



## LumiLED Luxeon LEDs Cross reference Chart

### General notes

1. Just like the Luxeon Rebel, OSRAM Dragon LEDs are not mechanically equivalent to earlier Luxeon products and a PCB layout change *will* be required. However, unlike the Luxeon Rebel, for prototyping and testing it is often possible to place OSRAM Dragon LEDs on the original Luxeon PCB footprint if the Dragon LED is rotated slightly.
2. Where secondary optics are utilised, in the majority of cases a change of lens holder will be all that's required to achieve the same beam pattern. In some cases a more compact lens that attaches directly to the Golden Dragon package can be utilised.
3. Electrically OSRAM and Luxeon products are similar, however the operational forward voltage of OSRAM LEDs is one of the lowest on the market which in turn produces power savings and efficiency improvements. This advantage may not be immediately apparent but can be very important for the application.
4. The OSRAM alternatives offered have been chosen to match as closely as possible the original Luxeon luminous flux performance. In many cases, *higher performance alternatives are readily available* giving the user an opportunity to upgrade to 'modern' LED performance levels.
5. All OSRAM equivalents quoted are in full production and available subject to published lead times.
6. Attention should be paid to colour grouping where relevant. OSRAM have an excellent colour grouping system and will be able provide a level of grouping that is the same or better than the user has been accustomed to.

If you have any questions or require assistance establishing a specific cross reference, please contact Intelligent LED solutions on 01635 294606 or email us at [info@i-led.co.uk](mailto:info@i-led.co.uk)

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group <sup>2</sup>	OSRAM part No.
Luxeon I	White	<b>LXHL-PW01</b>	Q	LW W5SM-JYKY <sup>1</sup>
			R	LW W5SM-JYKY <sup>1</sup>
			S	LW W5SM-JYKY <sup>1</sup>
			T	LW W5SM-JYKY
	Royal Blue	<b>LXHL-PR03</b>	L	LD W5SM-1S2T <sup>1</sup>
			M	LD W5AM-3T3U <sup>1</sup>
			N	LD W5AM-3T3U <sup>1</sup>
			P	LD W5AM-3T3U
	Blue	<b>LXHL-PB01</b>	K	LB W5SM-EYGX
			L	LB W5SM-FYGY <sup>1</sup>
			M	LB W5SM-FYGY
			N	LB W5AM-GXHX <sup>1</sup>
			P	LB W5AM-GZHX
	Cyan	<b>LXHL-PE01</b>	Q	LV W5AM-JYKY <sup>1</sup>
			R	LV W5AM-JYKY <sup>1</sup>
			S	LV W5AM-JYKY
	Green	<b>LXHL-PM01</b>	Q	LT W5SM-HYJZ <sup>1</sup>
			R	LT W5SM-HYJZ <sup>1</sup>
			S	LT W5AM-JYKZ
			T	LT W5AM-KXKY
	Yellow	<b>LXHL-PL01</b>	P	LY W5AM-HYJY <sup>1</sup>
			Q	LY W5AM-HYJY <sup>1</sup>
			R	LY W5AM-HZJY
			S	LY W5AM-JXJY
	Red-Orange	<b>LXHL-PH01</b>	R	LA W5SM-HZJZ
			S	LA W5AM-JYJZ
			T	LA W5AM-JZKX
	Red	<b>LXHL-PD01</b>	P	LR W5SM-HYJY <sup>1</sup>
			Q	LR W5SM-HYJY <sup>1</sup>
			R	LR W5SM-HYJY
			S	LR W5AM-JXJY

Notes: 1 - Exceeds LumiLEDs flux specification

2 - In the case of Royal Blue - Radiometric Power in mW

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group <sup>2</sup>	OSRAM part No.
Luxeon III	White	<b>LXHL-PW09</b>	S	LW W5SM-JYKY <sup>1</sup>
			T	LW W5SM-JYKY <sup>1</sup>
			U	LW W5SM-JYKY <sup>1</sup>
			V	LW W5AM-KXKY <sup>1</sup>
	Royal Blue	<b>LXHL-PR03</b>	N	LD W5SM-1S2T <sup>1</sup>
			P	LD W5AM-3T3U <sup>1</sup>
			Q	LD W5AM-3T3U <sup>1</sup>
			R	LD W5AM-3T3U
	Blue	<b>LXHL-PB09</b>	M	LB W5SM-EYGX
			N	LB W5SM-FYGY <sup>1</sup>
			P	LB W5SM-FYGY
			Q	LB W5AM-GXHX <sup>1</sup>
			R	LB W5AM-GZHX
	Cyan	<b>LXHL-PE09</b>	S	LV W5AM-JYKY <sup>1</sup>
			T	LV W5AM-JYKY <sup>1</sup>
			U	LV W5AM-JYKY
	Green	<b>LXHL-PM09</b>	S	LT W5SM-HYJZ <sup>1</sup>
			T	LT W5SM-JXJZ <sup>1</sup>
			U	LT W5AM-JYKZ <sup>1</sup>
			V	LT W5AM-KXKY <sup>1</sup>
	Yellow	<b>LXHL-PL09</b>	D	LY W5AM-JXJY <sup>3</sup>
			E	LY W5AM-JXJY <sup>3,4</sup>
			F	LY W5AM-JXJY <sup>3,4</sup>
			H	LY W5AM-JXJY <sup>3,4</sup>
	Red-Orange	<b>LXHL-PH09</b>	F	LA W5AM-JZKX <sup>3,4</sup>
			G	LA W5AM-JZKX <sup>3,4</sup>
			H	LA W5AM-JZKX <sup>3,4</sup>
	Red	<b>LXHL-PD09</b>	E	LR W5AM-JXJY <sup>3,4</sup>
			F	LR W5AM-JXJY <sup>3,4</sup>
			G	LR W5AM-JXJY <sup>3,4</sup>
			H	LR W5AM-JXJY <sup>3,4</sup>

Notes: 1 - Exceeds LumiLEDs flux specification at 350, 700 and 1000mA

2 - In the case of Royal Blue - Radiometric Power in mW

3 - Maximum drive current 1000mA

4 - Performance falls short of Luxeon III operated at 1400mA

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group	OSRAM part No. <sup>2, 4</sup>
Luxeon K2 Whites	Cool White	<b>LXK2-PW12</b>	R	LW W5SM-JYKY <sup>1</sup>
			S	LW W5SM-JYKY
		<b>LXK2-PW14</b>	T	LW W5SM-JYKY <sup>1</sup>
			U	LW W5SM-JYKY <sup>1</sup>
		<b>LXK2-PWC4</b>	V	LW W5AM-JZKX <sup>1</sup>
			0160	LUW W5AM-KYLX <sup>3</sup>
			0180	LUW W5AM-KZLY <sup>1,3</sup>
			0200	LUW W5AM-KXLY <sup>3</sup>
			0220	LUW W5AM-LXLY <sup>1,3</sup>
		Neutral White	<b>LXK2-PWN2</b>	Q
	R			LCW W5SM-JXJZ-4L8N <sup>1</sup>
	<b>LXK2-PWN4</b>		S	LCW W5SM-JYJZ-4L8N
			T	LCW W5SM-JXJZ-4L8N <sup>1</sup>
			U	LCW W5SM-JYJZ-4L8N <sup>1</sup>
			V	LCW W5AM-JZKY-4L8N <sup>1</sup>
			0140	LCW W5AM-KXKZ-4L8N <sup>3</sup>
			0160	LCW W5AM-KYKZ-4L8N <sup>3</sup>
			0180	LCW W5AM-KYKZ-4L8N <sup>3</sup>
	Warm White		<b>LXK2-PWW2</b>	Q
		R		LCW W5SM-HZJX-4R9T
		<b>LXK2-PWW4</b>	T	LCW W5AM-KXKY-4R9T <sup>1</sup>
			U	LCW W5AM-KYKZ-5R8T
			0120	LCW W5AM-JZKY-4R9T <sup>3</sup>
			0140	LCW W5AM-KXKY-4R9T <sup>3</sup>
			0160	LCW W5AM-KYKZ-5R8T <sup>3</sup>

Notes: 1 - Exceeds LumiLEDs flux specification at 350, 700 and 1000mA

2 - Maximum drive current 1000mA

3 - Performance falls short of Luxeon K2 operated above 1000mA

4 - Refer to colour group comparison to ensure correct colour groups are offered

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group <sup>2</sup>	OSRAM part No. <sup>3</sup>
Luxeon K2 Colours	Royal Blue	LXK2-PR12	L	LD W5SM-1S2T <sup>1</sup>
			M	LD W5SM-4S4T <sup>1</sup>
		LXK2-PR14	Q	LD W5SM-1S2T <sup>1</sup>
			R	LD W5SM-4S4T <sup>1</sup>
	Blue	LXK2-PB12	K	LB W5SM-EYGX
			L	LB W5SM-FYGY <sup>1</sup>
			M	LB W5SM-FYGY
		LXK2-PB14	N	LB W5SM-FYGY <sup>1</sup>
			P	LB W5SM-FYGY <sup>1</sup>
			Q	LB W5AM-GYHY <sup>1</sup>
	Cyan	LXK2-PE12	Q	LV W5AM-JYKY <sup>1</sup>
			R	LV W5AM-JYKY <sup>1</sup>
			S	LV W5AM-JYKY
		LXK2-PE14	T	LV W5AM-JYKY <sup>1</sup>
			U	LV W5AM-JYKY
	Green	LXK2-PM12	R	LT W5SM-JXJZ <sup>1</sup>
			S	LT W5AM-JYKZ
		LXK2-PM14	U	LT W5SM-JXJZ
	Yellow	LXK2-PL12	P	LY W5SM-HXJX <sup>4</sup>
			Q	LY W5AM-HYJY <sup>4</sup>
			R	LY W5AM-JXJY <sup>4</sup>
	Red-Orange	LXK2-PH12	R	LA W5AM-JXKX <sup>4</sup>
			S	LA W5AM-JZKX <sup>4</sup>
	Red	LXK2-PD12	Q	LR W5SM-HYJY <sup>4</sup>
			R	LR W5AM-JXJY <sup>4</sup>

Notes: 1 - Exceeds LumiLEDs flux specification at 350, 700 and 1000mA

2 - In the case of Royal Blue - Radiometric Power in mW

3 - Maximum drive current 1000mA

4 - Performance falls short of Luxeon K2 operated at 1400mA

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group <sup>2</sup>	OSRAM part No.
Rebel Colours	Royal Blue	<b>LXML-PR01</b>	0175	LD W5SM-1S2T <sup>1</sup>
			0225	LD W5SM-4S4T <sup>1</sup>
			0275	LD W5AM-3T3U <sup>1</sup>
			0350	LD W5AM 3T3U
			0425	LD W5AM-4T4U
	Blue	<b>LXML-PB01</b>	0008	LB W5SM-EYGX
			0010	LB W5SM-FYGY <sup>1</sup>
			0013	LB W5SM-FYGY
			0018	LB W5AM-GYHX <sup>1</sup>
			0023	LB W5SM-GZHX
	Cyan	<b>LXML-PE01</b>	0030	LV W5AM-JYKY <sup>1</sup>
			0040	LV W5AM-JYKY <sup>1</sup>
			0060	LV W5AM-JZKY
			0070	LV W5AM-KXKY
	Green	<b>LXML-PM01</b>	0040	LT W5SM-JXJZ <sup>1</sup>
			0050	LT W5SM-JYKY
			0070	LT W5AM-KXKY
			0080	LT W5AM-KYKZ
	Yellow	<b>LXML-PL01</b>	0023	LY W5SM-GZJX <sup>3</sup>
			0030	LY W5AM-HYJY <sup>3</sup>
	Red-Orange	<b>LXML-PH01</b>	0040	LA W5SM-HZJZ <sup>3</sup>
			0050	LA W5AM-JZKX <sup>1,3</sup>
	Red	<b>LXML-PD01</b>	0030	LR W5AM-HZJZ <sup>1,3</sup>
			0040	LR W5AM-JXJY <sup>3</sup>

Notes: 1 - Exceeds LumiLEDs flux specification

2 - In the case of Royal Blue - Radiometric Power in mW

3 - Maximum drive current 1000mA vs 700mA Rebel maximum

## LumiLEDs OSRAM cross reference guide

Type	Colour	LumiLEDs Part No.	Flux group	OSRAM part No. <sup>2</sup>
Rebel Whites	Cool White	<b>LXML-PWC1</b>	0040	LW W5SM-JYKY <sup>1</sup>
			0050	LW W5SM-JYKY
			0080	LUW W5AM-KYLX
			0090	LUW W5AM-KZLY <sup>1</sup>
			0100	LUW W5AM-KZLY
	Neutral White	<b>LXML-PWN1</b>	0040	LCW W5SM-JXJZ-4L8N <sup>1</sup>
			0050	LCW W5SM-JYJZ-4L8N
			0080	LCW W5AM-KYKZ-4L8N
	Warm White	<b>LXML-PWW1</b>	0040	LCW W5SM-JXJY-4R9T <sup>1</sup>
			0050	LCW W5AM-JYKY-4R9T
			0060	LCW W5AM-JZKY-4R9T

Notes: 1 - Exceeds LumiLEDs flux specification at 350, 700 and 1000mA

2 - Refer to colour group comparison to ensure correct colour groups are offered