

## DESCRIPTION

The NSL-19M51 is a light dependent resistor with sensitivity in the visible light region. The CdS photoconductive cell is on a TO-18 ceramic and the photocell surface is plastic encapsulated for moisture resistance.

## FEATURES

- Compact design
- 550nm peak response
- Passive resistance
- Output

## RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

## APPLICATIONS

- Industrial

## ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	(TA)= 23°C UNLESS OTHERWISE NOTED
Power Dissipation at 30°C <sup>1</sup>	-	-	250	mW	-
Operation Temperature	-60	to	+75	°C	-
Storage Temperature	-60	to	+75	°C	-
Voltage (peak AC or DC)	-	-	+250	V	-

### NOTES:

1. Derate linearly to 0 at 75°C

**OPTO-ELECTRICAL PARAMETERS**

$T_a = 23^\circ\text{C}$  UNLESS NOTED OTHERWISE

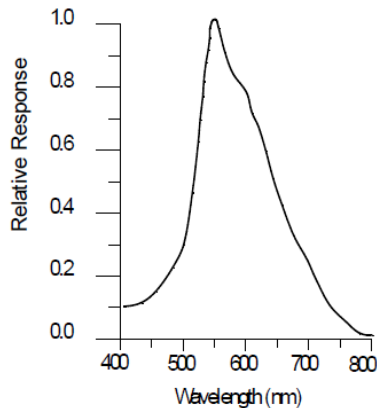
PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Resistance	1 ftc. <sup>2</sup>	5.4	-	12.6	K $\Omega$
Dark Resistance	15 sec after removal of test light.	1.0	-	-	M $\Omega$
Spectral Peak	-	-	550	-	nm

**NOTE:**

- Cells light adapted at 30 to 50 Ftc. for 16 hrs. minimum prior to electrical tests.
- Print "NORPS-12" and date code "YYWW" on housing.

**TYPICAL PERFORMANCE**

**PEAK SPECTRAL RESPONSE**



**TYPICAL RESISTANCE vs. ILLUMINATION CHARACTERISTICS**

