JL-241 / 242 / 243

Smart Dimming Photocontrol NEMA Twist-Lock

Datasheet ref. EN 2412V8 full-range edition Issue date 12 November 2026 Type Engineering data

Product type	Smart dimming photocontrol, NEMA twist-lock, for dimmable LED street lighting
Interface standard	ANSI C136.41 twist-lock; datasheet states listing by UL to ANSI/UL773
Voltage suffix C	120–277 VAC rated, applicable range 105–305 VAC
Voltage suffix E	347 VAC rated, applicable range 105–382 VAC
Voltage suffix F	480 VAC rated, applicable range 105–528 VAC
Rated frequency	50/60 Hz
Dimming output	0–10 VDC
Spectral acquisition	350–1100 nm, peak wavelength 590 nm
Rated loading, suffix C	1000 W tungsten, 1800 VA ballast, 8 A at 120 VAC / 5 A at 208–277 VAC electronic ballast
Rated loading, suffix E	1800 W tungsten, 1800 VA ballast, 5 A at 208–277 VAC electronic ballast
Rated loading, suffix F	1800 W tungsten, 1800 VA ballast
Operating levels	Turn-on below 100 lx, turn-off above 100 lx, adjustable per client request
Ambient temperature	−40 °C to +70 °C
Relative humidity	96%
Fail mode	Fail-On (ordering digit 5) or Fail-Off (ordering digit 4)
Housing	PC+PC shell; sandwich cover optional for extended life
Surge protection	640 J / 40 kA, MYL1-40K511 for C and E, MYL1-40K911 for F
Ingress protection	IP65 or IP67, set by sealing option: IP65 = silicone sealant with TPE gasket, IP67 = full silicone sealant with silicone gasket
Dimming programmes	Constant on/off dimming on all models; midnight dimming on JL-242 and JL-243; LED decay compensation on JL-243 only

Price, MOQ, lead time and OEM drawings: chi-swear.com/c · sales@chiswear.com