




WHITE LED ENGINE SPECIFICATION

Engine	 E2 x 2		 F1 x 2		
Beam angles	10°, 19°, 34°, 54°, 15°x 49°		25°, 37°, 65°, 18°x 45°.		
LED manufacturer	CREE		CREE		
Colour temperature*	2700K / 3000K / 4000K / 5000K		2200K		
Current	350mA	500mA	350mA	500mA	700mA
LED power (Max)	8.4W (10W**)	12W (14W**)	6.4W (7W**)	9W (10W**)	12.6W (14W**)
Delivered lumens (L ₁₀₀)	784	948	490	610	812
Lumens per circuit watt	79	68	70	61	58
CRI (Min)	85		90		
Forward voltage (V ₁₀₀)	28V		18V		
Colour consistency	2 SCDM		3 SCDM		
Peak intensity	4727 cd		1641		
LED lumens	1328		1246		
LOR	0.72		0.59		
TM30	RF85	RG98	RF90	RG103	
UGR***	8.0		8.1		
LED lifetime	L90B5 at 90,000hrs				
Applications					

These values are based around a LD10236-E2-700-LW30-NB & LD10236 -F1-700-LW22-MSB

*see lumen variance table to the right

**indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver





***UGR values based on room parameters of 4H 8H, C70 W50 F20

Lumen variance by CCT	
2700K	+/- 0%
4000K	+7%
5000K	+16%

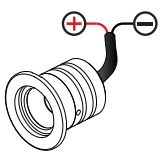
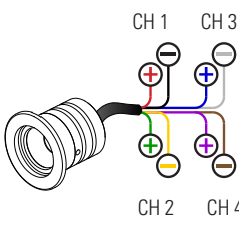
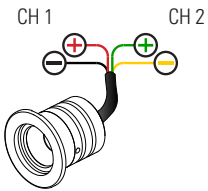
MECHANICAL

Ambient temperature	-20°-45° (350mA) or -20°-35° (500mA)
Glass	Low iron glass 3mm thick
Materials	Anodised aluminium body, with stainless steel fixing brackets
Weight of product	1.26kg
IP rating	IP67
IK rating	IK08
Wiring	Constant current wiring (pre-wired with 2 core cable at a length of 1m)

COLOUR & DYNAMIC LED ENGINE SPECIFICATION

Engine	 CL - Colour x 2	 RGBW x 2	 TW - Tunable White x 2
Beam angles	10°, 19°, 34°, 54°, 15°x 49°	38° colour mix lens	24°, 38°, 54°, 20°x 46°
LED manufacturer	CREE	CREE	CREE
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue, 4000K White	Warm White 2700K or 3000K Cool White 4000K or 5000K
Current	700mA	350mA 500mA	500mA
LED power (Max)	28W	7W 10W	12.6W (14W*) 7W per channel
Applications			

MECHANICAL

Glass	Low iron glass 3mm thick		
Materials	Anodised aluminium body, with stainless steel fixing brackets		
Weight of product	1.26kg		
IP rating	IP67		
IK rating	IK08		
Wiring	<p>CL - 2 core cables at 250mm in length</p> 	<p>RGBW - 8 core cables at 250mm in length</p> 	<p>TW - 4 core cables at 250mm in length</p> 

AVAILABLE FINISHES

Please refer to our finishes guide for full details

The LD10236 body is a machined single billet of aluminium and is painted in-house at LightGraphix. Paint finishes are suitable for interior and exterior use on surface mounted products. Our standard colours are below but we can accommodate any RAL request.



SILVER ANODISED



ANTIQUÉ BRONZE



SATIN ANTIQUÉ BRASS



SATIN ANTIQUÉ BRASS



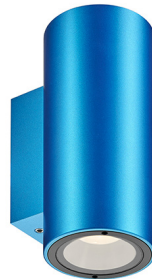
BLACK (RAL 9005)



ANTHRACITE GREY (RAL 7016)



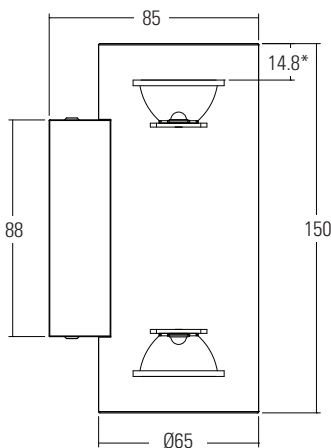
WHITE (RAL 9016)



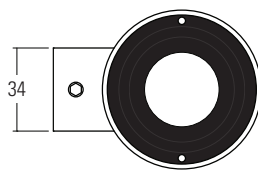
RAL

DIMENSIONS

Dimensions in mm



* 4.3mm when using the taller RGBW optic



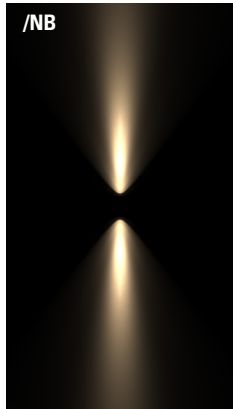
Design: Stan Baxter Lighting Design
Project: Private Residence
Product: LD10236



CONE DIAGRAMS

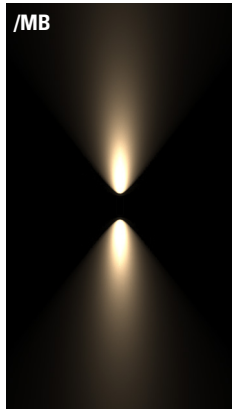
E2 LED Engine

Cone diagrams below are based on a 3000K E2 LED engine run at maximum output 500mA in one direction. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10236 product page on the website.



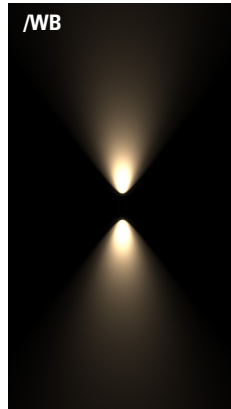
Narrow Beam
500mA using a 10° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	0.64	686
2.5	0.53	987
2.0	0.43	1542
1.5	0.32	2742
1.0	0.21	6170
0.5	0.11	24679



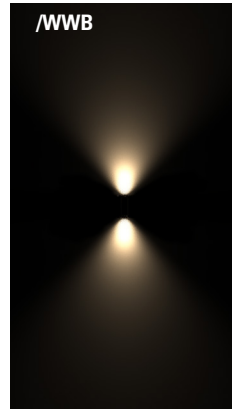
Medium Beam
500mA using a 19° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	0.96	318
2.5	0.80	457
2.0	0.64	715
1.5	0.48	1270
1.0	0.32	2858
0.5	0.16	11433



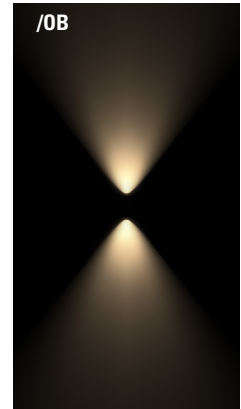
Wide Beam
500mA using a 34° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	1.78	120
2.5	1.48	172
2.0	1.18	269
1.5	0.89	479
1.0	0.59	1078
0.5	0.30	4312



Extra Wide Beam
500mA using a 54° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	3.26	52
2.5	2.71	75
2.0	2.17	118
1.5	1.63	210
1.0	1.09	472
0.5	0.54	1887

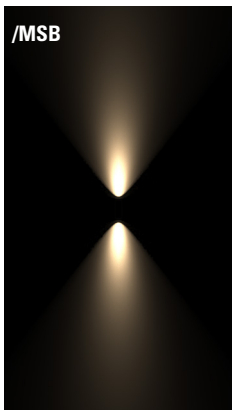


Oval Beam
500mA using a 15° X 49° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	2.46 / 0.76	192
2.5	2.05 / 0.63	276
2.0	1.64 / 0.51	432
1.5	1.23 / 0.38	767
1.0	0.82 / 0.25	1726
0.5	0.41 / 0.13	6905

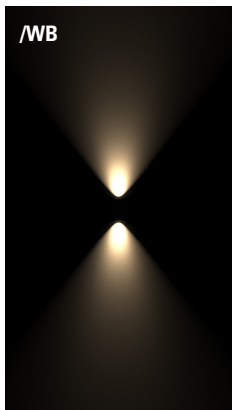
F1 LED Engine

Cone diagrams below are based on a 2200K F1 LED engine run at maximum output 700mA in one direction. Photometric files (LDT) are included in the design pack which can be downloaded from the LD10236 product page on the website.



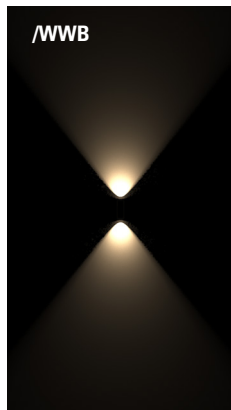
Medium Spot Beam
700mA using a 25° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	1.17	202
2.5	0.97	290
2.0	0.78	454
1.5	0.58	806
1.0	0.39	1814
0.5	0.19	7256



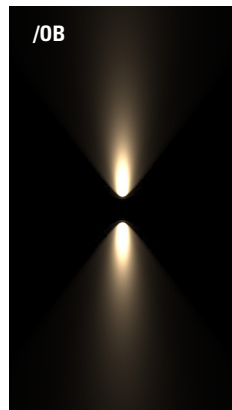
Wide Beam
700mA using a 46° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	2.02	82
2.5	1.68	119
2.0	1.35	185
1.5	1.01	330
1.0	0.67	742
0.5	0.34	2968



Extra Wide Beam
700mA using a 65° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	3.85	39
2.5	3.21	56
2.0	2.57	88
1.5	1.93	156
1.0	1.28	351
0.5	0.64	1402



Oval Beam
700mA using a 43° X 25° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	2.47 / 0.91	149
2.5	2.06 / 0.76	214
2.0	1.65 / 0.60	335
1.5	1.24 / 0.45	595
1.0	0.82 / 0.30	1339
0.5	0.41 / 0.15	5357

ORDER CODES & OPTIONS

Example: LD10236-E2-500 / LW30 / NB / Silver Anodised

Light Engine & Drive Current	/	LED Colour	/	Beam angle	/	Finish
LD10236 -	/		/		/	

WHITE LED ENGINES

 E2

5W LED at 350mA	LD10236-E2-350
7W LED at 500mA	LD10236-E2-500

Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50

10° Narrow spot	/NB
19° Medium	/MB
34° Wide	/WB
54° Extra wide	/WWB
15° x 49° Oval	/OB

 F1

3.5W LED at 350mA	LD10236-F1-350
5W LED at 500mA	LD10236-F1-500
7W LED at 700mA	LD10236-F1-700

Super Warm White (2200K)	/LW22
--------------------------	-------

25° Medium spot	/MSB
46° Wide	/WB
65° Extra wide	/WWB
43° x 25° Oval	/OB

COLOUR & DYNAMIC LED ENGINES

 CL

7W LED at 500mA	LD10236-CL-500
-----------------	----------------

Red	/LR
Green	/LG
Blue	/LB
Amber	/LA

10° Narrow spot	/NB
19° Medium	/MB
34° Wide	/WB
54° Extra wide	/WWB
15° x 49° Oval	/OB

 RGBW

3.5W LED at 350mA	LD10236-RGBW-350
5W LED at 500mA	LD10236-RGBW-500

38° Colour mix lens

 TW

3.5W LED at 350mA	LD10236-TW-350
-------------------	----------------

Tunable White 2700K & 4000K (standard option)	/LW27 + LW40
Tunable White 2700K & 5000K	/LW27 + LW50
Custom	/LW** + L**

24° Medium	/MB
38° Wide	/WB
54° Extra wide	/WWB
20° x 46° Oval	/OB



Paint finish - Silver Anodized



Paint finish - Antique Bronze



Paint Finish - Satin Antique Brass



Paint Finish - Satin Brass



Paint Finish - Black (RAL 9005)



Paint Finish - Anthracite Grey (RAL 7016)



Paint Finish - White (RAL 9016)



Paint Finish - RAL

Drivers
Use with 350mA, 500mA & 700mA constant current LED drivers We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.