

PIANO





## INTERNATIONAL REACH

Founded in 1907 in Belgium, Schröder designs, develops and manufactures high quality outdoor lighting equipment for architectural, tunnel, transit, roadway and floodlighting applications. Today, the Schröder Group employs 2500 people in more than 44 companies from 38 countries, worldwide. A key element of the Group's strategy is local as well as worldwide product development to serve the needs of our customers. You can be assured products specified for any Schröder market will conform to the local codes and technical requirements.

## THE RIGHT LIGHT

Schröder luminaires deliver "The Right Light" for each application. The use of the most advanced light sources (including LEDs and the Philips® CosmoPolis® system), optimized in innovative high performance optical systems, delivers the right amount of light while using less energy. High quality materials, optimized thermal design, and patented Sealsafe® technologies make it possible to maintain photometric performance throughout the entire life of the luminaire. Schröder also offers Owlet™, a wireless control system for monitoring, controlling, metering and managing street and area lighting.

## LOCALLY MADE IN THE USA

In order to better serve the needs of the North American market, Schröder operates a modern manufacturing facility in Addison (outside Chicago), Illinois. Local production allows us to be responsive to customer construction schedules, while still offering modifications, custom colors and quick shipment programs for many products. Our engineering and production support team ensures everything we produce meets Schröder's world class standards for quality and performance.



# Schröder

## THE PERFECT INSTRUMENT

Designed by Michel Tortel, Piano blends engineering excellence with the latest LED technology, resulting in energy efficiency and precise lighting control.

Piano's die cast aluminum housing is designed to optimize the cooling of the LEDs and electronic driver. The optical system is completely sealed with an IP66 rated compartment. The glass is extra clear to maximize the lighting output. Compare Piano to other LED fixtures that have exposed LED lenses which are subject to lumen depreciation due to dust and atmospheric dirt. Piano guarantees maintenance free, high performance lighting for many years.

The Schréder logo is positioned at the bottom center of the page, overlaid on a black metal fence. It consists of the brand name 'Schréder' in a white, sans-serif font.

PIANO



NEPT PALACE

NOW  
OPEN  
SUNDAY  
DINNER

SHIP INN

Schröder

PN01-T2 A-113-1-40 P113-20



# TECHNICAL FEATURES

## THERMIX® THERMAL MANAGEMENT

The exterior surface design combined with direct thermal coupling of the LEDs maximizes the luminaire's thermal exchange properties. The electronic control gear is contained in a thermally isolated compartment to extend component life. The Thermix® design maintains 70% of the initial luminous flux for a minimum of 100,000 hours.

## LEDSAFE®

LEDSafe® completely seals the optical compartment to an IP66 level similar to the Schröder Sealsafe® system which has proven effective for over 20 years.

## MULTIPLE LIGHT DISTRIBUTIONS

PIANO 1 and PIANO 2 are available in Type 2, 3, and 4 distributions.

## FUTUREPROOF

PIANO luminaires are designed to meet our FutureProof concept. Both the photometric engine and the electrical power supply can be replaced on-site to take advantage of any future technological developments.

## EXTRA CLEAR GLASS

PIANO utilizes extra clear glass to optimize the luminous output of the LEDs.



Model	PIANO 1	PIANO 2
Dimensions		
Height	3.4 in/87mm	3.6 in/92mm
Length	26.8 in/680mm	39.1 in/992mm
Width	10.9 in/277mm	11.7 in/297mm
EPA / CxS	.61 sq ft/.06m <sup>2</sup>	.72 sq ft/.07m <sup>2</sup>
Weight	19 lbs/8.6kg	27.6 lbs/12.5kg
IP rating	66	66

# OPTICAL AND PHOTOMETRIC PERFORMANCE



PIANO utilizes the LensoFlex<sup>®</sup> photometric engine for a wide range of photometric distributions from a single module.

## Performance Features of the PIANO

- ThermiX<sup>®</sup> thermal management for optimum lighting performance
- The electronic power supply is over 90% efficient with surge protection
- Maintains 70% of the lumen output for a minimum of 100,000 hours

Precision engineered molded lenses efficiently redirect LED lumen output.



Model	PIANO 1	PIANO 2
Light Output in Lumens	5,405	10,810
Input Wattage	63	126
Lumens per Watt (Efficacy)	86	86
Color Rendering Index (CRI)	69	69
Correlated Color Temperature (CCT)	4200°K	4200°K
LEDs		
	56	112

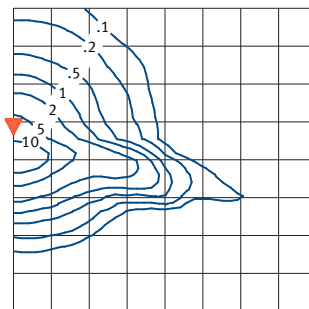
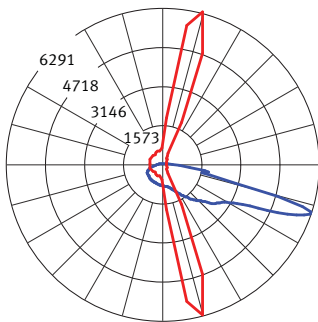
L70 = 100,000h @ 350 mA Ta 35°C

\* Warm white and cool white color temperatures are also available. Please consult factory.

## PNO1 T2 56 LEDs      FLAT LENS

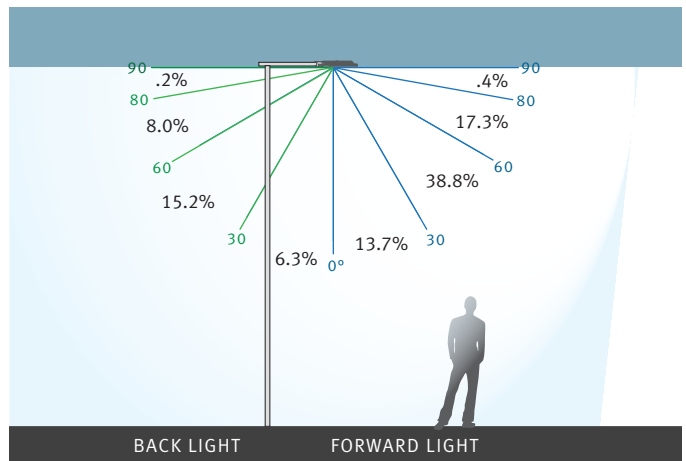
Max Candela 6291 at:  
Horizontal angle = 75°  
Vertical angle = 71°

Mounting height = 10 feet  
Scale is one square = 10 feet/3.1M  
Lumens = 5,405



## PNO1 T2

- LCS values shown below
- BUG Rating: B1-U1-G1



ORDERING EXAMPLE

**PNO2-T3**      **RAL 9011-S**      **A112-1-65**      -

**1**                      **2**                      **3**                      **4**

LIGHT DISTRIBUTION	
<b>PNO1-T2</b>	Piano 1 with IES Type 2 optics 56 Neutral white LEDs
<b>PNO1-T3</b>	Piano 1 with IES Type 3 optics 56 Neutral white LEDs
<b>PNO1-T4</b>	Piano 1 with IES Type 4 optics 56 Neutral white LEDs
<b>PNO2-T2</b>	Piano 2 with IES Type 2 optics 112 Neutral white LEDs
<b>PNO2-T3</b>	Piano 2 with IES Type 3 optics 112 Neutral white LEDs
<b>PNO2-T4</b>	Piano 2 with IES Type 4 optics 112 Neutral white LEDs

\* Dimmable driver available, consult factory.

COLOR	
<b>RAL 9011-S</b>	Smooth Black
<b>RAL 9011-T</b>	Textured Black
<b>RAL 9007-S</b>	Smooth Gray
<b>RAL 9007-T</b>	Textured Gray
<b>RAL 9016-S</b>	Smooth White
<b>RAL 9016-T</b>	Textured White
<b>RAL 8019-S</b>	Smooth Bronze
<b>RAL 8019-T</b>	Textured Bronze
<b>RAL 9006 -S</b>	Smooth Aluminum
<b>RAL 9006 -T</b>	Textured Aluminum
<b>RAL _ _ _ _</b>	Provide four digit RAL color number
<b>CSC</b>	Custom color. Provide a color sample for matching and approval

**MOUNTING**

**A112-1-65** Single bracket, EPA: 1.18

**A112-2-130** Double bracket, EPA: 1.5

**A112-W-58** Wall bracket, EPA: .48

**MOUNTING Pole and arm assembly**

**A113-1-40** Single bracket, EPA: .86

**A113-2-74** Double bracket, EPA: 1.6

**A113-2-74** Double bracket, EPA: 1.6

Matching pole for A113 arms only. Arm and pole must be ordered together.

<b>P113-18</b>	18 ft / 5.5M height	15.75\"/>
<b>P113-20</b>	20 ft / 6.1M height	15.75\"/>
<b>P113-22</b>	22 ft / 6.7M height	15.75\"/>
<b>P113-24</b>	24 ft / 7.3M height	15.75\"/>
<b>P113-26</b>	26 ft / 7.9M height	15.75\"/>

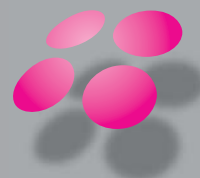
**POLE**

For a complete range of aluminum, steel and wood poles, refer to the Schröder pole guide.



PIANO

# Schröder



LED LIGHTING

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USA

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