

### **APPLICATION:**

Due to the increasing LED output, we recommend a maximum duty cycle of 10%. Polarizing film blocks or absorbs about 61% of the energy emitted by LED's and can cause damage to the polarizer. Warranty does not apply to polarizers due to increased LED output.

### **MECHANICAL:**

Thickness: 0.19mm (0.0075")

Direction: Linear

Durability:

Heat Resistance: (115°C x 240h) (105°C x 1000h)

Humidity Resistance: (85°C x 85%RH x 240h) (80°C x 90%RH x 500h)

Heat Shock: (-40°C x 1h) ↔ (85°C x 1h) x 20 cycles

Low Temperature Resistance: (-40°C x 1000h)

Deterioration of Transmittance ( $\Delta Y_s$ ):  $\pm 5$  points from initial value,

Polarizing Efficiency ( $\Delta P_y$ ):  $\pm 2$  points from initial value.

### **OPTICAL:**

Single Average Transmittance:  $39 \pm 2\%$

Polarizing efficiency:  $>99.9\%$

Hue

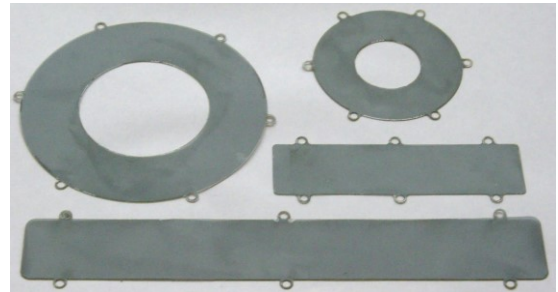
$L^*$  (L)  $68.0 \pm 2.0$  ( $61.6 \pm 2.0$ )

$a^*$  (a)  $-1.4 \pm 2.0$  ( $-1.2 \pm 2.0$ )

$b^*$  (b)  $5.0 \pm 2.0$  ( $4.3 \pm 2.0$ )

Wavelength: 400~700nm

Contrast Ratio: 10,000:1 average



### **PART NUMBER DESIGNATION:**

P-XXXXX to order as separate item

XXXXX-YYY/P to order with the light (Ships as separate line item)

XXXXX = Light Part Number

YYY = Light Color

/P adds polarizer

Example: P-SP3.25 Polarizer for Spot Light, 3.25"

MSP3.25-WHI/P Spot Light, 3.25", White, shipped with polarizer