

# Lextar

Ennosstar Group

## Lighting LED and Module

— Smart Innovation, Amazing Life —



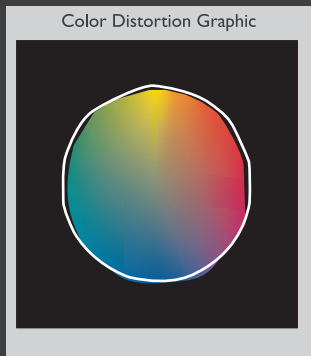
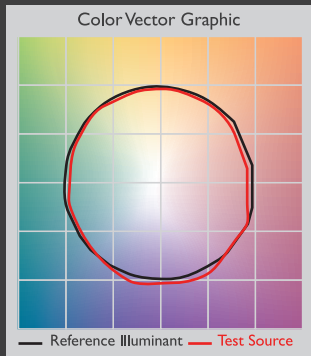
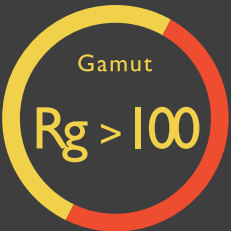
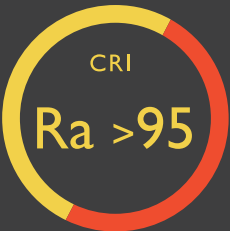
**SOLAR WHITE**

Boost  
Vibrant  
Colors

# True Color

Delivering true-to-life colors

Outstanding **CRI 97** solution with excellent efficacy and light quality



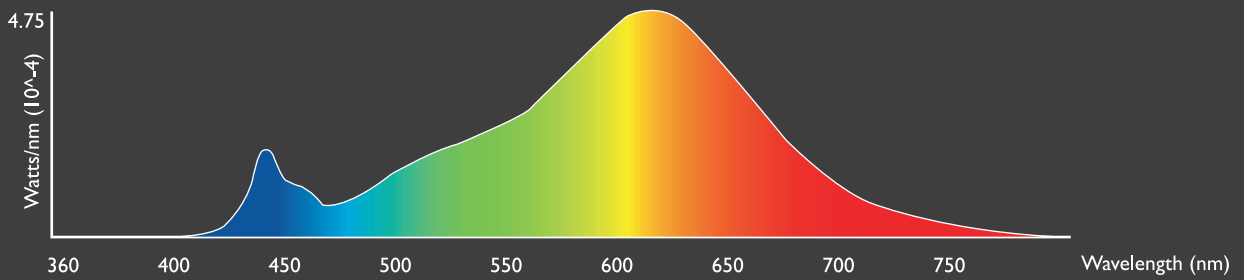
Available in all SMD component and COB

# Low Blue Light

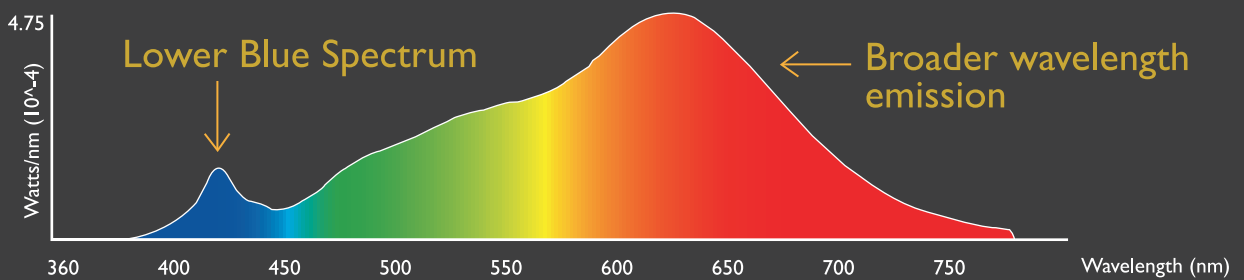
Keeping your eyes healthy in modern world



Standard CRI80 LED



Lexlar Solar White CRI95 LED



# Contents

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Low / Mid Power Series 04 3806 / 3014 / 4014 / 5630 / 3030 PCT / 3030 EMC / 2835

High Power Series 14 5050 / 2020 / 3535

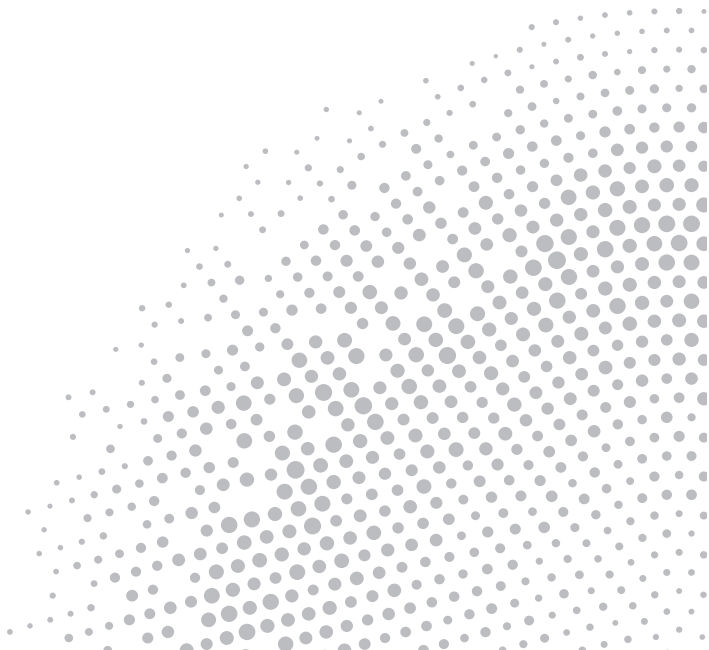
Multi-Color Series 20 5050 RGB in One / 5050 RGBWW in One / 3030 Color / 2020 Color / 3535 Color

Horticulture Series 23 3030 / 3535 / 2020 / COB

COB 25 Version 5 / High Voltage

Module 30

Patents 34



# Low | Mid Power Series

3806

3014

4014

5630

3030 PCT

3030 EMC

2835



# 3806

- LM-80 certified LED
- ANSI 2700-10000K available for 3806
- Side emitting package, ideal for slim lighting



3.8 x 0.6 x 1

[20mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)								
				F9 6-6.5	FA 6.5-7	FB 7-7.5	FC 7.5-8	FD 8-8.5	FE 8.5-9	FF 9-9.5	FG 9.5-10	
80	2700	PC38H01 V0	2.7-3.2									
	3000	PC38H01 V0	2.7-3.2									
	3500	PC38H01 V0	2.7-3.2									
	4000	PC38H01 V0	2.7-3.2									
	5000	PC38H01 V0	2.7-3.2									
	5700	PC38H01 V0	2.7-3.2									
	6500	PC38H01 V0	2.7-3.2									
90	2700	PC38U02 V0	2.7-3.2									
	3000	PC38U02 V0	2.7-3.2									
	3500	PC38U02 V0	2.7-3.2									
	4000	PC38U02 V0	2.7-3.2									
	5000	PC38U02 V0	2.7-3.2									
	5700	PC38U02 V0	2.7-3.2									
	6500	PC38U02 V0	2.7-3.2									

# 3014

- LM-80 certified LED
- Small size & high lumen output
- Wide CCT range available 1800K-8000K
- Best performance and competitive cost for panel light



\*3.0 x 1.4 x 1.2



3.0 x 1.4 x 0.65

0.06W 3V

[20mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (mcd)					
				B8 2180-2290	B9 2290-2400	BA 2400-2550	BB 2550-2700	BC 2700-2850	BD 2850-3000
80	2700	PT30A02 V0	2.7-3.2						
	3000	PT30A02 V0	2.7-3.2						
	3500	PT30A02 V0	2.7-3.2						
	4000	PT30A02 V0	2.7-3.2						
	5000	PT30A02 V0	2.7-3.2						
	5700	PT30A02 V0	2.7-3.2						
	6500	PT30A02 V0	2.7-3.2						

CRI	CCT (K)	Part Number	Vf	Luminus Flux (mcd)					
				BP 1800-1940	BQ 1940-2100	BR 2100-2240	BS 2240-2400	BT 2400-2590	BU 2590-2800
90	2700	PC30U11 V0	2.7-3.2						
	3000	PC30U11 V0	2.7-3.2						
	3500	PC30U11 V0	2.7-3.2						
	4000	PC30U11 V0	2.7-3.2						

\*Top & Side view available

0.2W 3V

[65mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)								
				TB	TC	TD	TE	TF	TG	TH	TI	TJ
				18-20	20-22	22-24	24-26	26-28	28-30	30-32	32-34	34-36
80	2700	PC30H08 V1	2.8-3.3									
	3000	PC30H08 V1	2.8-3.3									
	3500	PC30H08 V1	2.8-3.3									
	4000	PC30H08 V1	2.8-3.3									
	5000	PC30H08 V1	2.8-3.3									
	5700	PC30H08 V1	2.8-3.3									
	6500	PC30H08 V1	2.8-3.3									
80	2700	PC30H08 V3	2.8-3.3									
	3000	PC30H08 V3	2.8-3.3									
	3500	PC30H08 V3	2.8-3.3									
	4000	PC30H08 V3	2.8-3.3									
	5000	PC30H08 V3	2.8-3.3									
	5700	PC30H08 V3	2.8-3.3									
	6500	PC30H08 V3	2.8-3.3									
80	2700	PC30H08 V4	2.9-3.4									
	3000	PC30H08 V4	2.9-3.4									
	3500	PC30H08 V4	2.9-3.4									
	4000	PC30H08 V4	2.9-3.4									
	5000	PC30H08 V4	2.9-3.4									
	5700	PC30H08 V4	2.9-3.4									
	6500	PC30H08 V4	2.9-3.4									
80 (Low Vf)	2700	PC30H08 V5	2.7-3.2									
	3000	PC30H08 V5	2.7-3.2									
	3500	PC30H08 V5	2.7-3.2									
	4000	PC30H08 V5	2.7-3.2									
	5000	PC30H08 V5	2.7-3.2									
	5700	PC30H08 V5	2.7-3.2									
	6500	PC30H08 V5	2.7-3.2									
90	2700	PC30U12 V0	2.8-3.3									
	3000	PC30U12 V0	2.8-3.3									
	3500	PC30U12 V0	2.8-3.3									
	4000	PC30U12 V0	2.8-3.3									
	5000	PC30U12 V0	2.8-3.3									
	5700	PC30U12 V0	2.8-3.3									
	6500	PC30U12 V0	2.8-3.3									
90	2700	PC30U12 V1	2.8-3.3									
	3000	PC30U12 V1	2.8-3.3									
	3500	PC30U12 V1	2.8-3.3									
	4000	PC30U12 V1	2.8-3.3									
	5000	PC30U12 V1	2.8-3.3									
	5700	PC30U12 V1	2.8-3.3									
	6500	PC30U12 V1	2.8-3.3									
95 SOLAR WHITE	2700	PC30V21 V0	2.8-3.3									
	3000	PC30V21 V0	2.8-3.3									
	3500	PC30V21 V0	2.8-3.3									
	4000	PC30V21 V0	2.8-3.3									
	5000	PC30V21 V0	2.8-3.3									
	5700	PC30V21 V0	2.8-3.3									
	6500	PC30V21 V0	2.8-3.3									

# 4014

- LM-80 certified LED
- Small size & high lumen output
- Best performance and competitive cost for linear application



4.0 × 1.46 × 0.65

[60mA, 25°C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)						
				TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36
80 (PPA)	2700	PC40H03.0	2.8-3.3							
	3000	PC40H03.0	2.8-3.3							
	3500	PC40H03.0	2.8-3.3							
	4000	PC40H03.0	2.8-3.3							
	5000	PC40H03.0	2.8-3.3							
	5700	PC40H03.0	2.8-3.3							
	6500	PC40H03.0	2.8-3.3							
80 (PCT)	3500	PC40H04.1	2.8-3.3							
	4000	PC40H04.1	2.8-3.3							
	5000	PC40H04.1	2.8-3.3							
80 (PCT)	3500	PC40H04.3	2.9-3.4							
	4000	PC40H04.3	2.9-3.4							
	5000	PC40H04.3	2.9-3.4							
80 (PCT)	3000	PC40H04.4	2.8-3.3							
	4000	PC40H04.4	2.8-3.3							
	5000	PC40H04.4	2.8-3.3							
90 (PCT)	2700	PC40U06.2	2.8-3.3							
	3000	PC40U06.2	2.8-3.3							
	3500	PC40U06.2	2.8-3.3							
	4000	PC40U06.2	2.8-3.3							
	5000	PC40U06.2	2.8-3.3							
	5700	PC40U06.2	2.8-3.3							
	6500	PC40U06.2	2.8-3.3							



# 5630

- LM-80 certified LED
- High efficacy (210~215 lm/W Ra80)



5.6 × 3.0 × 0.6

## 56A

[65mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)							
				VE	VF	VG	H1	H2	I1	I2	
				22.5-25	25.5-28	28-31.5	31.5-33.5	33.5-35.5	35.5-38	38-40.5	
80	2700	PC56H19.0	2.7-3.1								
	3000	PC56H19.0	2.7-3.1								
	3500	PC56H19.0	2.7-3.1								
	4000	PC56H19.0	2.7-3.1								
	5000	PC56H19.0	2.7-3.1								
	5700	PC56H19.0	2.7-3.1								
	6500	PC56H19.0	2.7-3.1								
	2700	PC56H19.1	2.65-3.05								
	3000	PC56H19.1	2.65-3.05								
	3500	PC56H19.1	2.65-3.05								
	4000	PC56H19.1	2.65-3.05								
	5000	PC56H19.1	2.65-3.05								
	5700	PC56H19.1	2.65-3.05								
	6500	PC56H19.1	2.65-3.05								
	2700	PC56H19.2	2.6-3.0								
	3000	PC56H19.2	2.6-3.0								
	3500	PC56H19.2	2.6-3.0								
	4000	PC56H19.2	2.6-3.0								
5000	PC56H19.2	2.6-3.0									
5700	PC56H19.2	2.6-3.0									
6500	PC56H19.2	2.6-3.0									
90	2700	PC56U21.0	2.7-3.1								
	3000	PC56U21.0	2.7-3.1								
	3500	PC56U21.0	2.7-3.1								
	4000	PC56U21.0	2.7-3.1								
	5000	PC56U21.0	2.7-3.1								
	5700	PC56U21.0	2.7-3.1								
	6500	PC56U21.0	2.7-3.1								
	2700	PC56U21.2	2.6-3.0								
	3000	PC56U21.2	2.6-3.0								
	3500	PC56U21.2	2.6-3.0								
	4000	PC56U21.2	2.6-3.0								
	5000	PC56U21.2	2.6-3.0								
	5700	PC56U21.2	2.6-3.0								
	6500	PC56U21.2	2.6-3.0								



5.6 × 3.0 × 0.67

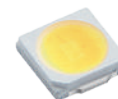
## 56B

[65mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)							
				VE	VF	VG	H1	H2	I1	I2	
				22.5-25	25.5-28	28-31.5	31.5-33.5	33.5-35.5	35.5-38	38-40.5	
80	2700	PC56H25.0	2.6-3.0								
	3000	PC56H25.0	2.6-3.0								
	3500	PC56H25.0	2.6-3.0								
	4000	PC56H25.0	2.6-3.0								
	5000	PC56H25.0	2.6-3.0								
	5700	PC56H25.0	2.6-3.0								
	6500	PC56H25.0	2.6-3.0								
90	2700	PC56U26.0	2.6-3.0								
	3000	PC56U26.0	2.6-3.0								
	3500	PC56U26.0	2.6-3.0								
	4000	PC56U26.0	2.6-3.0								
	5000	PC56U26.0	2.6-3.0								
	5700	PC56U26.0	2.6-3.0								
	6500	PC56U26.0	2.6-3.0								

# 3030 PCT

- LM-80 certified LED
- Low thermal resistance



3.2 × 3.0 × 0.6

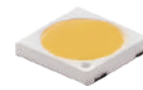
0.5W 3V				[65mA, 25C]						
CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)						
				VE 22.5-25	VF 25.5-28	VG 28-31.5	HI 31.5-33.5	H2 33.5-35.5	I1 35.5-38	I2 38-40.5
80	2700	PC33H23.0	2.7-3.1							
	3000	PC33H23.0	2.7-3.1							
	3500	PC33H23.0	2.7-3.1							
	4000	PC33H23.0	2.7-3.1							
	5000	PC33H23.0	2.7-3.1							
	5700	PC33H23.0	2.7-3.1							
	6500	PC33H23.0	2.7-3.1							
	2700	PC33H23.2	2.6-3.0							
	3000	PC33H23.2	2.6-3.0							
	3500	PC33H23.2	2.6-3.0							
	4000	PC33H23.2	2.6-3.0							
	5000	PC33H23.2	2.6-3.0							
	5700	PC33H23.2	2.6-3.0							
	6500	PC33H23.2	2.6-3.0							
95 SOLAR WHITE	2700	PC33V41.0	2.6-3.0							
	3000	PC33V41.0	2.6-3.0							
	3500	PC33V41.0	2.6-3.0							
	4000	PC33V41.0	2.6-3.0							
	5000	PC33V41.0	2.6-3.0							
	5700	PC33V41.0	2.6-3.0							
	6500	PC33V41.0	2.6-3.0							

1W 48V				[25mA, 25C]			
CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)			
				EW 130-140	EX 140-150	EY 150-160	EZ 160-170
80	2700	PC33H05.1	44-53				
	3000	PC33H05.1	44-53				
	3500	PC33H05.1	44-53				
	4000	PC33H05.1	44-53				
	5000	PC33H05.1	44-53				
	5700	PC33H05.1	44-53				
	6500	PC33H05.1	44-53				

1W 32V				[40mA, 25C]		
CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)		
				EX 140-150	EY 150-160	EZ 160-170
80	2700	PC33HI3.1	29-35			
	3000	PC33HI3.1	29-35			
	3500	PC33HI3.1	29-35			
	4000	PC33HI3.1	29-35			
	5000	PC33HI3.1	29-35			
	5700	PC33HI3.1	29-35			
	6500	PC33HI3.1	29-35			

# 3030EMC

- Best reliability performance
- LM-80 certified LED
- High efficacy
- Simple design to pair with optical lens



3.2 × 3.0 × 0.6



3.2 × 3.0 × 0.6

0.5W 3V

[65mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)						
				VF	VG	HI	H2	I1	I2	
				25.5-28	28-31.5	31.5-33.5	33.5-35.5	35.5-38	38-40.5	
70	3000	PC33N60.0	2.6-2.9							
	3500	PC33N60.0	2.6-2.9							
	4000	PC33N60.0	2.6-2.9							
	5000	PC33N60.0	2.6-2.9							
	5700	PC33N60.0	2.6-2.9							
6500	PC33N60.0	2.6-2.9								
80	3000	PC33H61.0	2.6-2.9							
	3500	PC33H61.0	2.6-2.9							
	4000	PC33H61.0	2.6-2.9							
	5000	PC33H61.0	2.6-2.9							
	5700	PC33H61.0	2.6-2.9							
6500	PC33H61.0	2.6-2.9								
90	3000	PC33U62.0	2.6-2.9							
	3500	PC33U62.0	2.6-2.9							
	4000	PC33U62.0	2.6-2.9							
	5000	PC33U62.0	2.6-2.9							
	5700	PC33U62.0	2.6-2.9							
6500	PC33U62.0	2.6-2.9								

1W 6V

[150mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)							
				ES	ET	EU	EV	EW	EX	EY	
				90-100	100-110	110-120	120-130	130-140	140-150	150-160	
70	3000	PC33N58.0	5.8-6.4								
	3500	PC33N58.0	5.8-6.4								
	4000	PC33N58.0	5.8-6.4								
	5000	PC33N58.0	5.8-6.4								
	5700	PC33N58.0	5.8-6.4								
6500	PC33N58.0	5.8-6.4									
80	2700	PC33H11.2	5.8-6.4								
	3000	PC33H11.2	5.8-6.4								
	3500	PC33H11.2	5.8-6.4								
	4000	PC33H11.2	5.8-6.4								
	5000	PC33H11.2	5.8-6.4								
5700	PC33H11.2	5.8-6.4									
6500	PC33H11.2	5.8-6.4									
90	3000	PC33U06.3	5.8-6.4								
	3500	PC33U06.3	5.8-6.4								
	4000	PC33U06.3	5.8-6.4								
	5000	PC33U06.3	5.8-6.4								
	5700	PC33U06.3	5.8-6.4								
6500	PC33U06.3	5.8-6.4									
95 SOLAR WHITE	2700	PC33V67.0	5.8-6.6								
	3000	PC33V67.0	5.8-6.6								
	4000	PC33V67.0	5.8-6.6								
	5000	PC33V67.0	5.8-6.6								
	5700	PC33V67.0	5.8-6.6								
6500	PC33V67.0	5.8-6.6									

# 2835

- LM-80 certified LED
- Low thermal resistance
- The most cost competitive solution



3.5 × 2.8 × 0.65

0.5W 3V

[65mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)								
				TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	
80	2700	PC35H11.0	2.8-3.1									
	3000	PC35H11.0	2.8-3.1									
	3500	PC35H11.0	2.8-3.1									
	4000	PC35H11.0	2.8-3.1									
	5000	PC35H11.0	2.8-3.1									
	5700	PC35H11.0	2.8-3.1									
	6500	PC35H11.0	2.8-3.1									
	2700	PC35H11.1	2.8-3.1									
	3000	PC35H11.1	2.8-3.1									
	3500	PC35H11.1	2.8-3.1									
	4000	PC35H11.1	2.8-3.1									
	5000	PC35H11.1	2.8-3.1									
	5700	PC35H11.1	2.8-3.1									
	6500	PC35H11.1	2.8-3.1									
	2700	PC35H11.2	2.7-3.0									
	3000	PC35H11.2	2.7-3.0									
	3500	PC35H11.2	2.7-3.0									
	4000	PC35H11.2	2.7-3.0									
	5000	PC35H11.2	2.7-3.0									
	5700	PC35H11.2	2.7-3.0									
	6500	PC35H11.2	2.7-3.0									
	2700	PC35H11.3	2.7-3.0									
	3000	PC35H11.3	2.7-3.0									
	3500	PC35H11.3	2.7-3.0									
	4000	PC35H11.3	2.7-3.0									
	5000	PC35H11.3	2.7-3.0									
	5700	PC35H11.3	2.7-3.0									
	6500	PC35H11.3	2.7-3.0									
	2700	PC35H11.4	2.7-3.0									
	3000	PC35H11.4	2.7-3.0									
3500	PC35H11.4	2.7-3.0										
4000	PC35H11.4	2.7-3.0										
5000	PC35H11.4	2.7-3.0										
5700	PC35H11.4	2.7-3.0										
6500	PC35H11.4	2.7-3.0										
2700	PC35H11.5	2.7-3.0										
3000	PC35H11.5	2.7-3.0										
3500	PC35H11.5	2.7-3.0										
4000	PC35H11.5	2.7-3.0										
5000	PC35H11.5	2.7-3.0										
5700	PC35H11.5	2.7-3.0										
6500	PC35H11.5	2.7-3.0										
90	2700	PC35U16.1	2.8-3.1									
	3000	PC35U16.1	2.8-3.1									
	3500	PC35U16.1	2.8-3.1									
	4000	PC35U16.1	2.8-3.1									
	5000	PC35U16.1	2.8-3.1									
	5700	PC35U16.1	2.8-3.1									
	6500	PC35U16.1	2.8-3.1									
	2700	PC35U16.3	2.8-3.1									
	3000	PC35U16.3	2.8-3.1									
	3500	PC35U16.3	2.8-3.1									
	4000	PC35U16.3	2.8-3.1									
	5000	PC35U16.3	2.8-3.1									
	5700	PC35U16.3	2.8-3.1									
	6500	PC35U16.3	2.8-3.1									

0.2W 3V

[60mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)								
				TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	
80	2700	PC35HI2.0	2.8-3.2									
	3000	PC35HI2.0	2.8-3.2									
	3500	PC35HI2.0	2.8-3.2									
	4000	PC35HI2.0	2.8-3.2									
	5000	PC35HI2.0	2.8-3.2									
	5700	PC35HI2.0	2.8-3.2									
	6500	PC35HI2.0	2.8-3.2									

1W 54V

[20mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				VU 110-120	VV 120-130	VW 130-140	VX 140-150	VY 140-150	VZ 140-150
80	2700	PC35H40.0	49-58						
	3000	PC35H40.0	49-58						
	3500	PC35H40.0	49-58						
	4000	PC35H40.0	49-58						
	5000	PC35H40.0	49-58						
	5700	PC35H40.0	49-58						
	6500	PC35H40.0	49-58						

1W 38V

[30mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				VS 95-100	VT 100-110	VU 110-120	VV 120-130	VW 130-140	VX 140-150
80	2700	PC35H39.0	34-39						
	3000	PC35H39.0	34-39						
	3500	PC35H39.0	34-39						
	4000	PC35H39.0	34-39						
	5000	PC35H39.0	34-39						
	5700	PC35H39.0	34-39						
	6500	PC35H39.0	34-39						

1W 18V

[50mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)									
				VR 95-100	VS 100-105	VT 105-110	UA 110-115	UB 115-120	VV 120-130	VW 130-140	VX 140-150		
80	2700	PC35H38.0	17.0-20.0										
	3000	PC35H38.0	17.0-20.0										
	3500	PC35H38.0	17.0-20.0										
	4000	PC35H38.0	17.0-20.0										
	5000	PC35H38.0	17.0-20.0										
	5700	PC35H38.0	17.0-20.0										
	6500	PC35H38.0	17.0-20.0										
	2700	PC35H38.1	17.0-20.0										
	3000	PC35H38.1	17.0-20.0										
	3500	PC35H38.1	17.0-20.0										
	4000	PC35H38.1	17.0-20.0										
	5000	PC35H38.1	17.0-20.0										
	5700	PC35H38.1	17.0-20.0										
	6500	PC35H38.1	17.0-20.0										

IW 12V

[100mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)								
				VT	UA	UB	VV	VW	VX	VY	VZ	
				105-110	110-115	115-120	120-130	130-140	140-150	140-150	140-150	
80	2700	PC35H21.0	11.0-14.0									
	3000	PC35H21.0	11.0-14.0									
	3500	PC35H21.0	11.0-14.0									
	4000	PC35H21.0	11.0-14.0									
	5000	PC35H21.0	11.0-14.0									
	5700	PC35H21.0	11.0-14.0									
	6500	PC35H21.0	11.0-14.0									

IW 9V

[100mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)								
				VR	VS	VT	UA	UB	VV	VW	VX	
				95-100	100-105	105-110	110-115	115-120	120-130	130-140	140-150	
80	2700	PC35HI3.0	8.7-9.6									
	3000	PC35HI3.0	8.7-9.6									
	3500	PC35HI3.0	8.7-9.6									
	4000	PC35HI3.0	8.7-9.6									
	5000	PC35HI3.0	8.7-9.6									
	5700	PC35HI3.0	8.7-9.6									
	6500	PC35HI3.0	8.7-9.6									
	2700	PC35HI3.1	8.7-9.6									
	3000	PC35HI3.1	8.7-9.6									
	3500	PC35HI3.1	8.7-9.6									
	4000	PC35HI3.1	8.7-9.6									
	5000	PC35HI3.1	8.7-9.6									
	5700	PC35HI3.1	8.7-9.6									
	6500	PC35HI3.1	8.7-9.6									
	2700	PC35HI3.2	8.7-9.6									
	3000	PC35HI3.2	8.7-9.6									
3500	PC35HI3.2	8.7-9.6										
4000	PC35HI3.2	8.7-9.6										
5000	PC35HI3.2	8.7-9.6										
5700	PC35HI3.2	8.7-9.6										
6500	PC35HI3.2	8.7-9.6										
90	2700	PC35U27.1	8.7-9.6									
	3000	PC35U27.1	8.7-9.6									
	3500	PC35U27.1	8.7-9.6									
	4000	PC35U27.1	8.7-9.6									
	5000	PC35U27.1	8.7-9.6									
	5700	PC35U27.1	8.7-9.6									
6500	PC35U27.1	8.7-9.6										
90	2700	PC35U27.2	8.7-9.6									
	3000	PC35U27.2	8.7-9.6									
	3500	PC35U27.2	8.7-9.6									
	4000	PC35U27.2	8.7-9.6									
	5000	PC35U27.2	8.7-9.6									
	5700	PC35U27.2	8.7-9.6									
6500	PC35U27.2	8.7-9.6										

# High Power Series

5050

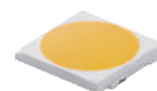
2020

3535



# 5050 EMC HV

- Excellent reliability, LM-80 certified LED
- Simple optical design
- Delivers superb light quality
- Good solution for spotlight & candle light



5.8 × 5.2 × 0.7

55A

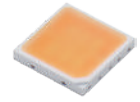
36V				Luminus Flux (lm)						[150mA, 25C]
CRI	CCT (K)	Part Number	Vf	GO	GP	GQ	GR	GS	GT	
				500-550	550-600	600-660	660-726	726-799	799-879	
70	3000	PC55NI3.0	35.7-38.7							
	4000	PC55NI3.0	35.7-38.7							
	5000	PC55NI3.0	35.7-38.7							
	6500	PC55NI3.0	35.7-38.7							
80	2700	PC55HI0.0	35.7-38.7							
	3000	PC55HI0.0	35.7-38.7							
	4000	PC55HI0.0	35.7-38.7							
	5000	PC55HI0.0	35.7-38.7							
	6500	PC55HI0.0	35.7-38.7							
90	2700	PC55UI4.0	35.7-38.7							
	3000	PC55UI4.0	35.7-38.7							
	4000	PC55UI4.0	35.7-38.7							

18V				Luminus Flux (lm)						[300mA, 25C]
CRI	CCT (K)	Part Number	Vf	GO	GP	GQ	GR	GS	GT	
				500-550	550-600	600-660	660-726	726-799	799-879	
80	2700	PC55HI0.1	16.3-19.9							
	3000	PC55HI0.1	16.3-19.9							
	4000	PC55HI0.1	16.3-19.9							
	5000	PC55HI0.1	16.3-19.9							
	6500	PC55HI0.1	16.3-19.9							

12V				Luminus Flux (lm)						[450mA, 25C]
CRI	CCT (K)	Part Number	Vf	GO	GP	GQ	GR	GS	GT	
				500-550	550-600	600-660	660-726	726-799	799-879	
80	2700	PC55HI0.2	11.1-13.5							
	3000	PC55HI0.2	11.1-13.5							
	4000	PC55HI0.2	11.1-13.5							
	5000	PC55HI0.2	11.1-13.5							
	6500	PC55HI0.2	11.1-13.5							



55B



5.5 × 0.7 × 0.7

High Efficiency 36V

[150mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)					
				GP	GQ	GR	GS	GT	GU
				550-600	600-660	660-726	726-799	799-879	879-967
70	3000	PC55NI7.0	35.7-38.7						
	4000	PC55NI7.0	35.7-38.7						
	5000	PC55NI7.0	35.7-38.7						
	6500	PC55NI7.0	35.7-38.7						
80	2700	PC55HI6.0	35.7-38.7						
	3000	PC55HI6.0	35.7-38.7						
	4000	PC55HI6.0	35.7-38.7						
	5000	PC55HI6.0	35.7-38.7						
	6500	PC55HI6.0	35.7-38.7						
90	2700	PC55UI8.0	35.7-38.7						
	3000	PC55UI8.0	35.7-38.7						
	4000	PC55UI8.0	35.7-38.7						

High Efficiency 24V

[160mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)					
				GO	GP	GQ	GR	GS	GT
				500-550	550-600	600-660	660-726	726-799	799-879
70	2700	PC55N20.0	23.5-25.9						
	3000	PC55N20.0	23.5-25.9						
	4000	PC55N20.0	23.5-25.9						
	5000	PC55N20.0	23.5-25.9						
	5700	PC55N20.0	23.5-25.9						
	6500	PC55N20.0	23.5-25.9						
80	2700	PC55H21.0	23.5-25.9						
	3000	PC55H21.0	23.5-25.9						
	4000	PC55H21.0	23.5-25.9						
	5000	PC55H21.0	23.5-25.9						
	5700	PC55H21.0	23.5-25.9						
	6500	PC55H21.0	23.5-25.9						

High Efficiency 18V

[300mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminous Flux (lm)					
				GP	GQ	GR	GS	GT	GU
				550-600	600-660	660-726	726-799	799-879	879-967
70	3000	PC55N17.1	16.3-19.9						
	4000	PC55N17.1	16.3-19.9						
	5000	PC55N17.1	16.3-19.9						
	6500	PC55N17.1	16.3-19.9						
80	2700	PC55HI6.1	16.3-19.9						
	3000	PC55HI6.1	16.3-19.9						
	4000	PC55HI6.1	16.3-19.9						
	5000	PC55HI6.1	16.3-19.9						
	6500	PC55HI6.1	16.3-19.9						
90	2700	PC55UI8.1	16.3-19.9						
	3000	PC55UI8.1	16.3-19.9						
	4000	PC55UI8.1	16.3-19.9						

55B

High Efficiency 12V

[450mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				GP	GQ	GR	GS	GT	GU
				550-600	600-660	660-726	726-799	799-879	879-967
70	3000	PC55N17.2	11.1-13.5						
	4000	PC55N17.2	11.1-13.5						
	5000	PC55N17.2	11.1-13.5						
	6500	PC55N17.2	11.1-13.5						
80	2700	PC55H16.2	11.1-13.5						
	3000	PC55H16.2	11.1-13.5						
	4000	PC55H16.2	11.1-13.5						
	5000	PC55H16.2	11.1-13.5						
	6500	PC55H16.2	11.1-13.5						
90	2700	PC55U18.2	11.1-13.5						
	3000	PC55U18.2	11.1-13.5						
	4000	PC55U18.2	11.1-13.5						

High Efficiency 6V

[640mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				GO	GP	GQ	GR	GS	GT
				500-550	550-600	600-660	660-726	726-799	799-879
70	2700	PC55N20.1	5.8-6.5						
	3000	PC55N20.1	5.8-6.5						
	4000	PC55N20.1	5.8-6.5						
	5000	PC55N20.1	5.8-6.5						
	5700	PC55N20.1	5.8-6.5						
	6500	PC55N20.1	5.8-6.5						
80	2700	PC55H21.1	5.8-6.5						
	3000	PC55H21.1	5.8-6.5						
	4000	PC55H21.1	5.8-6.5						
	5000	PC55H21.1	5.8-6.5						
	5700	PC55H21.1	5.8-6.5						
	6500	PC55H21.1	5.8-6.5						

Standard 24V

[160mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				GO	GP	GQ	GR	GS	GT
				500-550	550-600	600-660	660-726	726-799	799-879
70	2700	PC55N24.0	23.5-25.9						
	3000	PC55N24.0	23.5-25.9						
	4000	PC55N24.0	23.5-25.9						
	5000	PC55N24.0	23.5-25.9						
	5700	PC55N24.0	23.5-25.9						
	6500	PC55N24.0	23.5-25.9						
80	2700	PC55H26.0	23.5-25.9						
	3000	PC55H26.0	23.5-25.9						
	4000	PC55H26.0	23.5-25.9						
	5000	PC55H26.0	23.5-25.9						
	5700	PC55H26.0	23.5-25.9						
	6500	PC55H26.0	23.5-25.9						

55B

Standard 18V

[200mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				GO	GP	GQ	GR	GS	GT
				500-550	550-600	600-660	660-726	726-799	799-879
70	2700	PC55N25.0	17.4-20						
	3000	PC55N25.0	17.4-20						
	4000	PC55N25.0	17.4-20						
	5000	PC55N25.0	17.4-20						
	5700	PC55N25.0	17.4-20						
	6500	PC55N25.0	17.4-20						

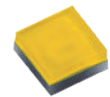
Standard 6V

[640mA, 25C]

CRI	CCT (K)	Part Number	Vf	Luminus Flux (lm)					
				GO	GP	GQ	GR	GS	GT
				500-550	550-600	600-660	660-726	726-799	799-879
70	2700	PC55N24.1	5.8-6.5						
	3000	PC55N24.1	5.8-6.5						
	4000	PC55N24.1	5.8-6.5						
	5000	PC55N24.1	5.8-6.5						
	5700	PC55N24.1	5.8-6.5						
	6500	PC55N24.1	5.8-6.5						
80	2700	PC55H26.1	5.8-6.5						
	3000	PC55H26.1	5.8-6.5						
	4000	PC55H26.1	5.8-6.5						
	5000	PC55H26.1	5.8-6.5						
	5700	PC55H26.1	5.8-6.5						
	6500	PC55H26.1	5.8-6.5						

## 2020

- High lumen output in a directional lamp
- Excellent reliability meeting professional requirement
- Suitable for narrow beam angles requirement



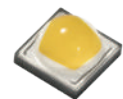
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T<sub>j</sub>=25C

Model Name	Color	CCT	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC20X09.0	PC Amber	NA	100	102	2.6	3.4	350
	CRI80 WW	3700 - 4700	100	128	2.6	2.4	350
	CRI80 WW	3700 - 4700	110	140	2.6	2.4	350
	CRI70 CW	4700 - 7000	115	160	2.6	2.4	350

## 3535

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement designs
- Best thermal solution / high performance
- Superior efficiency PPF/W in horticulture application



3.45 × 3.45 × 2.24

T<sub>j</sub>=25C

Model Name	Color	CCT	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09.2	PC Amber	NA	110	130	2.8	3.4	350
PEX3N10.0	CRI 70	2600 - 7000	160	190	2.8	3.4	350

# Multi – Color Series

5050 RGB in One

5050 RGBWW in One

3030 Color

2020 Color

3535 Color



## 5050 RGB in One

- Integrated color mixing solution
- Lead frame package with 3 individual channels
- High sensitivity for red, green and blue light

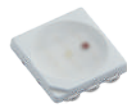


5.4 × 5.0 × 1.6

0.2W

T<sub>j</sub>=25C

Model Name	Color	Wd (nm)	Luminous Flux (mcd)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50XA1.Y	RGB in 1	R : 620 - 630	770	1050	1.6	2.4	20
		G : 525 - 535	2500	3500	2.6	3.3	20
		B : 450 - 465	400	600	2.6	3.3	20



5.8 × 5.2 × 0.7

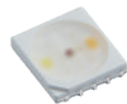
1W

T<sub>j</sub>=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X01.I	RGB in 1	R : 620 - 630	10	16	1.8	2.6	100
		G : 525 - 535	30	40	2.9	3.4	100
		B : 457 - 467	3	7	2.8	3.3	100

## 5050 RGBWW in One

- Advanced color mixing solution
- Lead frame package with 5 individual channels
- Achieving both color vividness and white stability
- Tunable CCT and color



5.8 × 5.2 × 0.7

T<sub>j</sub>=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X02.0	RGB in 1	R : 620 - 630	10	16	1.8	2.6	100
		G : 525 - 535	20	26	2.9	3.4	100
		B : 457 - 467	3	7	2.8	3.3	100
		W1 : NA	20	30	2.8	3.3	100
		W2 : NA	20	30	2.8	3.3	100

## 3030 Color

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement designs
- Best thermal solution / JEDEC Level I



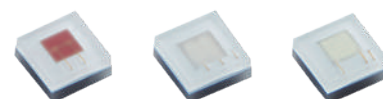
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T<sub>j</sub>=25°C

Model Name	Color	Wd (nm)	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC33X50.0	Red	620 - 630	16	19	1.8	2.6	150
	Green	522.5 - 535	20	37	2.8	3.6	150
	Blue	457 - 467	9	12	2.8	3.6	150
	Amber	580 - 595	14	20	1.8	2.6	150
	Orange	605 - 620	14	20	1.8	2.6	150
	Royal Blue	450 - 457	190	250	2.8	3.6	150
	Hyper Red	650 - 670	100	110	2.2	2.6	150
Far Red	715 - 745	70	85	1.8	2.6	150	

## 2020 Color

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- Suitable for narrow beam angles



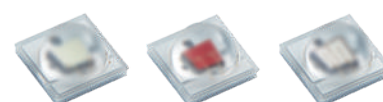
2.0 × 2.0 × 0.85

T<sub>j</sub>=25°C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC20X09.0	Red	620 - 630	67	72	1.8	2.6	350
	Green	520 - 540	110	137	2.5	3.4	350
	Blue	465 - 480	31	39	2.6	3.4	350
	Amber	585 - 600	38	47	1.8	2.6	350
	Royal Blue	450 - 460	9	17	2.6	3.4	350

## 3535 Color

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement designs
- Best thermal solution / high performance
- Superior efficiency PPF/W in horticulture application



3.5 × 3.5 × 2.1

T<sub>j</sub>=25°C

Model Name	Color	Wd (nm)	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09.1	Red	620 - 630	72	83	1.8	2.6	350
	Green	520 - 530	130	140	2.6	3.2	350
	Blue	465 - 480	25	35	2.6	3.4	350
	Amber	590 - 595	50	60	1.8	2.6	350
	Royal Blue	450 - 460	600	660	2.6	3.2	350
	Hyper Red	650 - 670	400	455	1.8	2.6	350
	Far Red	720 - 740	340	380	1.8	2.6	350

# Horticulture Series

3030

3535

2020

COB





## 3030

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement designs
- Best thermal solution / JEDEC Level I



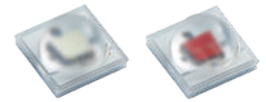
5.4 × 5.0 × 1.6

Tj=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC33X50.0	Royal Blue	450 - 457	190	250	2.8	3.6	150
	Hyper Red	650 - 670	100	110	1.8	2.6	150
	Far Red	715 - 745	70	85	1.8	2.6	150

## 3535

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement designs
- Best thermal solution /High performance
- Superior efficiency PPF/W in horticulture application



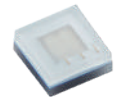
3.5 × 3.5 × 2.1

Tj=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09.1	Royal Blue	450 - 460	600	660	2.6	3.2	350
	Hyper Red	650 - 670	400	455	1.8	2.6	350
	Far Red	720 - 740	340	380	1.8	2.6	350

## 2020

- High lumen output for a directional application
- Excellent reliability meeting professional requirement
- Suitable for narrow beam angles



2.0 × 2.0 × 0.85

Tj=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC20X09.0	Royal Blue	450 - 460	360	468	2.6	3.5	350

## COB

- Low thermal resistance and 2.5X operating available
- High efficacy and long life time (L70 > 50,000@105°C )
- High PPF/W > 2 @ Tj=85C



19 × 19 × 1.5

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		PPF/W typ.	Forward Current (mA)	Max Forward Current (mA)
			Min	Typ	Min	Typ			
PC26H01 VI	Royal Blue	440 - 460	515	550	30.7	36.1	2.06	720	1800
	PC Hyper Red	655 - 675	990	1050	30.7	36.1	2.11	720	1800

# COB

Version 5

High Voltage



# Version 5

- Low thermal resistance and strong Lextar MJT Chip make 2.5X operating available
- High efficacy and long life time (L70 > 50,000@105°C ) to be an excellent selection for DLC 4.0 application
- Solar white Ra>95 solution



T<sub>j</sub> = 85°C

Product	Dimension (mm)		13.5 x 13.5 x 1.5			19 x 19 x 1.5			28 x 28 x 1.5	
	LES		9.8			14.5			22	
Group	Current		180 mA	270 mA	360 mA	450 mA	540 mA	720 mA	1080 mA	1080 mA
	Ra min	Im/W @5000K	34.5V	34.5V	34.5V	34.5V	34.5V	34.5V	34.5V	54V
Version 5	95	120	PB06V11.0	PB09V03.0	PB13V03.0	PB16V03.0	PB19V03.0	PB26V03.0	PB38V03.0	PB54V03.0
Version 5	90	130	PB06U10.1	PB09U02.1	PB13U02.1	PB16U02.1	PB19U02.1	PB26U02.1	PB38U02.1	PB54U02.0
Version 5	80	158	PB06H09.2	PB09H01.1	PB13H04.1	PB16H01.1	PB19H01.1	PB26H01.1	PB38H01.1	PB54H01.0

CRI 80

T<sub>j</sub> = 85°C

Light Emitting Surface (mm)	Model Name	Dimension LxWxH (mm)	Power(W)	CCT (K)	Luminous Flux (lm)		Efficacy (lm/w)	Forward Voltage (V)	Forward Current (mA)
					Typ	Typ	Typ	Typ	
9.8	PB06H09 V2	13.5 x 13.5 x 1.5	6.12	2700	879	144	34.0	180	
				3000	920	150	34.0	180	
				3500	944	154	34.0	180	
				4000	958	157	34.0	180	
				5000	968	158	34.0	180	
				6500	949	155	34.0	180	
	PB09H01 VI		2700	1310	143	34.0	270		
			3000	1372	149	34.0	270		
			3500	1407	153	34.0	270		
			4000	1428	156	34.0	270		
			5000	1442	157	34.0	270		
			6500	1413	154	34.0	270		
	PB13H01 VI		2700	1713	140	34.0	360		
			3000	1782	146	34.0	360		
			3500	1826	149	34.0	360		
			4000	1854	151	34.0	360		
			5000	1873	153	34.0	360		
			6500	1836	150	34.0	360		
14.5	PB16H01 VI	19.0 x 19.0 x 1.5	15.3	2700	2218	145	34.0	450	
				3000	2312	151	34.0	450	
				3500	2370	155	34.0	450	
				4000	2408	157	34.0	450	
				5000	2432	159	34.0	450	
				6500	2383	156	34.0	450	
	PB19H01 VI		2700	2632	143	34.0	540		
			3000	2742	149	34.0	540		
			3500	2811	153	34.0	540		
			4000	2856	156	34.0	540		
			5000	2886	157	34.0	540		
			6500	2828	154	34.0	540		
	PB26H01 VI		2700	3432	140	34.0	720		
			3000	3593	147	34.0	720		
			3500	3688	151	34.0	720		
			4000	3744	153	34.0	720		
			5000	3782	154	34.0	720		
			6500	3706	151	34.0	720		
22.0	PB38H01 VI	28.0 x 28.0 x 1.5	36.72	2700	5428	148	34.0	1080	
				3000	5683	155	34.0	1080	
				3500	5833	159	34.0	1080	
				4000	5922	161	34.0	1080	
				5000	5982	163	34.0	1080	
				6500	5862	160	34.0	1080	
	PB54H01 V0		2700	7850	142	51.5	1080		
			3000	8200	149	51.5	1080		
			3500	8340	151	51.5	1080		
			4000	8550	155	51.5	1080		
			5000	8600	156	51.5	1080		
			6500	8550	155	51.5	1080		

CRI 90

T<sub>j</sub> = 85°C

Light Emitting Surface (mm)	Model Name	Dimension L×W×H (mm)	Power(W)	CCT (K)	Luminous Flux (lm)	Efficacy (lm/w)	Forward Voltage (V)	Forward Current (mA)	
					Typ	Typ	Typ		
9.8	PB06U10 V1	13.5 × 13.5 × 1.5	6.12	2700	747	122	34.0	180	
				3000	782	128	34.0	180	
				3500	802	131	34.0	180	
				4000	814	133	34.0	180	
				5000	823	134	34.0	180	
	PB09U02 V1		9.18	2700	1114	121	34.0	270	
				3000	1166	127	34.0	270	
				3500	1196	130	34.0	270	
				4000	1214	132	34.0	270	
				5000	1226	134	34.0	270	
	PB13U02 V1		12.24	2700	1456	119	34.0	360	
				3000	1515	124	34.0	360	
				3500	1552	127	34.0	360	
				4000	1576	129	34.0	360	
				5000	1592	130	34.0	360	
14.5	PB16U02 V1	19.0 × 19.0 × 1.5	15.3	2700	1885	123	34.0	450	
				3000	1965	128	34.0	450	
				3500	2015	132	34.0	450	
				4000	2047	134	34.0	450	
				5000	2067	135	34.0	450	
	PB19U02 V1	18.36	2700	2237	122	34.0	540		
			3000	2331	127	34.0	540		
			3500	2389	130	34.0	540		
			4000	2428	132	34.0	540		
			5000	2453	134	34.0	540		
	PB26U02 V1	24.48	2700	2917	119	34.0	720		
			3000	3054	125	34.0	720		
			3500	3135	128	34.0	720		
			4000	3182	130	34.0	720		
			5000	3215	131	34.0	720		
22.0	PB38U02 V1	28.0 × 28.0 × 1.5	36.72	2700	4614	126	34.0	1080	
				3000	4831	132	34.0	1080	
				3500	4958	135	34.0	1080	
				4000	5034	137	34.0	1080	
				5000	5085	138	34.0	1080	
	PB54U02 V0	55.188	2700	6673	121	51.1	1080		
			3000	6970	126	51.1	1080		
			3500	7089	128	51.1	1080		
			4000	7268	132	51.1	1080		
			5000	7310	132	51.1	1080		
					6500	7268	132	51.1	1080

CRI 95

**SOLAR WHITE**T<sub>j</sub> = 85°C

Light Emitting Surface (mm)	Model Name	Dimension L×W×H (mm)	Power(W)	CCT (K)	Luminous Flux (lm)	Efficacy (lm/w)	Forward Voltage (V)	Forward Current (mA)		
					Typ	Typ	Typ			
9.8	PB06V11 V0	13.5 × 13.5 × 1.5	6.12	2700	659	108	34.0	180		
				3000	690	113	34.0	180		
				3500	708	116	34.0	180		
				4000	719	117	34.0	180		
				5000	726	119	34.0	180		
	PB09V03 V0		9.18	2700	983	107	34.0	270		
				3000	1029	112	34.0	270		
				3500	1055	115	34.0	270		
				4000	1071	117	34.0	270		
				5000	1082	118	34.0	270		
	PB13V03 V0		12.24	2700	1285	105	34.0	360		
				3000	1337	109	34.0	360		
				3500	1370	112	34.0	360		
				4000	1391	114	34.0	360		
				5000	1405	115	34.0	360		
14.5	PB16V03 V0	19.0 × 19.0 × 1.5	15.3	2700	1664	109	34.0	450		
				3000	1734	113	34.0	450		
				3500	1778	116	34.0	450		
				4000	1806	118	34.0	450		
				5000	1824	119	34.0	450		
	PB19V03 V0		18.36	2700	1974	108	34.0	540		
				3000	2057	112	34.0	540		
				3500	2108	115	34.0	540		
				4000	2142	117	34.0	540		
				5000	2165	118	34.0	540		
	PB26V03 V0		24.48	2700	2574	105	34.0	720		
				3000	2695	110	34.0	720		
				3500	2766	113	34.0	720		
				4000	2808	115	34.0	720		
				5000	2837	116	34.0	720		
22.0	PB38V03 V0	28.0 × 28.0 × 1.5	36.72	2700	4071	111	34.0	1080		
				3000	4262	116	34.0	1080		
				3500	4375	119	34.0	1080		
				4000	4442	121	34.0	1080		
				5000	4487	122	34.0	1080		
	PB54V03 V0		55.188	2700	5888	107	51.1	1080		
				3000	6150	111	51.1	1080		
				3500	6255	113	51.1	1080		
				4000	6413	116	51.1	1080		
				5000	6450	117	51.1	1080		
						6500	6413	116	51.1	1080

# High Voltage

- Compatible for luminaries with high voltage linear driver
- Low Rth, good heat dissipation
- Customization acceptable



## 220-240V

Tj = 85°C

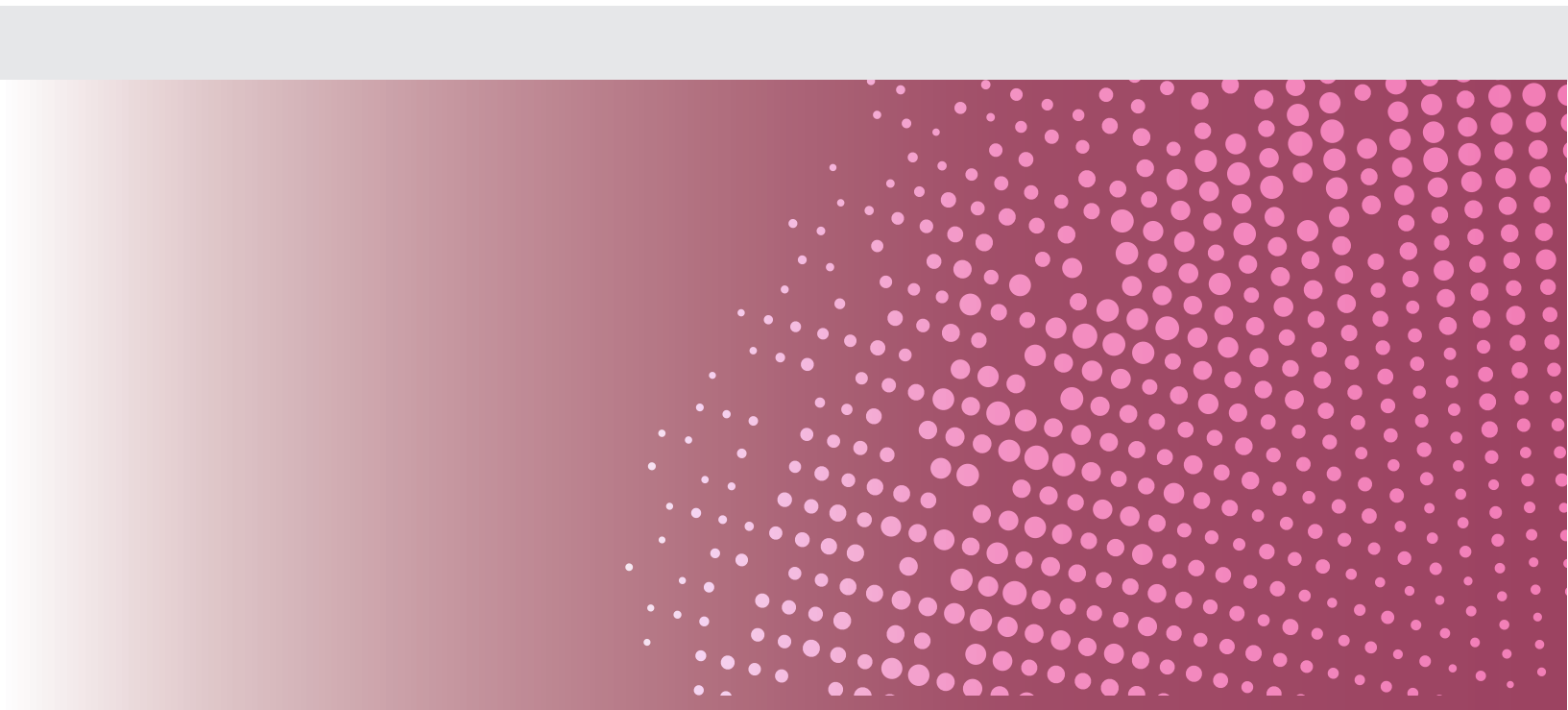
Light Emitting Surface (mm)	Model Name	Dimension L×W×H (mm)	Power (W)	CRI (min)	CCT (K)	Luminous Flux (lm)	Efficacy (lm/w)	Forward Voltage (V)	Forward Current (mA)
						Typ	Typ	Typ	
LES 14.9	PB17H03.0	30.4 x 30.4 x 1.5	17.6	80	2700	1912	109	270	65
					3000	2004	114		
					4000	2093	119		
					5000	2111	120		
					6500	2093	119		

## 100-130V

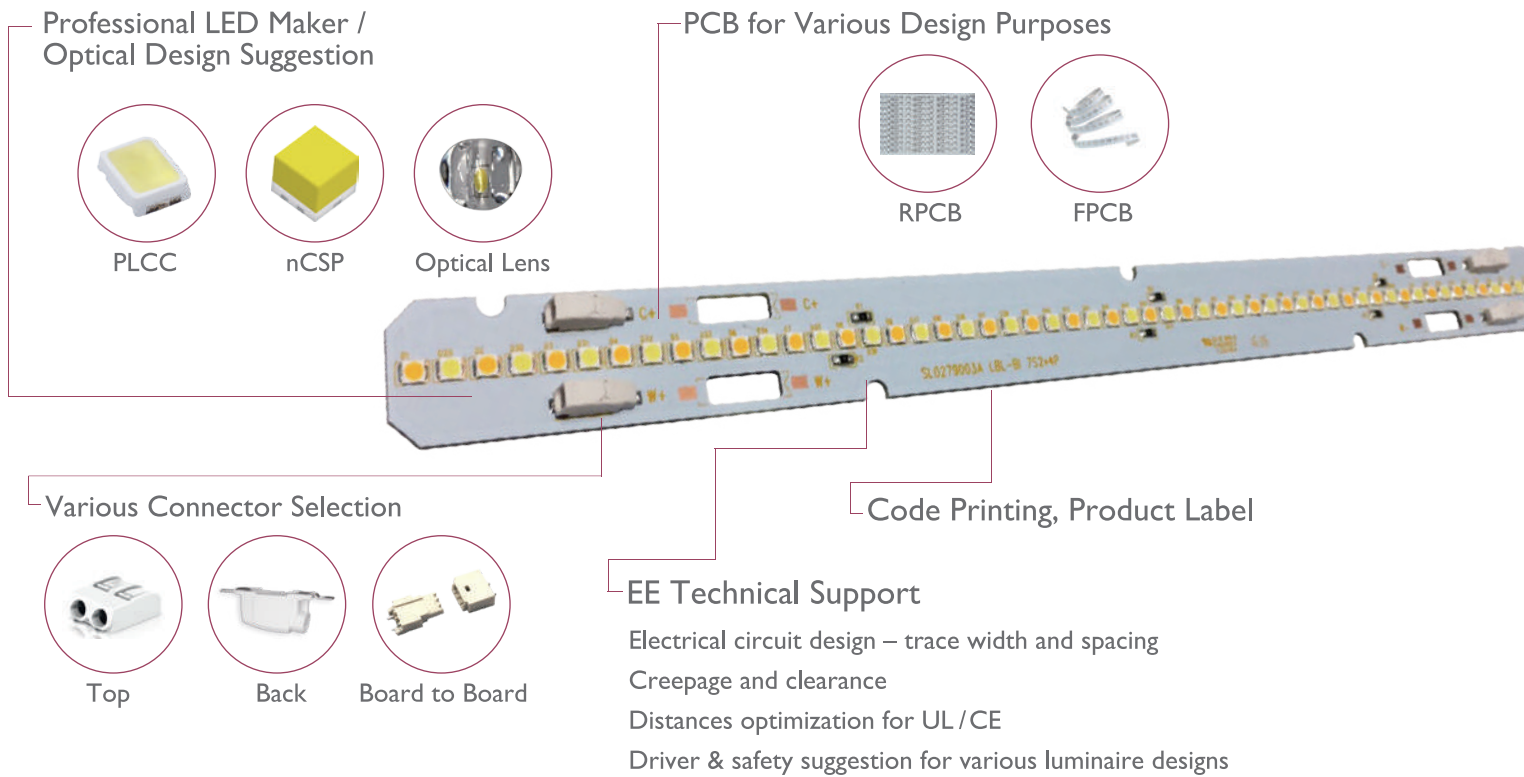
Tj = 85°C

Light Emitting Surface (mm)	Model Name	Dimension L×W×H (mm)	Power (W)	CRI (min)	CCT (K)	Luminous Flux (lm)	Efficacy (lm/w)	Forward Voltage (V)	Forward Current (mA)
						Typ	Typ	Typ	
LES 7.7	PB17H01.0	19.0 x 19.0 x 1.5	16.8	80	2700	1610	96	120	140
					3000	1660	99		
					4000	1750	104		
					5000	1750	104		
					6500	1750	104		
LES 12.4	PB27H01.0	28.0 x 28.0 x 1.5	27.0	80	2700	2585	96	120	225
					3000	2665	99		
					4000	2850	106		
					5000	2850	106		
					6500	2850	106		
LES 16.4	PB37H01.0	28.0 x 28.0 x 1.5	37.2	80	2700	3650	98	120	310
					3000	3760	101		
					4000	4035	108		
					5000	4035	108		
					6500	4035	108		

# Module



# Technology of Light Module – Total Solution Provider



## Light Module Customization Portfolio

Product Group	Indoor		Industrial / Outdoor	Horticulture	Signage
<b>Type</b>	General	Direct Lit	Rectangular / Round	Square / Linear	Direct Lit
<b>Application</b>	Linear Lighting Shop Light Wrap Light	Troffer Panel Light	High / Low Bay Street Light	Horticulture	Light box
<b>Key Features</b>	Zhaga Book7 Cost Optimization	LED + Lens	High Power High Reliability	Excellent PPF	Fix Voltage Length Cuttable
<b>LED</b>	All LED Types	2835 / 3030	5050 / 3030 / 3535 Emitter	450nm, 660nm, 730nm	2835 / 3030



# Reference Design

## Indoor Light Module

- 5 years warranty
- 3 SDCM binning
- Offers standard or customized module with optimized solution



LED		PCB				CCT(K)	CRI	SP	Typ. Flux (lm) @40°C	Forward Current (mA)	Typ. Voltage (V) @40°C	Typ. Power (W) @40°C	Efficacy (lm/W) @40°C
LED	Amount (pcs)	Type	Dim.1 (mm)	Dim.2 (mm)	Thick (mm)								
2835	32	FR4	280	20	1.0	4000	80	8S4P	1035	240	21.6	5.2	200
2835	64	FR4	560	20	1.0	4000	80	8S8P	2070	480	21.6	10.3	200
2835	128	FR4	1120	20	1.0	4000	80	8S16P	4140	960	21.6	20.7	200

## Indoor Light Module - Panel Light Application

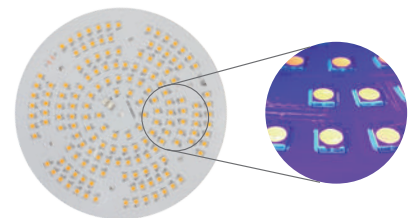
- LED + optical lens technology
- Excellent uniformity for area lighting
- Various beam angle for linear application



LED		PCB				CCT(K)	CRI	SP	Typ. Flux (lm) @25°C	Forward Current (mA)	Typ. Voltage (V) @25°C	Typ. Power (W) @25°C	Efficacy (lm/W) @25°C
LED	Amount (pcs)	Type	Dim.1 (mm)	Dim.2 (mm)	Thick (mm)								
3030	6	FR4	417	17.5	1	3500	80	6S1P	720	130	35.9	4.7	154

## Outdoor Light Module - High Bay Application

- High power LED available (3030/5050 / 3535 emitter)
- High quality SMT line with 100% SPI / AOI
- Optional conformal coating process



LED		PCB			CCT(K)	CRI	SP	Typ. Flux (lm) @55°C	Forward Current (mA)	Typ. Voltage (V) @55°C	Typ. Power (W) @55°C	Efficacy (lm/W) @55°C
LED	Amount (pcs)	Type	Diameter (mm)	Thick (mm)								
5050	161	MCPCB	Φ230	1.6	4000	70	7S23P	32760	2300	77.1	177.3	185

## Outdoor Light Module - High Bay/Street Light Application

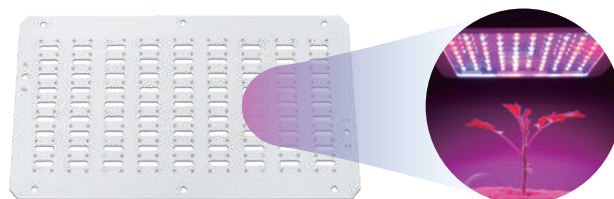
- High power LED available (3030 / 5050 / 3535 emitter)
- Optical lens solution for different angle requirement
- Zhaga Book 15



LED		PCB				CCT(K)	CRI	SP	Typ. Flux (lm) @55°C	Forward Current (mA)	Typ. Voltage (V) @55°C	Typ. Power (W) @55°C	Efficacy (lm/W) @55°C
LED	Amount (pcs)	Type	Dim.1 (mm)	Dim.2 (mm)	Thick (mm)								
5050	16	MCPCB	223	50	1.6	4000	70	8S2P	5710	700	46.6	32.6	175

## Horticulture Application

- High power and high lumen output for horticulture application
- 450nm, 660nm, 730nm LED available for spectrum requirement
- Excellent PPD/W delivering >2.7 umol/J



Color LED		PCB				PPF(umol / J)	Typ. Power(W)
LED	Amount (pcs)	Type	Dim.1 (mm)	Dim.2 (mm)	Thick (mm)		
660nm*160 450nm*20	180	MCPCB	400	202	1.6	2.8	500

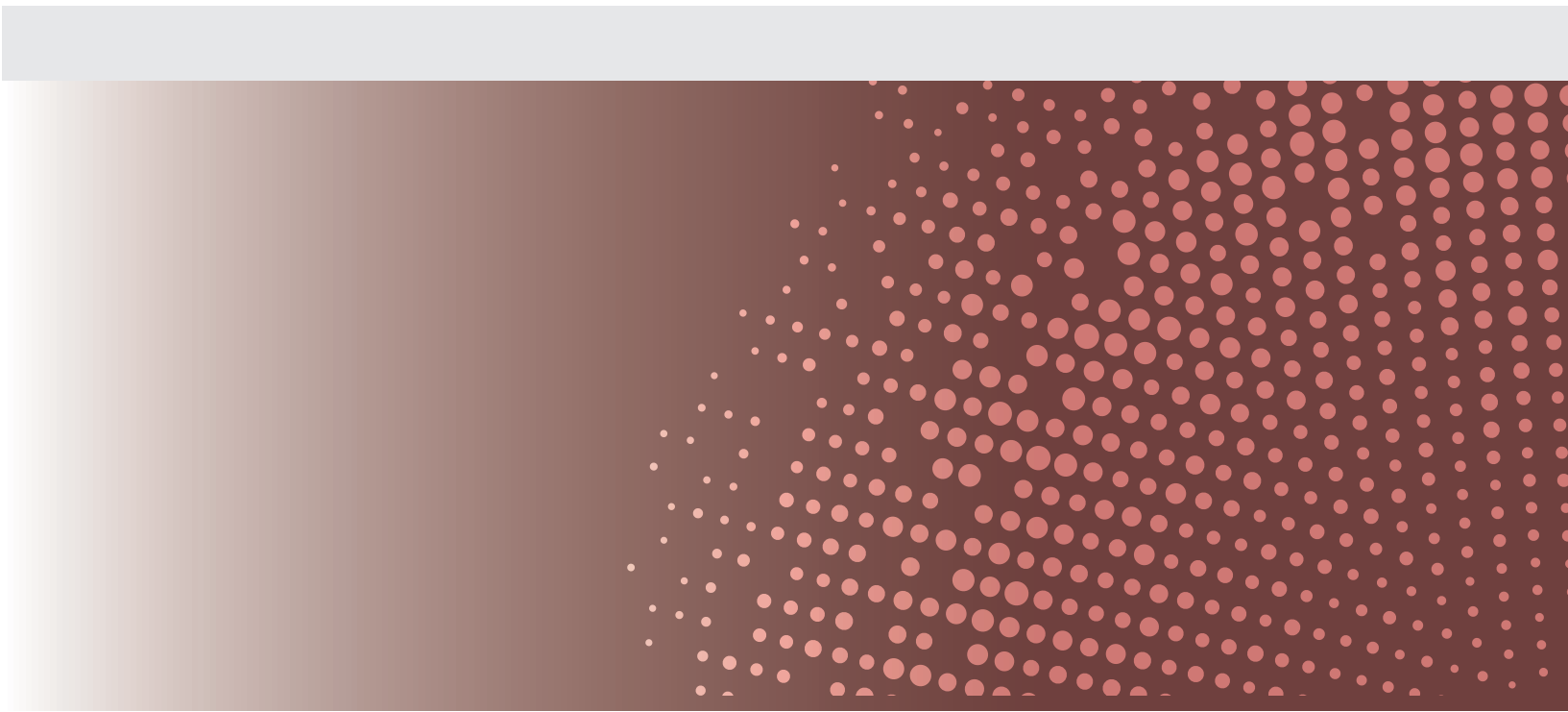
## Signage Light Box Application

- Customized solution on different length, CCT / CRI, waterproof and cuttable option
- Lens solution for different light box thicknesses
- Fixed voltage 12V or 24V



Application	LED		PCB				CCT(K)	CRI	Angle	Forward Current(mA)	Flux (lm)	Working Voltage(V)	Efficacy (lm/W)
	LED	Amount (pcs)	Type	Dim.1 (mm)	Dim.2 (mm)	Thick (mm)							
2-4cm Light Box	2835	12	MCPCB	960	18	1.0	10000 - 12000	70	<180 °	1200	1340	DC12V	93
>4cm Light Box	3030	12	MCPCB	960	17	1.0	10000 - 12000	70	<170 °	1200	1340	DC12V	93
6-10cm Light Box (IP65 Waterproof)	3030	12	MCPCB	960	14.5	1.0	10000 - 12000	70	<170 °	1200	1340	DC12V	93

# Patents



# Patents

Region	Patent Number	Title
US	11,670,749B2	LIGHT EMITTING DIODE PACKAGING STRUCTURE AND METHOD FOR MANUFACTURING THE SAME
	11,656,497B2	LIGHT EMITTING MODULE AND OPTICAL LENS THEREOF
	11,538,970B2	LIGHT EMITTING DIODE DEVICE
	11,306,894B2	OPTICAL ELEMENT AND LIGHT EMITTING DEVICE
	11,296,269B2	LIGHT EMITTING DIODE PACKAGING STRUCTURE AND METHOD FOR MANUFACTURING THE SAME
	10,763,402B2	LIGHT-EMITTING DIODE PACKAGE
	10,756,706B2	PWM FILTER CIRCUIT AND RELATED CONTROL SYSTEM
	10,677,423B2	LIGHT EMITTING DEVICE AND BACKLIGHT MODULE
	10,573,784B2	MICRO LIGHT EMITTING DIODE STRUCTURE AND METHOD FOR MANUFACTURING MICRO LIGHT EMITTING DIODE
	9,812,432B2	LED CHIP PACKAGE
	9,659,914B2	LIGHT-EMITTING DIODE CHIP PACKAGE
	9,557,959B2	HEAT SINK FOR ELECTRICAL ELEMENTS AND LIGHT-EMITTING DEVICE CONTAINING THEREOF
	9,320,092B2	ILLUMINATION DEVICE AND LED DIMMING CIRCUIT THEREOF
	9,089,022B2	LIGHT ADJUSTING DEVICE WITH SWITCHING ELEMENT
	9,055,626B2	DIMMER CIRCUIT AND LIGHTING APPARATUS USING THE SAME
	9,030,128B2	LED DRIVE CIRCUIT
	8,981,669B2	LAMPS AND CONTROL CIRCUIT
	8,952,398B2	LED LIGHTING MODULE
	8,847,505B2	ILLUMINATION CONTROL CIRCUIT AND ILLUMINATION CONTROL METHOD
	8,716,951B2	ILLUMINATION CONTROLLING CIRCUIT AND ILLUMINATION SYSTEM
	8,704,452B2	ILLUMINATION DEVICE WITH ADJUSTABLE LUMINANCE AND LUMINANCE ADJUSTMENT METHOD THEREOF
	D782,425S	LEAD FRAME FOR LIGHT-EMITTING DIODE
	D719,111S	LIGHT EMITTING DIODE LEAD-FRAME
	D718,726S	LIGHT EMITTING DIODE PACKAGE
	D712,851S	LIGHT EMITTING DIODE PACKAGE
	D709,042S	LIGHT EMITTING DIODE PACKAGE
	D709,041S	LIGHT EMITTING DIODE PACKAGE
	D709,040S	LIGHT EMITTING DIODE PACKAGE
	D697,877S	LIGHT EMITTING DIODE PACKAGE
	D697,876S	LIGHT EMITTING DIODE LEAD-FRAME
	D693,780S	LIGHT EMITTING DIODE PACKAGE
	D678,225S	LIGHT EMITTING DIODE PACKAGE
	D668,624S	LIGHT EMITTING DIODE PACKAGE
	D664,505S	LIGHT EMITTING DIODE PACKAGE
	D656,108S	LIGHT EMITTING DIODE LEAD-FRAME
	D638,378S	LEAD FRAME
	D634,286S	LEAD FRAME
	D634,285S	LEAD FRAME
	D634,284S	LEAD FRAME

OCT 2023

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