

## TOY SURFACE

### D83137

#### GENERAL

Series: Toy  
Brand: Panzeri  
Division: Design  
Mounting Type: Surface  
Mounting Location: Wall  
Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
Length (mm): 250  
Length (in): 9 <sup>7</sup>/<sub>16</sub>  
Height (mm): 70  
Height (in): 2 <sup>3</sup>/<sub>4</sub>  
Extension (mm): 85  
Extension (in): 3 <sup>1</sup>/<sub>4</sub>  
Light Distribution: Direct / Indirect  
Weight (kg): 0.9  
Weight (lbs): 2  
Diffuser: Frost White Glass  
Fixture Finish: WHI  
Fixture Material: Metal

#### ELECTRICAL

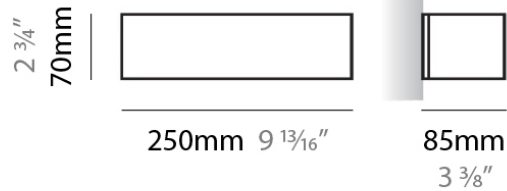
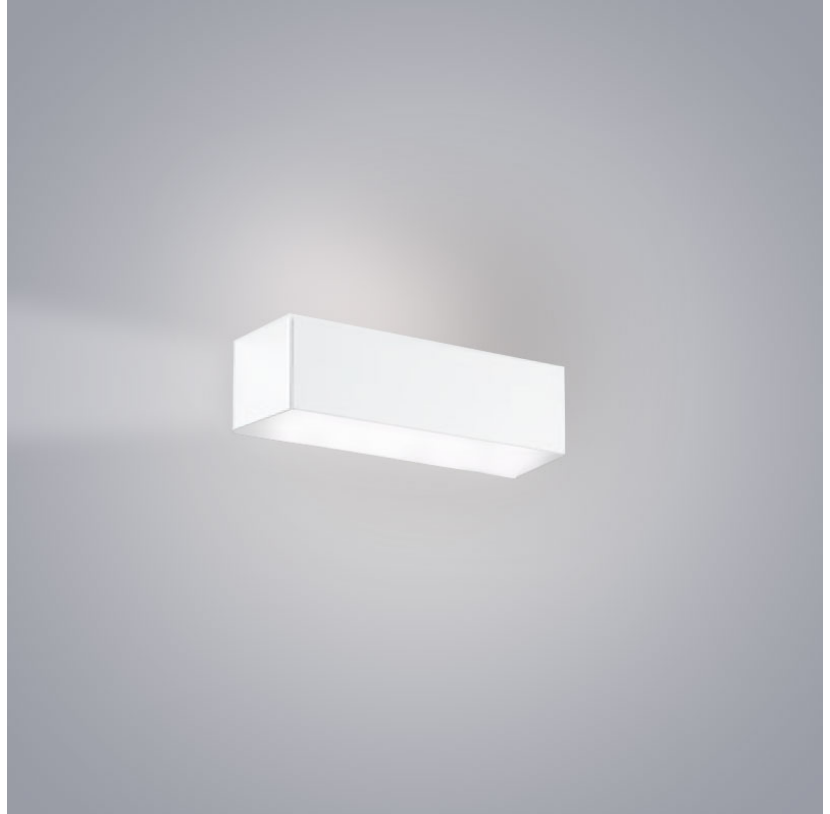
Number of Lamps: 1  
Lamp Type: CFL  
Bulb Included: Bulb Not Included  
Total Output Wattage (W): 26  
Max. Wattage Per Lamp (W): 26  
Lamp Base: GX24-q3  
Dimming: Non-Dimmable  
Driver Included: Yes  
Driver Type: Ballast - 120Vac - Non-dimming  
Input Voltage (V): 120

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
IP rating: IP40



## TOY SURFACE

### D83138

#### GENERAL

Series: Toy  
Brand: Panzeri  
Division: Design  
Mounting Type: Surface  
Mounting Location: Wall  
Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
Length (mm): 250  
Length (in): 9 7/8  
Height (mm): 70  
Height (in): 2 3/4  
Extension (mm): 85  
Extension (in): 3 1/4  
Light Distribution: Direct / Indirect  
Weight (kg): 0.9  
Weight (lbs): 2  
Diffuser: Frost White Glass  
Fixture Finish: SST  
Fixture Material: Metal

#### ELECTRICAL

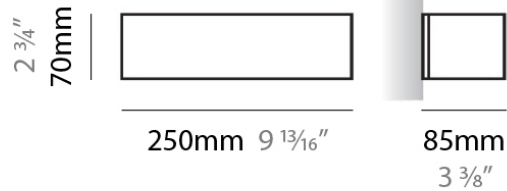
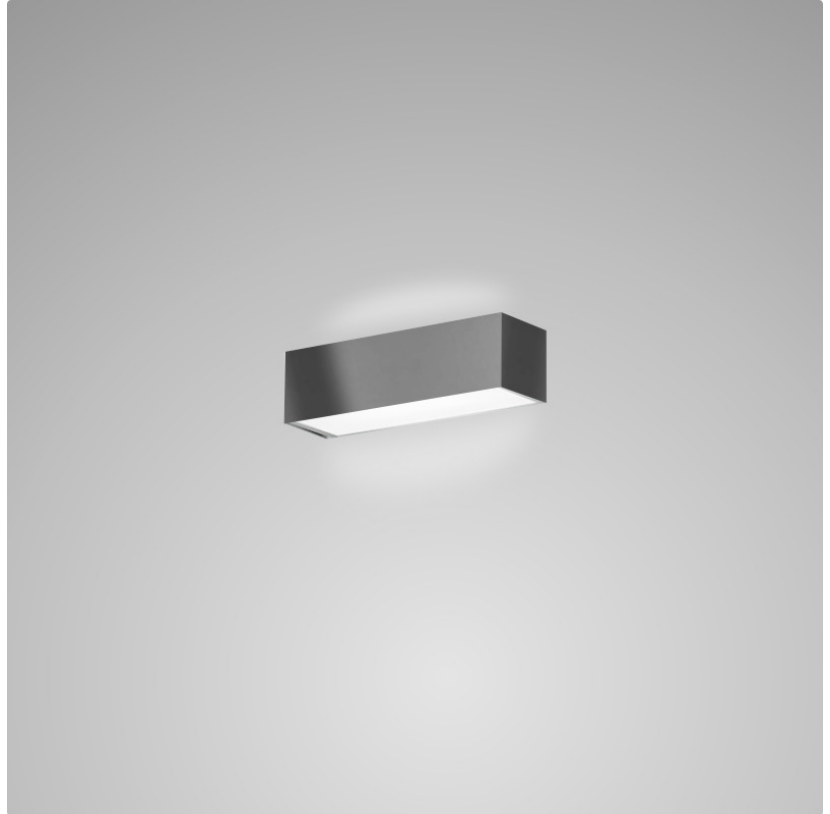
Number of Lamps: 1  
Lamp Type: CFL  
Bulb Included: Bulb Not Included  
Total Output Wattage (W): 26  
Max. Wattage Per Lamp (W): 26  
Lamp Base: GX24-q3  
Driver Included: Yes  
Driver Type: Ballast - 120Vac - Non-dimming  
Input Voltage (V): 120

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
IP rating: IP40



|          |
|----------|
| PROJECT  |
| TYPE     |
| NOTES    |
| QUANTITY |
| DATE     |

## TOY SURFACE

### D83139

#### GENERAL

Series: Toy  
 Brand: Panzeri  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Wall  
 Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
 Length (mm): 250  
 Length (in): 9 7/8  
 Height (mm): 70  
 Height (in): 2 3/4  
 Extension (mm): 85  
 Extension (in): 3 1/4  
 Light Distribution: Direct / Indirect  
 Weight (kg): 0.9  
 Weight (lbs): 2  
 Diffuser: Frost White Glass  
 Fixture Finish: SST  
 Fixture Material: Metal

#### ELECTRICAL

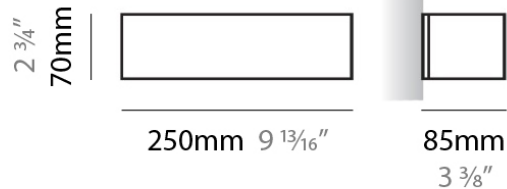
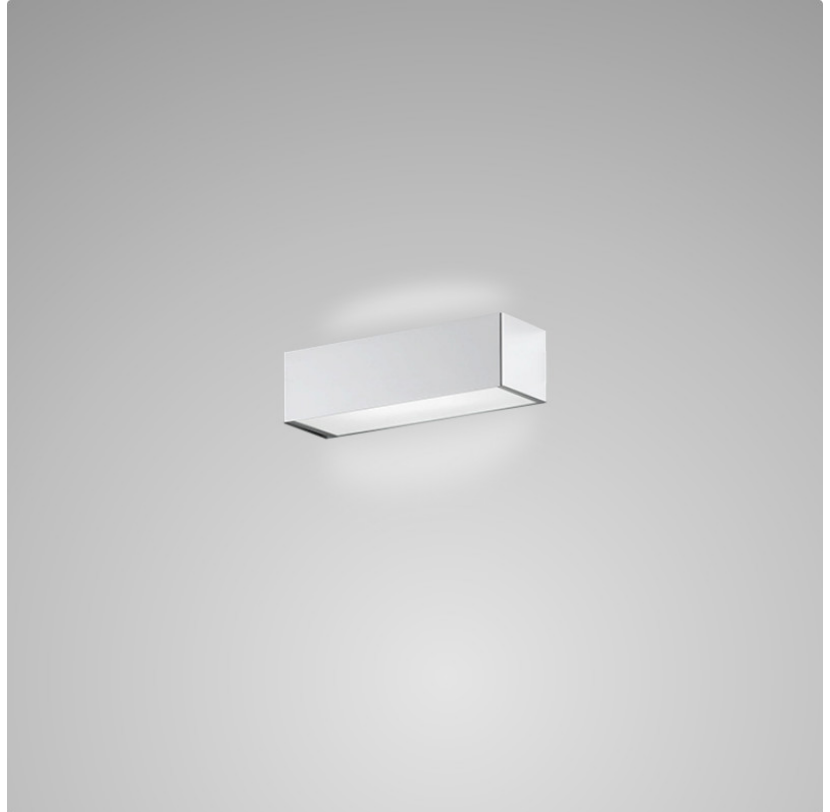
Number of Lamps: 1  
 Lamp Type: CFL  
 Bulb Included: Bulb Not Included  
 Total Output Wattage (W): 26  
 Max. Wattage Per Lamp (W): 26  
 Lamp Base: GX24-q3  
 Driver Included: Yes  
 Driver Type: Ballast - 120Vac - Non-dimming  
 Input Voltage (V): 120

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
 IP rating: IP40



|          |
|----------|
| PROJECT  |
| TYPE     |
| NOTES    |
| QUANTITY |
| DATE     |

## TOY SURFACE

### D83140

#### GENERAL

Series: Toy  
 Brand: Panzeri  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Wall  
 Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
 Length (mm): 610  
 Length (in): 24  
 Height (mm): 70  
 Height (in): 2 3/4  
 Extension (mm): 85  
 Extension (in): 3 3/8  
 Light Distribution: Direct / Indirect  
 Weight (kg): 2.7  
 Weight (lbs): 6  
 Diffuser: Frost White Glass  
 Fixture Finish: WHI  
 Fixture Material: Metal

#### ELECTRICAL

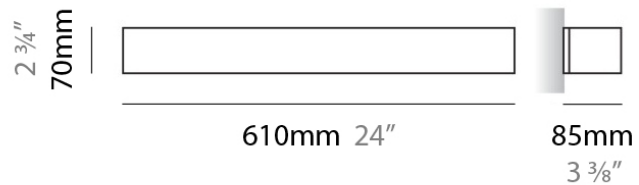
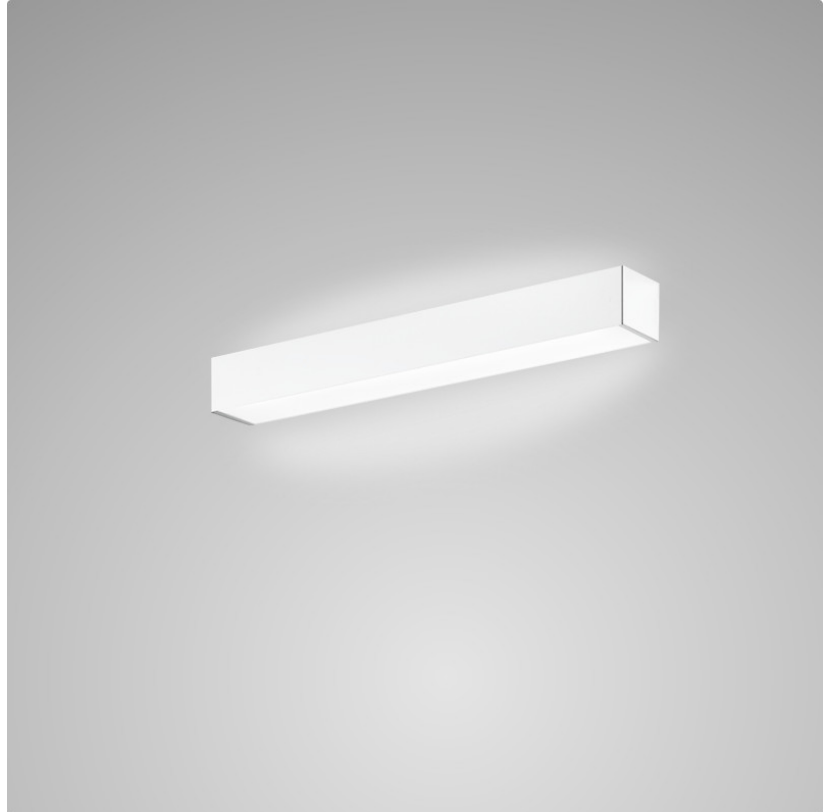
Number of Lamps: 1  
 Lamp Type: LED Retrofit / CFL  
 Bulb Included: Bulb Not Included  
 Total Output Wattage (W): 26 / 55  
 Max. Wattage Per Lamp (W): 26 / 55  
 Lamp Base: 2GX13  
 Dimming: Non-Dimmable  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Ballast - Universal - Non-dimming  
 Input Voltage (V): 120 - 277

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
 IP rating: IP40



## TOY SURFACE

### D83141

#### GENERAL

Series: Toy  
Brand: Panzeri  
Division: Design  
Mounting Type: Surface  
Mounting Location: Wall  
Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
Length (mm): 610  
Length (in): 24  
Height (mm): 70  
Height (in): 2 <sup>3</sup>/<sub>4</sub>  
Extension (mm): 85  
Extension (in): 3 <sup>3</sup>/<sub>8</sub>  
Light Distribution: Direct / Indirect  
Weight (kg): 2.7  
Weight (lbs): 6  
Diffuser: Frost White Glass  
Fixture Finish: SST  
Fixture Material: Metal

#### ELECTRICAL

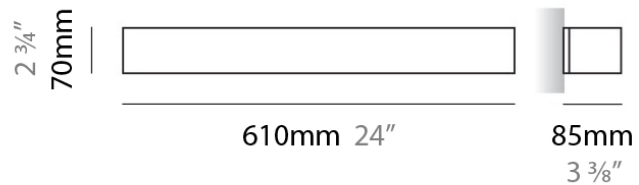
Number of Lamps: 1  
Lamp Type: LED Retrofit / CFL  
Bulb Included: Bulb Not Included  
Total Output Wattage (W): 30 / 55  
Max. Wattage Per Lamp (W): 30 / 55  
Lamp Base: GX24-q3  
Driver Included: Yes  
Driver Type: Ballast - 120Vac - Non-dimming  
Input Voltage (V): 120

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
IP rating: IP40



## TOY SURFACE

### D83142

#### GENERAL

Series: Toy  
Brand: Panzeri  
Division: Design  
Mounting Type: Surface  
Mounting Location: Wall  
Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
Length (mm): 610  
Length (in): 24  
Height (mm): 70  
Height (in): 2 3/4  
Extension (mm): 85  
Extension (in): 3 3/8  
Light Distribution: Direct / Indirect  
Weight (kg): 2.7  
Weight (lbs): 6  
Diffuser: Frost White Glass  
Fixture Finish: SST  
Fixture Material: Metal

#### ELECTRICAL

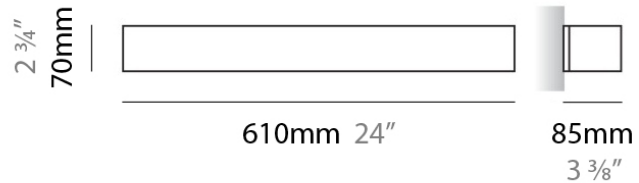
Number of Lamps: 1  
Lamp Type: LED Retrofit / CFL  
Bulb Included: Bulb Not Included  
Total Output Wattage (W): 30 / 55  
Max. Wattage Per Lamp (W): 30 / 55  
Lamp Base: GX24-q3  
Driver Included: Yes  
Driver Type: Ballast - 120Vac - Non-dimming  
Input Voltage (V): 120

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
IP rating: IP40



|          |
|----------|
| PROJECT  |
| TYPE     |
| NOTES    |
| QUANTITY |
| DATE     |

## TOY SURFACE

### D83147-MSS

#### GENERAL

Series: Toy  
 Brand: Panzeri  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Wall

#### PHYSICAL

Shape: Square  
 Length (mm): 75  
 Length (in): 2 <sup>15</sup>/<sub>16</sub>  
 Height (mm): 75  
 Height (in): 2 <sup>15</sup>/<sub>16</sub>  
 Extension (mm): 85  
 Extension (in): 3 <sup>3</sup>/<sub>8</sub>  
 Light Distribution: Direct / Indirect  
 Weight (kg): 0.6  
 Weight (lbs): 1  
 Diffuser: Frost White Glass  
 Fixture Material: Metal

#### ELECTRICAL

Number of Lamps: 1  
 Lamp Type: LED Retrofit / Halogen  
 Bulb Included: Bulb Not Included  
 Total Output Wattage (W): 3 / 35  
 Max. Wattage Per Lamp (W): 3 / 35  
 Lamp Base: G9  
 Input Voltage (V): 120

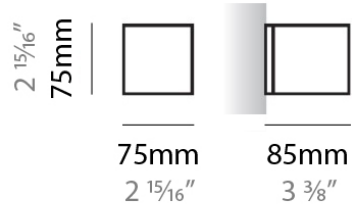
#### LED

Nominal Lumen (lm): 650

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
 IP rating: IP20



|          |       |
|----------|-------|
| PROJECT  | _____ |
| TYPE     | _____ |
| NOTES    | _____ |
| QUANTITY | _____ |
| DATE     | _____ |

## TOY SURFACE

### D83147-WHI

#### GENERAL

Series: Toy \_\_\_\_\_  
Brand: Panzeri \_\_\_\_\_  
Division: Design \_\_\_\_\_  
Mounting Type: Surface \_\_\_\_\_  
Mounting Location: Wall \_\_\_\_\_

#### PHYSICAL

Shape: Square \_\_\_\_\_  
Length (mm): 75 \_\_\_\_\_  
Length (in):  $2 \frac{15}{16}$  \_\_\_\_\_  
Height (mm): 75 \_\_\_\_\_  
Height (in):  $2 \frac{15}{16}$  \_\_\_\_\_  
Extension (mm): 85 \_\_\_\_\_  
Extension (in):  $3 \frac{3}{8}$  \_\_\_\_\_  
Light Distribution: Direct / Indirect \_\_\_\_\_  
Weight (kg): 0.6 \_\_\_\_\_  
Weight (lbs): 1 \_\_\_\_\_  
Diffuser: Frost White Glass \_\_\_\_\_  
Fixture Material: Metal \_\_\_\_\_

#### ELECTRICAL

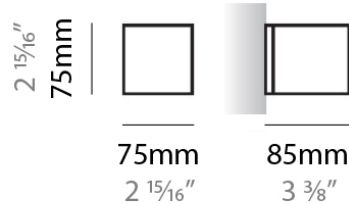
Number of Lamps: 1 \_\_\_\_\_  
Lamp Type: LED Retrofit / Halogen \_\_\_\_\_  
Bulb Included: Bulb Not Included \_\_\_\_\_  
Total Output Wattage (W): 3 / 35 \_\_\_\_\_  
Max. Wattage Per Lamp (W): 3 / 35 \_\_\_\_\_  
Lamp Base: G9 \_\_\_\_\_  
Input Voltage (V): 120 \_\_\_\_\_

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards \_\_\_\_\_  
IP rating: IP20 \_\_\_\_\_





## TOY SURFACE

### D83281-MSS

#### GENERAL

Series: Toy \_\_\_\_\_

Brand: Panzeri \_\_\_\_\_

Division: Design \_\_\_\_\_

Mounting Type: Surface \_\_\_\_\_

Mounting Location: Wall \_\_\_\_\_

#### PHYSICAL

Shape: Rectangle \_\_\_\_\_

Length (mm): 250 \_\_\_\_\_

Length (in):  $9 \frac{13}{16}$  \_\_\_\_\_

Height (mm): 70 \_\_\_\_\_

Height (in):  $2 \frac{3}{4}$  \_\_\_\_\_

Extension (mm): 85 \_\_\_\_\_

Extension (in):  $3 \frac{3}{8}$  \_\_\_\_\_

Light Distribution: Direct / Indirect \_\_\_\_\_

Weight (kg): 0.82 \_\_\_\_\_

Weight (lbs): 1.8 \_\_\_\_\_

Diffuser: Frost White Glass \_\_\_\_\_

Fixture Material: Metal \_\_\_\_\_

#### ELECTRICAL

Lamp Type: LED \_\_\_\_\_

Input Wattage (W): 13 \_\_\_\_\_

Total Output Wattage (W): 12 \_\_\_\_\_

Driver Included: Yes \_\_\_\_\_

Driver Location: Integrated \_\_\_\_\_

Driver Type: Integral LED driver, 700mA (Dimming and 277V options available with remote driver sold separately) \_\_\_\_\_

#### LED

Color Temperature (°K): 3000 \_\_\_\_\_

Max. Delivered Lumen (lm): 938 \_\_\_\_\_

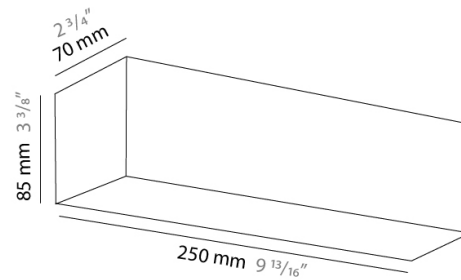
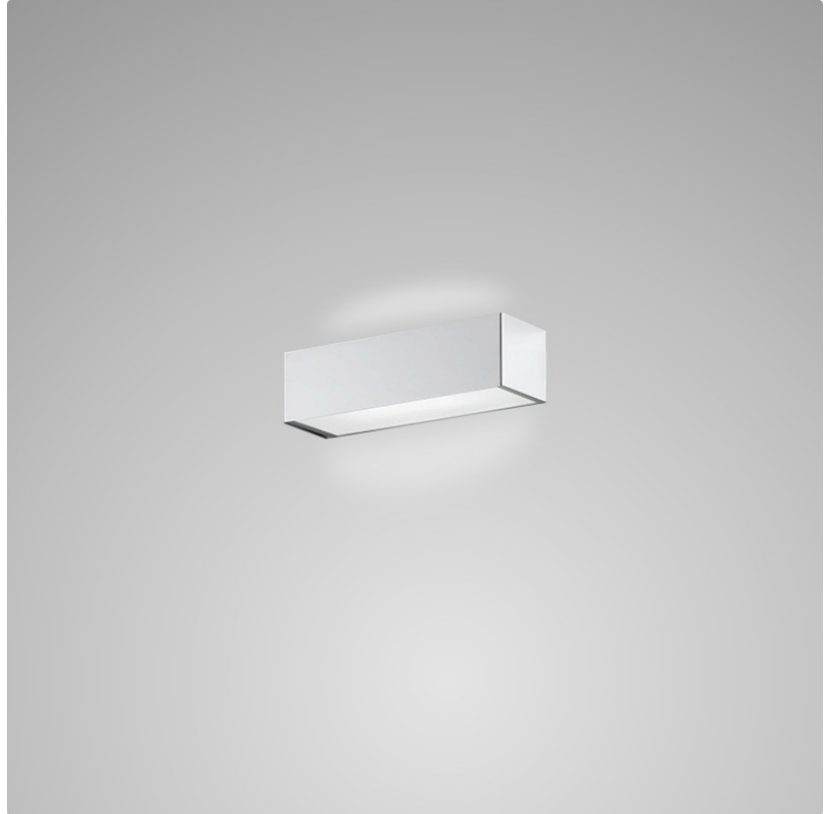
CRI: &gt;80 CRI \_\_\_\_\_

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards \_\_\_\_\_

IP rating: IP20 \_\_\_\_\_



## TOY SURFACE

### D83281-PSS

#### GENERAL

Series: Toy

Brand: Panzeri

Division: Design

Mounting Type: Surface

Mounting Location: Wall

#### PHYSICAL

Shape: Rectangle

Length (mm): 250

Length (in):  $9 \frac{13}{16}$ 

Height (mm): 70

Height (in):  $2 \frac{3}{4}$ 

Extension (mm): 85

Extension (in):  $3 \frac{3}{8}$ 

Light Distribution: Direct / Indirect

Weight (kg): 0.82

Weight (lbs): 1.8

Diffuser: Frost White Glass

Fixture Material: Metal

#### ELECTRICAL

Lamp Type: LED

Input Wattage (W): 13

Total Output Wattage (W): 12

Driver Included: Yes

Driver Location: Integrated

Driver Type: Integral LED driver, 700mA (Dimming and 277V options available with remote driver sold separately)

#### LED

Color Temperature (°K): 3000

Max. Delivered Lumen (lm): 938

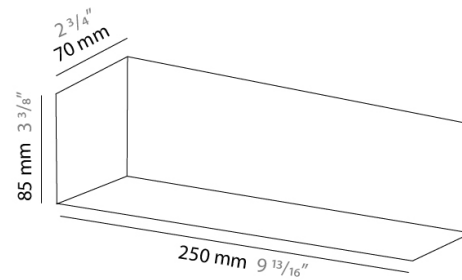
CRI: &gt;80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards

IP rating: IP20



## TOY SURFACE

### D83281-WHI

#### GENERAL

Series: Toy \_\_\_\_\_

Brand: Panzeri \_\_\_\_\_

Division: Design \_\_\_\_\_

Mounting Type: Surface \_\_\_\_\_

Mounting Location: Wall \_\_\_\_\_

#### PHYSICAL

Shape: Rectangle \_\_\_\_\_

Length (mm): 250 \_\_\_\_\_

Length (in):  $9 \frac{13}{16}$  \_\_\_\_\_

Height (mm): 70 \_\_\_\_\_

Height (in):  $2 \frac{3}{4}$  \_\_\_\_\_

Extension (mm): 85 \_\_\_\_\_

Extension (in):  $3 \frac{3}{8}$  \_\_\_\_\_

Light Distribution: Direct / Indirect \_\_\_\_\_

Weight (kg): 0.82 \_\_\_\_\_

Weight (lbs): 1.8 \_\_\_\_\_

Diffuser: Frost White Glass \_\_\_\_\_

Fixture Material: Metal \_\_\_\_\_

#### ELECTRICAL

Lamp Type: LED \_\_\_\_\_

Input Wattage (W): 13 \_\_\_\_\_

Total Output Wattage (W): 12 \_\_\_\_\_

Driver Included: Yes \_\_\_\_\_

Driver Type: Integral LED driver, 700mA (Dimming and 277V options available with remote driver sold separately) \_\_\_\_\_

#### LED

Color Temperature (°K): 3000 \_\_\_\_\_

Max. Delivered Lumen (lm): 938 \_\_\_\_\_

Nominal Lumen (lm): 2 x 730lm \_\_\_\_\_

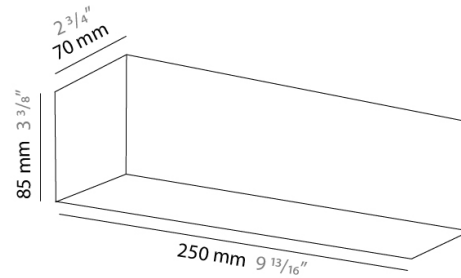
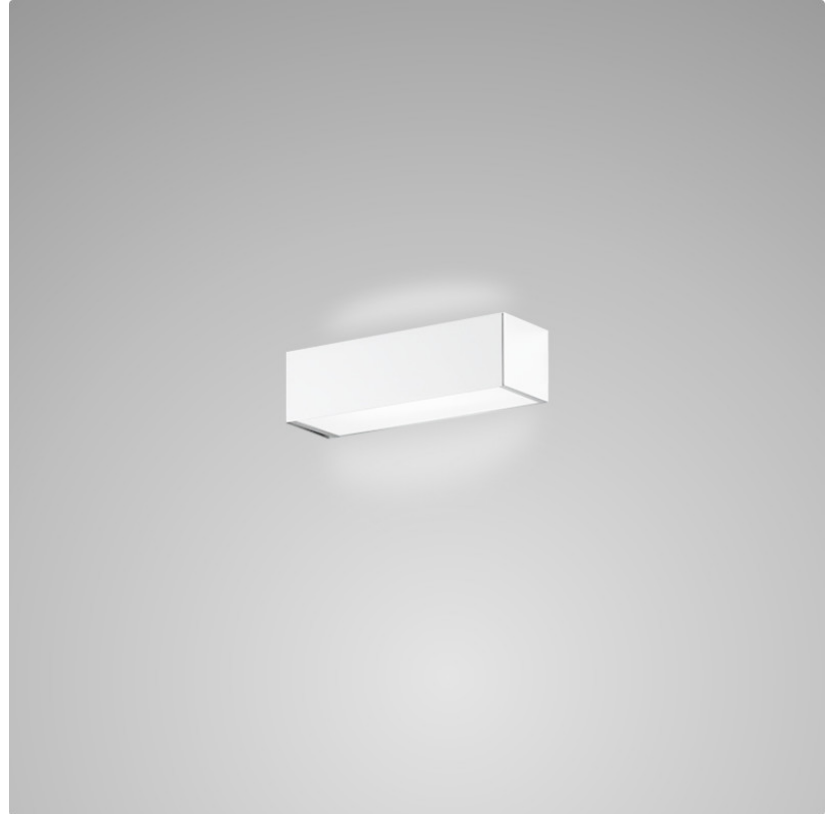
CRI: &gt;80 CRI \_\_\_\_\_

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards \_\_\_\_\_

IP rating: IP20 \_\_\_\_\_



|          |
|----------|
| PROJECT  |
| TYPE     |
| NOTES    |
| QUANTITY |
| DATE     |

## TOY SURFACE

### D83285

#### GENERAL

Series: Toy  
 Brand: Panzeri  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Wall  
 Subcategory: Ambient

#### PHYSICAL

Shape: Rectangle  
 Length (mm): 250  
 Length (in): 9 7/8  
 Height (mm): 70  
 Height (in): 2 3/4  
 Extension (mm): 85  
 Extension (in): 3 1/4  
 Light Distribution: Direct / Indirect  
 Weight (kg): 0.9  
 Weight (lbs): 2  
 Diffuser: Frost White Glass  
 Fixture Material: Metal

#### ELECTRICAL

Number of Lamps: 1  
 Lamp Type: LED  
 Total Output Wattage (W): 12  
 Dimming: Non-Dimmable  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Current  
 Driver Class: Class 2  
 Input Voltage (V): 120  
 Upon Request: (Dimming and 277V options available with remote driver sold separately)

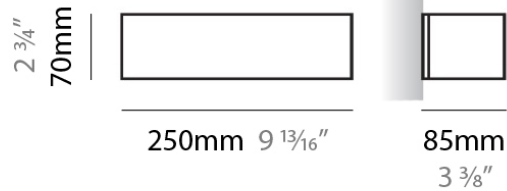
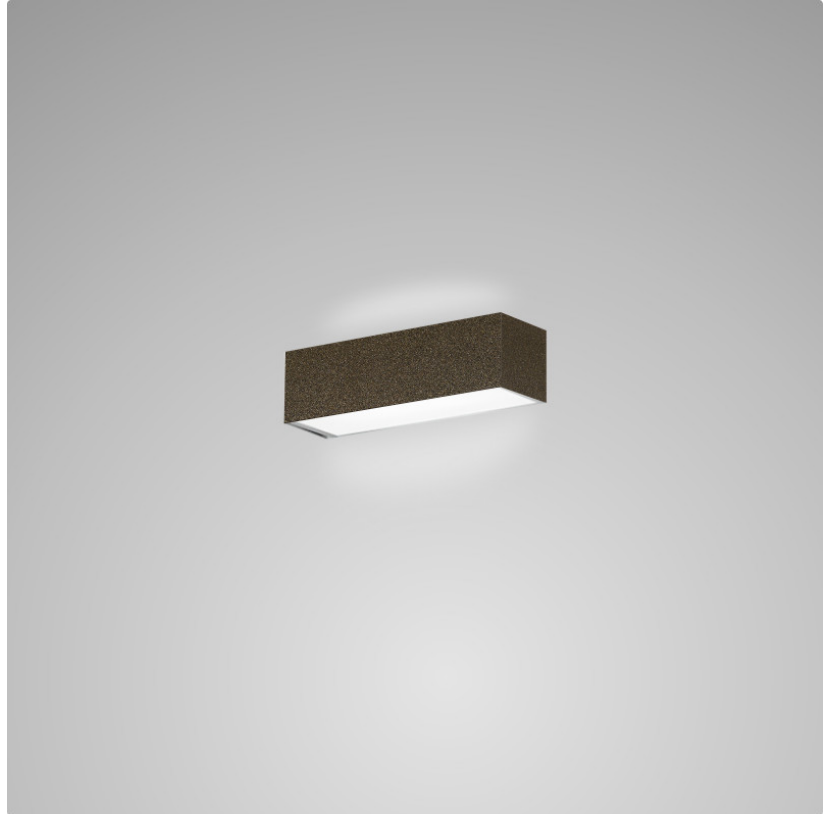
#### LED

Color Temperature (°K): 3000  
 Nominal Lumen (lm): 2 x 730  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
 IP rating: IP40



## TOY SURFACE

### D83286-PSS

#### GENERAL

Series: Toy  
Brand: Panzeri  
Division: Design  
Mounting Type: Surface  
Mounting Location: Wall

#### PHYSICAL

Shape: Rectangle  
Length (mm): 610  
Length (in): 24  
Height (mm): 70  
Height (in): 2 3/4  
Extension (mm): 85  
Extension (in): 3 3/8  
Light Distribution: Direct / Indirect  
Weight (kg): 1.8  
Weight (lbs): 4  
Diffuser: Frost White Glass  
Fixture Material: Metal

#### ELECTRICAL

Lamp Type: LED  
Input Wattage (W): 35  
Driver Included: Yes  
Driver Type: Integral LED driver, 500mA (Dimming and 277V options available with remote driver sold separately)

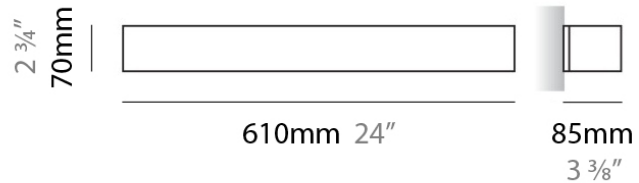
#### LED

Color Temperature (°K): 3000  
Max. Delivered Lumen (lm): 2814  
CRI: >80 CRI






































































#### OPTICAL

#### RATINGS AND CERTIFICATIONS

Certified By: CSA Certified to UL and CSA Standards  
IP rating: IP20













## LEGEND

|                                                                                    |                                                           |                                                                                     |                                                              |                                                                                       |                                                                                                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|    | floor-mounted                                             |    | pivotal                                                      |    | special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+                    |
|    | wall and ceiling: recessed and surface mounted            |    | rotating                                                     |    | warm dim / natural dimming LED                                                                 |
|    | ceiling-mounted and wall-mounted                          |    | illuminate tilted                                            |    | rechargeable battery powered                                                                   |
|    | wall-mounted                                              |    | color of suspension cable                                    |    | fixture with natural vivid LED (upon request)                                                  |
|    | omni-directional light distribution                       |    | length of suspension cable                                   |    | color rendering index                                                                          |
|    | direct light distribution                                 |    | reflector degree selection                                   |    | color temperature                                                                              |
|    | direct/indirect light distribution                        |    | super spot                                                   |    | lumen (luminous flux)                                                                          |
|    | indirect light distribution                               |    | lens                                                         |    | efficacy (lumens per watt)                                                                     |
|    | asymmetric light distribution                             |    | lens pack                                                    |    | Unified Glare Rating (UGR) range from 5-40                                                     |
|    | aura light distribution                                   |    | shine ring                                                   |    | marine grade (AISI 316 stainless steel)                                                        |
|    | round wall or ceiling cut-out                             |    | integrated shine ring with diffuser                          |    | walk on                                                                                        |
|    | square wall or ceiling cut-out                            |    | free individual colors 01-29                                 |    | drive on                                                                                       |
|   | the supplied jig specifies the cutout dimensions          |   | individual colors: 00 (free of charge), 01-25 (extra charge) |   | Dark Sky Compliance                                                                            |
|  | minimum distance (meters) lamp - object                   |  | luminaire part to be colored (F1)                            |  | Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor) |
|  | recessed depth                                            |  | luminaire part to be colored (F2)                            |  | lamp protected against explosion                                                               |
|  | ceiling thickness in mm                                   |  | luminaire part to be colored (F3)                            |  | blown glass using traditional methods by master glass blower                                   |
|  | ceiling thickness selection                               |  | luminaire part to be colored (F4)                            |  | acoustic material                                                                              |
|  | dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim) |  | luminaire part to be colored (F5)                            |  | protection class I, protection insulation                                                      |
|  | included or excluded LED driver/transformer/control gear  |  | color of 3-circuit adaptor                                   |  | protection class II, protection insulation                                                     |
|  | separately switchable                                     |  | indirect diffuser                                            |  | ETL Certified to UL and CSA Standards                                                          |
|  | sensor                                                    |  | direct diffuser                                              |  | UL Certified to UL and CSA Standards                                                           |
|  | remote control                                            |  | ball-proof (upon request)                                    |  | CSA Certified to UL and CSA Standards                                                          |
|  | available upon request                                    |  | accessory                                                    |  | Certified for North American Standards                                                         |

## IP RATING

|                                                                                   |                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  | protected against ingress of solid bodies greater than 12.5mm (finger)                                                                           |
|  | protected against ingress of solid bodies greater than 2.5mm<br>protected against sprays of water up to 60 degrees from the vertical (rain)      |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>no protection against the ingress of moisture                               |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>protected against sprays of water up to 60 degrees from the vertical (rain) |
|  | protected against ingress of solid bodies greater than 1mm (wire)<br>protected against water splashed from all directions                        |
|  | protected against limited ingress of dust (wet rooms/covered outdoor areas)<br>protected against water splashed from all directions              |
|  | protected against ingress of dust<br>protected against jets of water                                                                             |
|  | protected against ingress of dust<br>protected against powerful jets of water or heavy seas                                                      |
|  | protected against ingress of dust<br>protected against immersion of water between 15cm - 1m for 30 minutes                                       |
|  | protected against ingress of dust<br>protected against immersion of water under pressure for long periods                                        |

## IK RATING

|                                                                                     |                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  | protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)  |
|  | protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)   |
|  | protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface) |
|  | protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)  |
|  | protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)  |
|  | protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)    |
|  | protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)     |
|  | protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)     |
|  | protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)    |
|  | protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)    |