

# **ANGELETTE-WW-PLAIN**

~60° wide beam. Clean appearance with no additional attachment interface.

#### **TECHNICAL SPECIFICATIONS:**

Dimensions Ø 110.0 mm Height Fastening socket ROHS compliant yes 🛈

57.3 mm



#### **MATERIAL SPECIFICATIONS:**

Component	Туре	Material	Colour	Finish	Coating
ANGELETTE-WW-PLAIN	Reflector	PC	metal		HMDS

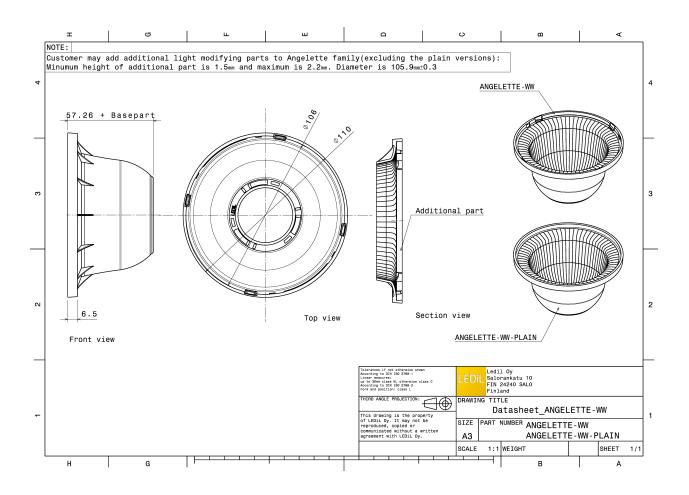
#### **ORDERING INFORMATION:**

#### Component

F14622\_ANGELETTE-WW-PLAIN » Box size: 398 x 298 x 265 mm

Qty in box	MOQ	MPQ	Box weight (kg)
120	90	30	5.3

# E D FI4622\_ANGELETTE-WW-PLAIN





bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213254-2	White	31, 156 Pa. 24, 24, 26, 26, 62, 62, 62, 63, 64, 64, 64, 23, 25, 26, 64, 24, 65, 75, 75, 75, 75, 75, 75, 75, 75, 75, 7
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F13671_ANGE TE: 2213254-2	White ents:	94 92 94 94 95 96 96 96 96 96 96 96 96 96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F13671_ANGE IDEAL: 50-220	White ents:	94 95 94 95 96 96 96 96 96 96 96 96 96 96
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor IDEAL: 50-220	White	25 40 25 25 25 25 25 25 25 25 25 25 25 25 25



bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13658_CLAM	White ents:	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13658_CLAM	White ents:	200 200 200 200 200 200 200 200
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13584_CLAM	White ents:	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C13584_CLAM F13671_ANGE	White ents: P-VERO29	200 50 60 60 60 60 60 60 60 60 60 6



bridgelux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13658_CLAW Bender Wirth: 4	Tunable White ents: IP-VERO13-18	
bridgetux LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13658_CLAM F13671_ANGE Bender Wirth: 4	Tunable White ients: IP-VERO13-18 -RZ-LENS	21. 21. 21. 21. 21. 21. 21. 20. 21. 22. 20. 21. 22. 23. 24. 25. 26. 26. 26. 26. 27. 26. 26. 26. 27. 26. 26. 26. 26. 26. 26. 26. 26
bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAM F13671_ANGE Bender Wirth: 4	Tunable White ients: IP-VERO29 -RZ-LENS	27 26 27 26 20 20 20 20 20 20 20 20 20 20
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAW Bender Wirth: 4	Tunable White ents: IP-VERO29	24°



bridgelux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAM F13671_ANGE Bender Wirth: 4	Tunable White ients: IP-VERO29 -RZ-LENS	2, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAW Bender Wirth: 4	Tunable White ents: IP-VERO29	200 21 20 20 61 60 60 60 60 60 60 60 60 60 60
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor IDEAL: 50-210	CLL03x/CLU03x 59.0° 89 % 1.1 cd/lm 1 White	21, 15, 15, 15, 15, 15, 15, 15, 15, 15, 1
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213254-2	CLL03x/CLU03x 61.0° 89 % 1.1 cd/lm 1 White	



CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon IDEAL: 50-2204	CLL04x/CLU04x 63.0° 89 % 0.9 cd/lm 1 White	
CITIZE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon IDEAL: 50-2204	CLU730/731 57.0° 89 % 1.1 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C14123_CLAM F13671_ANGE	CXA/B 15xx 66.0° 86 % 0.9 cd/lm 1 White ents: P-CXA15-18	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon C14123_CLAM	CXA/B 15xx 55.0° 90 % 1.1 cd/lm 1 White ents:	



CREE <del>\$</del>	•	90° 90°
LED	™ CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM	68.0°	73, 75,
Efficiency	86 %	200
Peak intensity	0.8 cd/lm	60°
LEDs/each optic		400
Light colour	White	gr at
Required compor		
C14123_CLAN		
F13671_ANGE		
		30° 179 0° 179 30°
CREE <del>\$</del>	•	904
LED	™ CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM	63.0°	75* 200 75*
Efficiency	86 %	
Peak intensity	1 cd/lm	60° 60°
LEDs/each optic		
Light colour	White	er A
Required compor		
F13671_ANGE		
	+ OPTIC CLIP Z50 TYPE1 2213194-1	
		30 <sup>-</sup> 1000 30 <sup>-</sup> 15 <sup>6</sup> 0 <sup>6</sup> 15 <sup>6</sup>
CREE ÷		90* 90*
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	
FWHM	58.0°	73, 75,
Efficiency	90 %	69 <sup>1</sup> 400 60 <sup>1</sup>
Efficiency Peak intensity	90 % 1.1 cd/lm	
Efficiency Peak intensity LEDs/each optic	90 % 1.1 cd/lm 1	6 <sup>10</sup>
Efficiency Peak intensity LEDs/each optic Light colour	90 % 1.1 cd/lm 1 White	0)*
Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White nents:	9 <sup>1</sup> 40 50 50 50 50 50 50 50 50 50 50 50 50 50
Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White	gr
Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White nents:	2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup> 2 <sup>1</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1	Bit Dis   Bit 00   Bit 00   Bit 00   Bit 00
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850	32 92   33, 72, 93   34, 72, 94   45, 750 72,   62, 90 92,   62, 90 92,   63, 93, 94,
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0°	22 23 24 25 26 26 26 26 26 26 26 26 26 26
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREE LED FWHM Efficiency	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 <b>CREE</b> LED FWHM Efficiency Peak intensity	90 % 1.1 cd/lm 1 White nents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 <b>CREE</b> LED FWHM Efficiency Peak intensity LEDs/each optic	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1 White	22 24 25 25 25 25 25 25 25 25 25 25
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1 White hents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1 White hents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1 White hents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213401-2 CREEE ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	90 % 1.1 cd/lm 1 White hents: + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 64.0° 90 % 1 cd/lm 1 White hents:	



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14036_CLAM	CXA/B 25xx 65.0° 89 % 0.9 cd/lm 1 White ents:	99° 99° 99° 90° 90° 90° 90° 90°
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14036_CLAM F13671_ANGE	CXA/B 25xx 67.0° 85 % 0.8 cd/lm 1 White ents: P_CXA25-30	201 201 201 201 201 201 201 201
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14036_CLAM F13671_ANGE	CXA/B 30xx 67.0° 86 % 0.8 cd/lm 1 White ents: P_CXA25-30	200 200 64 67 60 60 60 60 60 60 60 60 60 60
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C14036_CLAW	CXA/B 30xx 66.0° 90 % 0.9 cd/lm 1 White ents:	



EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F13671_ANGE IDEAL: 50-220	LUXEON CoB 1208 63.0° 84 % 0.9 cd/lm 1 White eents:	30° 30° 40° 50° 50° 50° 50° 50° 50° 50° 5
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213130-2	LUXEON CoB 1208 61.0° 89 % 1.1 cd/lm 1 White	201 201 201 201 201 201 201 201
EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor IDEAL: 50-210	LUXEON CoB 1208 61.0° 89 % 1.1 cd/lm 1 White	30. 24. 25. 26. 90. 90. 90. 90. 90. 90. 90. 90
WHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F13671_ANGE TE: 2213130-2	LUXEON CoB 1208 64.0° 85 % 0.9 cd/lm 1 White eents:	20 20 20 20 20 20 20 20 20 20



FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	LUXEON CoB 1211 63.0° 89 % 1 cd/lm 1 White	24° 00 25°
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F13671_ANGE	LUXEON CoB 1211 64.0° 85 % 0.9 cd/lm 1 White ents:	
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	LUXEON CoB 1216/1812 63.0° 89 % 0.9 cd/lm 1 White	54 <sup>4</sup> 59 <sup>4</sup> 77 <sup>4</sup> 200 - 61 61 61 60 60 60 7 <sup>4</sup> 60 60 7 <sup>4</sup> 60 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup> 7 <sup>4</sup>
FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White	21° 00 00 91°



ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon IDEAL: 50-2100	COB L-Type (LES 11) 51.0° 88 % 1.2 cd/lm 1 White	21 <sup>4</sup> 04 22 <sup>4</sup> 24 <sup>4</sup>
OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F13671_ANGE TE: 2213130-2	PrevaLED Core Z4 LES19 64.0° 86 % 0.9 cd/lm 1 White ents:	200 - 20 21 - 20 20
OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon TE: OPTIC CLI	PrevaLED Core Z4 LES19 62.0° 89 % 1 cd/lm 1 White	24 25 25 25 25 25 25 25 25 25 25 25 25 25
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon IDEAL: 50-2103	White	27 00 10 10 10 10 10 10 10 10 10 10 10 10



OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon TE: 2213254-2	White	34 Ba 24 Ba 25 Ba 26 Ba 26 Ba 27 Ba 28 Ba 29 Ba 20
OSRAM		125 <sup>°</sup> 0 <sup>°</sup> 15 <sup>°</sup>
opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon	White	32. 04. 32. 34.   24. 06. 06. 06.   25. 06. 06. 05.   35. 06. 05. 05.   35. 06. 05. 05.   35. 06. 05. 05.   35. 06. 05. 05.   35. 06. 05. 05.   36. 06. 05. 05.   36. 06. 05. 05.   36. 06. 05. 05.   36. 06. 05. 05.   36. 06. 05. 05.
OSRAM Opto Semiconductors		90° 90°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon F13671_ANGE TE: 2213407-2	White ents: -RZ-LENS + OPTIC CLIP Z50 TYPE1 2213194-1	30 00 00 00 00 00 00 00 00 00
DHILLP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compon TE: 2213134-2	Fortimo SLM L15 + SLM holder 62.0° 89 % 1 cd/lm 1 White	21, 0, 12, 0, 12, 24, 24, 24, 24, 24, 24, 24, 24, 24, 2



SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAM F13671_ANGE Bender Wirth: {	LC035T (Tunable white) 66.0° 84 % 0.8 cd/lm 1 Tunable White ments: IP-VERO29 RZ-LENS	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C13584_CLAM Bender Wirth: {	LC035T (Tunable white) 65.0° 89 % 0.9 cd/lm 1 Tunable White nents: IP-VERO29	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: 2213382-2	LC040C 53.0° 89 % 1.2 cd/lm 1 White	
seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor Optosource: SI	White ments:	



seoul SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor F13671_ANGE Optosource: SI	White nents: -RZ-LENS EHSMJD-A	200 97 97 90 90 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor TE: OPTIC CLI	WU-M-484 56.0° 89 % 1.1 cd/lm 1 White	2, 2, 6, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
XICATC LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor C16491_XTM-	XIM - 19mm LES 66.0° 90 % 0.9 cd/lm 1 White	



## PHOTOMETRIC DATA (SIMULATED):

bridgelux.		90* 90*
LED	V13 Gen7	
FWHM	51.0°	
Efficiency	90 %	60°
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	42. 600 42.
Required component	ts:	
C13658_CLAMP-	VERO13-18	
Bender Wirth: 477	Typ L1	1200
		300 300
		15° 0° 35°
()		
bridgelux.		30* 90*
bridgelux. LED	V22 Gen7	90 <sup>+</sup>
	V22 Gen7 55.0°	90 <sup>4</sup> 70 <sup>4</sup> 70 <sup>5</sup>
LED		60 60 31 32 35 35 35 35 35 35 35
LED FWHM	55.0°	95* 95 75 66 60 60 60
LED FWHM Efficiency	55.0° 94 %	91 <sup>+</sup> 91 <sup>+</sup> 91 <sup>+</sup> 72 <sup>+</sup> 92 <sup>+</sup> 80 <sup>+</sup>
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	55.0° 94 % 1.3 cd/lm 1 White	90 <sup>4</sup> 90 <sup>7</sup> 70 <sup>4</sup> 70 <sup>9</sup> 90 <sup>4</sup> 60 <sup>4</sup> 91 <sup>4</sup> 800 60 <sup>4</sup>
LED FWHM Efficiency Peak intensity LEDs/each optic	55.0° 94 % 1.3 cd/lm 1 White	90* 90* 72* 60* 60* 60* 60* 60* 60* 60* 60* 60* 60
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour	55.0° 94 % 1.3 cd/lm 1 White ts:	5,
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	55.0° 94 % 1.3 cd/lm 1 White ts:	5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required componen	55.0° 94 % 1.3 cd/lm 1 White ts:	5° 5° 6° 6° 100 100 100 100 100 100 100 10



#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **MATERIALS:**

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

#### LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

#### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/

where\_to\_buy