

ProLight

ProLight
SINCE 2004

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**LED PACKAGE
HIGH POWER**

 **CATALOG**
PROLIGHT 2019
www.prolightopto.com

CATALOG 2020

CUSTOMIZATION
SPECIALTY
DIFFERENTIATION

ABOUT

ProLight

ProLight was established in 2004, dedicated on the research, development and manufacturing in lighting application. We then shift to pursue more technological innovation for different LED application fields, such as automotive, UV, IR, plant grow etc.

ProLight as a LED solution provider, we provide LED light source and module solution to contribute the best value to customers.

As a green lighting manufacturer, ProLight devotes to make products to be Eco-friendly. Therefore, all products comply with RoHS / ISO-14001 / TS-16949 and LM-80. We wish to bring high quality green life to you.

✓ RoHS / ISO 14001 / TS 16949 / LM-80

03 General Lighting EMITTER

- 03 Phenix 3535
- 07 Phenix 3030
- 08 CRAB 4050
- 09 CSP 1616

13 COB

- 13 Tunable White
- 16 Warm on Dim
- 17 RainboWhite
- 18 Foodfresh
- 19 PACJ
- 21 PACK
- 23 PACL
- 25 PACN
- 11 Proeon
- 12 Low Blue Light Hazard Human Centric Lighting

26 Entertainment Lighting

- 26 Spot Light
- 29 Multi-Color in 1
- 42 Mono color

44 Automotive series

- 44 PRO-CSP Headlamp
- 46 Emitter
- 48 Warning Light

49 UV series

- 49 UV Quartz Lens
- 52 UV Quartz Lens module
- 53 UV Silicon Lens
- 54 UVC
- 55 UV Nail Curing

56 Plant Growing series

- 56 Plant Growing

58 IR series

- 58 IR

59 Standard Binning Structure

GENERAL Series LIGHTING

DIFFERENTIATION SPECIALTY CUSTOMIZATION

PHENIX 3535

• Industry standard 3535 package.



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
						Min.	Max.			
2	PK2E-2LWE-B2R7	○ White	70	350	3.1	5000 K	7000 K	130	700	W2 / X1 / X2*
	PK2E-2LNE-B2R7	○ Neutral White	70	350	3.1	3800 K	5000 K	130	700	W2 / X1 / X2*
	PK2E-2LVE-B2R7	● Warm White	70	350	3.1	2700 K	3250 K	130	700	W1 / W2 / X1*
	PK2E-2LWE-B2R8	○ White	80	350	3.1	5000 K	7000 K	130	700	W1 / W2 / X1*
	PK2E-2LNE-B2R8	○ Neutral White	80	350	3.1	3800 K	5000 K	130	700	W1 / W2 / X1*
	PK2E-2LVE-B2R8	● Warm White	80	350	3.1	2700 K	3250 K	130	700	V2 / W1 / W2*
	PK2E-2LWE-B2R7S	○ White	70	350	3.05	5000 K	6300 K	130	700	X1 / X2* / Y1*
	PK2E-2LWE-B2R8S	○ White	80	350	3.05	5000 K	6300 K	130	700	W2 / X1* / X2*
	PK2E-2LNE-B2R8S	○ Neutral White	80	350	3.05	3800 K	5000 K	130	700	W1 / W2* / X1*
	PK2E-2LVE-B2R8S	● Warm White	80	350	3.05	2700 K	3250 K	130	700	W1 / W2*
3	PK2E-3LWE-BR7	○ White	70	350	3.2	5000 K	7000 K	130	700	V1* / V2 / W1 / W2* / X1*
	PK2E-3LNE-R7	○ Neutral White	70	350	3.2	3800 K	5000 K	130	700	V1* / V2 / W1 / W2* / X1*
	PK2E-3LWE-BR8	○ White	80	350	3.2	5000 K	7000 K	130	700	U2 / V1 / V2* / W1* / W2*
	PK2E-3LNE-R8	○ Neutral White	80	350	3.2	3800 K	5000 K	130	700	U1* / U2 / V1 / V2* / W1* / W2*
	PK2E-3LVE-R8	● Warm White	80	350	3.2	2700 K	3250 K	130	700	U1 / U2 / V1 / V2* / W1*
	PK2N-3LWE-SD	○ White	74	350	3.1	4100 K	10000 K	130	700	V2* / W1 / W2 / X1*
	PK2N-3LVE-R7	● Warm White	70	350	3.1	2500 K	4100 K	130	700	V1 / V2 / W1 / W2* / X1*
	PK2N-3LWE-R8	○ White	84	350	3.1	4100 K	10000 K	130	700	V1 / V2 / W1*
	PK2N-3LVE-R8	● Warm White	80	350	3.1	2500 K	4100 K	130	700	U2 / V1 / V2 / W1* / W2*
	PK2N-3LVE-R95	● Warm White	93	350	3.1	2500 K	4100 K	130	700	T2 / U1 / U2* / V1* / V2*
	PK2N-3LNE-R8	○ Neutral White	80	350	3.1	3500 K	5000 K	130	700	V1 / V2 / W1* / W2*
	PK2N-3LWE-BSR	○ White	70	350	3.1	5000 K	10000 K	130	700	V2* / W1 / W2 / X1*
PK2N-3LWE-BR8	○ White	80	350	3.1	5000 K	10000 K	130	700	V1 / V2 / W1 / W2* / X1*	
4	PK2N-4LWE-SBVR7	○ White	70	350	2.95	5000 K	7000 K	130	1000	W1 / W2 / X1 / X2*
	PK2N-4LNE-SBVR8	○ Neutral White	80	350	2.95	3360 K	4120 K	130	1000	V2 / W1 / W2 / X1*
	PK2N-4LVE-SBVR8	● Warm White	80	350	2.95	2660 K	3120 K	130	1000	V1 / V2 / W1 / W2*

General Lighting

Entertainment

Automotive

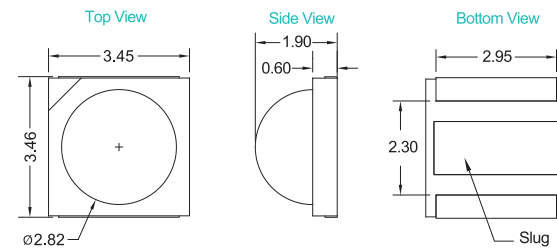
UV

Plant Growing

IR

General Lighting Emitter

PHENIX 3535



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2 θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
						Min.	Max.			
5	PK2E-5LWE-BR7	White	70	350	3.05	5000 K	8050 K	130	1200	W1 / W2 / X1*
	PK2E-5LNE-R7	Neutral White	70	350	3.05	3800 K	5000 K	130	1200	W1 / W2 / X1*
	PK2E-5LVE-R7	Warm White	70	350	3.05	2700 K	3250 K	130	1200	V2 / W1 / W2* / X1*
	PK2E-5LWE-BR8	White	80	350	3.05	5000 K	8050 K	130	1200	V2 / W1 / W2* / X1*
	PK2E-5LNE-R8	Neutral White	80	350	3.05	3800 K	5000 K	130	1200	V2 / W1 / W2* / X1*
	PK2E-5LVE-R8	Warm White	80	350	3.05	2700 K	3250 K	130	1200	V1 / V2 / W1* / W2*
	PK2N-5LWE-BVR7	White	70	350	2.9	5000 K	7000 K	130	1500	X1 / X2 / Y1*
	PK2N-5LNE-BVR7	Neutral White	70	350	2.9	3800 K	5000 K	130	1500	X1 / X2 / Y1*
	PK2N-5LNE-BVR8	Neutral White	80	350	2.9	3800 K	5000 K	130	1500	W2 / X1 / X2*
	PK2N-5LVE-BVR8	Warm White	80	350	2.9	2700 K	3250 K	130	1500	W1 / W2 / X1*

* ask for stock

Bin Code - Phenix 3535 3W & 4W & 5W Photometric Luminous Flux (lm)

Bin	P	Q	R	S1	S2	T1	T2	U1	U2	V1	V2	W1	W2	X1	X2	Y1
min	23.5	30.6	39.8	50	60	70	80	90	100	110	120	130	140	155	170	185
max	30.6	39.8	51.7	60	70	80	90	100	110	120	130	140	155	170	185	200

Bin Code - Phenix 3535 2W Photometric Luminous Flux (lm)

Bin	V2	W1	W2	X1	X2	Y1
min	120	130	145	160	175	190
max	130	145	160	175	190	210

Bin Code - Phenix 3535 Radiometric Power (mw)

Bin	R	S	T
min	560	610	660
max	610	660	710

PHENIX 3535



Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	λ_D/λ_P		2 θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
					Min.	Max.			
3	PK2N-3LRE-SD	Red	350	2.2	613.5 nm	631 nm	130	700	S1 / S2 / T1*
	PK2N-3LAE-SD	Amber	350	2.2	587 nm	597 nm	130	700	S1 / S2 / T1 / T2* / U1*
	PK2N-3LGE-SD	Green	350	3.1	515 nm	535 nm	130	700	U1* / U2 / V1 / V2 / W1 / W2 / X1* / X2*
	PK2N-3LCE-SD	Cyan	350	3.1	495 nm	515 nm	130	700	T1 / T2 / U1* / U2*
	PK2N-3LBE-SD	Blue	350	3.1	455 nm	475 nm	130	700	P / Q / R*
4	PK2N-4LRE-SSD	Red	350	2.2	610 nm	630 nm	130	1000	R / S1 / S2* / T1* / T2*
	PK2N-4LGE-SSD	Green	350	3.3	525 nm	535 nm	130	1000	V1 / V2 / W1* / W2*
	PK2N-4LDE-SSD	Royal Blue	350	2.95	450 nm	460 nm	130	1000	R / S / T* (ref. Bin code-mW)
	PK2N-4LPE-SASD	PC Amber	350	2.95	587.8 nm	590.4 nm	130	1000	U1 / U2 / V1 / V2*

* ask for stock

PHENIX 3535NV

Phenix 3535NV is designed with narrow viewing angle to deliver more focused point light source.



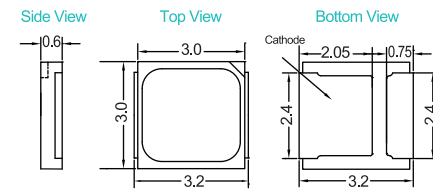
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2 θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
						Min.	Max.			
3	PK2N-3JWE-BVSD	White	70	350	3.1	5000 K	10000 K	55	700	U2 / V1 / V2 / W1* / W2*
	PK2N-3JNE-BVR7	Neutral White	70	350	3.1	3500 K	5000 K	55	700	U2 / V1 / V2 / W1* / W2*
	PK2N-3JVE-BVR8	Warm White	80	350	3.1	2700 K	3500 K	55	700	T2 / U1 / U2 / V1* / V2*

* ask for stock

General Lighting Emitter

PHENIX 3030

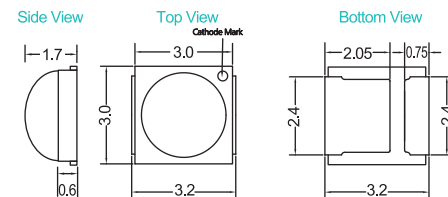
- Industry standard 3030 package.
- Available with Dome lens or Flat emitting surface.



1W



Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Bin Code (lm)
					Min.	Max.		
PW2N-1FWE-2SCR7A	○ White	70	150	6.4	4745 K	6950 K	120	V2 / W1 / W2*
PW2N-1FNE-2SCR7A	○ Neutral White	70	150	6.4	3700 K	4250 K	120	V2 / W1 / W2*
PW2N-1FVE-2SCR7A	● Warm White	70	150	6.4	2850 K	3250 K	120	V1 / V2 / W1*
PW2N-1FWE-N2SCR8A	○ White	80	150	6.4	4745 K	6950 K	120	V2 / W1 / W2* / X1*
PW2N-1FNE-N2SCR8A	○ Neutral White	80	150	6.4	3250 K	4250 K	120	V2 / W1 / W2* / X1*
PW2N-1FVE-N2SCR8A	● Warm White	80	150	6.4	2580 K	3250 K	120	V1 / V2 / W1* / W2*



2W



Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Bin Code (lm)
					Min.	Max.		
PJ2E-2LWE-2SC	○ White	70	150	6.2	4745 K	6950 K	130	V2 / W1 / W2 / X1*
PJ2E-2LNE-2SC	○ Neutral White	70	150	6.2	3700 K	4250 K	130	V2 / W1 / W2 / X1*
PJ2E-2LWE-N2SCR8	○ White	80	150	6.2	4745 K	6950 K	130	V1 / V2 / W1 / W2*
PJ2E-2LNE-N2SCR8	○ Neutral White	80	150	6.2	3700 K	4250 K	130	V1 / V2 / W1 / W2*
PJ2E-2LVE-N2SCR8	● Warm White	80	150	6.2	2580 K	3250 K	130	U2 / V1 / V2 / W1*
PJ2E-2LWE-2	○ White	70	300	3.1	4745 K	6950 K	130	W1 / W2 / X1*
PJ2E-2LNE-2	○ Neutral White	70	300	3.1	3700 K	4250 K	130	V2 / W1 / W2 / X1*
PJ2E-2LWE-N2R8	○ White	80	300	3.1	4745 K	6950 K	130	V1 / V2 / W1 / W2*
PJ2E-2LNE-N2R8	○ Neutral White	80	300	3.1	3700 K	4250 K	130	V1 / V2 / W1 / W2*
PJ2E-2LVE-N2R8	● Warm White	80	300	3.1	2580 K	3250 K	130	U2 / V1 / V2 / W1*

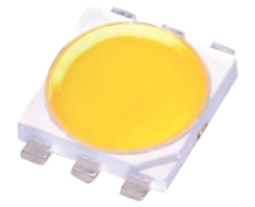
Bin Code - 3030 Photometric Luminous Flux (lm)

Bin	U2	V1	V2	W1	W2	X1
min	100	110	120	130	140	155
max	110	120	130	140	155	170

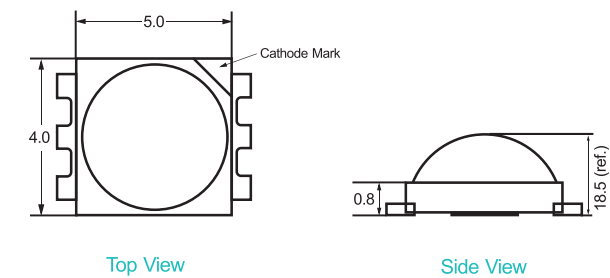
* ask for stock

CRAB 4050

- High flux.



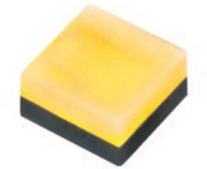
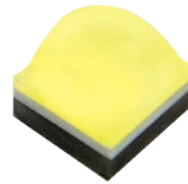
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Im/W (Typ.)	CCT		2θ _{1/2} (°)
							Min.	Max.	
3	PN6N-3LWE-A6R7	○ White	70	180	5.6	192	4750 K	5300 K	135
	PN6N-3LVE-A6R7	● Warm White	70	180	5.6	188	2700 K	3050 K	135
	PN6N-3LVE-A6R8	● Warm White	80	180	5.6	178	2700 K	3050 K	135
4	PN6N-4LWE-9PR7	○ White	70	120	8.5	176	4745 K	7030 K	140
	PN6N-4LNE-9PR7	○ Neutral White	70	120	8.5	174	3700 K	4250 K	140
	PN6N-4LVE-9PR7	● Warm White	70	120	8.5	153	2850 K	3250 K	140
	PN6N-4LWE-9PR8	○ White	80	120	8.5	163	4745 K	7030 K	140
	PN6N-4LNE-9PR8	○ Neutral White	80	120	8.5	160	3700 K	4250 K	140
	PN6N-4LVE-9PR8	● Warm White	80	120	8.5	155	2850 K	3250 K	140
	PN6N-4LWE-9PR9	○ White	90	120	8.5	123	4745 K	7030 K	140
	PN6N-4LNE-9PR9	○ Neutral White	90	120	8.5	127	3700 K	4250 K	140
	PN6N-4LVE-9PR9	● Warm White	90	120	8.5	120	2850 K	3250 K	140



General Lighting Emitter

CSP 1616

- Support the highest drive current up to 1A.
- Available with Dome lens or Flat emitting surface.



PQ2N

Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
						Min.	Max.			
4	PQ2N-4LWE-FC	○ White	70	350	3.0	4800 K	6450 K	130	1000	V2 / W1 / W2*
	PQ2N-4LNE-FC	○ Neutral White	70	350	3.0	4200 K	4800 K	130	1000	V2 / W1* / W2*
	PQ2N-4LVE-FCR8	● Warm White	83	350	3.0	2580 K	3250 K	130	1000	U2 / V1 / V2*
	PQ2N-4LWE-WFC	○ White	70	350	3.0	4800 K	6450 K	130	1000	W2 / X1* / X2*
	PQ2N-4LNE-WFC	○ Neutral White	70	350	3.0	3710 K	4800 K	130	1000	W2 / X1*
	PQ2N-4LVE-WFCR8	● Warm White	83	350	3.0	2580 K	3250 K	130	1000	W1 / W2*

Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	λ _D /λ _P		2θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
					Min.	Max.			
4	PQ2N-4LRE	● Red	350	2.15	610 nm	631 nm	130	1000	S1 / S2 / T1 / T2 / U1*
	PQ2N-4LGE	● Green	350	3.1	515 nm	535 nm	130	1000	U1* / U2 / V1 / V2 / W1* / W2*
	PQ2N-4LCE	● Cyan	350	3.1	495 nm	515 nm	130	1000	T1 / T2*
	PQ2N-4LBE	● Blue	350	3.1	465 nm	485 nm	130	1000	P / Q / R*
	PQ2N-4LDE	● Royal Blue	350	3.1	450 nm	460 nm	130	1000	Q / R* (ref. mW)
	PQ2N-4LME	● Crimson	350	2.15	650 nm	670 nm	130	1000	P / Q*
	PQ2N-4LEE	● Cherry Red	350	2.0	720 nm	740 nm	130	1000	M / N*
	PQ2N-4LPE-AWFC	● PC Amber	350	3.0	587.5 nm	592.5 nm	130	1000	T2 / U1 / U2*
	PQ2N-4LPE-AFC	● PC Amber	350	3.0	587.5 nm	592.5 nm	130	1000	T1 / T2 / U1*
	PQ2N-4LPE-YGFC	● PC Yellow Green	350	3.0	566.0 nm	569.0 nm	130	1000	W1 / W2*

PQ2A

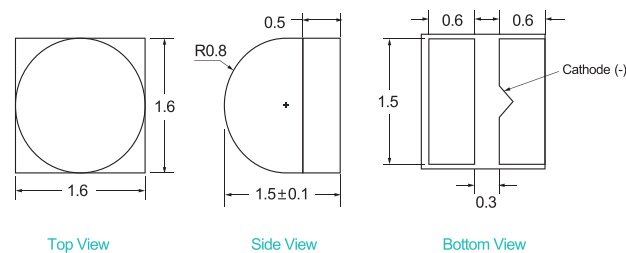
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
						Min.	Max.			
3	PQ2A-3FWE-FCR9	○ White	92	350	3.0	4750 K	6970 K	130	1000	U1 / U2*
	PQ2A-3FVE-FCR9	● Warm White	92	350	3.0	2580 K	3250 K	130	1000	T2 / U1*
	PQ2A-3FWE-FCR95	○ White	93	350	3.0	4750 K	6970 K	130	1000	T2 / U1*
	PQ2A-3FVE-FCR95	● Warm White	95	350	3.0	2580 K	3250 K	130	1000	T1 / T2*

4	PQ2A-4FWE-FC	○ White	-	350	3.0	4800 K	6450 K	130	1000	V1 / V2 / W1*
	PQ2A-4FNE-FC	○ Neutral White	-	350	3.0	4200 K	4800 K	130	1000	V1 / V2*
	PQ2A-4FVE-FCR8	● Warm White	-	350	3.0	2580 K	3250 K	130	1000	U1 / U2*

Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	λ _D /λ _P		2θ _{1/2} (°)	Max Current (mA)	Bin Code (lm)
					Min.	Max.			
4	PQ2A-4FRE	● Red	350	2.15	613.5 nm	631 nm	130	1000	Q / R*
	PQ2A-4FGE	● Green	350	3.1	515 nm	535 nm	130	1000	T2 / U1 / U2 / V1*
	PQ2A-4FCE	● Cyan	350	3.1	495 nm	515 nm	130	1000	S2 / T1*
	PQ2A-4FBE	● Blue	350	3.1	465 nm	485 nm	130	1000	N / P / Q*
	PQ2A-4FDE	● Royal Blue	350	3.1	450 nm	460 nm	130	1000	Q / R* (ref. mW)
	PQ2A-4FPE-RWFC	● PC Red	350	3.0	615 nm	622 nm	130	1000	M / N*
	PQ2A-4FPE-YGFC	● PC Yellow Green	350	3.0	566.0 nm	569.0 nm	130	1000	V1 / V2 / W1*
	PQ2A-4FPE-YGWFC	● PC Yellow Green	350	3.0	550 nm	553 nm	130	1000	X1 / X2*
	PQ2A-4FPE-AFC	● PC Amber	350	3.0	587.5 nm	592.5 nm	130	1000	T1 / T2 / U1*
	PQ2A-4FPE-AWFC	● PC Amber	350	3.0	587.5 nm	592.5 nm	130	1000	T1 / T2 / U1*

*ask for stock

PQ2N-4LxE

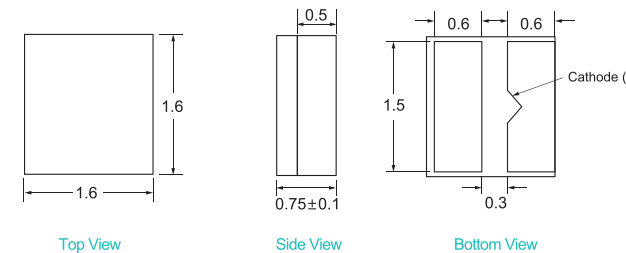


Bin Code - Photometric Luminous (lm)

Bin	P	Q	R	S1	S2	T1	T2
min	23.5	30.6	39.8	50	60	70	80
max	30.6	39.8	51.7	60	70	80	90

Bin	U1	U2	V1	V2	W1	W2	X1	X2
min	90	100	110	120	130	140	155	170
max	100	110	120	130	140	155	170	185

PQ2A-4FxE



Bin Code - Radiometric Power (mW)

Bin	M	N	P	Q	R	S
min	225	275	335	435	515	635
max	275	335	435	515	635	755

General Lighting Emitter

PROEON



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	CCT		2θ _{1/2} (°)	Bin Code (lm)
						Min.	Max.		
1	PM2E-1LWE	○ White	70	350	3.3	4100 K	10000 K	130	V2 / W1 / W2 / X1
	PM2E-1LVE-R7	● Warm White	70	350	3.3	2700 K	4100 K	130	V1 / V2 / W1 / W2*
	PM2E-1LWE-R8	○ White	84	350	3.3	4100 K	10000 K	130	U2 / V1 / V2 / W1 / W2* / X1*
	PM2E-1LVE-R8	● Warm White	80	350	3.3	2700 K	4100 K	130	U2 / V1 / V2 / W1*
	PM2E-1LRE	● Red	-	350	2.2	613.5 nm	631 nm	130	S1 / S2 / T1*
	PM2E-1LAE	● Amber	-	350	2.2	587 nm	597 nm	130	S1 / S2 / T1 / T2* / U1*
	PM2E-1LGE	● Green	-	350	3.4	515 nm	535 nm	130	U1 / U2 / V1 / V2 / W1*
	PM2E-1LBE	● Blue	-	350	3.3	455 nm	475 nm	130	P / Q*

* ask for stock

Bin Code - White color series Photometric Luminous (lm)

Bin	U2	V1	V2	W1	W2	X1
min	100	110	120	130	140	155
max	110	120	130	140	155	170

Bin Code - Mono color series Photometric Luminous (lm)

Bin	P	Q	R	S1	S2	T1	T2	U1	U2	V1	V2	W1
min	23.5	30.6	39.8	51.7	58.9	67.2	76.6	87.4	99.6	113.6	129.5	147.7
max	30.6	39.8	51.7	58.9	67.2	76.6	87.4	99.6	113.6	129.5	147.7	168.4

LOW BLUE LIGHT HAZARD HUMAN CENTRIC SERIES

- ProLight Human Centric LED is designed with long-wavelength blue light and its own phosphor recipe to provide higher lumen but lower blue light hazard.
- High CAF spectrum design to increase concentration and lowering nearsighted.
- Passed the radiation photobiology safety test by the third party.

3030 package



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT		2θ _{1/2} (°)
						Min.	Typ.	Min.	Max.	
1	PW2N-1FWE-N2HCR9A	○ White	90	150	6.4	90	101	4750 K	5300 K	120
	PW2N-1FNE-N2HCR9A	○ Neutral White	90	150	6.4	90	101	3700 K	4250 K	120
	PW2N-1FVE-N2HCR9A	● Warm White	90	150	6.4	70	85	2850 K	3250 K	120

3535 package



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT		2θ _{1/2} (°)
						Min.	Typ.	Min.	Max.	
2	PK2N-2LWE-HCR9A	○ White	90	300	6.4	170	192	4750 K	5300 K	130
	PK2N-2LNE-HCR9A	○ Neutral White	90	300	6.4	170	192	3700 K	4250 K	130
	PK2N-2LVE-HCR9A	● Warm White	90	300	6.4	130	160	2850 K	3250 K	130

COB package

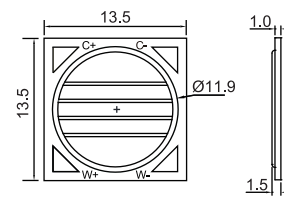


Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT		2θ _{1/2} (°)			
				Min.	Max.		Min.	Typ.	Min.	Max.				
				Min.	Max.									
28	PACJ-28FWL-DC4HCA	○ White	90	360	720	36	1330	1500	2300	2600	4840 K	5230 K	120	
	PACJ-28FNL-DC4HCA	○ Neutral White	90	360	720	36	1250	1450	2250	2550	3890 K	4080 K	120	
	PACJ-28FVL-DC4HCA	● Warm White	90	360	720	36	1050	1250	1850	2200	2970 K	3110 K	3380 K	3550 K

General Lighting COB

TUNABLE WHITE COB

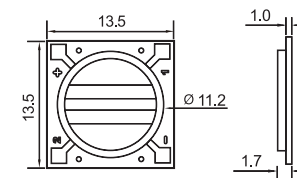
- Designed with dual-driven current-controlled channels.
- CCT can be changed from 2700K to 6500K while maintaining the same brightness.



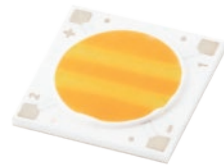
PAPE



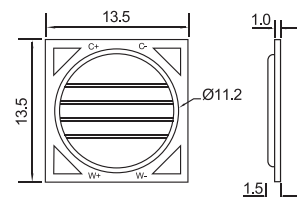
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
8	PAPE-8FQL-D2750	○ White	90	250 Channel1	37	900	1010	5000 K	120
		● Warm White	90	250 Channel2	35	870	970	2700 K	120



PDSP



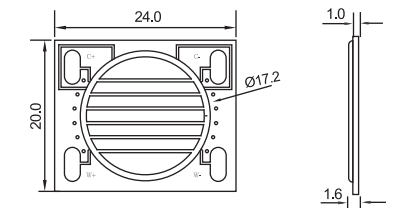
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
8	PDSP-8FQL-D2748A	○ White	88	280 Channel1	18	500	600	4800 K	120
		● Warm White		280 Channel2	18	450	540	2700 K	120
	PDSP-8FQL-D2748	○ White	90	140 Channel1	36	580	697	4800 K	120
		● Warm White		140 Channel2	36	510	617	2700 K	120



PAPB



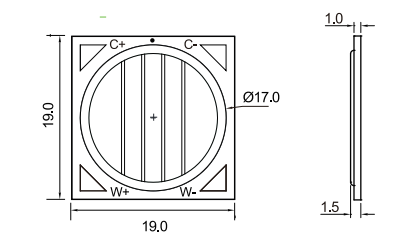
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
12	PAPB-12FQL-D2765	○ White	90	250 Channel1	37	935	1040	6500 K	120
		● Warm White	90	250 Channel2	36	910	1010	2700 K	120



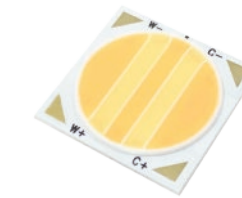
PDSJ



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
15	PDSJ-15FQL-D2748	○ White	90	200 Channel1	36	800	890	4800 K	120
		● Warm White		200 Channel2	35	684	760	2700 K	120
25	PDSJ-25FQL-D2748	○ White	90	450 Channel1	37	1630	1800	4800 K	120
		● Warm White		450 Channel2	36	1440	1650	2700 K	120
35	PDSJ-35FQL-D2748	○ White	90	700 Channel1	38	2160	2400	4800 K	120
		● Warm White		700 Channel2	37	1980	2200	2700 K	120



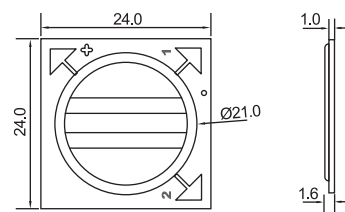
PAPF



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
12	PAPF-12FQL-D2750	○ White	90	350 Channel1	36.5	1400	1562	5000 K	120
		● Warm White	90	350 Channel2	35.5	1310	1454	2700 K	120
18	PAPF-18FQL-D2750	○ White	90	500 Channel1	37	1980	2200	5000 K	120
		● Warm White	90	500 Channel2	35	1860	2070	2700 K	120
25	PAPF-25FQL-D2750	○ White	90	700 Channel1	36.5	2720	3020	5000 K	120
		● Warm White	90	700 Channel2	35.5	2520	2800	2700 K	120

General Lighting COB

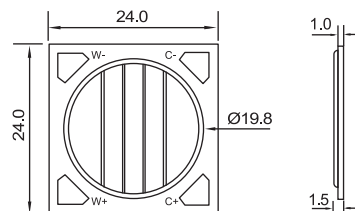
TUNABLE WHITE COB



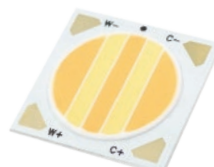
PDR A



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
35	PDR A-35FQL-D2748	White	90	850 Channel1	36	3200	3700	4800 K	120
		Warm White		850 Channel2	35	2700	3200	2700 K	120



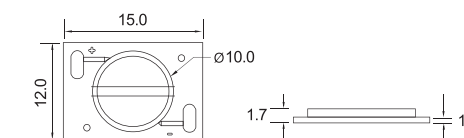
PDR C



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
						Min.	Typ.		
40	PDR C-40FQL-D3050B	White	90	700 Channel1	36	2930	3260	5000 K	120
		Warm White	90	700 Channel2	35	2870	3190	3000 K	120

WARM ON DIM

- Dimming to warm color temperatures as the best replacement for conventional halogen lamp.
- ProLight's own patent.
- 2-step MacAdam ellipse.

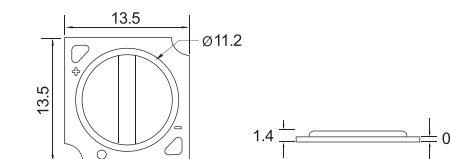


PDSQ



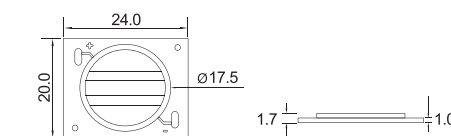
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens (Typ.)	CCT (Typ.)	2θ _{1/2} (°)
				Max Current (mA)	Min Current (mA)				
6	PDSQ-6FVL-D1930	Warm White	90	50	350	13.8	43	1900 K	120
				18	621	3000 K			
10	PDSQ-10FVL-D1927	Warm White	90	50	350	13.8	45	1900 K	120
	PDSQ-10FVL-D1930	Warm White	90	50	350	13.8	45	1900 K	
	PDSQ-10FVL-D2740	Warm White	-	50	350	13.8	55	2700 K	
17	PDSQ-17FVL-D2030	Warm White	90	50	350	31	120	2000 K	120
	PDSQ-17FVL-D2030A	Warm White	90	50	350	37	1100	3000 K	
	PDSQ-17FVL-D2030A	Warm White	90	50	350	31	120	2000 K	
	PDSQ-17FVL-D2030A	Warm White	90	50	350	37	1100	3000 K	120

PASQ



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens (Typ.)	CCT (Typ.)	2θ _{1/2} (°)
				Max Current (mA)	Min Current (mA)				
17	PASQ-17FVL-D2030	Warm White	90	50	350	31	133	2000 K	120
				37	1210	3000 K			

PDSR



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens (Typ.)	CCT (Typ.)	2θ _{1/2} (°)
				Max Current (mA)	Min Current (mA)				
40	PDSR-40FVL-D2030	Warm White	90	80	950	29	200	2000 K	120
				36	3300	3000 K			

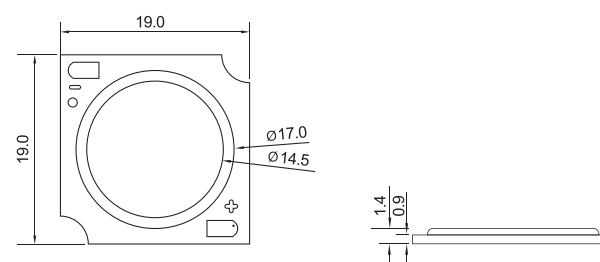
General Lighting COB

RAINBOWWHITE COB

- Innovative COLOR technology to make colors of object to be more vivid and stand out.
- SDCM : 2 step, LM-80 / TM-21 certified.



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current (mA)	Min.		Typ.			
28	PACJ-28FWL-MC4N	○ White	90	360	720	36	1200	1350	5000 K	120
							2160	2430		
	PACJ-28FNL-MC4N	○ Neutral White	90	360	720	36	1180	1270	4000 K	120
							2120	2280		
	PACJ-28FVL-MC4N	● Warm White	90	360	720	36	1100	1250	2700 K	120
							1980	2250	3050 K	3500 K
57	PACK-57FVL-DC8NS	● Warm White	90	720	1440	36	2600	3160	3000 K	120
							4640	5560	3500 K	
60	PACK-60FWL-MC9N	○ White	90	720	1550	35	2600	2900	5000 K	120
									4700	
	PACK-60FNL-MC9N	○ Neutral White	90	720	1550	35	2575	2750	4000 K	120
									4655	
	PACK-60FVL-MC9N	● Warm White	90	720	1550	35	2150	2450	2700 K	120
									4130	
			720	1550	35	2525	2700	3050 K	120	
							4600	5460		3500 K

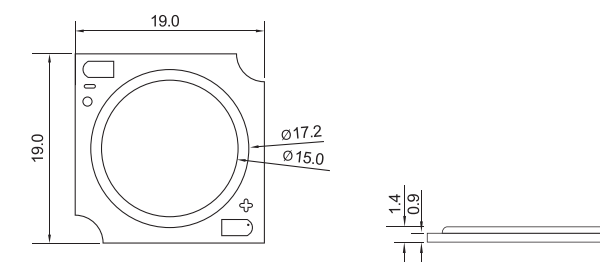


FOODFRESH COB

- Designed with specific spectrum to enhance the appealing appearance of fresh food.



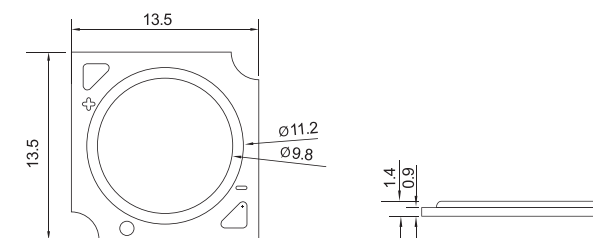
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT		2θ _{1/2} (°)
				Max Current (mA)	Min.		Typ.	Min.	Typ.		
35	PACF-35FPL-BC6PMP	● Meat Plus	85	540	900	36	1380	1570	1930 K	2020 K	120
									2130	2420	
	PACF-35FPL-BC6FM	● Fresh Meat	90	540	900	36	1810	2060	3350 K	3630 K	120
									2790	3170	
	PACF-35FPL-BC6GP	● Golden Plus	80	540	900	36	2200	2500	2280 K	2390 K	120
									3390	3850	
PACF-35FPL-DC6GPS	● Golden Plus	90	540	900	36	1840	2100	2280 K	2390 K	120	
								2840	3230		
PACF-35FPL-DC6PF	● Fish	90	540	900	36	1940	2210	3850 K	4110 K	120	
								3010	3420		



General Lighting COB

PACJ

- 100% footprint compatible with Citizen CLU028



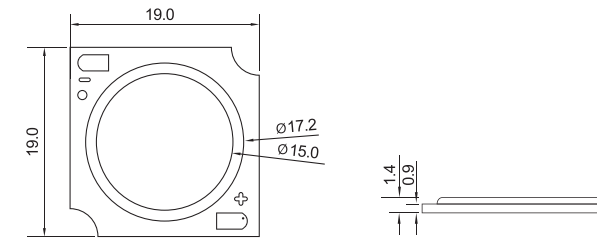
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
7	PACJ-7FWL-AC1N	White	70	90 180	36	460 815	525 930	5000 K	120	
	PACJ-7FNL-AC1N	Neutral White	70	90 180	36	450 800	515 910	4000 K	120	
	PACJ-7FVL-AC1N	Warm White	70	90 180	36	430 760	495 875	2700 K	120	
	PACJ-7FWL-BC1N	White	80	90 180	36	450 800	515 910	5000 K 5700 K 6500 K	120	
	PACJ-7FNL-BC1N	Neutral White	80	90 180	36	440 780	505 895	4000 K	120	
	PACJ-7FVL-BC1N	Warm White	80	90 180	36	420 740	485 860	2700 K 3000 K 3500 K	120	
	PACJ-7FWL-DC1N	White	90	90 180	36	360 635	415 735	5000 K	120	
	PACJ-7FNL-DC1N	Neutral White	90	90 180	36	335 590	405 715	4000 K	120	
	PACJ-7FVL-DC1N	Warm White	90	90 180	36	325 580	395 695	2700 K 3000 K 3500 K	120	
	PACJ-7FNL-EC1N	Neutral White	95	90 180	36	325 570	380 670	4000 K	120	
	PACJ-7FVL-EC1N	Warm White	95	90 180	36	280 495	340 600	2700 K 3000 K	120	
	14	PACJ-14FWL-AC2N	White	70	180 360	36	920 1625	1050 1860	5000 K	120
PACJ-14FNL-AC2N		Neutral White	70	180 360	36	905 1600	1035 1830	4000 K	120	
PACJ-14FVL-AC2N		Warm White	70	180 360	36	860 1520	985 1745	2700 K	120	
PACJ-14FWL-BC2N		White	80	180 360	36	900 1590	1030 1825	5000 K 5700 K 6500 K	120	
PACJ-14FNL-BC2N		Neutral White	80	180 360	36	885 1565	1015 1800	4000 K	120	
PACJ-14FVL-BC2N		Warm White	80	180 360	36	840 1485	965 1710	2700 K 3000 K 3500 K	120	
PACJ-14FWL-DC2N		White	90	180 360	36	720 1270	830 1470	5000 K	120	
PACJ-14FNL-DC2N		Neutral White	90	180 360	36	670 1180	810 1430	4000 K	120	
PACJ-14FVL-DC2N		Warm White	90	180 360	36	650 1160	790 1390	2700 K 3000 K 3500 K	120	
PACJ-14FNL-EC2N		Neutral White	95	180 360	36	650 1140	760 1340	4000 K	120	
PACJ-14FVL-EC2N		Warm White	95	180 360	36	560 990	680 1200	2700 K 3000 K	120	

Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
21	PACJ-21FWL-AC3N	White	70	270 540	36	1380 2440	1575 2790	5000 K	120	
	PACJ-21FNL-AC3N	Neutral White	70	270 540	36	1350 2390	1545 2735	4000 K	120	
	PACJ-21FVL-AC3N	Warm White	70	270 540	36	1290 2270	1485 2615	2700 K	120	
	PACJ-21FWL-BC3N	White	80	270 540	36	1350 2390	1545 2735	5000 K 5700 K 6500 K	120	
	PACJ-21FNL-BC3N	Neutral White	80	270 540	36	1320 2335	1515 2680	4000 K	120	
	PACJ-21FVL-BC3N	Warm White	80	270 540	36	1265 2225	1455 2560	2700 K 3000 K 3500 K	120	
	PACJ-21FWL-DC3N	White	90	270 540	36	1080 1905	1245 2205	5000 K	120	
	PACJ-21FNL-DC3N	Neutral White	90	270 540	36	1005 1770	1215 2145	4000 K	120	
	PACJ-21FVL-DC3N	Warm White	90	270 540	36	975 1740	1185 2085	2700 K 3000 K 3500 K	120	
	PACJ-21FNL-EC3N	Neutral White	95	270 540	36	975 1710	1140 2010	4000 K	120	
	PACJ-21FVL-EC3N	Warm White	95	270 540	36	840 1485	1020 1800	2700 K 3000 K	120	
	28	PACJ-28FWL-AC4N	White	70	360 720	36	1840 3255	2100 3720	5000 K	120
PACJ-28FNL-AC4N		Neutral White	70	360 720	36	1800 3185	2060 3645	4000 K	120	
PACJ-28FVL-AC4N		Warm White	70	360 720	36	1720 3045	1980 3505	2700 K	120	
PACJ-28FWL-BC4N		White	80	360 720	36	1800 3185	2060 3645	5000 K 5700 K 6500 K	120	
PACJ-28FNL-BC4N		Neutral White	80	360 720	36	1765 3125	2020 3575	4000 K	120	
PACJ-28FVL-BC4N		Warm White	80	360 720	36	1685 2980	1940 3435	2700 K 3000 K 3500 K	120	
PACJ-28FWL-DC4N		White	90	360 720	36	1440 2540	1660 2940	5000 K	120	
PACJ-28FNL-DC4N		Neutral White	90	360 720	36	1340 2360	1620 2860	4000 K	120	
PACJ-28FVL-DC4N		Warm White	90	360 720	36	1300 2320	1580 2780	2700 K 3000 K 3500 K	120	
PACJ-28FNL-EC4N		Neutral White	95	360 720	36	1300 2280	1520 2680	4000 K	120	
PACJ-28FVL-EC4N		Warm White	95	360 720	36	1120 1980	1360 2400	2700 K 3000 K	120	

General Lighting COB

PACK

- 100% footprint compatible with Citizen CLU038



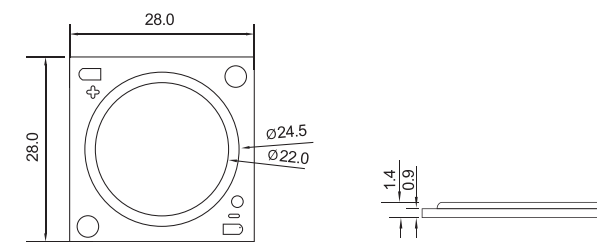
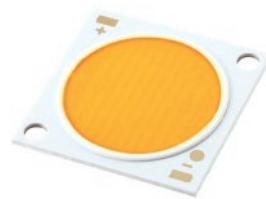
Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
35	PACK-35FWL-AC5N	White	70	450 900	36	2295 4060	2620 4640	5000 K	120	
	PACK-35FNL-AC5N	Neutral White	70	450 900	36	2250 3980	2570 4550	4000 K	120	
	PACK-35FVL-AC5N	Warm White	70	450 900	36	2150 3805	2455 4345	2700 K	120	
	PACK-35FWL-BC5N	White	80	450 900	36	2250 3980	2570 4550	5000 K 5700 K 6500 K	120	
	PACK-35FNL-BC5N	Neutral White	80	450 900	36	2205 3900	2520 4460	4000 K	120	
	PACK-35FVL-BC5N	Warm White	80	450 900	36	2105 3725	2410 4265	2700 K 3000 K 3500 K	120	
	PACK-35FWL-DC5N	White	90	450 900	36	1800 3175	2075 3675	5000 K	120	
	PACK-35FNL-DC5N	Neutral White	90	450 900	36	1675 2950	2025 3575	4000 K	120	
	PACK-35FVL-DC5N	Warm White	90	450 900	36	1625 2900	1975 3475	2700 K 3000 K 3500 K	120	
	PACK-35FNL-EC5N	Neutral White	95	450 900	36	1625 2850	1900 3350	4000 K	120	
	PACK-35FVL-EC5N	Warm White	95	450 900	36	1400 2475	1700 3000	2700 K 3000 K	120	
	42	PACK-42FWL-AC6N	White	70	540 1080	36	2750 4865	3140 5560	5000 K	120
PACK-42FNL-AC6N		Neutral White	70	540 1080	36	2705 4785	3090 5470	4000 K	120	
PACK-42FVL-AC6N		Warm White	70	540 1080	36	2600 4600	2970 5260	2700 K	120	
PACK-42FWL-BC6N		White	80	540 1080	36	2695 4770	3075 5445	5000 K 5700 K 6500 K	120	
PACK-42FNL-BC6N		Neutral White	80	540 1080	36	2650 4690	3030 5360	4000 K	120	
PACK-42FVL-BC6N		Warm White	80	540 1080	36	2545 4505	2905 5140	2700 K 3000 K 3500 K	120	
PACK-42FWL-DC6N		White	90	540 1080	36	2160 3810	2490 4410	5000 K	120	
PACK-42FNL-DC6N		Neutral White	90	540 1080	36	2010 3540	2430 4290	4000 K	120	
PACK-42FVL-DC6N		Warm White	90	540 1080	36	1950 3480	2370 4170	2700 K 3000 K 3500 K	120	
PACK-42FNL-EC6N		Neutral White	95	540 1080	36	1950 3420	2280 4020	4000 K	120	
PACK-42FVL-EC6N		Warm White	95	540 1080	36	1680 2970	2040 3600	2700 K 3000 K	120	

Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
57	PACK-57FWL-AC8N	White	70	720 1440	36	3585 6345	4190 7415	5000 K	120	
	PACK-57FNL-AC8N	Neutral White	70	720 1440	36	3530 6250	4120 7290	4000 K	120	
	PACK-57FVL-AC8N	Warm White	70	720 1440	36	3390 6000	3960 7010	2700 K	120	
	PACK-57FWL-BC8N	White	80	720 1440	36	3510 6210	4105 7265	5000 K 5700 K 6500 K	120	
	PACK-57FNL-BC8N	Neutral White	80	720 1440	36	3460 6125	4040 7150	4000 K	120	
	PACK-57FVL-BC8N	Warm White	80	720 1440	36	3320 5875	3875 6860	2700 K 3000 K 3500 K	120	
	PACK-57FWL-DC8N	White	90	720 1440	36	2880 5080	3320 5880	5000 K	120	
	PACK-57FNL-DC8N	Neutral White	90	720 1440	36	2680 4720	3240 5720	4000 K	120	
	PACK-57FVL-DC8N	Warm White	90	720 1440	36	2600 4640	3160 5560	2700 K 3000 K 3500 K	120	
	PACK-57FNL-EC8N	Neutral White	95	720 1440	36	2600 4560	3040 5360	4000 K	120	
	PACK-57FVL-EC8N	Warm White	95	720 1440	36	2240 3960	2720 4800	2700 K 3000 K	120	

General Lighting COB

PACL

- 100% footprint compatible with Citizen CLU048



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
78	PACL-78FWL-ACBN	White	70	990	4935	5760	5000 K	120		
				1980	8735	10195				
	PACL-78FNL-ACBN	Neutral White	70	990	4850	5665	4000 K	120		
				1980	8585	10025				
	PACL-78FVL-ACBN	Warm White	70	990	4660	5440	2700 K	120		
				1980	8250	9630				
	PACL-78FWL-BCBN	White	80	990	4835	5645	5000 K	120		
				1980	8560	9990	5700 K	6500 K		
	PACL-78FNL-BCBN	Neutral White	80	990	4750	5555	4000 K	120		
				1980	8405	9830				
	PACL-78FVL-BCBN	Warm White	80	990	4565	5335	2700 K	120		
				1980	8080	9440	3000 K	3500 K		
PACL-78FWL-DCBN	White	90	990	3960	4565	5000 K	120			
			1980	6985	8085					
PACL-78FNL-DCBN	Neutral White	90	990	3685	4455	4000 K	120			
			1980	6490	7865					
PACL-78FVL-DCBN	Warm White	90	990	3575	4345	2700 K	120			
			1980	6380	7645	3000 K	3500 K			
PACL-78FNL-ECBN	Neutral White	95	990	3575	4180	4000 K	120			
			1980	6270	7370					
PACL-78FVL-ECBN	Warm White	95	990	3080	3740	2700 K	120			
			1980	5445	6600	3000 K				
86	PACL-86FWL-ACCN	White	70	1080	5385	6290	5000 K	120		
				2160	9530	11130				
	PACL-86FNL-ACCN	Neutral White	70	1080	5295	6180	4000 K	120		
				2160	9370	10940				
	PACL-86FVL-ACCN	Warm White	70	1080	5085	5935	2700 K	120		
				2160	9000	10505				
	PACL-86FWL-BCCN	White	80	1080	5275	6160	5000 K	120		
				2160	9335	10900	5700 K	6500 K		
	PACL-86FNL-BCCN	Neutral White	80	1080	5190	6060	4000 K	120		
				2160	9185	10725				
	PACL-86FVL-BCCN	Warm White	80	1080	4980	5815	2700 K	120		
				2160	8815	10290	3000 K	3500 K		
PACL-86FWL-DCCN	White	90	1080	4320	4980	5000 K	120			
			2160	7620	8820					
PACL-86FNL-DCCN	Neutral White	90	1080	4020	4860	4000 K	120			
			2160	7080	8580					
PACL-86FVL-DCCN	Warm White	90	1080	3900	4740	2700 K	120			
			2160	6960	8340	3000 K	3500 K			
PACL-86FNL-ECCN	Neutral White	95	1080	3900	4560	4000 K	120			
			2160	6840	8040					
PACL-86FVL-ECCN	Warm White	95	1080	3360	4080	2700 K	120			
			2160	5940	7200	3000 K				

Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
115	PACL-115FWL-ACGN	White	70	1140	7200	8450	5000 K	120		
				2880	12750	14960				
	PACL-115FNL-ACGN	Neutral White	70	1140	7100	8260	4000 K	120		
				2880	12570	14620				
	PACL-115FVL-ACGN	Warm White	70	1140	6700	7870	2700 K	120		
				2880	11860	13930				
	PACL-115FWL-BCGN	White	80	1140	7000	8150	5000 K	120		
				2880	12390	14430	5700 K	6500 K		
	PACL-115FNL-BCGN	Neutral White	80	1140	6900	8050	4000 K	120		
				2880	12210	14250				
	PACL-115FVL-BCGN	Warm White	80	1140	6600	7650	2700 K	120		
				2880	11680	13540	3000 K	3500 K		
PACL-115FWL-DCGN	White	90	1140	5760	6640	5000 K	120			
			2880	10160	11760					
PACL-115FNL-DCGN	Neutral White	90	1140	5360	6480	4000 K	120			
			2880	9440	11440					
PACL-115FVL-DCGN	Warm White	90	1140	5200	6320	2700 K	120			
			2880	9280	11120	3000 K	3500 K			
PACL-115FNL-ECGN	Neutral White	95	1140	5200	6080	4000 K	120			
			2880	9120	10720					
PACL-115FVL-ECGN	Warm White	95	1140	4480	5440	2700 K	120			
			2880	7920	9600	3000 K				

General Lighting

Entertainment

Automotive

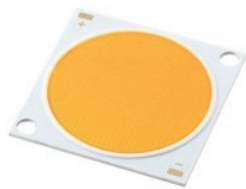
UV

Plant Growing

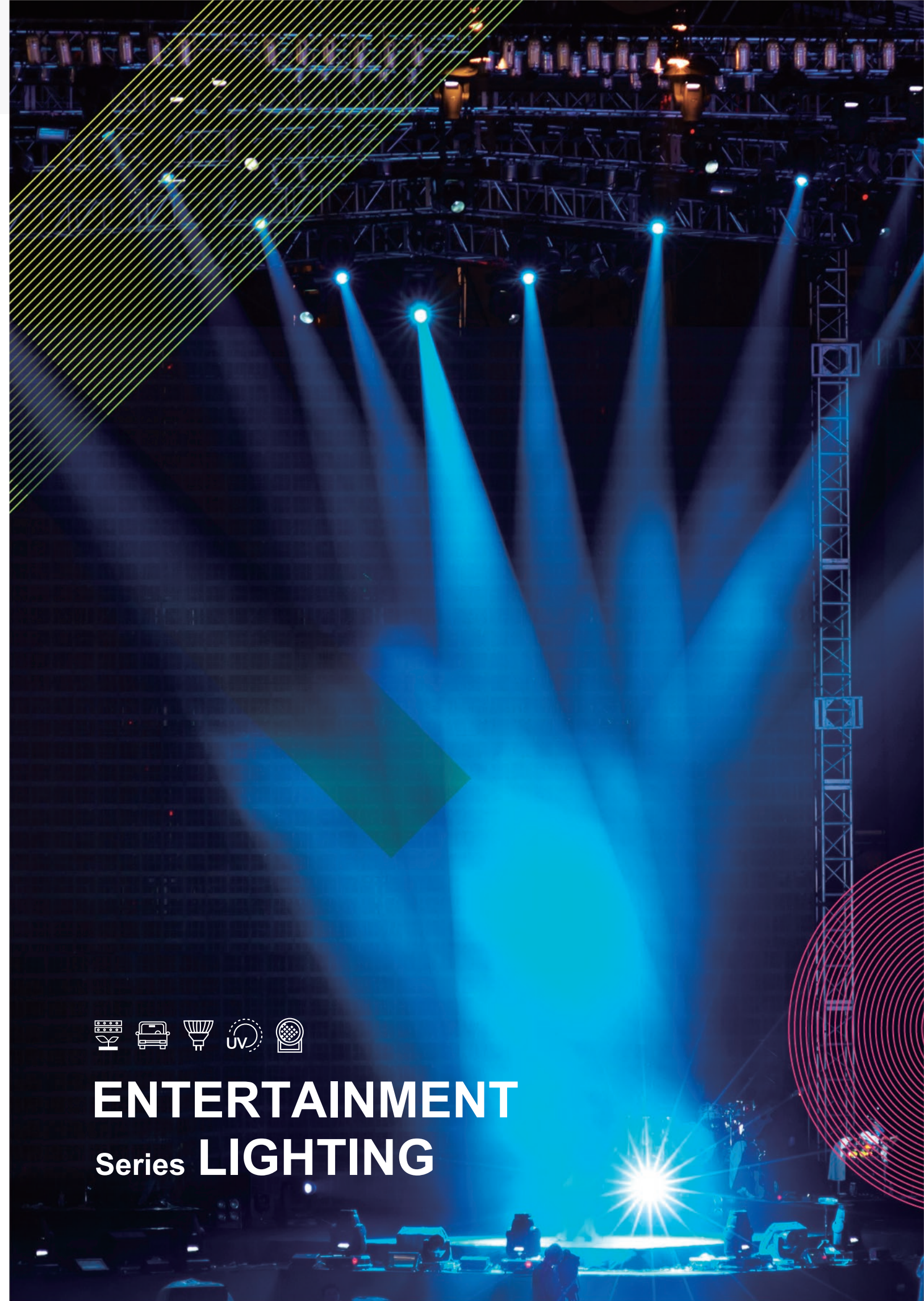
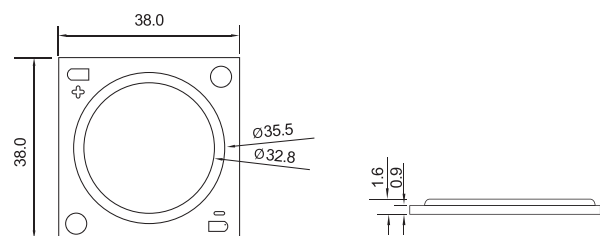
IR

PACN

- 100% footprint compatible with Citizen CLU058



Watt	Part No.	Color	CRI (Min.)	Test Current (mA)		V _f (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Max Current(mA)	Min.		Typ.			
260	PACN-260FWL-AJQN	○ White	70	2250 4500	52.2	16146 28594	18347 32493	5000 K	120	
	PACN-260FNL-AJQN	○ Neutral White	70	2250 4500	52.2	15838 28039	17997 31863	4000 K	120	
	PACN-260FVL-AJQN	● Warm White	70	2250 4500	52.2	15129 26778	17192 30430	2700 K	120	
	PACN-260FWL-BJQN	○ White	80	2250 4500	52.2	15840 28037	18000 31860	5000 K 5700 K 6500 K	120	
	PACN-260FNL-BJQN	○ Neutral White	80	2250 4500	52.2	15529 27487	17647 31235	4000 K	120	
	PACN-260FVL-BJQN	● Warm White	80	2250 4500	52.2	14852 26283	16877 29867	2700 K 3000 K 3500 K	120	
	PACN-260FWL-DJQN	○ White	90	2250 4500	52.2	14168 24951	16100 28353	5000 K	120	
	PACN-260FNL-DJQN	○ Neutral White	90	2250 4500	52.2	13886 24449	15779 27783	4000 K	120	
	PACN-260FVL-DJQN	● Warm White	90	2250 4500	52.2	13290 23383	15103 26572	2700 K 3000 K 3500 K	120	
	PACN-260FWL-EJQN	○ White	95	2250 4500	52.2	12380 21820	14100 24800	5700 K	120	
	PACN-260FNL-EJQN	○ Neutral White	95	2250 4500	52.2	12053 21234	13697 24129	4000 K	120	
	PACN-260FVL-EJQN	● Warm White	95	2250 4500	52.2	11616 20453	13200 23242	2700 K 3000 K	120	



ENTERTAINMENT
Series **LIGHTING**

Entertainment Lighting

SPOT LIGHT

- High power, high lumen density.



PU55-90FWL-N00C 90W

LES 6.1 x 6.1 mm

Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	72	1750 5000	15.5 18.5	2300 5300	2600 6000	7250 K 7550 K	120



PBMM-230FWL-N01AH 230W

LES Ø7.9 mm

Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	70	1400 5000	42 47.4	6750 16650	7500 18500	6500 K 6900 K 7400 K 8100 K	120



PBMM-100FWL-N01AG 100W

LES 8.4 x 8.4 mm

Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	70	3000 4500	22 23	5400 7200	6100 8100	6950 K 7250 K 7550 K 7900 K	120



PBMM-450FWL-N01AK 450W

LES Ø11.0 mm

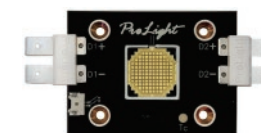
Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	70	1400 10000	40 47.4	6750 33300	7500 37000	6500K 6900K 7400K 8100K	120



PBMM-160FWL-N01CC 160W

LES 5.6 x 5.2 mm

Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	70	1400 5000	27 30.5	3300 8200	3800 9400	7250 K 7550 K	120



PUMQ-600FWL-NCAN 600W

LES Ø16.7 mm

Color	CRI (Min.)	Test Current (mA) Max Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
○ White	70	5000 7500	37 39	32400 41400	36000 46000	6415 K 6680 K 6925 K 7185 K	120

General Lighting

Entertainment

Automotive

UV

Plant Growing

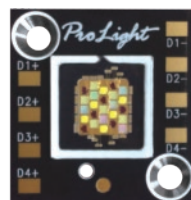
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Entertainment Lighting

MULTI-COLOR IN 1

PUMH-60FTL-N74N 60W

LES 7.2 x 6.5 mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	700	16.5	390	460	620 nm	630 nm	120
Green		22	690	815	520 nm	528 nm	
Blue		21	140	165	453 nm	457 nm	
White		19	980	1160	5590 K	6500 K	

PUMG-120FTL-ND4N 120W

LES 10 x 10 mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	700	31	750	890	620 nm	630 nm	120
Green		43	1450	1700	520 nm	528 nm	
Blue		41	280	330	453 nm	457 nm	
White		39	2050	2400	5590 K	6500 K	

PUMG-120F4L-ND4P 120W

LES 10 x 9.9 mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	700	31	750	890	620 nm	630 nm	120
Green		43	1450	1700	520 nm	528 nm	
Blue		41	280	330	453 nm	457 nm	
PC Amber		39	1250	1500	588 nm	590.5 nm	

PBMM-180FTL-N01CA 180W

LES Ø16.8mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	1600	21.5	1300	1500	620 nm	630 nm	120
Green		30	2850	3300	518 nm	526 nm	
Blue		29	470	550	453 nm	458 nm	
White		29	3450	4000	5750 K	7250 K	

PBMM-230FTL-N01AN 230W

LES Ø11.0 mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	2000	30.5	930	1110	620 nm	630 nm	120
Green		35	2250	2700	520 nm	530 nm	
Blue		36	250	300	452 nm	457 nm	
White		36	2350	2790	5750 K	7250 K	

PBMM-350FTL-N01AA 350W

LES Ø16.1mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	2000	22.9	1400	1670	620 nm	630 nm	120
Green		31.4	2200	2600	520 nm	530 nm	
Blue		29.6	410	490	452 nm	457 nm	
White		29.6	3850	4560	5750 K	7250 K	

PBMM-450FTL-N01AP 450W

LES Ø15.4 mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
Red	2000	30.5	1860	2230	620 nm	630 nm	120
Green		35	4500	5390	520 nm	530 nm	
Blue		36	500	600	452 nm	457 nm	
White		36	4700	5580	5750 K	7250 K	

PBMM-200F6L-N01AE 200W

LES Ø16.4mm



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
			Min.	Typ.	Min.	Max.	
PC Amber	1600	30.5	2900	3300	588 nm	592 nm	120
PC Green	1600	30.5	4400	5000	566 nm	570 nm	
Red	800	25.0	780	900	620 nm	630 nm	
Green	800	35.0	1700	2000	521 nm	528 nm	
Cyan	800	34.5	950	1100	486 nm	492 nm	
Blue	800	30.5	330	380	451 nm	456 nm	

Entertainment Lighting

MULTI-COLOR IN 1



Size 4.0 x 5.0 mm

PP6N-1LFE-P

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
1	Red	150	2.2	23	28	620 nm	630 nm	140
	Green	150	3.3	38	45	525 nm	535 nm	
	Blue	150	3.2	8	9.5	455 nm	460 nm	

PP6N-3LFE

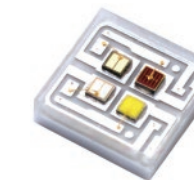
Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
3	Red	350	2.3	44	52	620 nm	630 nm	140
	Green	350	3.3	69	81	520 nm	530 nm	
	Blue	350	3.4	18	21	460 nm	465 nm	



Size 3.0 x 3.0 mm

PBLB-3LFE

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
3	Red	250	2.25	30	36	620 nm	630 nm	155
	Green	250	3.45	40	52	518 nm	528 nm	
	Blue	250	3.3	8	11	453 nm	460 nm	



Size 3.0 x 3.0 mm

PBLB-2FTE

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
2	Red	150	2.15	14	17	620 nm	630 nm	155
	Green	150	3.25	19	26	520 nm	530 nm	
	Blue	150	3.15	5	6.6	453 nm	460 nm	
	White	150	3.15	23	29	5700 K	7000 K	

PBLB-2FTE-RGBN

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
2	Red	150	2.15	14	17	620 nm	630 nm	155
	Green	150	3.25	19	26	520 nm	530 nm	
	Blue	150	3.15	5	6.6	453 nm	460 nm	
	Neutral White	150	3.15	19	25	3700 K	4250 K	

PBLB-2FTE-RGBV

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
2	Red	150	2.15	14	17	620 nm	630 nm	155
	Green	150	3.25	19	26	520 nm	530 nm	
	Blue	150	3.15	5	6.6	453 nm	460 nm	
	Warm White	150	3.15	18	23	2870 K	3220 K	

General Lighting

Entertainment

Automotive

UV

Plant Growing

IR

Entertainment Lighting

MULTI-COLOR IN 1



Size 3.0 x 3.0 mm

PBLB-3LTE

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
3	Red	-	250	2.25	30	36	620 nm	630 nm	155
	Green	-	250	3.45	40	52	518 nm	528 nm	
	Blue	-	250	3.3	8	11	453 nm	460 nm	
	White	-	250	3.3	44	56	4480 K	6970 K	

PBLB-3LTE-RGBN

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
3	Red	-	250	2.25	30	36	620 nm	630 nm	155
	Green	-	250	3.45	40	52	518 nm	528 nm	
	Blue	-	250	3.3	8	11	453 nm	460 nm	
	Neutral White	80	250	3.3	37.4	49	3700 K	4250 K	

PBLB-3LTE-RGBV

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
3	Red	-	250	2.25	30	36	620 nm	630 nm	155
	Green	-	250	3.45	40	52	518 nm	528 nm	
	Blue	-	250	3.3	8	11	453 nm	460 nm	
	Warm White	80	250	3.3	34.1	46	2870 K	3220 K	

PBLB-3L4E-RGBPG

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
3	Red	-	250	2.25	30	36	620 nm	630 nm	155
	Green	-	250	3.45	40	52	518 nm	528 nm	
	Blue	-	250	3.3	8	11	453 nm	460 nm	
	PC Green	-	250	3.3	44	56	562.6 nm	569.5 nm	

PBLB-3L4E-RGBP

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
3	Red	-	250	2.25	30	36	620 nm	630 nm	155
	Green	-	250	3.45	40	52	518 nm	528 nm	
	Blue	-	250	3.3	8	11	453 nm	460 nm	
	PC Amber	-	250	3.3	15	18	592.5 nm	595.5 nm	



Size 3.0 x 3.0 mm

PBLB-5LTE

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
5	Red	-	350	2.3	45	55	620 nm	630 nm	155
	Green	-	350	3.3	90	115	520 nm	530 nm	
	Blue	-	350	3.3	19	25	454 nm	461 nm	
	White	-	350	3.3	80	105	5700 K	7000 K	

PBLB-5LTE-RGBN

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
5	Red	-	350	2.3	45	55	620 nm	630 nm	155
	Green	-	350	3.3	90	115	520 nm	530 nm	
	Blue	-	350	3.3	19	25	454 nm	461 nm	
	Neutral White	80	350	3.3	68	92	3700 K	4250 K	

PBLB-5LTE-RGBV

Watt	Color	CRI	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
5	Red	-	350	2.3	45	55	620 nm	630 nm	155
	Green	-	350	3.3	90	115	520 nm	530 nm	
	Blue	-	350	3.3	19	25	454 nm	461 nm	
	Warm White	80	350	3.3	62	86	2870 K	3220 K	

General Lighting

Entertainment

Automotive

UV

Plant Growing

IR

Entertainment Lighting

MULTI-COLOR IN 1



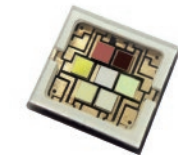
Size 6.7 x 6.25 mm

PBEF-15F6E-A

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
15	Red	350	2.1	40	45	620 nm	630 nm	120
	Blue	350	2.8	14	17	451 nm	456 nm	
	PC-Mint	350	2.8	75	90	562 nm	569 nm	
	Amber	350	2.2	40	50	590 nm	595 nm	
	Green	350	3.0	68	80	520 nm	530 nm	
	PC-Magenta	350	2.8	20	27	-	-	

PBEF-15F7E-A

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
15	Red	350	2.1	40	45	620 nm	630 nm	120
	Blue	350	2.8	14	17	451 nm	456 nm	
	PC-Mint	350	2.8	75	90	562 nm	569 nm	
	Purple	350	3.0	560 mW	670 mW	390 nm	400 nm	
	White	350	2.8	70	85	5700 K	7000 K	
	Green	350	3.0	68	80	520 nm	530 nm	
	Amber	350	2.2	40	50	590 nm	595 nm	



Size 6.7 x 6.25 mm

PBEF-25F7E-A

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
25	Red	700	2.3	60	70	620 nm	630 nm	120
	Blue	700	3.0	25	30	451 nm	456 nm	
	PC Green	700	3.0	180	215	566 nm	570 nm	
	Purple	700	3.1	1020 mw	1200 mw	400 nm	405 nm	
	White	700	3.0	190	220	5700 K	7000 K	
	Green	700	3.2	150	170	515 nm	525 nm	
	Amber	700	2.4	65	75	590 nm	595 nm	

PBEF-25F7E-H

Watt	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
				Min.	Typ.	Min.	Max.	
25	Red	700	2.3	60	70	620 nm	630 nm	120
	Blue	700	3.0	25	30	451 nm	456 nm	
	Cyan	700	3.3	75	90	491 nm	502 nm	
	Purple	700	3.1	1020 mw	1200 mw	390 nm	400 nm	
	White	700	3.0	190	220	5700 K	7000 K	
	Green	700	3.2	150	170	520 nm	530 nm	
	Amber	700	2.4	65	75	590 nm	595 nm	

General Lighting

Entertainment

Automotive

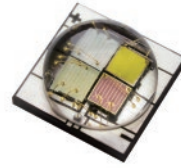
UV

Plant Growing

IR

Entertainment Lighting

MULTI-COLOR IN 1



Size 5.0 x 5.0 mm

PBLA-10LTE-S

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
10	Red	-	350	2.20	48	56	622 nm	632 nm	155	700
	Green	-	350	3.00	104	120	522 nm	530 nm		
	Blue	-	350	3.05	19	22	455 nm	460 nm		
	White	-	350	2.95	114	130	5700 K	8230 K		

PBLA-10LTE-SRGBN

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
10	Red	-	350	2.20	48	56	622 nm	632 nm	155	700
	Green	-	350	3.00	104	120	522 nm	530 nm		
	Blue	-	350	3.05	19	22	455 nm	460 nm		
	Neutral White	80	350	2.95	100	117	3810 K	4120 K		

PBLA-10LTE-SRGBV

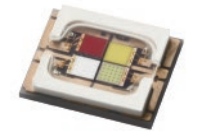
Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
10	Red	-	350	2.20	48	56	622 nm	632 nm	155	700
	Green	-	350	3.00	104	120	522 nm	530 nm		
	Blue	-	350	3.05	19	22	455 nm	460 nm		
	Warm White	80	350	2.95	94	110	2930 K	3140 K		

PBLA-10L4E-SRGBP

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
10	Red	-	350	2.20	48	56	622 nm	632 nm	155	700
	Green	-	350	3.00	104	120	522 nm	530 nm		
	Blue	-	350	3.05	19	22	455 nm	460 nm		
	PC Amber	-	350	2.95	48	60	588 nm	590.5 nm		

PBLA-15LTE-S

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
15	Red	-	700	2.40	105	115	622 nm	632 nm	155	1000
	Green	-	700	3.30	165	190	522 nm	530 nm		
	Blue	-	700	3.40	35	40	454 nm	459 nm		
	White	-	700	3.10	210	230	5700 K	8230 K		



Size 5.7 x 4.7 mm

PBED-15FTE-S

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
15	Red	-	700	2.4	57	70	623 nm	633 nm	120	1000
	Green	-	700	3.6	140	160	521 nm	533 nm		
	Blue	-	700	3.1	800 mW	870 mW	453 nm	458 nm		
	White	-	700	3.1	175	225	5760 K	7250 K		

PBED-15F4E-D

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
15	Red	-	700	2.4	59	70	620 nm	630 nm	120	1000
	Green	-	700	3.5	140	170	520 nm	528 nm		
	Blue	-	700	3.3	760 mW	860 mW	453 nm	457 nm		
	Amber	-	700	2.5	56	70	589 nm	596 nm		

PBED-15F3E-VVWA01

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
15	Warm White	90	700	3.3	99	115	2620 K	2820 K	120	1000
	White	90	700	3.3	125	145	5210 K	6000 K		
	Warm White	90	700	3.3	99	115	2620 K	2820 K		
	Amber	-	700	2.5	56	70	589 nm	596 nm		

PBED-10FQE-WVWVR95

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
10	White	95	700	3.1	120	160	4780 K	5580 K	120	700
	Warm White	95	700	3.1	90	117	2790 K	3030 K		
	White	95	700	3.1	120	160	4780 K	5580 K		
	Warm White	95	700	3.1	90	117	2790 K	3030 K		

PBED-20FTE-S

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
20	Red	-	1000	2.6	100	120	620 nm	630 nm	120	1500
	Green	-	1000	3.2	205	245	520 nm	532 nm		
	Blue	-	1000	3.2	1100 mW	1200 mW	452 nm	457 nm		
	White	-	1000	3.2	280	315	5760 K	7250 K		

PBED-20FTE-SRGBV

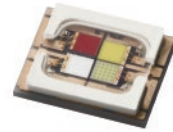
Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
20	Red	-	1000	2.6	100	120	620 nm	630 nm	120	1500
	Green	-	1000	3.2	205	245	519 nm	531 nm		
	Blue	-	1000	3.2	1100 mW	1200 mW	452 nm	457 nm		
	Warm White	-	1000	3.2	185	210	2930 K	3140 K		

PBED-20F4E-SRGBPG

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
20	Red	-	1000	2.6	100	120	620 nm	630 nm	120	1500
	Green	-	1000	3.2	205	245	520 nm	532 nm		
	Blue	-	1000	3.2	1100 mW	1200 mW	452 nm	457 nm		
	White	-	1000	3.2	255	285	566 nm	570 nm		
	PC Green	-	1000	3.2	255	285	566 nm	570 nm		

Entertainment Lighting

MULTI-COLOR IN 1



PBEE-40FTE

Size 5.7 x 4.7 mm

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
40	Red	-	1000	2.3	90	105	620 nm	630 nm	120	2500
	Green	-	1000	3.0	1235 mW	1300 mW	450 nm	455 nm		
	Blue	-	1000	3.4	195	225	519 nm	531 nm		
	White	-	1000	3.0	235	270	5760 K	7250 K		

PBEE-40F4E

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
40	Red	-	1000	2.3	90	105	620 nm	630 nm	120	2500
	Green	-	1000	3.0	1235 mW	1300 mW	450 nm	455 nm		
	Blue	-	1000	3.4	195	225	519 nm	531 nm		
	Amber	-	1000	3.0	140	153	585.5 nm	591.5 nm		

PBEE-40FQE-VVWVC

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
40	3000 K	90	1000	3.0	135	160	2770 K	2970 K	120	2500
	6500 K	90	1000	3.0	235	270	5760 K	7250 K		
	3000 K	90	1000	3.0	135	160	2770 K	2970 K		
	6500 K	90	1000	3.0	235	270	5760 K	7250 K		

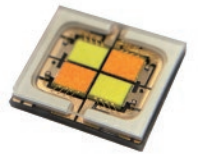
PBEE-40FWE

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
40	6500 K	67	1000	3.0	235	270	5760 K	7250 K	120	2500
	6500 K	67	1000	3.0	235	270	5760 K	7250 K		
	6500 K	67	1000	3.0	235	270	5760 K	7250 K		
	6500 K	67	1000	3.0	235	270	5760 K	7250 K		

PBEE-40FVE-R9

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K)		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
40	3000 K	90	1000	3.0	135	160	2770 K	2970 K	120	2500
	3000 K	90	1000	3.0	135	160	2770 K	2970 K		
	3000 K	90	1000	3.0	135	160	2770 K	2970 K		
	3000 K	90	1000	3.0	135	160	2770 K	2970 K		

PBEB-65FQE-VVWV



Size 5.7 x 4.7 mm

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K)		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
65	3000 K	90	1400	3.1	204	240	2930 K	3140 K	120	4500
	6300 K	67	1400	3.1	340	400	5660 K	7180 K		
	3000 K	90	1400	3.1	204	240	2930 K	3140 K		
	6300 K	67	1400	3.1	340	400	5660 K	7180 K		

PBEB-65FWE

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K)		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
65	6300 K	67	1400	3.1	340	400	5660 K	7180 K	120	4500
	6300 K	67	1400	3.1	340	400	5660 K	7180 K		
	6300 K	67	1400	3.1	340	400	5660 K	7180 K		
	6300 K	67	1400	3.1	340	400	5660 K	7180 K		

PBEB-65FVE-R9

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K)		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
65	3000 K	90	1400	3.1	204	240	2930 K	3140 K	120	4500
	3000 K	90	1400	3.1	204	240	2930 K	3140 K		
	3000 K	90	1400	3.1	204	240	2930 K	3140 K		
	3000 K	90	1400	3.1	204	240	2930 K	3140 K		

General Lighting

Entertainment

Automotive

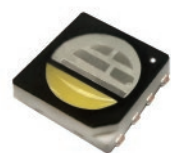
UV

Plant Growing

IR

Entertainment Lighting

MULTI-COLOR IN 1



PE8A-FFTE-E

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
0.5	Red	-	20	2.2	625 mcd	700 mcd	620 nm	626 nm	120
	Green	-	20	3.2	1520 mcd	1800 mcd	519 nm	524 nm	
	Blue	-	20	3.2	320 mcd	360 mcd	465 nm	470 nm	
	White	70	60	3.2	18 lm	22.5 lm	5640 K	6970 K	

PE8A-FFTE-ERGBN

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
0.5	Red	-	20	2.2	625 mcd	700 mcd	620 nm	626 nm	120
	Green	-	20	3.2	1520 mcd	1800 mcd	519 nm	524 nm	
	Blue	-	20	3.2	320 mcd	360 mcd	465 nm	470 nm	
	Neutral White	80	60	3.2	16 lm	19.5 lm	3700 K	4250 K	

PE8A-FFTE-ERGBV

Watt	Color	CRI (Min.)	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
0.5	Red	-	20	2.2	625 mcd	700 mcd	620 nm	626 nm	120
	Green	-	20	3.2	1520 mcd	1800 mcd	519 nm	524 nm	
	Blue	-	20	3.2	320 mcd	360 mcd	465 nm	470 nm	
	Warm White	80	60	3.2	15 lm	18.5 lm	2850 K	3250 K	

MONO COLOR



3535 series

Size 3.46 x 3.45 mm

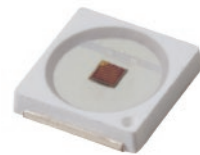
Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)	Max Current (mA)
					Min.	Typ.	Min.	Max.		
3	PK2E-3LRE-SD	Red	350	2.1	50	60	620 nm	630 nm	130	700
	PK2N-3LRE-SD	Red	350	2.2	50	64	613.5 nm	631 nm	130	700
	PK2E-3LGE-SD	Green	350	3.0	100	130	520 nm	535 nm	130	700
	PK2N-3LGE-SD	Green	350	3.1	80	150	515 nm	535 nm	130	700
	PK2E-3LBE-SD	Blue	350	3.1	18.1	27	455 nm	465 nm	130	700
	PK2N-3LBE-SD	Blue	350	3.1	23.5	29	455 nm	475 nm	130	700
	PK2N-3LCE-SD	Cyan	350	3.1	70	83	495 nm	515 nm	130	700
	PK2N-3LAE-SD	Amber	350	2.2	50	70	587 nm	597 nm	130	700
	PK2E-3LPE-ASD	PC Amber	350	3.2	80	100	587.8 nm	590.4 nm	130	700
	PK2E-3LPE-JASD	PC Amber	350	3.2	60	70	589.7 nm	591.5 nm	130	700
	PK2E-3LPE-YSD	PC Yellow	350	3.2	80	89	583 nm	585.4 nm	130	700
	PK2E-3LPE-J21	2100K	350	3.2	90	108	2090 K	2190 K	130	700
PK2E-3LPE-J24	2400K	350	3.2	100	121	2370 K	2470 K	130	700	
4	PK2N-4LRE-SSD	Red	350	2.2	40	55	610 nm	630 nm	130	1000
	PK2N-4LGE-SSD	Green	350	3.3	110	123	525 nm	535 nm	130	1000
	PK2N-4LDE-SSD	Royal Blue	350	2.95	560 _(mW)	640 _(mW)	450 nm	460 nm	130	1000
	PK2N-4LPE-SASD	PC Amber	350	2.95	90	112	587.8 nm	590.4 nm	130	1000
5	PK2E-5LPE-ASD	PC Amber	350	3.05	90	105	587.8 nm	590.4 nm	130	1200
	PK2E-5LPE-J21	2100 K	350	3.05	100	113	2090 K	2190 K	130	1200
	PK2E-5LPE-M	PC Magenta	350	3.05	40	45	-	-	130	1200

MONO COLOR



3030 series

Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
1	PW2N-1FPE-B20B	● 2000 K	150	6.4	100	122	1920 K	2100 K	120
	PW2N-1FPE-J21	● 2100 K	150	6.4	90	110	2090 K	2190 K	120
	PW2N-1FPE-JB2SC	● PC Blue	150	6.4	90	110	482.5 nm	485.5 nm	120
	PW2N-1FPE-A2SC	● PC Amber	150	6.4	90	106	587.8 nm	590.4 nm	120
	PW2N-1FPE-A2	● PC Amber	300	3.2	90	106	587.8 nm	590.4 nm	120
2	PW2N-2FPE-B2	● PC Blue	350	3.1	60	70	465 nm	475 nm	120



3030 series

Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D		2θ _{1/2} (°)
					Min.	Typ.	Min.	Max.	
1	PJ2E-1FRE	● Red	350	2.6	30	42	620 nm	630 nm	120
	PJ2E-1FGE	● Green	350	3.6	50	65	515 nm	535 nm	120
	PJ2E-1FBE	● Blue	350	3.6	10.7	15.5	455 nm	475 nm	120
2	PJ2E-2LPE-A2	● PC Amber	350	3.1	110	120	587.8 nm	590.4 nm	130



AUTOMOTIVE
Series

Automotive series

PRO-CSP HEADLAMP

- Pro-CSP adopts the evolutionary new phosphor film technology, which provide better light uniformity and reliability.
- All series passed AEC Q101 test.

PBVB-7FWU-F2G 7W



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
	Max Current(mA)		Min.	Typ.		
○ White	1000	6.5	550	650	5620 K 5880 K 6150 K 6450 K	120
	1500	6.8	730	860		

PBVC-10FWU-F3G 10W



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
	Max Current(mA)		Min.	Typ.		
○ White	1000	9.7	800	975	5620 K 5880 K 6150 K 6450 K	120
	1500	10.2	1060	1290		

PBVD-14FWU-F4G 14W



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
	Max Current(mA)		Min.	Typ.		
○ White	1000	12.9	1050	1300	5620 K 5880 K 6150 K 6450 K	120
	1500	13.6	1390	1720		

PBVE-17FWU-F5G 17W



Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
	Max Current(mA)		Min.	Typ.		
○ White	1000	16.2	1400	1650	5620 K 5880 K 6150 K 6450 K	120
	1500	17.0	1860	2190		

PBVF-31FWU-F9G 31W



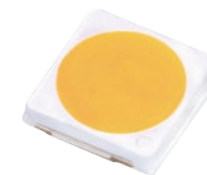
Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
	Max Current(mA)		Min.	Typ.		
○ White	1000	30.1	2750	3200	5620 K 5880 K 6150 K 6450 K	120
	1500	31.0	3650	4250		

EMITTER

- Applications : Rear Light / Signal Light / Braking Light / DRL

3030 package

Size 3.0 x 3.0 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AJ2N-WA1DF-2	○ White	150	3.2	55	65	5850 K	120
AJ2N-PA1DF-A	● PC Amber	150	3.2	50	55	589 nm	120
AJ2N-RA1DF	● Red	150	2.2	18.1	20	623 nm	120
AJ2N-GA1DF	● Green	150	3.2	30.6	35	525 nm	120
AJ2N-BA1DF	● Blue	150	3.2	6.3	9	465 nm	120
PJ2N-2FPE-A2	● PC Amber	350	3.1	90	120	589 nm 590.7 nm	120

3535 package

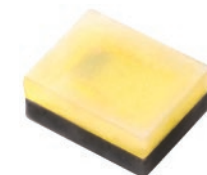
Size 3.44 x 3.45 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AK2N-WA1HL-2	○ White	350	3.1	130	135	5500 K	130
AK2N-PB1HL-A	● PC Amber	350	3.1	120	135	589 nm 590.7 nm	130

2016 package

Size 2.04 x 1.64 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (K) / λ _D (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AF2N-WA1JF-2	○ White	1000	3.5	200	250	5610 K 6370 K 5850 K 6650 K 6100 K	125
AF2N-PA1JF-A	● PC Amber	1000	3.5	160	200	-	125

General Lighting

Entertainment

Automotive

UV

Plant Growing

IR

Automotive series

EMITTER

WARNING LIGHT

2016 PLCC series

>Size 2.2 x 1.6 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AV2N-WA1AF-1	○ White	50	3.2	13.9	20	5850 K	120



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		λ _D (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AV2N-AA1AF-A	● PC Amber	50	3.2	13.9	15.8	589 nm	120

3334 package

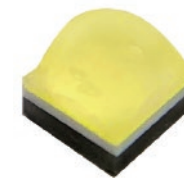
>Size 3.3 x 3.0 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		λ _D (Typ.)	2θ _{1/2} (°)
				Min.	Typ.		
AL6A-RA1DF	● Red	140	2.2	4.5	8.1	617 nm	120

1616 package

>Size 1.6 x 1.6 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT / λ _D (Typ.)	2θ _{1/2} (°)	Max Current (mA)
				Min.	Typ.			
PQ2N-4LWE-WFC	○ White	350	3.0	140	148	5600 K	130	1000
PQ2N-4LNE-WFC	○ Neutral White	350	3.0	140	148	4255 K	130	1000
PQ2N-4LVE-WFCR8	● Warm White	350	3.0	130	138	2900 K	130	1000
PQ2N-4LPE-AWFC	● PC Amber	350	3.0	80	95	589.7 nm	130	1000
PQ2N-4LBE-V	● Blue	350	3.0	39.8	47	477.5 nm	130	1000
PQ2N-4LRE	● Red	350	2.1	50	65	620 nm	130	1000

3535 package

>Size 3.46 x 3.45 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Lumens		CCT / λ _D (Typ.)	2θ _{1/2} (°)	Max Current (mA)
				Min.	Typ.			
PK2N-2LPE-A2	● Amber	350	3.1	120	135	589 nm 590.7 nm	130	700
PK2N-2LBE-B2	● PC Blue	350	3.1	40	50	470 nm	130	700
PK2N-3LRE-SD	● Red	350	2.2	50	64	623 nm	130	700
PK2N-2LWE-B2R7S	○ White	350	3.0	160	175	5600K	130	800

General Lighting

Entertainment

Automotive

UV

Plant Growing

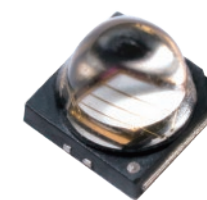
IR

UV QUARTZ LENS

- High ultraviolet light penetration.
- Suitable for UV printing and UV curing.

3535 3W High radiant Power (mW)

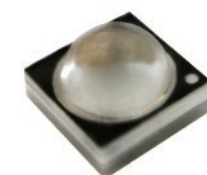
>Size 3.45 x 3.44 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
PK2D-3JLE-NV	● UVA	700	3.5	1500	395 nm	55

3535 3W High Lux (mW/cm²)

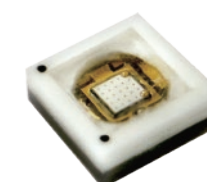
>Size 3.45 x 3.44 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
PB2D-3KLA-GS	● UVA	700	3.7	950	365 nm	60
PB2D-3KLA-GM	● UVA	700	3.5	1050	385 nm	60
PB2D-3KLA-G	● UVA	700	3.5	1050	395 nm	60
PB2D-3JLA-GS	● UVA	700	3.7	930	365 nm	35
PB2D-3JLA-GM	● UVA	700	3.5	1030	385 nm	35
PB2D-3JLA-G	● UVA	700	3.5	1030	395 nm	35

3535 3W High Lux (mW/cm²)

>Size 3.45 x 3.44 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
PB2D-3FLA-GS	● UVA	700	3.7	970	365 nm	120
PB2D-3FLA-GM	● UVA	700	3.5	1070	385 nm	120
PB2D-3FLA-G	● UVA	700	3.5	1070	395 nm	120



UV LED Series

General Lighting

Entertainment

Automotive

UV

Plant Growing

IR

UV series

UV QUARTZ LENS



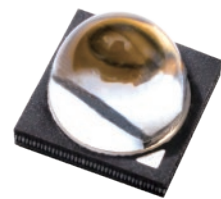
5050 10W

>size 5.0 x 5.0 mm

Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PBRD-10KLA-GS	● UVA	1000	7.4	2800	365 nm	60	1400
PBRD-10KLA-M	● UVA	1000	6.8	2900	385 nm	60	1400
PBRD-10KLA	● UVA	1000	6.8	3100	395 nm	60	1400

7070 (6868) 10W

>size 7.0 x 7.0 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PBSD-10JLA-GS	● UVA	1000	7.4	2900	365 nm	48	1400
PBSD-10JLA-M	● UVA	1000	6.8	3000	385 nm	48	1400
PBSD-10JLA	● UVA	1000	6.8	3200	395 nm	48	1400
PBSD-10KLA-GS	● UVA	1000	7.4	3000	365 nm	60	1400
PBSD-10KLA-M	● UVA	1000	6.8	3100	385 nm	60	1400
PBSD-10KLA	● UVA	1000	6.8	3300	395 nm	60	1400
PBSD-10KQA-GSMVL	● UV	500	13.9	3550	365-405nm	60	700
PBSD-10JQA-GSMVL	● UV	500	13.9	3400	365-405nm	48	700

UV QUARTZ LENS MODULE

- High ultraviolet light penetration.
- Seamless side by side module design uniform energy distribution.
- Suitable for UV printing and UV curing

LED 3535



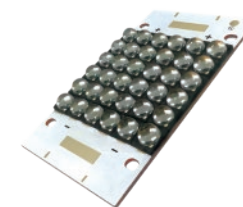
Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. W)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PB2M-3KLU-GDA72A0S	● UVA	4200	46.8	67.0	365 nm	60	-
PK2M-3JLU-D72A0M	● UVA	4200	42.0	105.0	385 nm	60	-
PK2M-3JLU-D72A0	● UVA	4200	42.0	108.0	395 nm	60	-
PB2M-3JLU-GDA72A0S	● UVA	4200	46.8	67.0	365 nm	30	-
PB2M-3JLU-DA72A0M	● UVA	4200	42.0	68.4	385 nm	30	-
PB2M-3JLU-DA72A0	● UVA	4200	42.0	68.4	395 nm	30	-

LED 5050



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. W)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PBRM-10KLU-GDA36A0S	● UVA	6000	44.4	100.0	365 nm	60	8400
PBRM-10KLU-DA36A0M	● UVA	6000	40.8	104.0	385 nm	60	8400
PBRM-10KLU-DA36A0	● UVA	6000	40.8	111.5	395 nm	60	8400

LED 7070



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. W)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PBSM-10JLU-GDA36A0S	● UVA	6000	44.4	100.0	365 nm	48	8400
PBSM-10JLU-DA36A0M	● UVA	6000	40.8	104.0	385 nm	48	8400
PBSM-10JLU-DA36A0	● UVA	6000	40.8	111.5	395 nm	48	8400
PBSM-10JLU-GDA24A0S	● UVA	6000	29.6	67.2	365 nm	48	8400
PBSM-10JLU-DA24A0M	● UVA	6000	27.2	69.6	385 nm	48	8400
PBSM-10JLU-DA24A0	● UVA	6000	27.2	74.4	395 nm	48	8400

General Lighting

Entertainment

Automotive

UV

Plant Growing

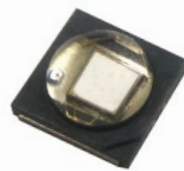
IR

UV series

UV SILICON LENS

- Various viewing angle options.
- Standard 3535 package.
- Wattage : 3W

>Size 3.45 x 3.46mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PK2B-3LLE-NVM	● UV-M	500	3.4	1000	385 nm	130	700
PK2B-3LLE-PNV	● UV	500	3.4	1050	395 nm	130	700

>Size 3.45 x 3.46 mm

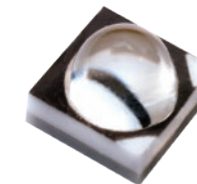


Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)	Max Current (mA)
PK2B-3JLE-NVM	● UV-M	500	3.4	1000	385 nm	60	700
PK2B-3JLE-NV	● UV	500	3.4	1050	395 nm	60	700

UVC

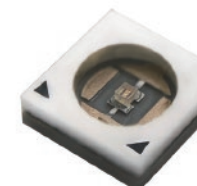
- Suitable for sterilization.

>Size 3.5 x 3.5 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
PB2D-UJLA-TC	● UV-C	20	6.5	3.5	275 nm	35
PB2D-1JLA-TC	● UV-C	100	7.0	10.5	275 nm	35

>Size 3.5 x 3.5 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
PB2D-UCLA-TC	● UV-C	100	6.5	3.5	275 nm	120
PB2D-1CLA-TC	● UV-C	100	7.0	10.5	275 nm	120

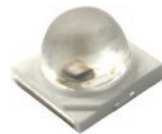
UV series

UV NAIL CURING LED

- Various package options.
- Dual-wavelength design.



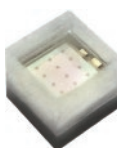
Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
1	PM2E-1LLE	● UV	350	3.4	640	400 nm	130
3	PM2J-3LLE-SD	● UV	700	3.7	1200	400 nm	130
1	PM2G-1LQE-SL	● UV	150	7.0	430	370+400 nm	130



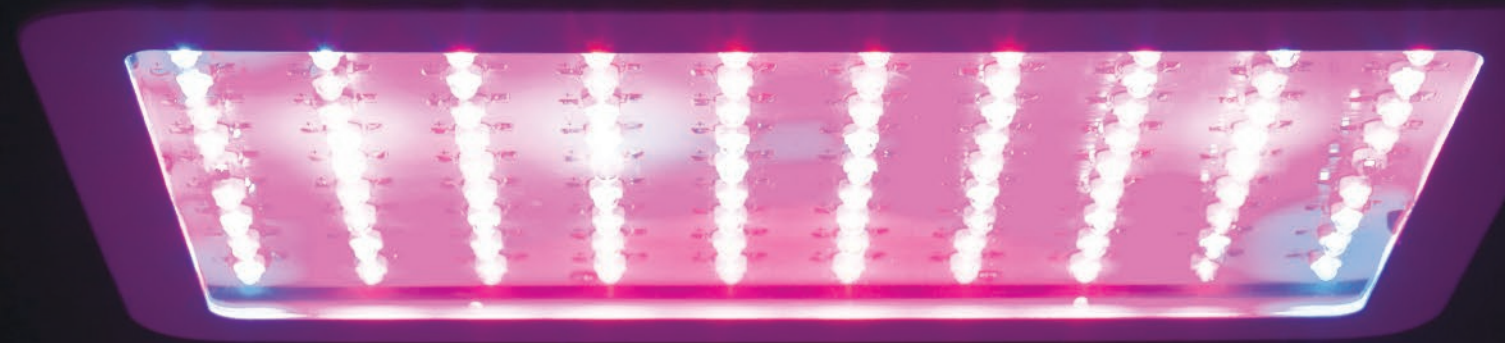
Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
1	PK2N-1KYE-WSL	● White	150	7.6	280	370+400 nm	85
1	PK2N-1KQE-SL	● UV	150	7.6	325	370+400 nm	85
2	PK2N-2KYE-WSL	● White	150	7.0	330	370+400 nm	85
2	PK2N-2KQE-SL	● UV	150	7.0	380	370+400 nm	85



Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
0.2	PQ2N-TLLE-VS	● UV	60	3.6	90	370 nm	130



Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	λ _p (Typ.)	2θ _{1/2} (°)
3	PQ2N-3FLE-AFC	● UV	350	3.1	510	400 nm	150



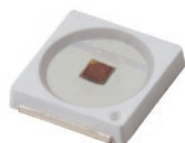
PLANT GROWING
Series

PLANT GROWING

- Industry standard 3030 and 3535 package.
- High energy efficacy.

3030 0.5W

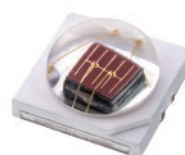
>Size 3.0 x 3.0 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	PPF (μmol / s)	PPF/W (μmol / J)	λ _D / λ _P		2θ _{1/2} (°)
							Min.	Max.	
PW2R-FFDE-A	Royal Blue	150	3.2	250	0.93	1.94	450 nm	460 nm	120
PW2R-FFME-A	Crimson	150	2.1	138	0.75	2.38	650 nm	670 nm	120
PW2R-FFEE-A	Cherry Red	150	2.1	115	0.69	2.19	720 nm	740 nm	120

3535 3W

>Size 3.45 x 3.46 mm



Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	PPF (μmol / s)	PPF/W (μmol / J)	λ _D / λ _P		2θ _{1/2} (°)
							Min.	Max.	
PK2N-3LDE-HSD	Royal Blue	350	2.9	730	2.71	2.67	448 nm	458 nm	130
PK2N-3LME-HSD	Crimson	350	2.05	468	2.55	3.55	650 nm	670 nm	130
PK2N-3LEE-HSD	Cherry Red	350	2.1	378	2.27	3.09	720 nm	740 nm	130

3535 4W

Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ. mW)	PPF (μmol / s)	PPF/W (μmol / J)	λ _D / λ _P		2θ _{1/2} (°)
							Min.	Max.	
PK2N-4LME-HSDLA	Crimson	700	2.15	960	5.17	3.44	650 nm	670 nm	140

IR LED

- Various viewing angle options.

>Size 3.45 x 3.47 mm



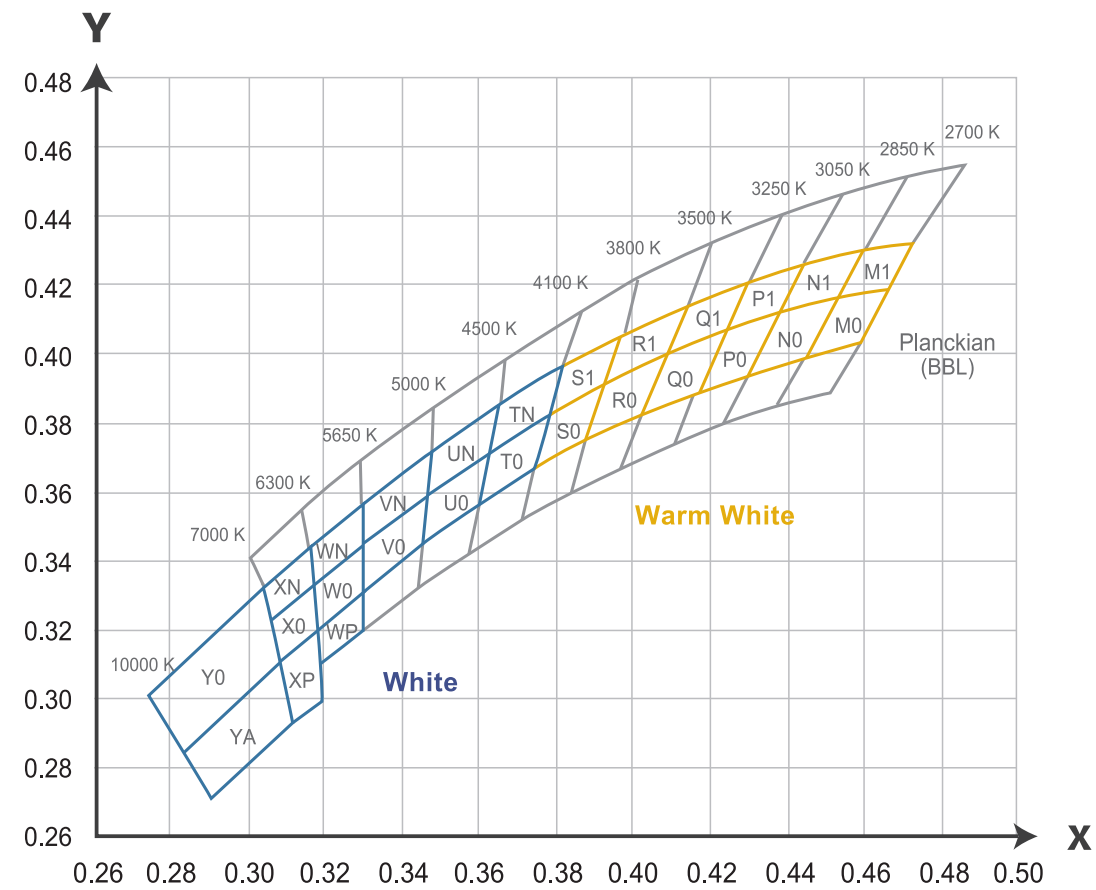
Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ.mW)	mW / sr (Typ.)	λ _p (Typ.)	2θ _{1/2} (°)
2	PK2S-2KJE-A	IR850	1000	1.75	950	560	855 nm	80
	PK2S-2KJE-B	IR850	700	1.60	500	300	855 nm	80
	PK2S-2KKE-A	IR940	1000	2.00	625	350	940 nm	80
3	PK2S-3KJE-A	IR850	1000	2.95	1400	780	855 nm	80
	PK2S-3KKE-A	IR940	1000	2.95	1190	993	940 nm	80
4	PK2S-4KJE-A	IR850	1000	1.67	960	490	855 nm	80
2	PK2S-2LJE-A	IR850	1000	1.75	950	290	855 nm	130
3	PK2S-3LJE-A	IR850	1000	3.13	1560	410	855 nm	130
4	PK2S-4LJE-A	IR850	1000	1.67	960	255	855 nm	130

>Size 3.45 x 3.46 mm



Watt	Part No.	Color	Test Current (mA)	V _F (Typ.)	Radiometric Power (Typ.mW)	mW / sr (Typ.)	λ _p (Typ.)	2θ _{1/2} (°)
1	PK2N-1JJE-A	IR850	700	1.7	530	530	855 nm	60
	PK2N-1KJE-A	IR850	700	1.7	530	300	855 nm	80
	PK2N-1LJE-A	IR850	700	1.7	530	150	855 nm	130
2	PK2N-2JJE-RB	IR850	350	1.5	300	300	855 nm	55
	PK2N-2KJE-SD	IR850	350	1.5	300	155	855 nm	80
	PK2N-2LJE-SD	IR850	350	1.5	300	80	855 nm	140
	PK2N-2LKE-SD	IR940	350	1.5	270	70	940 nm	140

Standard Product Binning Structure Graphical Representation



(The picture is for reference only, the actual binning for each product please refer to the datasheet)

