

# Vesta Series RGBW Array

## Bridgelux Differentiation

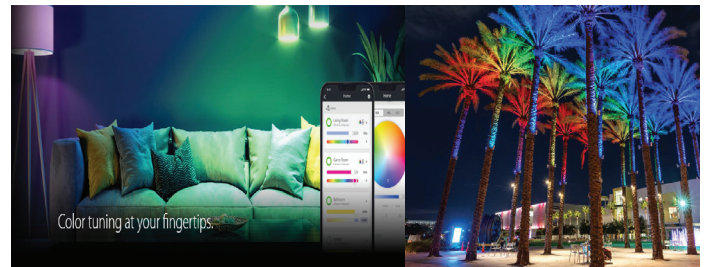
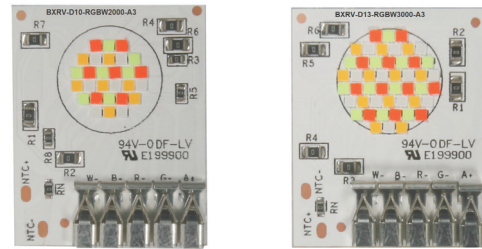
- 20+ years of driving LED industry transformation
- Vertical integration across chip, phosphor and package
- Broad product portfolio including CSPs, SMDs, COBs and modules
- Human centric and dynamic lighting technology leader

## Features and Benefits

- 10mm and 13mm LES RGBW LED Arrays offering CRI 90 and CRI 95
- 4 channel red, green, blue, and warm white LEDs on metal PC board
- High power and high lumen density in ultra-compact package
- Highest RGB performance in the industry
- White Tunable or selectable along BBC from 1800K to 6500K
- Variable drive current up to 30W, 4000lm at 6500K 90CRI
- Compatible with Bridglux Holder, Optical Lens and 4 Channel Driver

## Applications

- Decorative, Entertainment/stage, Architectural, Pool/fountain lighting
- Spotlight, Downlight, Linear, Area, Floor/wall
- Hospitality, Smart Home



Color	Drive Current (mA)	Voltage (V)		Power (W)		Typical Flux (lm)		Typical Efficacy (lm/W)
		D10	D13	D10	D13	D10	D13	
Red	300	20	33	6	10	210	347	35
Green	350	20	35	7	12	1222	2094	172
Blue	350	20	35	7	12	178	305	25
White	350	20	35	7	12	980	1680	138

## RGBW D10 and D13 Array Color Tunable Along BBC — Constant Flux @CCT from 1800K to 6500K

Nominal CCT (K)	CRI Op-tions	Nom. Drive Current Per Channel (mA)				CRI	Forward Voltage (V)				Typical Flux (lm)	Typ. Power (W)	Typ. Efficacy (lm/W)	LES (mm)
		White	Red	Green	Blue		White	Red	Green	Blue				
1800	90, 95	190	300	0	0	90	19.8	20.3	0.0	0.0	774	9.8	79	10 (D10)
2200		240	288	23	0		20.1	20.2	18.6	0.0	1018	11.1	92	
2700		425	257	60	13		21.0	20.1	19.0	18.0	1599	15.4	103	
3000		464	187	81	23		21.1	19.8	19.2	18.2	1741	15.5	113	
3500		471	136	110	38		21.2	19.5	19.4	18.4	1858	15.4	120	
4000		449	109	142	55		21.1	19.3	19.6	18.6	1941	15.4	126	
5000		412	75	182	86		20.9	19.0	19.9	18.9	2026	15.3	133	
5700		398	55	200	102		20.8	18.9	20.0	19.1	2056	15.3	135	
6500		377	40	220	118		20.7	18.7	20.1	19.2	2078	15.2	136	
1800	90, 95	190	300	0	0	90	33.8	34.7	0.0	0.0	1288	16.8	77	13 (D13)
2200		240	288	23	0		34.2	34.6	31.8	0.0	1685	18.9	89	
2700		425	257	60	13		35.6	34.3	32.5	30.8	2658	26.3	101	
3000		464	187	81	23		35.8	33.8	32.8	31.1	2912	26.3	111	
3500		471	136	110	38		35.9	33.3	33.2	31.5	3115	26.3	119	
4000		449	109	142	55		35.7	33.0	33.5	31.8	3266	26.1	125	
5000		412	75	182	86		35.5	32.6	33.9	32.3	3407	26.0	131	
5700		398	55	200	102		35.4	32.3	34.1	32.6	3465	26.0	133	
6500		377	40	220	118		35.3	32.0	34.3	32.8	3504	26.0	135	

All measurements are at T<sub>sp</sub> = 25°C. For more performance at each color point, please refer to the corresponding datasheet.

RGBW D10/D13 Array compatible with Bridgelux available holder (DS1341), housing, optical lens and 4 channel driver. Please contact your Bridgelux sales representative for details.

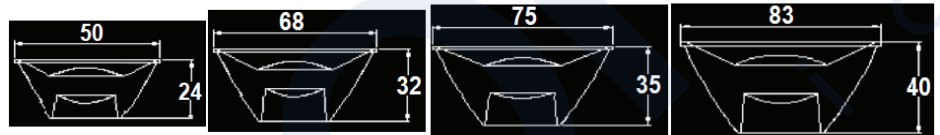
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## Moony Lens

Diameter	Height	Beam angle			
		15°	24°	36°	50°
50 mm	24 mm	/	/	36°	50°
68 mm	32 mm	15°	24°	36°	50°
75 mm	35 mm	15°	24°	36°	50°
83 mm	40 mm	15°	24°	36°	50°



### Product Part number for the Parts of RGBW D10 and D13 Array

Nm	Product /Parts	Bridgelux Part Number	Description
1	COB Holder	BXHD-RGBW-D50-35-15	RGBW D10/D13 holder
2	Lens Holder	BXHK-DK-6834-0951-So	68mm lens holder, white
3		BXHK-DK-6834-0951-SH	68mm lens holder, black
4		BXHK-DK-7537-0406-So	75mm lens holder, white
5		BXHK-DK-7537-0406-SH	75mm lens holder, black
6		BXHK-DK-7537-1126-Oo	75mm lens holder, transparent
7		BXHK-DK-8344-0989-So	83mm lens holder, white
8	Moony Lens	BXHK-MN-5024-36-D9	Moony Diameter 50mm, 36°
9		BXHK-MN-5024-50-D9	Moony Diameter 50mm, 50°
		BXHK-MN-6832-15-D12	Moony Diameter 68mm, 15°
		BXHK-MN-6832-24-D12	Moony Diameter 68mm, 24°
10		BXHK-MN-6832-36-D12	Moony Diameter 68mm, 36°
11		BXHK-MN-6832-50-D12	Moony Diameter 68mm, 50°
12		BXHK-MN-7535-15-D14	Moony Diameter 75mm, 15°
13		BXHK-MN-7535-24-D14	Moony Diameter 75mm, 24°
14		BXHK-MN-7535-36-D14	Moony Diameter 75mm, 36°
15		BXHK-MN-7535-50-D14	Moony Diameter 75mm, 50°
16	BXHK-MN-8340-15-D12	Moony Diameter 83mm, 15°	
17	BXHK-MN-8340-24-D14	Moony Diameter 83mm, 24°	
18	BXHK-MN-8340-36-D14	Moony Diameter 83mm, 36°	
19	BXHK-MN-8340-50-D14	Moony Diameter 83mm, 50°	
20	D10 COB Driver	RGBW-W4-17W-U05-C	D10 COB driver, round (EPT)
21		BXDR-PS-20BS-U405W-01-A	D10 COB driver, rectangular
22	D13 COB Driver	RGBW-W4-30W-U05-C	D13 COB driver, round (EPT)
23		BXDR-PS-42BS-U411W-01-A	D13 COB driver, rectangular