



3	Warm White LED (3000K)	CRI 80				CRI 90			
		12W	17W	22W	28W	12W	17W	22W	28W
	Lumen Output	2041 lm	2885 lm	4099 lm	5206 lm	1650 lm	2330 lm	3297 lm	4206 lm
	LOR	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
	CRI	80	80	80	80	90	90	90	90
	Total Power	12.5W	17.7W	23.5W	30.7W	12.5W	17.7W	23.5W	30.7W
	Power Factor	0.94	0.96	0.96	0.93	0.94	0.96	0.96	0.93
	Running Current	0.06A	0.08A	0.11A	0.14A	0.06A	0.08A	0.11A	0.14A
	Inrush Current (Std)	3.5A (35us)	18A (210us)	25.9A (252us)	50.6A (210us)	3.5A (35us)	18A (210us)	25.9A (252us)	50.6A (210us)
	Inrush Current (Dim)	10A (80us)	10A (80us)	26A (264us)	50A (209us)	10A (80us)	10A (80us)	26A (264us)	50A (209us)
	Efficacy	132 lm/W	132 lm/W	141 lm/W	137 lm/W	106 lm/W	106 lm/W	113 lm/W	110 lm/W
	Emergency Output (BLF)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

4	Neutral White LED (4000K)	CRI 80				CRI 90			
		12W	17W	22W	28W	12W	17W	22W	28W
	Lumen Output	2143 lm	3023 lm	4294 lm	5445 lm	1796 lm	2533 lm	3620 lm	4592 lm
	LOR	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
	CRI	80	80	80	80	90	90	90	90
	Total Power	12.5W	17.7W	23.5W	30.7W	12.5W	17.7W	23.5W	30.7W
	Power Factor	0.94	0.96	0.96	0.93	0.94	0.96	0.96	0.93
	Running Current	0.06A	0.08A	0.11A	0.14A	0.06A	0.08A	0.11A	0.14A
	Inrush Current (Std)	3.5A (35us)	18A (210us)	25.9A (252us)	50.6A (210us)	3.5A (35us)	18A (210us)	25.9A (252us)	50.6A (210us)
	Inrush Current (Dim)	10A (80us)	10A (80us)	26A (264us)	50A (209us)	10A (80us)	10A (80us)	26A (264us)	50A (209us)
	Efficacy	138 lm/W	138 lm/W	148 lm/W	143 lm/W	116 lm/W	115 lm/W	124 lm/W	121 lm/W
	Emergency Output (BLF)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table applies to one LED Light Engine

Aleda® Ported Duet



LED CRI 80

Power	LED	Duet	BX398	LED	12	17	22	28	+	377
2x 12W	LED	Duet	BX398	LED	12	17	22	28	+	377
2x 17W	LED	Duet	BX398	LED	17	17	22	28	+	377
2x 22W	LED	Duet	BX398	LED	22	17	22	28	+	377
2x 28W	LED	Duet	BX398	LED	28	17	22	28	+	377

LED CRI 90

Power	LED	Duet	BX399	LED	12	17	22	28	+	378
2x 12W	LED	Duet	BX399	LED	12	17	22	28	+	378
2x 17W	LED	Duet	BX399	LED	17	17	22	28	+	378
2x 22W	LED	Duet	BX399	LED	22	17	22	28	+	378
2x 28W	LED	Duet	BX399	LED	28	17	22	28	+	378

- A Integral Driver/Remote
- J Switch Dim
- S DALI Dim
- L DALI Bluetooth

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

Reflector	CRI 80	CRI 90
480 2x Narrow Beam	379	380
481 2x Wide Beam	381	382

Luminescent Halo, Baffle - Examples Shown on page 2

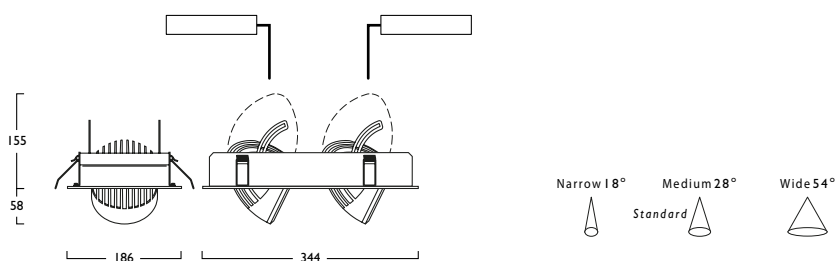
- LED multi head styling neatly integrated into semi recessed design
- Single point Zhaga Book 3 LED
- Choice of lumen outputs, delivering up to 5445 lumens per Aleda® head
- Efficacies up to 148 lm/W
- Life expectancy in excess of 57,000 hours (L90 B10)
- CRI 80 and CRI 90 versions available, colour stability within 3 MacAdams
- White, Black, Urban Graphite Bezel colour options.
- Inner recess and Aleda® luminaire(s) finished in Black (colour options available on request)
- Wireless Lighting Control available
- Digital Dim and Digital Dim + Emergency options available

Tel: (0191) 280 9911 Email: technical@hacel.co.uk Web: www.hacel.co.uk V4 - 04/2026

* All values provided in this document are subject to International standards and electronic components from leading suppliers which are subject to +/- 10% tolerance and apply at an ambient temperature of 25°C. Hacer Lighting look to constantly improve it's product and reserve the right to change specifications without prior notification.



Aleda® Ported Duet



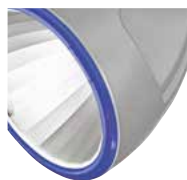
230V 50Hz **IP** 20 64° 350° 330 x 171mm 2.3 kg

Options

■ Luminescent Halo Options



486 2x Etched Ice



487 2x Neptune Blue



488 2x Mars Red



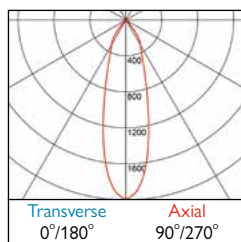
489 2x Acid Green

■ Baffle Option

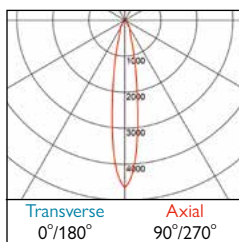


490 2x Anti Glare Baffle

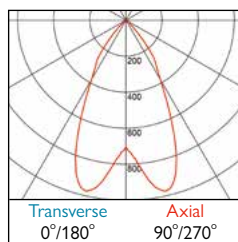
Photometrics



377-378 DLOR: 0.81



379-380 DLOR: 0.83



381-382 DLOR: 0.86

Tel: (0191) 280 9911 Email: technical@hacel.co.uk Web: www.hacel.co.uk

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