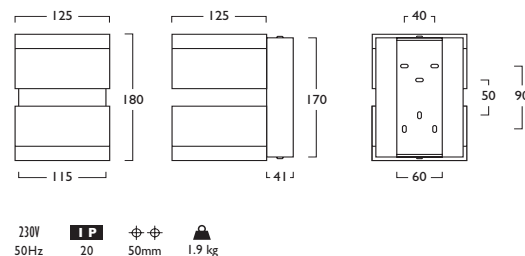


3	Warm White LED (3000K)	CRI 80	13W	16W	23W
	Lumen Output		2316 lm	2876 lm	3968 lm
	LOR		0.84	0.84	0.84
	CRI		80	80	80
	Total Power		15W	18.5W	25.5W
	Power Factor		0.96	0.96	0.97
	Running Current		0.07A	0.08A	0.11A
	Inrush Current (STD)		3.5A (35us)	18A (210us)	24A (200us)
	Inrush Current (DIM)		10A (80us)	10A (80us)	3.31A (43us)
	Efficacy		129 lm/W	130 lm/W	130 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A

4	Neutral White LED (4000K)	CRI 80	13W	16W	23W
	Lumen Output		2430 lm	3018 lm	4164 lm
	LOR		0.84	0.84	0.84
	CRI		80	80	80
	Total Power		15W	18.5W	25.5W
	Power Factor		0.96	0.96	0.97
	Running Current		0.07A	0.08A	0.11A
	Inrush Current (STD)		3.5A (35us)	18A (210us)	24A (200us)
	Inrush Current (DIM)		10A (80us)	10A (80us)	3.31A (43us)
	Efficacy		136 lm/W	137 lm/W	137 lm/W
	Emergency Output (BLF)		N/A	N/A	N/A

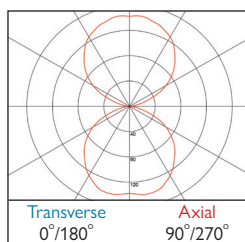


Quba Duet

LED	13W	16W	23W
LED	LED	LED	LED
WL061	WL061	WL061	WL061
—	—	—	—
LED	LED	LED	LED
—	—	—	—
13	16	23	427
—	—	—	—
427	427	427	—

- Sharp design, cutting edge appearance
- Available in a choice of lumen outputs, delivering up to 4164 lumens
- Efficacies up to 137 lm/W
- Discreetly etched polycarbonate diffusers
- Life expectancy in excess of 72,000 hours (L80 B10)
- Colour stability within 3 MacAdams
- DSI available on request

Photometrics



427 ULOR: 0.41 DLOR: 0.41

- A Integral Driver/Remote
 - J Switch Dim
 - S DALI Dim
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

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

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* 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. Hacel Lighting look to constantly improve it's product and reserve the right to change specifications without prior notification.

