Recommended Operating Conditions

Parameter	Symbol	Min.	Max.	Units	Conditions
Operating Temperature	T_A	-40	85	°C	
Storage Temperature	T_S	-40	85	°C	
Supply Voltage	V_{CC}	2.4	5.5	V	

Electrical & Optical Specifications (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Photo Current (I)	$I_{\_PH1}$	28	40	52	uA	Vcc =3V, Lux = 100 [1]
Photo Current (II)	$I_{\_PH2}$	-	44	-	uA	Vcc =3V, Lux = 100 [2]
Dark Current	$I_{\_DARK}$	-	300	-	nA	Vcc = 3V, Lux = 0
Light Current Ratio	$I_{\_PH2} / I_{\_PH1}$	-	1.1	-	-	
Rise Time	Tr	-	5	-	ms	Rl = 1Kohm, Lux = 100
Fall Time	Tf	-	5	-	ms	R1 = 1Kohm, Lux=100
Peak sensitivity wavelength	λ	-	500	-	nm	
Settling Time pulsed at Vcc	Tset	-	10	-	ms	Vcc pulsed = 0V to 3V; Rload = 2.4K ohms; Lux = 100 [1]
Propagation delay	Td	-	5	-	ms	Rl = 1Kohm, Lux = 100
Storage delay	Ts	-	5	-	ms	R1 = 1Kohm, Lux=100

Note :
1. Fluorescence light is used as light source, however, white LED is substituted in a mass production process
2. Illuminance by CIE standard light source (Incandescent lamp

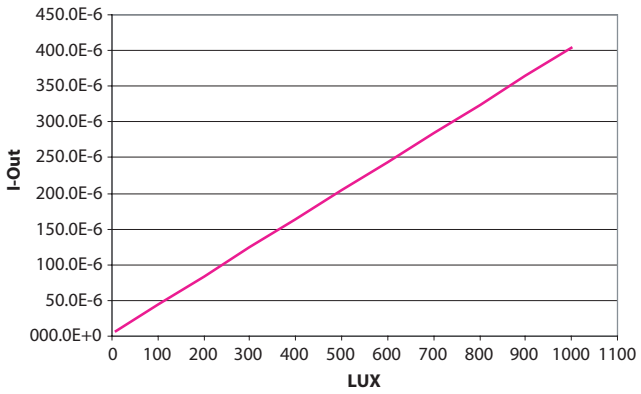

Figure 3. Average Iout Vs Lux (Vcc = 3V, T=25°C, White LED source)

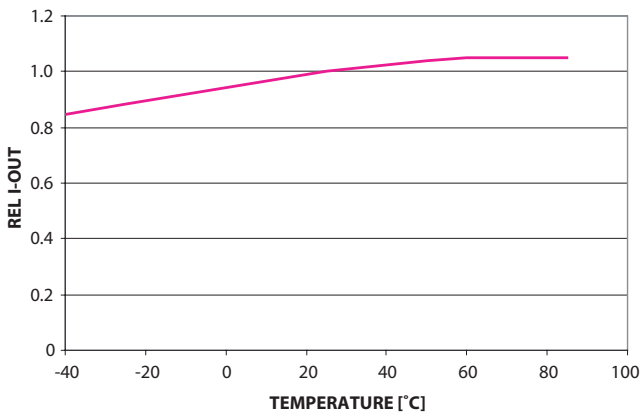

Figure 4. Average relative Iout Vs Temp (Vcc = 3V, T=25°C, 320 Lux)

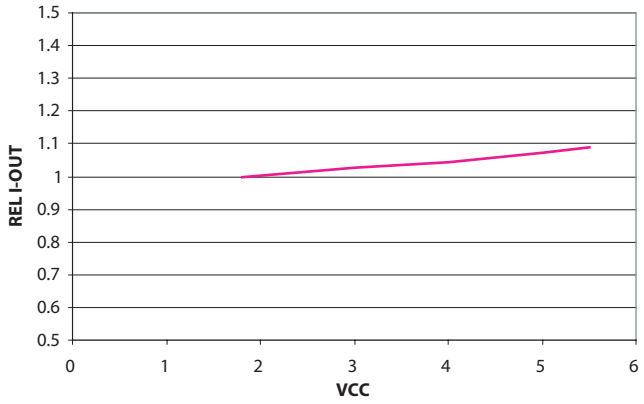

Figure 5. Relative Output Current Vs Vcc (Ta = 25°C, 100Lux)

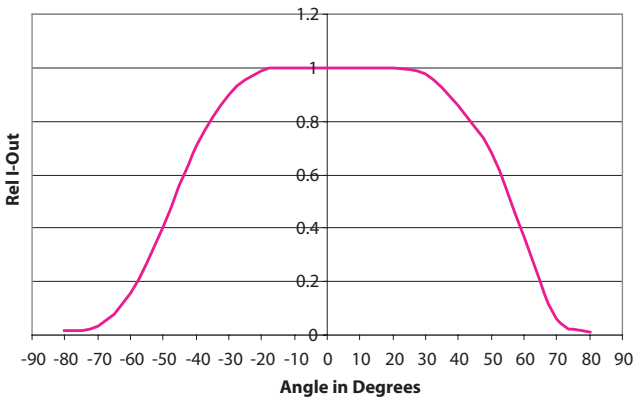

Figure 6. Relative Iout Vs Angle (Vcc = 3V, Ta = 25°C)

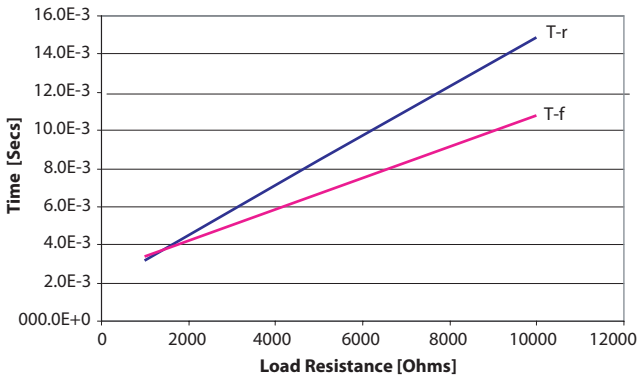

Figure 8. Average Rise Time , Fall Time Vs Load Resistance at Vcc = 3V

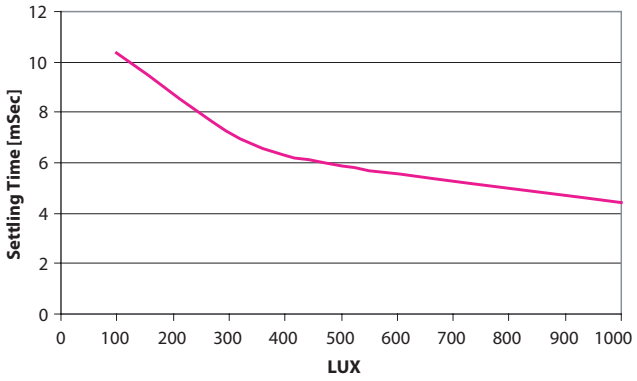

Figure 9. Average Settling Time vs Lux at Vcc=3V

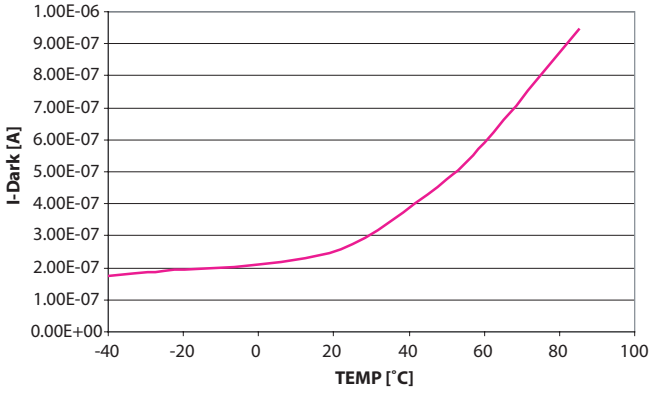

Figure 10. Dark current Vs temperature

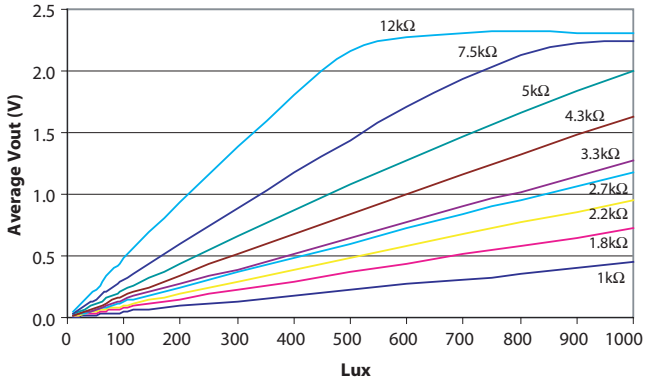

Figure 11. General Luminance vs Typical Output Voltage (Vcc = 3V, T = 25°C, Light Source = White LED)