# ZANEEN

# **SMOOTHLINE SUSPENSION**

A30269	-	-	-	-	
base number	LED	Color	Finishes	Diffuser	_
	Dimming	Temperature	(Diamond)	Ontions	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 630
Length (in): 24 <sup>13</sup> / <sub>16</sub>
Width (mm): 200
Width (in): 7 $\frac{7}{8}$
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2120
Max. Overall Height (in): 82 ½
Light Distribution: Direct
Weight (kg): 5.043
Weight (lbs): 11.40
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR

Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

# **ELECTRICAL**

Lamp Type: LED (Zhaga Standard) Input Wattage (W): 21 Total Output Wattage (W): 18 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes

MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Number of LEDs: 6 x 3W

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 1530 / 1646 / 1680

Lamp Life (hrs): 50000

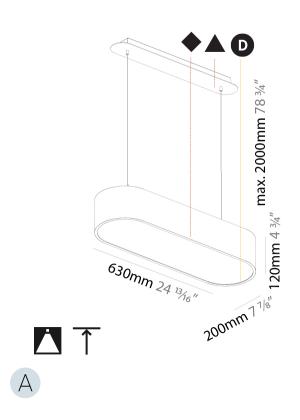
# OPTICAL

## **RATINGS AND CERTIFICATIONS**

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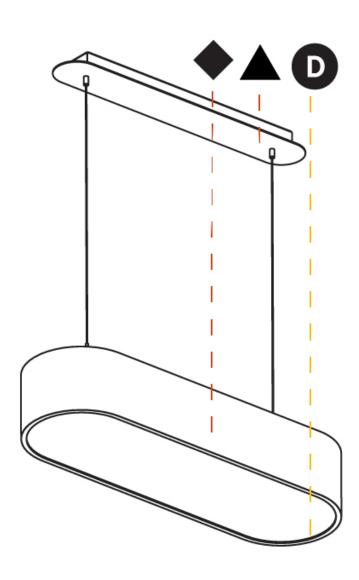






# **SMOOTHLINE SUSPENSION**

A30269-





# **ZANEEN**®

# **SMOOTHLINE SUSPENSION**

A30271	-		-	-
base number	LED	Color	Finishes	Diffuser

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Modifieng Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 930
Length (in): 36 <sup>5</sup> / <sub>8</sub>
Width (mm): 200
Width (in): $7\frac{7}{8}$
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2120
Max. Overall Height (in): 82 ½
Light Distribution: Direct
Weight (kg): 6.973
Weight (lbs): 15.34

Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

# **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 31.5

Total Output Wattage (W): 27

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Number of LEDs: 9

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2190 / 2362 / 2410

Nominal Lumen (lm): 3285lm

CRI: >80 CRI

Lamp Life (hrs): 50000

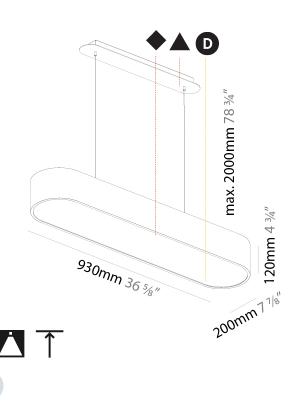
## OPTICAL

### **RATINGS AND CERTIFICATIONS**

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QUANTITY	
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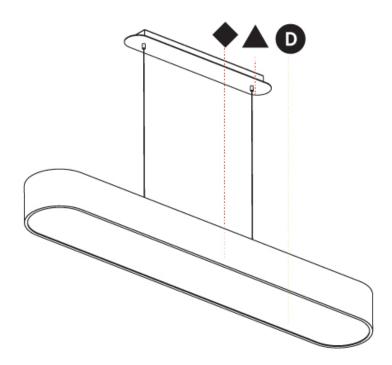




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# **ZANEEN**®

# **SMOOTHLINE SUSPENSION**

A30273	-		-	-	
base number	LED	Color	Finishes	Diffuser	_
	Dimming	Temperature	(Diamond)	Ontions	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Profile	

Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Profile
PHYSICAL
Shape: Oblong
Length (mm): 1230
Length (in): 48 <sup>7</sup> / <sub>16</sub>
Width (mm): 200
Width (in): 7 1/8
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2120
Max. Overall Height (in): 82 ½
Light Distribution: Direct
Weight (kg): 8.855
Weight (lbs): 19.48

Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR /
MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

Cable Details. 2000iiiii / 78

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 42

Total Output Wattage (W): 38

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 1

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Number of LEDs: 12

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2920 / 3146 / 3210

CRI: >80 CRI

Lamp Life (hrs): 50000

### OPTICAL

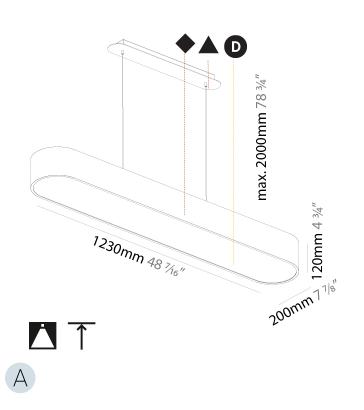
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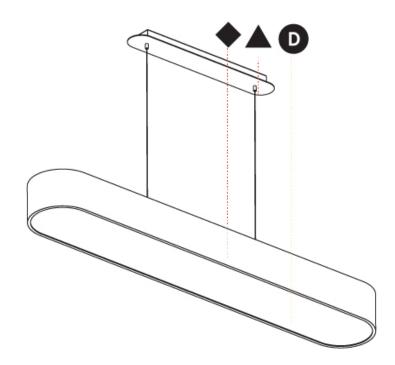
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# **SMOOTHLINE SUSPENSION**

A30273-

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# ZANEEN

# **SMOOTHLINE SUSPENSION**

A30275	-		-	-	-
base number	LED Dimming	Color	Finishes (Diamond)	Finishes (Triangle)	Diffuser Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Profile	

Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Profile
PHYSICAL
Shape: Oblong
Length (mm): 1530
Length (in): 60 ½
Nidth (mm): 200
Nidth (in): 7 1/8
Height (mm): 120
Height (in): 4 ¾
Max. Overall Height (mm): 2120
Max. Overall Height (in): 82 ½
ight Distribution: Direct
Neight (kg): 10.765
Neight (lbs): 23.73
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

# **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 52.5

Total Output Wattage (W): 45

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Number of LEDs: 15

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 3650 / 3930 / 4010

CRI: >80 CRI

Lamp Life (hrs): 50000

### OPTICAL

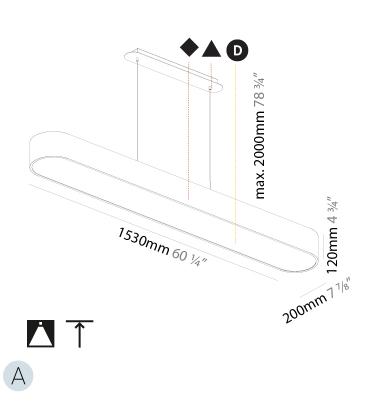
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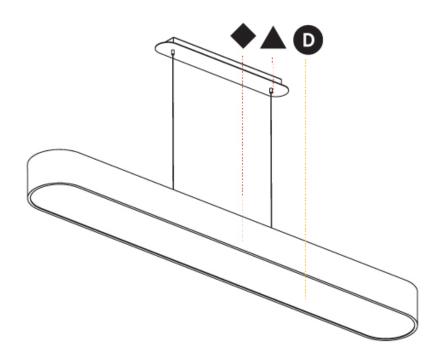
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# **SMOOTHLINE SUSPENSION**

A30275-

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE





# **ZANEEN**®

# **SMOOTHY STANDARD SUSPENSION**

A31672	•		-	-
base number	LED Dimming	Color	Finishes (Diamond)	Diffuser

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 370
Length (in): 14 %,
Width (mm): 370
Width (in): 14 <sup>9</sup> / <sub>16</sub>
Height (mm): 120
Height (in): 4 $\frac{3}{4}$
Max. Overall Height (mm): 2120
Max. Overall Height (in): 83 $\frac{7}{16}$
Light Distribution: Direct
Weight (kg): 4.15
Weight (lbs): 9.13
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 12
Total Output Wattage (W): 10
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

#### LED

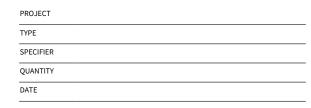
Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1380 / 1401 / 1430
CRI: >80 CRI
Efficiency (%): 82.7
Lamp Life (hrs): 50000

# OPTICAL

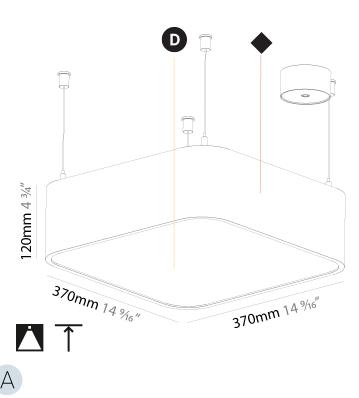
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IP rating: IP20



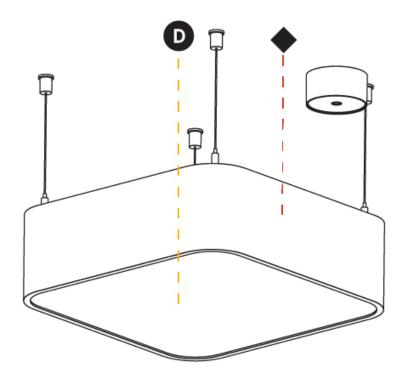




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A31672-





# **ZANEEN**®

# **SMOOTHY STANDARD SUSPENSION**

A31679-			-	-	
base number	LED Dimming	Color Temperature	Finishes (Diamond)	Diffuser Options	•

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division. Architecturat
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 600
Length (in): 23 <sup>5</sup> / <sub>8</sub>
Width (mm): 600
Width (in): 23 ½
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2120mm / 83-7/16
Max. Overall Height (in): 83 $\frac{7}{16}$
Light Distribution: Direct
Weight (kg): 10.86
Weight (lbs): 23.94

Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cable Details: 2000mm / 78 3/4"

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 50
Total Output Wattage (W): 45
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

#### LED

Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 5520 / 5606 / 5720
CRI: >80 CRI
Efficiency (%): 82.7
Lamp Life (hrs): 50000

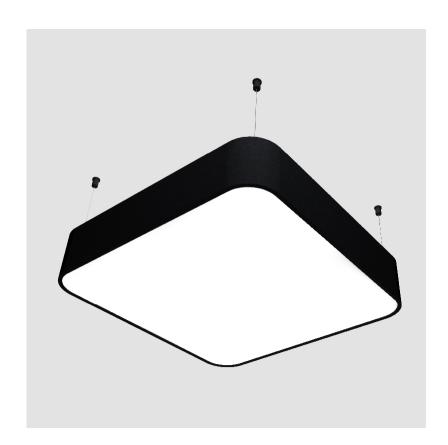
## OPTICAL

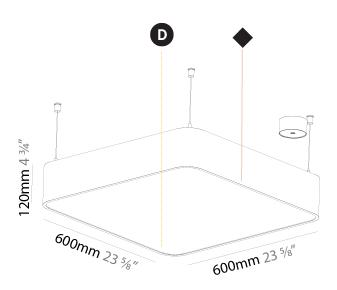
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TYPE	
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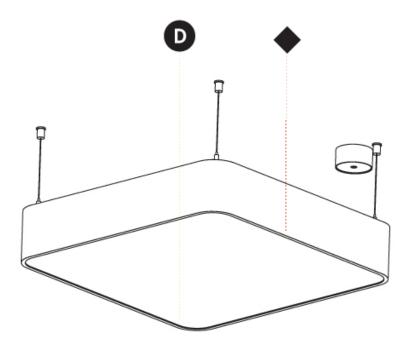


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A31679-

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			







A31684	-		-	-	
base number	LED Dimming	Color	Finishes	Diffuser	_

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Rectangle
Length (mm): 1200
Length (in): 47 1/4
Width (mm): 600
Width (in): 23 <sup>5</sup> / <sub>8</sub>
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2120mm / 83-7/16
Max. Overall Height (in): 83 $\frac{7}{16}$
Light Distribution: Direct
Weight (kg): 20.33
Weight (lbs): 44.82

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cable Dataile: 2000mm / 70 2/4!

Diffuser: PMMA - Opal or Micro-Prism

Cable Details: 2000mm / 78 3/4"

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 108.9
Total Output Wattage (W): 99
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

#### LED

LED
Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 11050 / 11250 / 11450
CRI: >80 CRI
Efficiency (%): 82.7%
Lamp Life (hrs): 50000

## OPTICAL

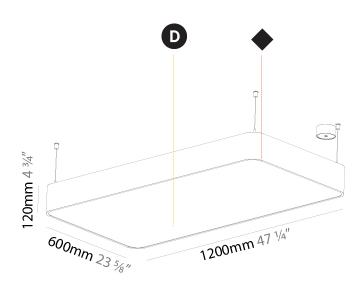
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IP rating: IP20

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			



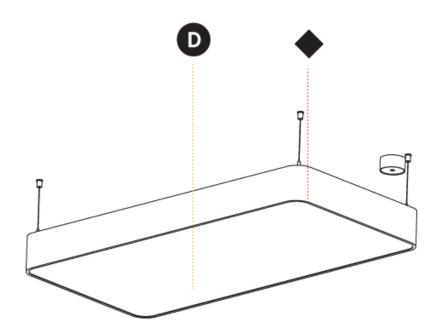




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A31684-







# **SMOOTHY STANDARD SURFACE**

A32365	•		-	-
base number	LED Dimming	Color	Finishes (Diamond)	Diffuser

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division. Architecturat
Mounting Type: Surface
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 370
Length (in): 14 % 16
Width (mm): 370
Width (in): 14 <sup>9</sup> / <sub>16</sub>
Height (mm): 120
Height (in): 4 1/4
Light Distribution: Direct
Weight (kg): 3.458
Weight (lbs): 7.61
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

**ELECTRICAL** Lamp Type: LED (Zhaga Standard) Input Wattage (W): 13.2 Total Output Wattage (W): 12 Dimming: Non-Dimmable Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current -Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 350

## LED

Color Temperature (°K): 3000 / 3500 / 4000	
Max. Delivered Lumen (lm): 1380 / 1401 / 1430	
CRI: >80 CRI	
Efficiency (%): 0.867	
Lamp Life (hrs): 50000	

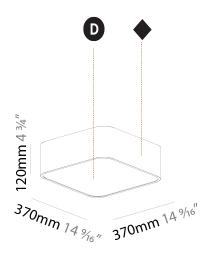
Upon Request: 0-10Vdc dimming / Phase dimming 120Vac only

#### **OPTICAL**

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards IP rating: IP20





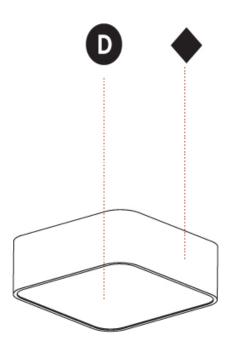




# **SMOOTHY STANDARD SURFACE**

A32365-

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	





# **ZANEEN**®

# **SMOOTHLINE SURFACE**

A32966	-	-	-	-	
base number	LED	Color	Finishes	Diffuser	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Surface
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 630
Length (in): 24 <sup>13</sup> / <sub>16</sub>
Width (mm): 200
Width (in): $7\frac{7}{8}$
Height (mm): 120
Height (in): 4 1/4
Light Distribution: Direct
Weight (kg): 3.403
Weight (lbs): 7.49
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR, MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

Fixture Material: Extruded Aluminum / Steel

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 21

Total Output Wattage (W): 18

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 1460 / 1568 / 1600

CRI: >80 CRI

Lamp Life (hrs): 50000

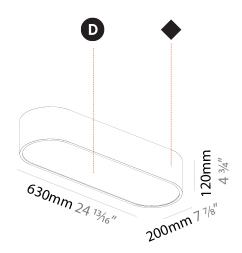
# OPTICAL

# RATINGS AND CERTIFICATIONS

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DATE	

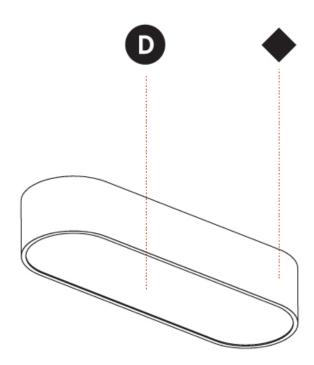








A32966-





# ZANEEN

# **SMOOTHLINE SURFACE**

A32968	-		-	-	
base number	LED	Color	Finishes	Diffuser	_
	Dimming	Temperature	(Diamond)	Ontions	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Surface
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 930
Length (in): 36 $\frac{5}{8}$
Width (mm): 200
Width (in): $7\frac{7}{8}$
Height (mm): 120
Height (in): 4 1/4
Light Distribution: Direct
Weight (kg): 5.108
Weight (lbs): 11.24
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

# **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 31.5 Total Output Wattage (W): 27

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2190 / 2362 / 2410

CRI: >80 CRI

Lamp Life (hrs): 50000

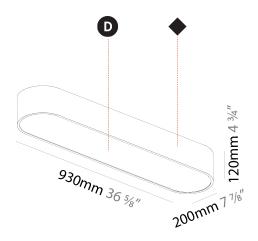
# OPTICAL

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards



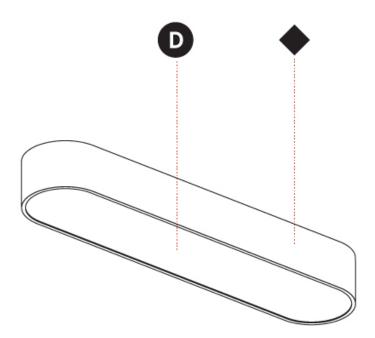








A32968-





# **ZANEEN**®

# **SMOOTHLINE SURFACE**

A32970-	•	-	-	-	
base number	LED	Color	Finishes	Diffuser	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Location: Ceiling	
Subcategory: Ambient	
PHYSICAL	
Shape: Oval	
Length (mm): 1230	
Length (in): 48 <sup>7</sup> / <sub>16</sub>	
Width (mm): 200	
Width (in): 7 \(^{7}\/_{8}\)	
Height (mm): 120	
Height (in): 4 <sup>3</sup> / <sub>4</sub>	
Light Distribution: Direct	
Diffuser: PMMA - Opal or Micro-Prism	
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA	/ RUR

MIC/FTG/MYG/TWT/LOD/PUS/FRO/FUP/KIA/POP/BLS/SPG/ MEY/GOH/GUM/CHC/COM/ABZ/JAG/OBR/MOS/ROR

Fixture Material: Extruded Aluminum / Steel

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 42

Total Output Wattage (W): 36

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 1

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2920 / 3146 / 3210

CRI: >80 CRI

Lamp Life (hrs): 50000

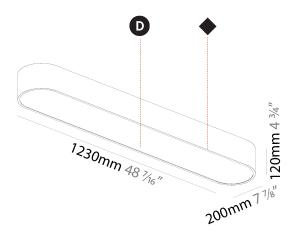
## OPTICAL

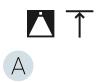
# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		

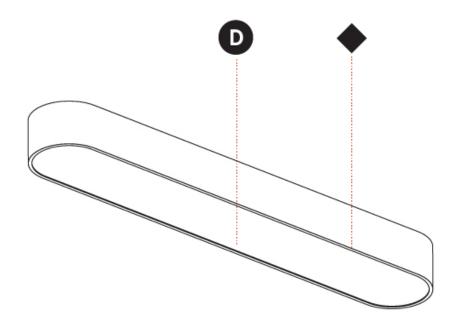








A32970-







A32972-	-	-	-	-	
base number	LED	Color	Finishes	Diffuser	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 1530
Length (in): 60 1/4
Width (mm): 200
Width (in): $7\frac{7}{8}$
Height (mm): 120
Height (in): 4 <sup>3</sup> / <sub>4</sub>
Light Distribution: Direct
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)

Input Wattage (W): 52

Total Output Wattage (W): 45

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 3650 / 3930 / 4010

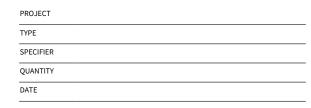
CRI: >80 CRI

Lamp Life (hrs): 50000

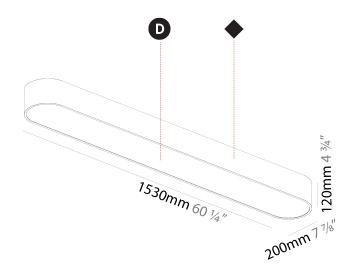
OPTICAL

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards



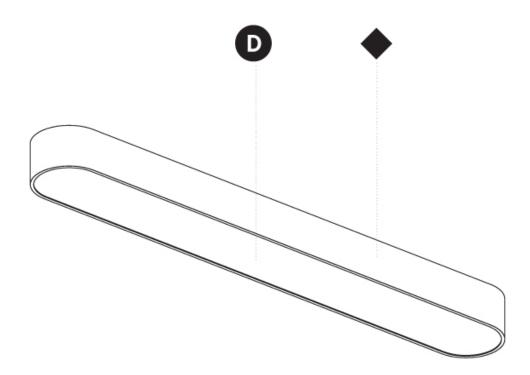








A32972-







# **SMOOTHY STANDARD TRIMLESS**

	n		

base number

LED Dimming Color Temperatur

1.To build a product code in our	configurator	select the	specify	button (	on
the base model # product page					

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Trimless	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 370
Length (in): 14 <sup>9</sup> / <sub>16</sub>
Width (mm): 370
Width (in): 14 <sup>9</sup> / <sub>16</sub>
Depth (mm): 176
Depth (in): 6 15/16
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1 or 1 3/16
Min. Recessing Depth (mm): 200
Min. Recessing Depth (in): 7 1/8
Light Distribution: Direct
Weight (kg): 4.236
Weight (lbs): 9.32
Diffuser: PMMA - Opal
Fixture Material: Extruded Aluminum / Steel

#### ELECTRICAL

**Depth Spot Inserts** 

E	ELECTRICAL
L	Lamp Type: LED (Zhaga Standard)
1	nput Wattage (W): 13.2
1	Fotal Output Wattage (W): 12.4
	Dimming: Non-Dimmable
	Oriver Included: Yes
	Oriver Location: Integrated
	Oriver Type: Constant Current - Universal
	Oriver Class: Class 2
1	nput Voltage (V): 120 - 277
(	Constant Current (MA): 350
	Jpon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

Cut-out Measurements: 405mm / 15 15/16" x 405mm 15 15/16"

Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

#### LED

Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1090 / 1107 / 1130
CRI: >80 CRI
Efficiency (%): 0.804
Lamp Life (hrs): 50000
Upon Request: RGB-W Tunable White Special Color Temperature CRI90

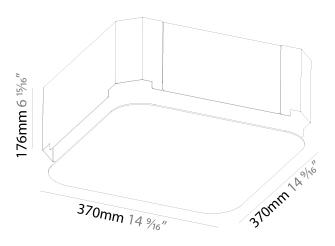
## OPTICAL

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		













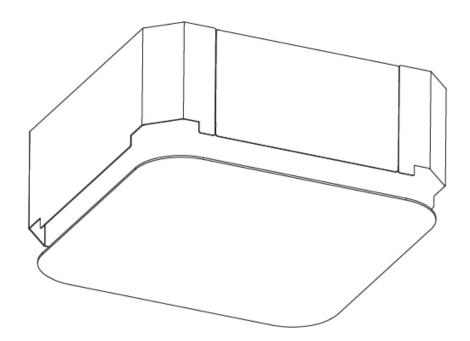




# **SMOOTHY STANDARD TRIMLESS**

A36697-

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			







A37514-

base number

LED Dimming Color Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Trimless	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 600
Length (in): 23 <sup>5</sup> / <sub>8</sub>
Width (mm): 195
Width (in): 7 11/16
Depth (mm): 165
Depth (in): 6 ½
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1 or 1 3/16
Min. Recessing Depth (mm): 180
Min. Recessing Depth (in): 7 1/16
Light Distribution: Direct
Weight (kg): 3.8
Weight (lbs): 7.6
Diffuser: PMMA - Opal
Fixture Material: Extruded Aluminum / Steel

# ELECTRICAL

**Depth Spot Inserts** 

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 20.5
Total Output Wattage (W): 18
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Ves

Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

Cut-out Measurements: 635mm / 25" x 230mm / 9 1/16"

#### Driver Location: Integrated

Driver Type: Constant Current - Universal
Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 1560 / 1635 / 1710

CRI: >80 CRI

Lamp Life (hrs): 50000

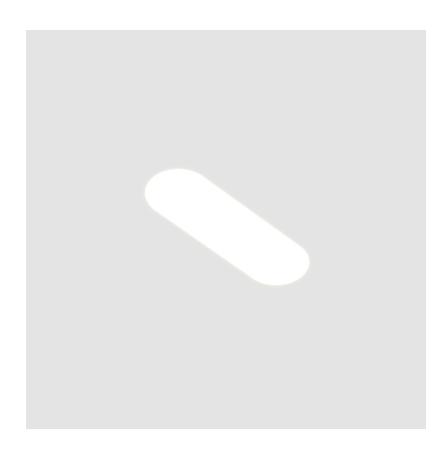
Upon Request: RGB-W Tunable White Special Color Temperature CRI90

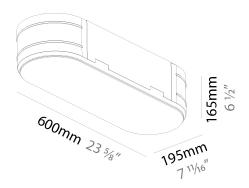
#### OPTICAL

# RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

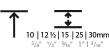
PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		









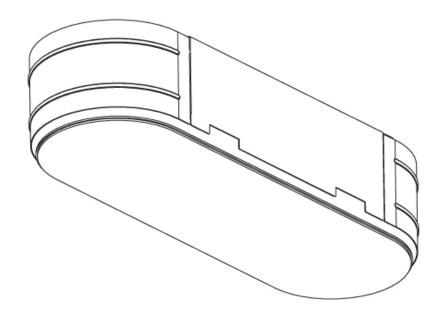






A37514-

PROJECT	
TYPE	-
SPECIFIER	_
QUANTITY	-
DATE	-







A37516-

base number

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy Subseries: Smoothline Brand: Prolicht Division: Architectural Mounting Type: Trimless Mounting Location: Ceiling

Subcategory: Ambient PHYSICAL Shape: Oval Length (mm): 900 Length (in): 35 1/16 Width (mm): 195 Width (in): 7 11/16 Depth (mm): 165 Depth (in): 6 1/2 Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30 Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1 or 1 3/16 Min. Recessing Depth (mm): 180 Min. Recessing Depth (in): 7 1/16 Light Distribution: Direct Weight (kg): 5.756 Weight (lbs): 12.66 Diffuser: PMMA - Opal Fixture Material: Extruded Aluminum / Steel

# **ELECTRICAL**

**Depth Spot Inserts** 

Lamp Type: LED (Zhaga Standard) Input Wattage (W): 31.5 Total Output Wattage (W): 27 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Cut-out Measurements: 935mm / 36 15/16" x 230mm / 9 1/16" Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2340 / 2518 / 2570

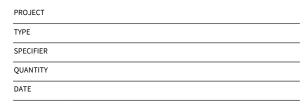
CRI: >80 CRI

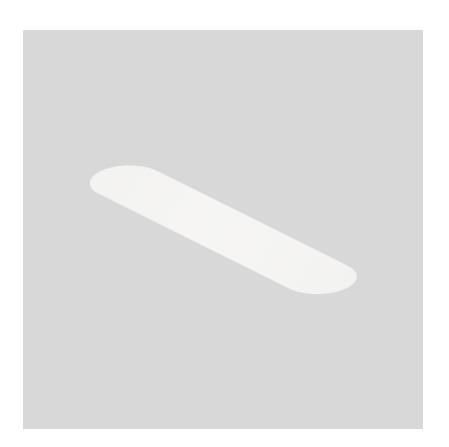
Lamp Life (hrs): 50000

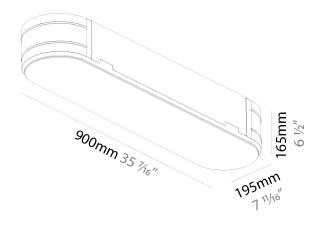
Upon Request: RGB-W Tunable White Special Color Temperature CRI90

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards











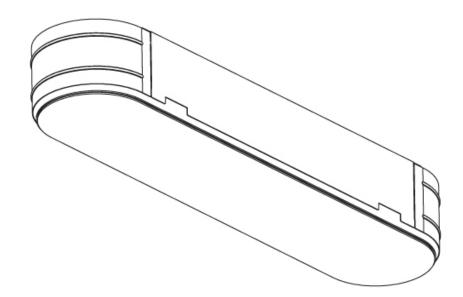






A37516-

PROJECT	
TYPE	-
SPECIFIER	_
QUANTITY	-
DATE	-







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A.D.I	31	.0-

base number

LED Dimming Color Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Trimless	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 1200
Length (in): 47 ½
Width (mm): 195
Width (in): 7 11/16
Depth (mm): 165
Depth (in): 6 ½
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1 or 1 3/16
Min. Recessing Depth (mm): 180
Min. Recessing Depth (in): 7 1/16
Light Distribution: Direct
Weight (kg): 7.6
Weight (lbs): 16.72
Diffuser: PMMA - Opal
Fixture Material: Extruded Aluminum / Steel

# ELECTRICAL

**Depth Spot Inserts** 

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 42
Total Output Wattage (W): 36
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

Cut-out Measurements: 1235mm / 48 5/8" x 230mm / 9 1/16"

# Driver Included: Yes

Driver	Location:	Integra	ted

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 3120 / 3352 / 3420

Lamp Life (hrs): 50000

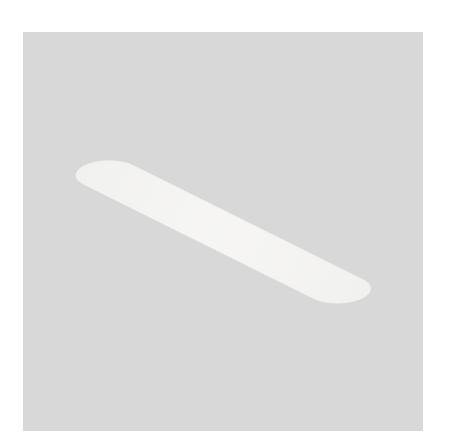
Upon Request: RGB-W Tunable White Special Color Temperature CRI90

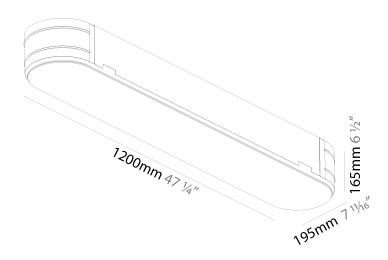
# OPTICAL

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

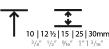
PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	







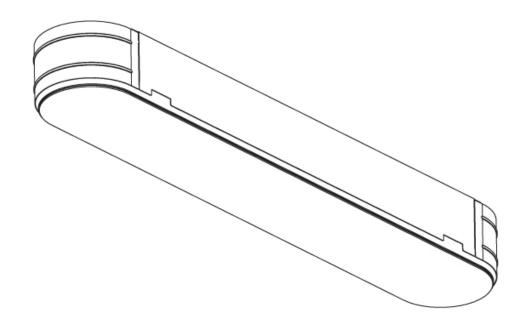








A37518-







A37520-

base number

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Trimless	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 1500
Length (in): 59 ½
Width (mm): 195
Width (in): 7 11/16
Depth (mm): 165
Depth (in): $6\frac{1}{2}$
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1 or 1 3/16
Min. Recessing Depth (mm): 180
Min. Recessing Depth (in): 7 ½
Light Distribution: Direct
Weight (kg): 9.4
Weight (lbs): 20.68
Diffuser: PMMA - Opal
Fixture Material: Extruded Aluminum / Steel
Cut-out Measurements: 1535mm / 60 7/16" x 230mm / 9 1/16"

# **ELECTRICAL**

**Depth Spot Inserts** 

Input Wattage (W): 52.5 Total Output Wattage (W): 45	Dimming: Tri-Mode (Non-land 0-10V Dimming)	Dimming and Phase Dimming (120Vac only)
Input Wattage (W): 52.5	Total Output Wattage (W):	: 45
	Input Wattage (W): 52.5	

Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

# Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120 - 277

Constant Current (MA): 500

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 3890 / 4194 / 4280

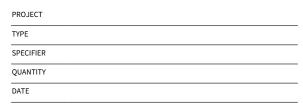
CRI: >80 CRI

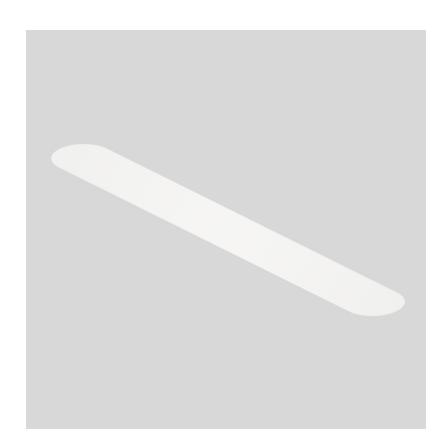
Lamp Life (hrs): 50000

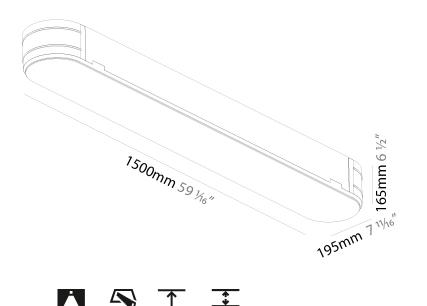
Upon Request: RGB-W Tunable White Special Color Temperature CRI90

# **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

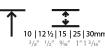










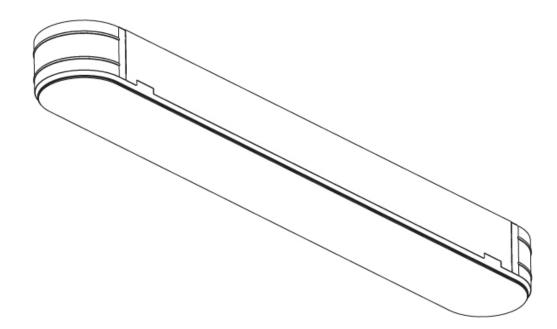






A37520-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	







# **SMOOTHY STANDARD RECESSED**

A37595	•		-	-
base number	LED Dimming	Color	Finishes	Diffuser

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

## **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

mounting Location Centing
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 392
Length (in): 15 $\frac{7}{16}$
Width (mm): 392
Width (in): 15 <sup>7</sup> / <sub>16</sub>
Height (mm): 150
Height (in): 5 1/8
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 1/16
Light Distribution: Direct
Weight (kg): 4.341
Weight (lbs): 9.57
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 375mm / 14 3/4" x 375mm / 14 3/4"

# ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 13.2
Total Output Wattage (W): 12
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

#### LED

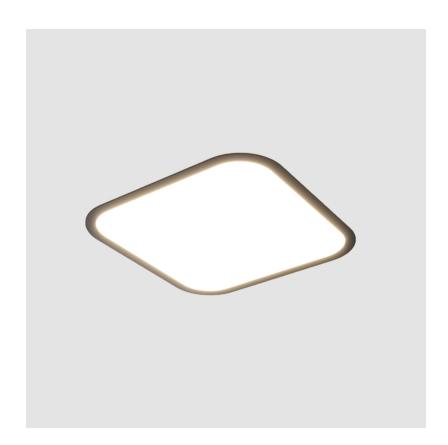
LLD	
Color Temperature (°K): 3000 / 3500 / 4000	
Max. Delivered Lumen (lm): 1380 / 1401 / 1430	
CRI: >80 CRI	
Efficiency (%): 0.827	
Lamp Life (hrs): 50000	

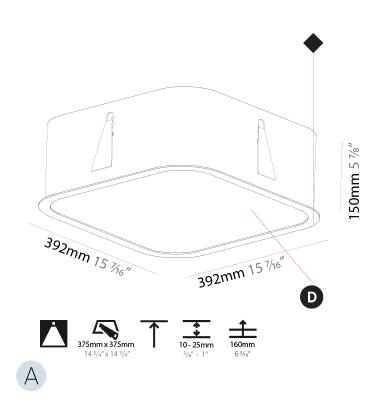
## OPTICAL

# RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			



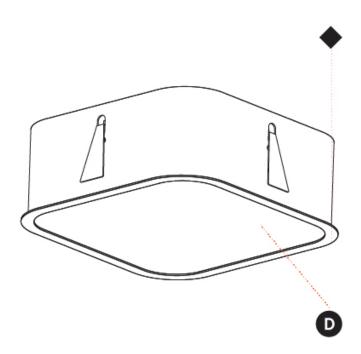




# **SMOOTHY STANDARD RECESSED**

A37595-

PROJECT
ТУРЕ
SPECIFIER
QUANTITY
DATE







	A37599						
base number LED	Color	Finishes	Diffuser				

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 622
Length (in): 24 ½
Width (mm): 622
Width (in): 24 ½
Height (mm): 150
Height (in): 5 $\frac{7}{8}$
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 5/16
Light Distribution: Direct
Weight (kg): 12.317
Weight (lbs): 27.10
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 605mm / 23 13/16" x 605mm / 23 13/16"

### **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 55
Total Output Wattage (W): 49.7
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

## LED

LED
Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 5520 / 5606 / 5720
Nominal Lumen (lm): 6680lm
CRI: >80 CRI
Efficiency (%): 0.827
Lamp Life (hrs): 50000

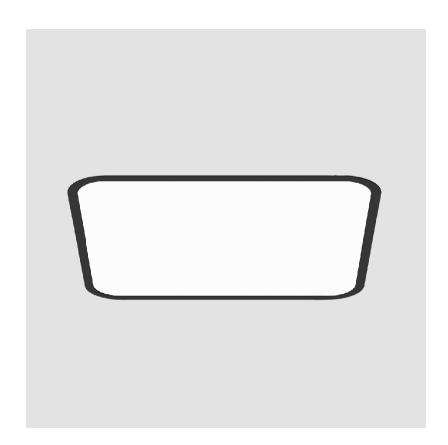
## OPTICAL

## RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP20

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		



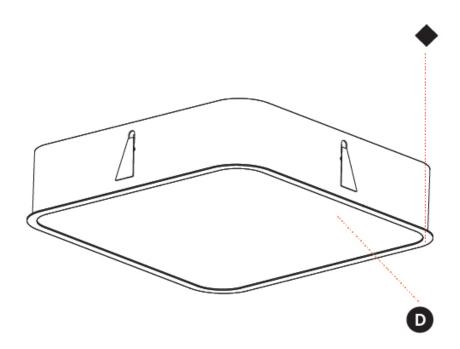


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A37599-

PROJECT	
TYPE	-
SPECIFIER	_
QUANTITY	-
DATE	-







A37603					
base number	LED Dimming	Color Temperature	Finishes (Diamond)	Diffuser	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy
Subseries: Smoothy Standard
Brand: Prolicht
Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Ambient

Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 1222
Length (in): 48 1/8
Width (mm): 622
Width (in): 24 ½
Height (mm): 150
Height (in): 5 1/8
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 1/16
Light Distribution: Direct
Weight (kg): 24.4
Weight (lbs): 53.68
Diffuser: PMMA - Opal or Micro-Prism

Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 1205mm / 47 7/16" x 605mm / 23 13/16"

### **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 108.9
Total Output Wattage (W): 99
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

Color Temperature (°K): 3000 / 3500 / 4000	
Max. Delivered Lumen (lm): 11050 / 11221 / 11450	
CRI: >80 CRI	
Efficiency (%): 0.827	
Lamp Life (hrs): 50000	

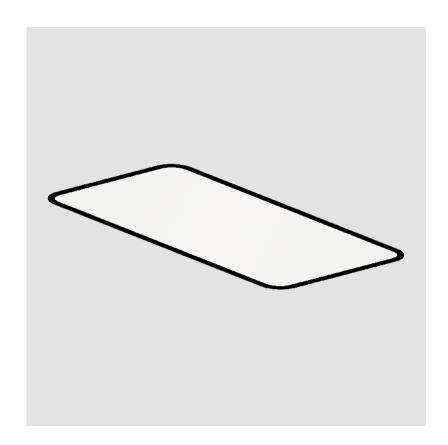
#### OPTICAL

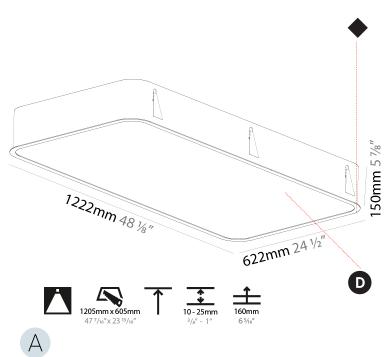
### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP20







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A37603-

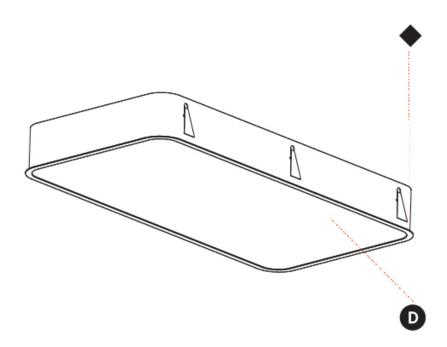
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE







# **SMOOTHY STANDARD TRIMLESS**

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		-	•	-	•	•	_

base number

LED Dimming Color Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Trimless	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division. Architecturat
Mounting Type: Trimless
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 600
Length (in): 23 <sup>5</sup> / <sub>8</sub>
Width (mm): 600
Width (in): 23 ½
Depth (mm): 156
Depth (in): 6 1/8
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25 / 30
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 180
Min. Recessing Depth (in): 7 1/16
Light Distribution: Direct
Weight (kg): 12.549
Weight (lbs): 27.61
Diffuser: PMMA - Opal
Fixture Material: Extruded Aluminum / Steel
Cut-out Measurements: 635mm / 25" x 635mm / 25"

#### ELECTRICAL

**Depth Spot Inserts** 

ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 55
Total Output Wattage (W): 49.7
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

Upon Request: Unique Sizes Unique Ceiling Thickness Unique Mounting

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 5370 / 5449 / 5560

CRI: >80 CRI

Efficiency (%): 65 (5mm Perspex) / 80.40

Lamp Life (hrs): 50000

Upon Request: RGB-W Tunable White Special Color Temperature CRI90

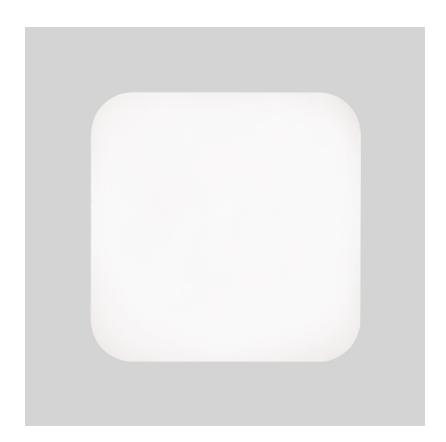
#### OPTICAL

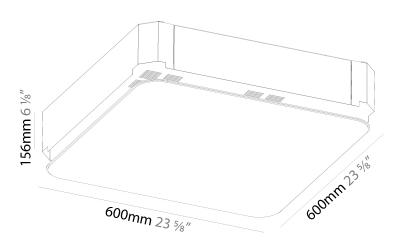
#### **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

IP rating: IP20

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	













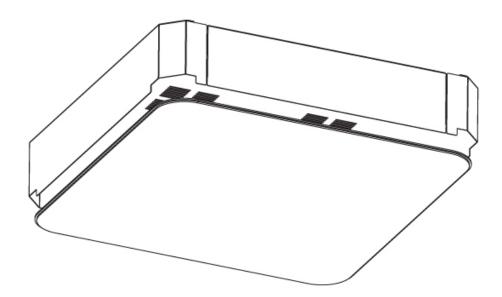




# **SMOOTHY STANDARD TRIMLESS**

A37652-

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			





# **ZANEEN**<sub>®</sub>

# **SMOOTHLINE RECESSED**

A37749	-		-	-	
base number	LED	Color	Finishes	Diffuser	
	Dimming	Temperature	(Diamond)	Ontions	

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 652
Length (in): 25 11/16
Width (mm): 222
Width (in): 8 ¾
Depth (mm): 150
Depth (in): 5 1/8
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 1/16
Light Distribution: Direct
Weight (kg): 4.033
Weight (lbs): 8.87
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

 ${\sf MEY/GOH/GUM/CHC/COM/ABZ/JAG/OBR/MOS/ROR}$ 

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 635mm / 25" x 205mm / 8 1/16"

### **ELECTRICAL**

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 21
Total Output Wattage (W): 18
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 500
LED

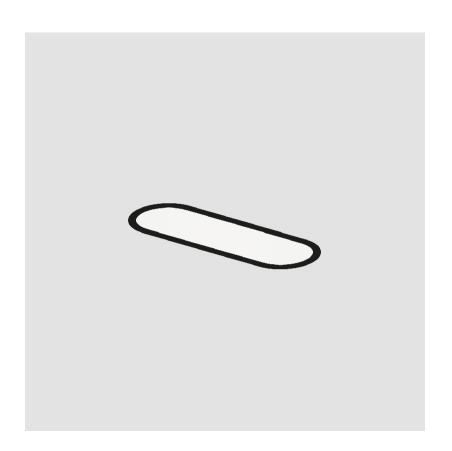
#### LED

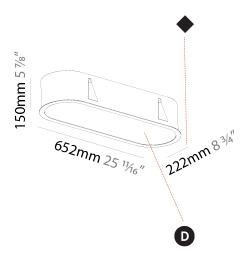
Color Temperature (°K): 3000 / 3500 / 4000	
Max. Delivered Lumen (lm): 1430 / 1539 / 1570	
CRI: >80 CRI	
Lamp Life (hrs): 50000	

#### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	















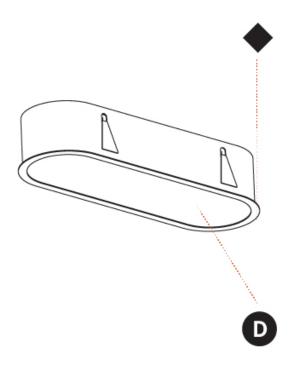




# **SMOOTHLINE RECESSED**

A37749-

PROJECT			
TYPE			
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QUANTITY			
DATE			





# **ZANEEN**®

# **SMOOTHLINE RECESSED**

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base number

Color Finishes Diffuser Temperature (Diamond) Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 952
Length (in): 37 ½
Width (mm): 222
Width (in): 8 <sup>3</sup> / <sub>4</sub>
Depth (mm): 150
Depth (in): 5 $\frac{7}{8}$
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 $\frac{5}{16}$
Light Distribution: Direct
Weight (kg): 5.93
Weight (lbs): 13.05
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR /

MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 935mm / 36 13/16" x 205mm / 8 1/16"

### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 31.9
Total Output Wattage (W): 27
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 500

#### LED

Color Temperature (°K): 3000 / 3500 / 4000

Max. Delivered Lumen (lm): 2140 / 2303 / 2350

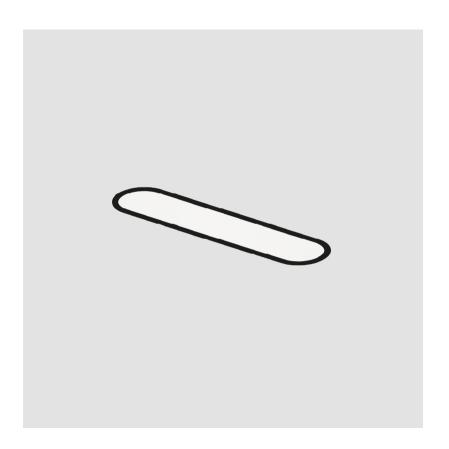
CRI: >80 CRI

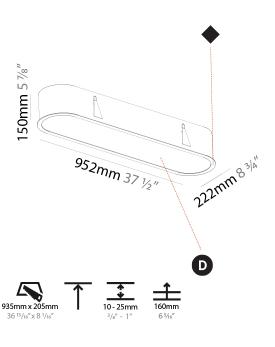
Lamp Life (hrs): 50000

#### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT	
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SPECIFIER	
QUANTITY	
DATE	





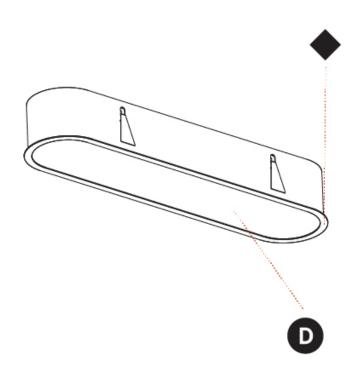




# **SMOOTHLINE RECESSED**

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# **ZANEEN**®

# **SMOOTHLINE RECESSED**

A37757-	•	-	-	-
base number	LED	Color	Finishes	Diffuser

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 1252
Length (in): 49 <sup>5</sup> / <sub>16</sub>
Width (mm): 222
Width (in): 8 <sup>3</sup> / <sub>4</sub>
Depth (mm): 150
Depth (in): 5 \( 7/8 \)
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): 6 1/16
Light Distribution: Direct
Weight (kg): 7.634
Weight (lbs): 16.80
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR MIC / FTG / MYG / TWT / LOD / PLIS / FRO / FLIP / KIA / POP / RLS / SPG /

MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 1235mm / 48 5/8" x 205mm / 8 1/16"

### **ELECTRICAL**

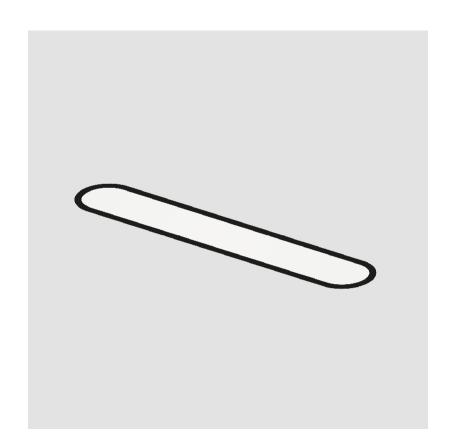
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 41.8
Total Output Wattage (W): 36
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 500
LED

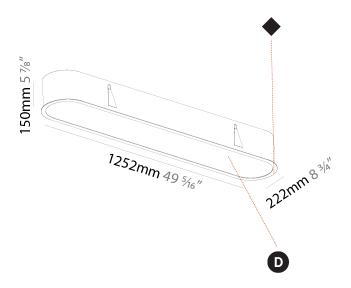
Color Temperature (°K): 3000 / 3500 / 4000	
Max. Delivered Lumen (lm): 2860 / 3077 / 3140	
CRI: >80 CRI	
Lamp Life (hrs): 50000	

#### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		















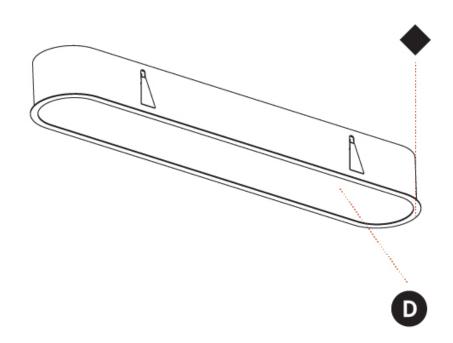




# **SMOOTHLINE RECESSED**

A37757-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	





# **ZANEEN**®

# **SMOOTHLINE RECESSED**

A37761-	•		-	-	
base number	LED Dimming	Color	Finishes	Diffuser	

 ${\it 1. To \ build \ a \ product \ code \ in \ our \ configurator \ select \ the \ specify \ button \ on}}$ the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothline	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Recessed	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Oval
Length (mm): 1552
Length (in): $61\frac{1}{8}$
Width (mm): 222
Width (in): 8 <sup>3</sup> / <sub>4</sub>
Depth (mm): 150
Depth (in): 5 $\frac{7}{8}$
Ceiling Thickness (mm): 10 / 12.5 / 15 / 25
Ceiling Thickness (in): 3/8 or 1/2 or 9/16 or 1
Min. Recessing Depth (mm): 160
Min. Recessing Depth (in): $6\frac{5}{16}$
Light Distribution: Direct
Weight (kg): 8.895
Weight (lbs): 19.57
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

Cut-out Measurements: 1535mm / 60 7/16" x 205mm / 8 1/16"

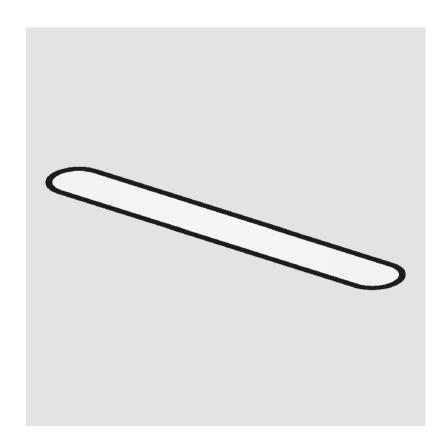
ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 52.8
Total Output Wattage (W): 45
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 500
LED

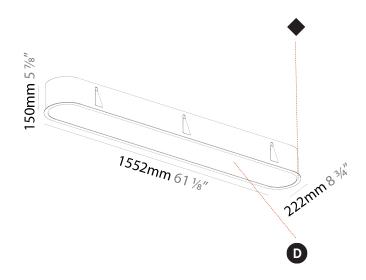
Color Temperature (°K): 3000 / 3500 / 4000 Max. Delivered Lumen (lm): 3570 / 3842 / 3920 CRI: >80 CRI Lamp Life (hrs): 50000

### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		



















# **SMOOTHLINE RECESSED**

A37761-

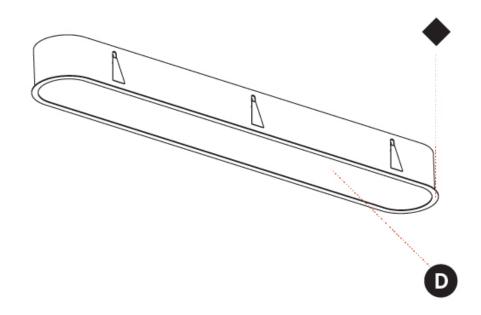
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE







# **SMOOTHY STANDARD SURFACE**

A3C005	-		_	-	
base number	LED	Color	Finishes (Diamond)	Diffuser	_

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Standard	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Surface
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 600
Length (in): 23 <sup>5</sup> / <sub>8</sub>
Width (mm): 600
Width (in): 23 <sup>5</sup> / <sub>8</sub>
Height (mm): 120
Height (in): 4 1/4
Light Distribution: Direct
Weight (kg): 11.315
Weight (lbs): 24.89
Diffuser: PMMA - Opal or Micro-Prism
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG /

MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

### **ELECTRICAL**

Lamp Type: LED (Zhaga Standard) Input Wattage (W): 55 Total Output Wattage (W): 49.7 Dimming: Non-Dimmable Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 350 Upon Request: (Not included - see components) Integral: 0-10Vdc

Color Temperature (°K): 3000 / 3500 / 4000 Max. Delivered Lumen (lm): 5520 / 5606 / 5720 CRI: >80 CRI Efficiency (%): 0.867 Lamp Life (hrs): 50000

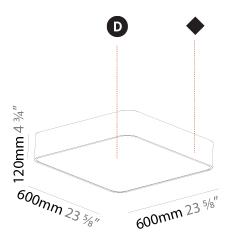
#### OPTICAL

#### RATINGS AND CERTIFICATIONS

dimming / Phase dimming 120Vac only

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			







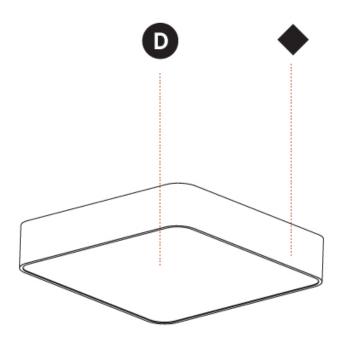




# **SMOOTHY STANDARD SURFACE**

A3C005-









A3D050-	•		-
base number	LED	Color	Finishes
	Dimming	Temperature	(Diamond)

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Smoothy	
Subseries: Smoothy Flat	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural
Mounting Type: Surface
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Square
Length (mm): 370
Length (in): 14 %
Height (mm): 370
Depth (mm): 60
Height (in): 14 % 16
Depth (in): 2 <sup>3</sup> / <sub>8</sub>
Light Distribution: Direct
Weight (kg): 3.16
Weight (lbs): 6.94
Diffuser: PMMA - Opal
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR

Fixture Material: Extruded Aluminum / Steel

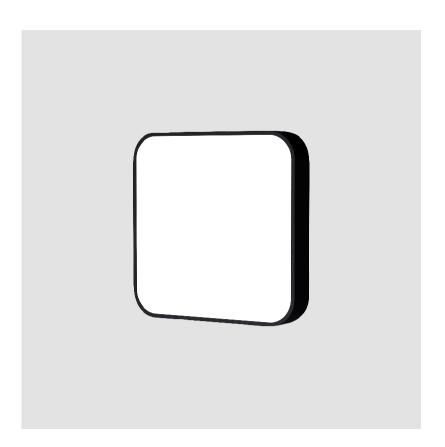
ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 13.2
Total Output Wattage (W): 12
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc

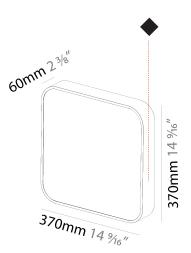
Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1200 / 1225 / 1250
CRI: >80 CRI
Lamp Life (hrs): 50000

## OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	



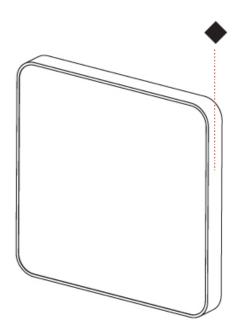






A3D050-









A3D052	!-		_
base number	LED	Color	Finishes
	Dimming	Temperature	(Diamond)

1.To build a product code in our configurator select the specify button on the base model # product page

2. To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### **GENERAL**

Series: Smoothy	
Subseries: Smoothy Flat	
Brand: Prolicht	
Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Architectural	
Mounting Type: Surface	
Mounting Location: Ceiling	
Subcategory: Ambient	
PHYSICAL	
Shape: Square	
Length (mm): 600	
Length (in): 23 ½	
Height (mm): 600	
Depth (mm): 60	
Height (in): 23 <sup>5</sup> / <sub>8</sub>	
Depth (in): 2 <sup>3</sup> / <sub>8</sub>	
Light Distribution: Direct	
Weight (kg): 8.458	
Weight (lbs): 18.61	
Diffuser: PMMA - Opal	
Fixture Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUI MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG / OBR / MOS / ROR	

Fixture Material: Extruded Aluminum / Steel

ELECTRICAL
Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 55
Total Output Wattage (W): 49.7
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming / Phase dimming 120Vac only

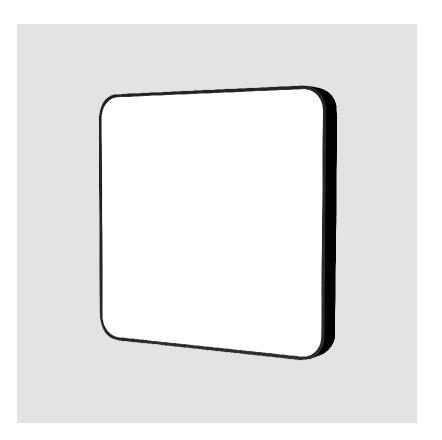
## LED

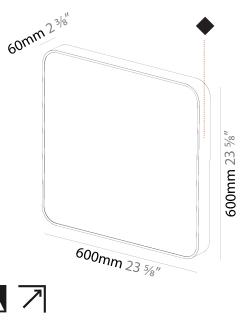
Color Temperature (°K): 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 4810 / 4880 / 4980
CRI: >80 CRI
Lamp Life (hrs): 50000

## OPTICAL

#### **RATINGS AND CERTIFICATIONS**

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		



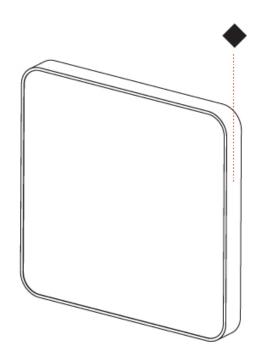






A3D052-









# **SMOOTHY**

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	

#### **Fixture Finish**



Digital: Not all screens are calibrated the same, and therefore, colors will appear differently betwee Physical: When texture is involved, there will be variations in color, character and tone within a pro



and between product families.



# **SMOOTHY**

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

# **LEGEND**

F		_			special LED (upon request) RGR_RGRW_tunable
<u></u>	floor-mounted	¥	pivotable	*	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
7	wall and ceiling: recessed and surface mounted	S	rotating	0	warm dim / natural dimming LED
$\uparrow$	ceiling-mounted and wall-mounted	Œ	illuminate tilted	0	rechargeable battery powered
$\rightarrow$	wall-mounted	I	color of suspension cable		fixture with natural vivid LED (upon request)
Y	omni-directional light distribution	<b>←</b>	length of suspension cable	CRI	color rendering index
À	direct light distribution		reflector degree selection	<b>℃</b> K	color temperature
X	direct/indirect light distribution	s s	super spot	LM	lumen (luminous flux)
Y	indirect light distribution	*	lens	₩	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
Ā	aura light distribution	0	shine ring	*	marine grade (AISI 316 stainless steel)
R	round wall or ceiling cut-out	0	integrated shine ring with diffuser	30	walk on
Z)	square wall or ceiling cut-out	Ġ	free individual colors 01-29	<b>②</b>	drive on
4	the supplied jig specifies the cutout dimensions	6	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
<b>□</b> **	minimum distance (meters) lamp - object	<b>♦</b>	luminaire part to be colored (F1)	Ġ	Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
$\hat{\pm}$	recessed depth	lack	luminaire part to be colored (F2)		lamp protected against explosion
<b>1</b>	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
1	ceiling thickness selection		luminaire part to be colored (F4)	<b>●</b> ®	acoustic material
	dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	•	luminaire part to be colored (F5)		protection class I, protection insulation
<b>₩</b>	included or excluded LED driver/transformer/ control gear	•	color of 3-circuit adaptor		protection class II, protection insulation
8	separately switchable	$\odot$	indirect diffuser		ETL Certified to UL and CSA Standards
<b>9</b>	sensor	O	direct diffuser	շ <b>(</b> Մ) սո	UL Certified to UL and CSA Standards
	remote control	$\oplus$	ball-proof (upon request)	<b>(II</b> )	CSA Certified to UL and CSA Standards
9	available upon request	0	accessory	<b>Z</b>	Certified for North American Standards

# **IP RATING**

IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
IP65	protected against ingress of dust protected against jets of water
IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

# **IK RATING**

above the surface)

IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)			
IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)			
IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)			
IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)			
IKO6	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)			
IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)			
IK08	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)			
IK09)	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)

protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm