



Product Brief

LUXEON Z

Color and White LED Portfolio



With never before possible flexibility and lumen density in color and white LEDs, the LUXEON® Z will transform your luminaire and light engine designs. LUXEON Z offers a full portfolio of saturated colors from 440-670nm and white selections to enliven stage performances and brighten urban nightscapes. The small size of LUXEON Z enables high punch, tight beam control and the flexibility of superior color mixing.

Features:

- 2.2 mm² micro footprint
- Un-encapsulated
- Tested and Binned at 500 mA
- Up to 1A max drive current
- Up to 150°C max T_j

Benefits:

- Industry's leading Lm/mm²
- Highest degree of design flexibility
- Superior color mixing and beam control through choice of optics
- Enables customizable light sources: linear, rectangular, circular

Key Applications:

- Architectural lighting
- Studio/Entertainment lighting
- Emergency Vehicle lighting
- Remote phosphor based Retrofits and Down lighters
- Specialty lighting

Product Selection Guide

Color	Part Number	Min Flux (lm or mW)	Typ Flux (lm or mW) Performance @ 500 mA/25°C	Typ Vf (V)	Typ Efficacy (lm/W or WPE)	Achievable (lm/mm ² or mW/mm ²)
Green	LXZI-PM01-0104	104	106	3.00	71	48
	LXZI-PM01-0096	96	99	3.00	66	45
	LXZI-PM01-0088	88	92	3.00	61	42
	LXZI-PM01-0080	80	86	3.00	57	39
	LXZI-PM01-0072	72	77	3.00	51	35
Cyan	LXZI-PE01-0072	72	73	3.00	49	33
	LXZI-PE01-0064	64	68	3.00	45	31
	LXZI-PE01-0056	56	61	3.00	41	28
	LXZI-PE01-0048	48	54	3.00	36	25
Blue	LXZI-PB01-0048	48	50	3.00	33	23
	LXZI-PB01-0040	40	44	3.00	29	20
	LXZI-PB01-0032	32	38	3.00	25	17
	LXZI-PB01-0024	24	31	3.00	21	14
Royal Blue	LXZI-PR01-0600	600	620	3.00	41%	282
	LXZI-PR01-0550	550	580	3.00	39%	264
	LXZI-PR01-0500	500	540	3.00	36%	245
Deep Red	LXZI-PA01-0350	350	360	2.15	29%	164
	LXZI-PA01-0300	300	330	2.15	26%	150
	LXZI-PA01-0250	250	280	2.15	22%	127
Red	LXZI-PD01-0056	56	57	2.15	53	26
	LXZI-PD01-0048	48	53	2.15	49	24
	LXZI-PD01-0040	40	45	2.15	42	20
Red-Orange	LXZI-PH01-0072	72	74	2.15	69	34
	LXZI-PH01-0064	64	67	2.15	62	30
	LXZI-PH01-0056	56	61	2.15	57	28
Amber	LXZI-PL01-0064	64	66	2.15	61	30
	LXZI-PL01-0056	56	60	2.15	56	27
	LXZI-PL01-0048	48	54	2.15	50	25

Characteristics for LUXEON Z White LEDs

White	Part Number	Min Flux (lm)	Typ Flux (lm) Performance @ 500 mA/25°C	Typ Vf (V)	Typ Efficacy (lm/W)	Achievable lm/mm ²
4000K/	LXZI-4070-0144	144	150	2.90	103	67
70CRI	LXZI-4070-0134	134	138	2.90	95	63
	LXZI-4070-0124	124	128	2.90	88	58

For complete product specifications and information please refer to the product technical datasheet, LUXEON Z DS105, available on the Philips Lumileds website.



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