

Test Results for LED Neon Flex

Performance

Standard/Reference value/Description

Optical Testing

Photometric test-integrating sphere system	IES LM 79 (lumen, CCT, CRI, XY, SDCM, wave length)
Photometric test-goniophotometer system	IES LM 79(lumen intensity distribution & Lux diagram)
Illuminance efficiency ratio	Product specification sheet
Uniformity of lighting surface (led neon flex light)	Evaluate indirect glare
RGB color mixture uniformity (led neon flex light)	Evaluate the uniformity of color
Lumen maintenance test	IES LM 80
Color-coordinate shift	ANSI C78.377

Electrical Testing

Normal Temperature Test (77°F)	UL1598, IEC60598-1
Normal Temperature Test(104°F)	UL1598, IEC60598-1

Reliability Testing

Lifetime test	IS TM 21
Electrical insulation test	UI2388, IEC60598-1, > 4M Ω
Dielectric voltage withstand test	UI2388, IEC60598-1, > 1.5KV
Waterproof test	IP68/IP67/IP65
Hi-Lo Temperature impact	-68°F - 140°F
Ultraviolet (UV) light exposure	ASTM G 26. Exposure Method 1
Salt spray test	IEC68-2-11
Anti-cracking test (-13°F)	Assess PVC's anti-cracking property under low temp.
Connector pull test	50N

Mechanics Testing

Pull test (Connector, Body)	UI2388
Impact test	IEC 62262, UL2388
Bending fatigue resistance test	UL2388, IEC60598-1