	e, glass	
		/ /~-···· )
		Tr pp or pp
<b>ØNICHIA</b>		- TY ATI
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	
Efficiency	79 %	XX
Peak intensity	0.6 cd/lm	XXX-XXX
LEDs/each optic	1	
Light colour	White	
Required components:		NNTX
		XMAX
Protective plate	e, glass	XTAX
OSRAM		
Opto Semiconductors	Duris S8	· · · · · · · · · · · · · · · · · · ·
FWHM / FWTM	Asymmetric	at Two to
Efficiency	Asymmetric 83 %	
Peak intensity	83 % 0.4 cd/lm	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	0.4 cd/im 1	
LEDs/each optic	1 White	X /
Light colour	WINE	
Required components:		
Protective plate	e, glass	
		2* 10 <sup>*</sup> 28* 10 <sup>*</sup> 8



OSRAM		$1 \rightarrow \dots \rightarrow 1$
Opto Semiconductors		
	Duris S8	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	12
Peak intensity	0.4 cd/lm	XMMXX
LEDs/each optic	1	
Light colour	White	× / / *
Required components:		$\times I \setminus X$
		$\langle \langle \rangle \rangle$
OSRAM		
Opto Semiconductors		×*
	OSCONIQ C 2424	
FWHM / FWTM	154.0 + 55.0° / 160.0 + 141.0°	
Efficiency	84 %	
Peak intensity	0.7 cd/lm	N HAKN
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	a dass	NIN
	, 9000	
		and the second s
OSRAM Opto Semiconductors		
LED	OSCONIQ C 2424	
FWHM / FWTM	156.0 + 55.0° / 160.0 + 148.0°	
Efficiency	96 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	ANT NA
Light colour	White	
Required components:		X I X
		X
		XIX
OSRAM		
OSRAM Opta Semiconductors		
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	
<sup>Opto Semiconductors</sup> LED FWHM / FWTM	Asymmetric	
Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 78 %	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 78 % 0.5 cd/lm	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 78 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.5 cd/lm	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 78 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.5 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.5 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.5 cd/lm 1 White	



OSRAM		TH HI
Opto Semiconductors		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.8 cd/lm	(X/TVX)
LEDs/each optic	1	
Light colour	White	
Required components:		
		$\times / \times \times$
		1
		ter at at
OSRAM		
Opto Semiconductors	OSLON Square CSSDM2/CSSDM3	× ×
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3	
	Asymmetric 92 %	N A ANT
Efficiency		
Peak intensity	0.8 cd/lm	$\sim$
LEDs/each optic		XAXX
Light colour	White	$^{\circ}$ $\times$ / $\times$ $^{\ast}$
Required components:		$\sim$
		× 1000
		2° 10° 10° 10° 10°
OSRAM		THY YHI
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	*
EED FWHM / FWTM		
Efficiency	Asymmetric 82 %	
Peak intensity	62 % 0.6 cd/lm	a hard in
-		
LEDs/each optic	1 White	
Light colour	White	14 <sup>10</sup> 40 <sup>1</sup>
Required components:		NY-+-Y
	a diass	
Protective plate	e, glass	
	e, glass	- 30 - 20 
Protective plate	e, glass	
Protective plate		
Protective plate	OSLON Square CSSRM2/CSSRM3	
Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 Asymmetric	
Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 %	
Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm	
Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm 1	
Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm	
Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm 1 White	
Protective plate Optis Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm 1 White	
Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 Asymmetric 81 % 0.8 cd/lm 1 White	



PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.6 cd/lm	a X X X
LEDs/each optic	1	
Light colour	White	e / / / / / / / / / / / / / / / / / / /
Required components:		
Protective plate		
	, giass	
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA HE	3
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	~ / / ``` \ /*
Required components:		$\times$
		1 7 * *
		$\times$ / $\times$ $\times$
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA HE	3
FWHM / FWTM	Asymmetric	
Efficiency	82 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	e T-
Required components:		
Protective plate	, glass	
SAMSUN	IG	THAT WILL
LED	LH351B	~ ~ ~ ~ ~
FWHM / FWTM	158.0 + 60.0° / 164.0 + 151.0°	20- (20- )
Efficiency	95 %	- tool
	0.8 cd/lm	w A second se
Peak intensity		N ZON W I N N ZON Y
		$\nabla \times ( \otimes \times \nabla)$
LEDs/each optic	1	XX+XX
Peak intensity LEDs/each optic Light colour Required components:		
LEDs/each optic Light colour	1	
LEDs/each optic	1	
LEDs/each optic Light colour	1	10



SAMSUN	16	
LED	LH351B	
FWHM / FWTM	155.0 + 60.0° / 163.0 + 143.0°	
Efficiency	84 %	
Peak intensity	0.6 cd/lm	$\sim$
LEDs/each optic	1	
Light colour	White	$-X \times F \times X$
Required components:		
required compendite.		× +
Protective plat	a, glass	XX X
		z· _ w
SAMSUN	IG	
LED	LH351C	
FWHM / FWTM	Asymmetric	
Efficiency	71 %	X Y Y X
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		NA.
C17677_STRADA-22	(2-SHD-BLK	
		XTTX
Protective plat	a, glass	L tomat
		n, a h
SAMSUN	IG	
LED	LH351C	
FWHM / FWTM	Asymmetric	
Efficiency	75 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C17580_STRADA-22	(2-SHD-WHT	
		X
Protective plat	), glass	× 7-+
<u> </u>		
SAMSUN	16	
LED	LH351D	
FWHM / FWTM	158.0 + 61.0° / 167.0 + 143.0°	
Efficiency	83 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		XTAX
Protective plat	, glass	



SAMSU	NG	
		5°
LED FWHM / FWTM	LH351D 162.0 + 61.0° / 170.0 + 152.0°	
	94 %	This -
Efficiency	94 % 0.6 cd/lm	
Peak intensity		$\times \wedge + \wedge \times$
LEDs/each optic Light colour	1 White	
Required components:		
Required components.		
		1 total
		$\times$ $1 \times$
		1 <sup>-1</sup>
SAMSU	NG	2 <sup>4</sup>
LED	LH502C	
FWHM / FWTM	Asymmetric	and the second s
Efficiency	82 %	
Peak intensity	0.4 cd/lm	12 No. 10 No.
LEDs/each optic	1	
Light colour	White	
Required components:		
		X   X
Protective pla	te, glass	VTATV
SAMSU	NG	
LED	LH502D	4
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.5 cd/lm	· X X *
LEDs/each optic	1	
Light colour	White	
Required components:		
		X/ 1X
SECUL SEMICONDUCTOR		
SEQUE SEMICONDUCTOR	MJT 5050	
seoul semiconductor LED FWHM / FWTM	Asymmetric	
stoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 92 %	
stoul semconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	
stout stimiconduction LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.4 cd/lm 1	
stout stimiconduction LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.4 cd/lm 1 White	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.4 cd/lm 1 White	



SKOL		THAT AND
SECUL SEMICONDUCTOR		
LED	SEOUL DC 3030C	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		105
32007		
SEQUE SEMICONDUCTOR		2 <sup>**</sup>
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		$\times$ / $\times$
		2* 30 V
etan		THE SHE
	75140	2" N
LED	Z5M3	24 (2 ) - M
FWHM / FWTM	Asymmetric	
Efficiency	80 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$X \times 7 + Y \times X$
Light colour	White	" \"
Required components:		30
Protective plate	e. glass	
Stor		
SEQUE SEMICONDUCTOR	Z5M4	
FWHM / FWTM	25004 154.0 + 51.0° / 164.0 + 147.0°	
Efficiency	96 %	
Peak intensity	96 % 0.9 cd/lm	A
LEDs/each optic	0.9 ca/im 1	
Light colour	ı White	A MARKA
	AALING	
Required components:		V PT V
		Σ* <u>μ'</u> <u></u>



SEOUL SEMICONDUCTOR		
LED	Z5M4	
FWHM / FWTM	152.0 + 51.0° / 161.0 + 140.0°	
Efficiency	85 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	/ / w
Light colour	White	$\epsilon $ / /
Required components	S:	
Protective p	late, glass	$\sim$
		200
		21° m/ d
32011		1742
SEQUE SEMICONDUCTOR	70/00	-
	Z8Y22	at the first
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	1 cd/lm	$X \rightarrow $
LEDs/each optic	1	
Light colour	White	
Required components	S:	165
		1



#### **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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