

LUXEON 3535 Mid-Power Family

Office and general illumination solutions



LUXEON 3535 mid-power family brings industry-leading performance and reliability to mid-power LEDs for the lighting market. Offered in the full CCT range from 2700K-6500K and with 70, 80 and 90 CRI, LUXEON 3535 and LUXEON 3535L enables designs for distributed light sources that meet the most demanding color quality requirements. The LUXEON 3535 family is engineered for both consumer and professional applications and incorporates the same Philips Lumileds technology that has made our high-power products legendary in the market.

Features

- High efficacy— up to 165 lm/W at 60 mA
- Full range of CCTs—2700K to 6500K
- Compact 3535 form factor
- Min 70 and 80 guaranteed and 90 CRI typical
- Philips Lumileds technology
- Supports ENERGY STAR® lumen maintenance certification requirements

Benefits

- Enables cost effective and highly efficient system
- Ability to achieve indoor color quality requirements
- High lumen density for unique designs

Key Applications

- Lamps
- Indoor Area Lighting
- Downlight
- Outdoor
- Architecture
- High bay & Low bay

LUXEON 3535L Product Characteristics at 100 mA and 25°C

Nominal CCT	Part Number	Color Rendering Index		Typical R9	Luminous Flux (lm)		Efficacy Typ. lm/W	Forward Voltage Typ.
		Minimum	Typical		Minimum	Typical		
2700K	MXA8-PW27-0000	80	82	R9>0	28	36	118	3.05
2700K	MXA9-PW27-0000	85	92	R9>50	26	30	98	3.05
3000K	MXA8-PW30-0000	80	82	R9>0	32	37	121	3.05
3500K	MXA8-PW35-0000	80	82	R9>0	32	37	121	3.05
4000K	MXA7-PW40-0000	70	72	NA	36	42	137	3.05
4000K	MXA8-PW40-0000	80	82	R9>0	32	39	128	3.05
5000K	MXA8-PW50-0000	80	82	R9>0	32	39	128	3.05
5700K	MXA8-PW57-0000	80	82	R9>0	32	39	128	3.05
6500K	MXA8-PW65-0000	80	82	R9>0	32	39	128	3.05

LUXEON 3535 2D Product Characteristics

Nominal CCT	Part Number	Color Rendering Index		Typical R9	Luminous Flux (lm)		Efficacy Typ. lm/W	Forward Voltage Typ.
		Minimum	Typical		Minimum	Typical		
2700K	MXC8-PW27	80	82	>0	55	65	107	6.1
3000K	MXC8-PW30	80	82	>0	55	66	108	6.1
3500K	MXC8-PW35	80	82	>0	55	66	108	6.1
4000K	MXC8-PW40	80	82	>0	60	70	115	6.1
5000K	MXC8-PW50	80	82	>0	60	70	115	6.1
5700K	MXC8-PW57	80	82	>0	60	70	115	6.1
6500K	MXC8-PW65	80	82	>0	60	70	115	6.1

LUXEON 3535 Product Characteristics at 100 mA and 25°C

Nominal CCT (K)	Part Number	Junction Temp. °C	Color Rendering Index Ra (min)	Luminous Flux (lm)		Efficacy Typ. lm/W	Forward Voltage Typ.
				Minimum	Typical		
2700K	MXM8-PW27	25	80	28	32	103	3.1
3000K	MXM8-PW30	25	80	30	33	107	3.1
3500K	MXM8-PW35	25	80	30	34	110	3.1
4000K	MXM8-PW40	25	80	30	36	116	3.1
5000K	MXM8-PW50	25	80	30	36	116	3.1
5700K	MXM8-PW57	25	80	30	36	116	3.1
6500K	MXM8-PW65	25	80	30	36	116	3.1
4000K	MXM7-PW40-0000	25	70	32	39	116	3.1
5000K	MXM7-PW50-0000	25	70	32	39	116	3.1
5700K	MXM7-PW57-0000	25	70	32	39	116	3.1
6500K	MXM7-PW65-0000	25	70	32	39	116	3.1

V_f Bins for LUXEON 3535 and LUXEON 3535L

Bin Code	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
T	2.8	2.9
V	2.9	3.0
W	3.0	3.1
X	3.1	3.2
Y	3.2	3.3
Z	3.3	3.4

Flux Bins for LUXEON 3535 and LUXEON 3535L

Bin Code	Min Photometric Flux (lm)	Max Photometric Flux (lm)
J	24	28
K	28	32
L	32	36
M	36	40
P	40	44
Q	44	48

V_f Bins for LUXEON 3535 2D

	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
F	5.6	5.8
G	5.8	6
H	6	6.2
J	6.2	6.4
K	6.4	6.6
L	6.6	6.8

Flux Bins for LUXEON 3535 2D

	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
A	55	60
B	60	65
C	65	70
D	70	75
E	75	80

Tested and binned at 25°C, I_f = 100 mA. Tester tolerance ±7.5%.

Tested and binned at 25°C, I_f = 100 mA. Tester tolerance ±0.10V.



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