

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## CONFUSIONE SUSPENSION

### D131000

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Curves  
 Diameter (mm): 750  
 Diameter (in): 29 1/2  
 Height (mm): 1500  
 Height (in): 59 1/16  
 Max. Overall Height (mm): 1500  
 Max. Overall Height (in): 59 1/16  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum  
 Cable Details: 3 Steel Cable 2000mm

#### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: Non-Dimmable  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - 120Vac  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Lamp Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / 277Vac

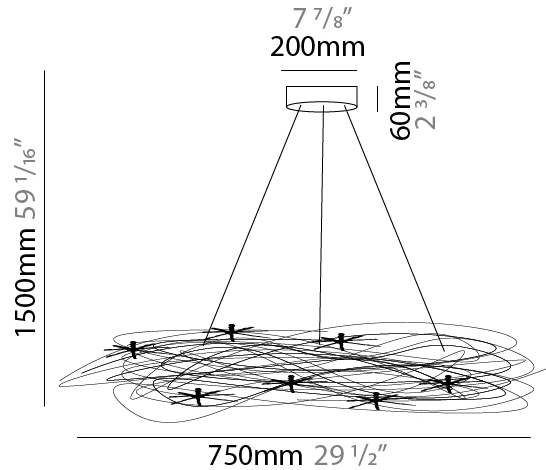
#### LED

Number of LEDs: 10  
 Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



## CONFUSIONE SUSPENSION

D131000

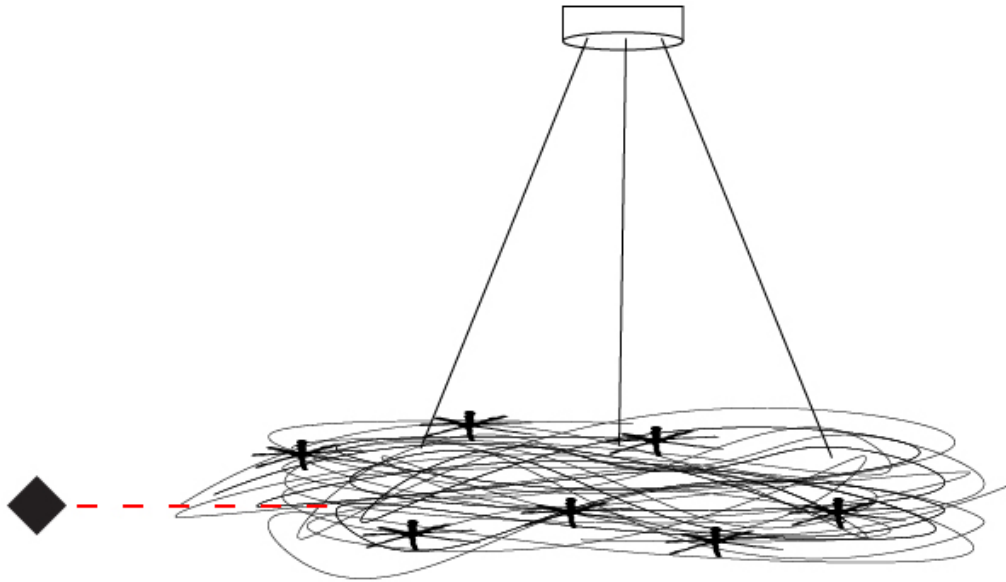
PROJECT

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D

## CONFUSIONE SUSPENSION

### D131001

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Curves  
 Diameter (mm): 1000  
 Diameter (in): 39 <sup>3</sup>/<sub>16</sub>  
 Height (mm): 1500  
 Height (in): 59 <sup>1</sup>/<sub>16</sub>  
 Max. Overall Height (mm): 1500  
 Max. Overall Height (in): 59 <sup>1</sup>/<sub>16</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum  
 Cable Details: 3 Steel Cable 2000mm

#### ELECTRICAL

Number of Lamps: 15  
 Lamp Type: LED  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 15  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - 120Vac  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Lamp Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / 277Vac

#### LED

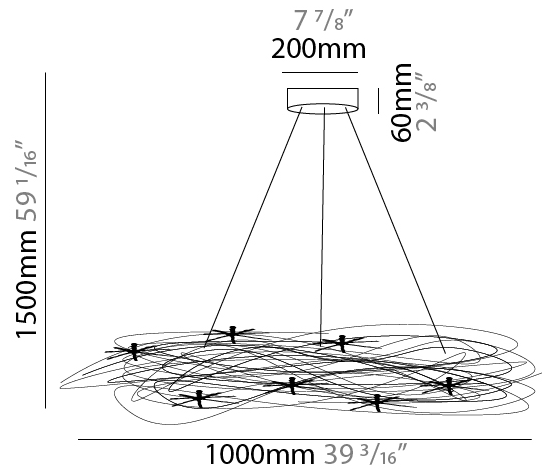
Number of LEDs: 15  
 Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 1200  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

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## CONFUSIONE SUSPENSION

D131001

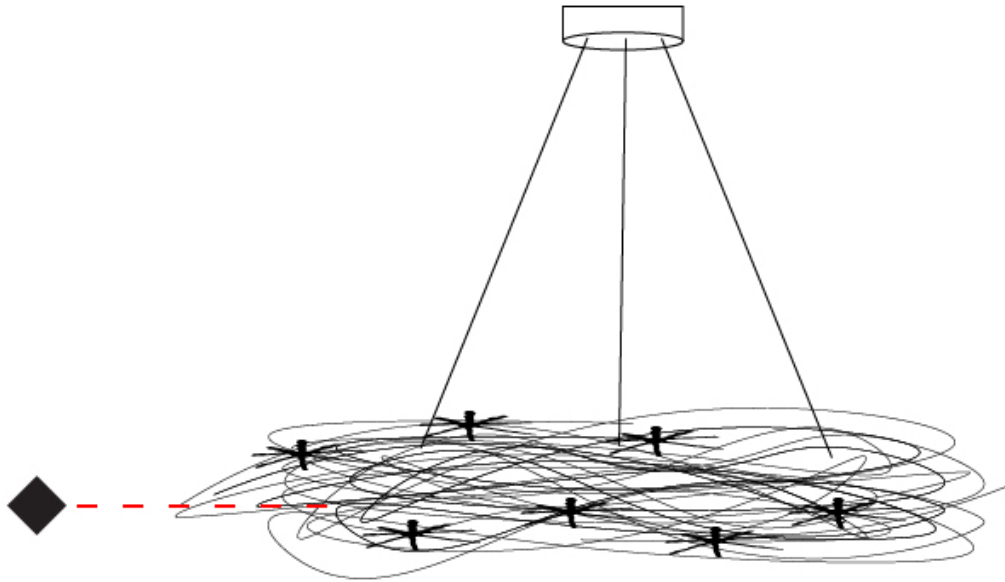
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## CONFUSIONE SUSPENSION

### D131145

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Pendant

#### PHYSICAL

Shape: Round  
 Diameter (mm): 500  
 Diameter (in): 19 11/16  
 Light Distribution: Direct / Indirect  
 Fixture Material: Anodized Aluminum  
 Cable Details: 3 Steel Cable 1500m / 59 1/16"

#### ELECTRICAL

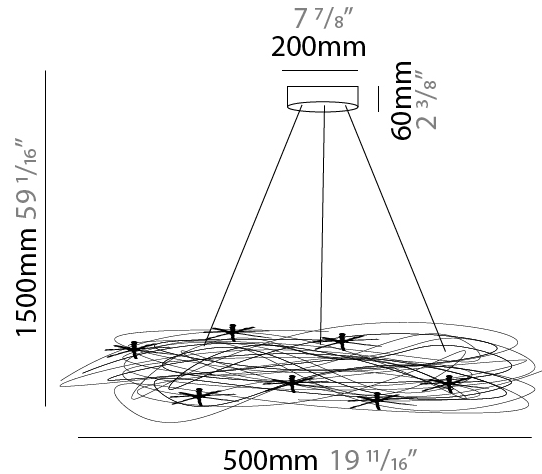
Number of Lamps: 10  
 Lamp Type: LED  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Remote  
 Driver Type: Constant Voltage - 120Vac  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / 277Vac

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



## CONFUSIONE SUSPENSION

D131145

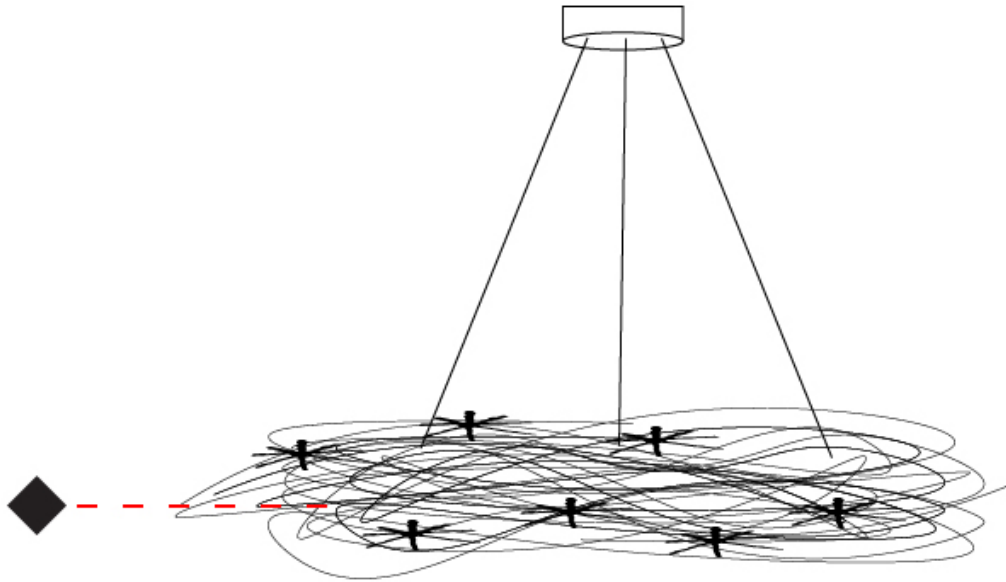
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D

## CONFUSIONE SUSPENSION

### D131271

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Round  
 Diameter (mm): 750  
 Diameter (in): 29 1/2  
 Extension (mm): 2000  
 Extension (in): 78 3/4  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum  
 Cable Details: 3 Silicon Cable 2000mm / 78 3/4

#### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Input Wattage (W): 12  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Lamp Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral Non-dimming 277Vac

#### LED

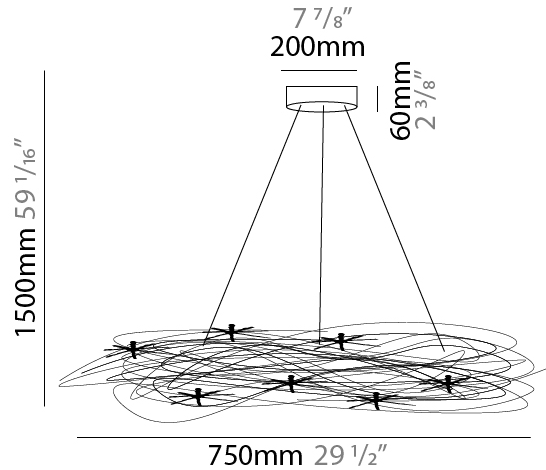
Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

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D131271

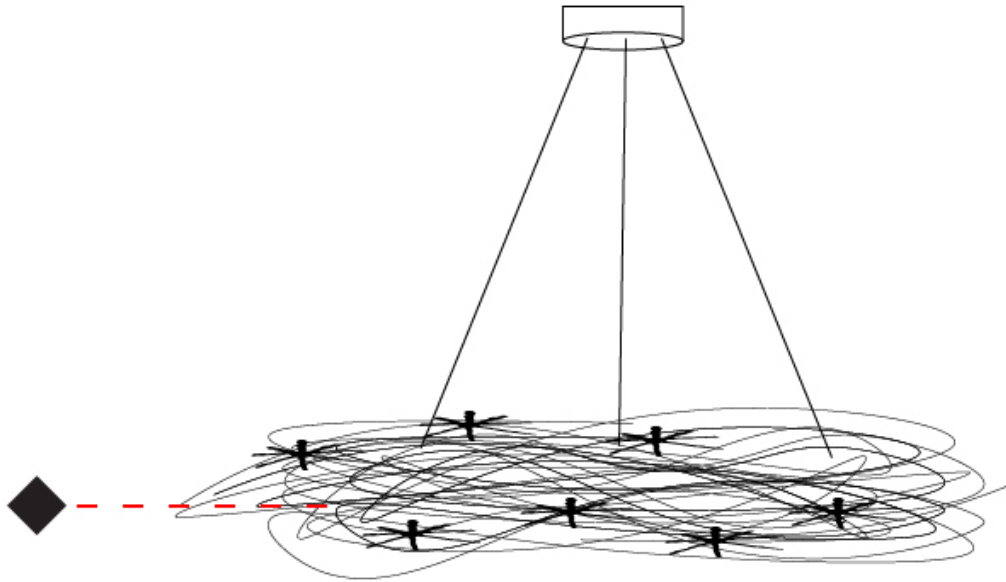
PROJECT

TYPE

SPECIFIER

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D



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## CONFUSIONE SUSPENSION

### D131272

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Round  
 Diameter (mm): 1000  
 Diameter (in): 39 <sup>3</sup>/<sub>8</sub>  
 Extension (mm): 2000  
 Extension (in): 78 <sup>3</sup>/<sub>4</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum  
 Cable Details: Silicon Cable 2000mm / 78 3/4

#### ELECTRICAL

Number of Lamps: 25  
 Lamp Type: LED  
 Input Wattage (W): 30  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 25  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Lamp Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral Non-dimming 277Vac

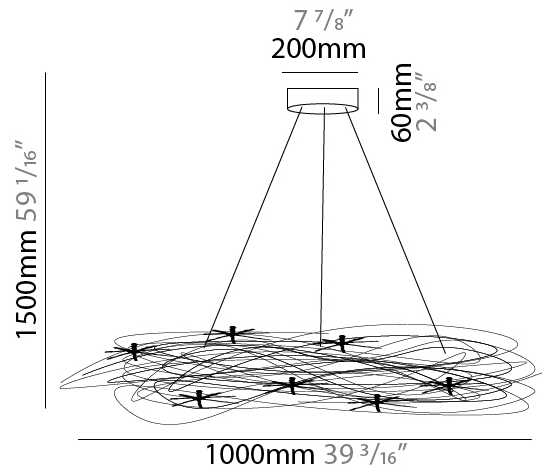
#### LED

Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 2000  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



## CONFUSIONE SUSPENSION

D131272

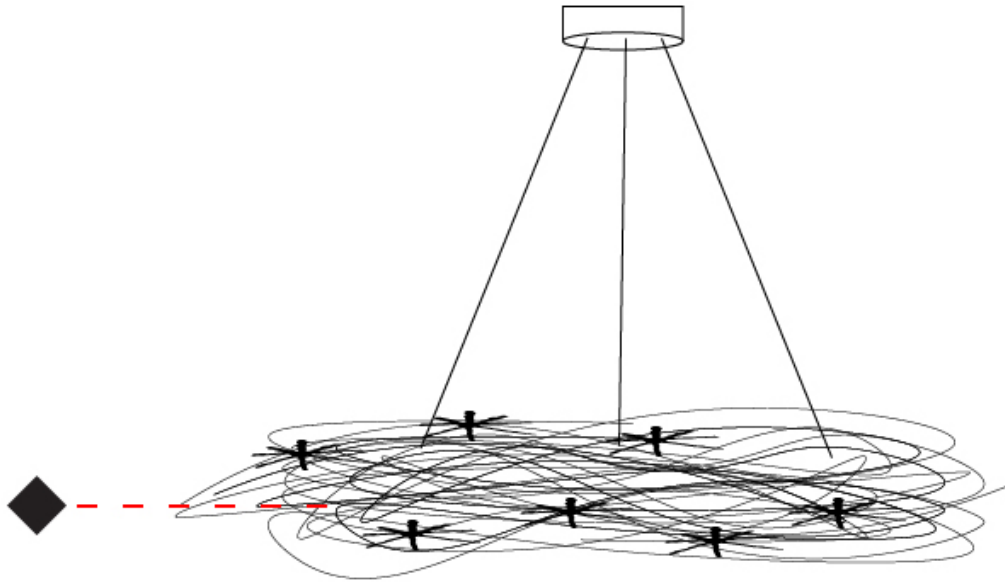
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

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## CONFUSIONE SUSPENSION

**D131273**

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Pendant

### PHYSICAL

Shape: Round  
 Diameter (mm): 500  
 Diameter (in): 19 11/16  
 Extension (mm): 2000  
 Extension (in): 78 3/4  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum  
 Cable Details: Silicon Cable 2000mm / 78 3/4

### ELECTRICAL

Number of Lamps: 20  
 Lamp Type: LED  
 Input Wattage (W): 24  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 20  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral Non-dimming 277Vac

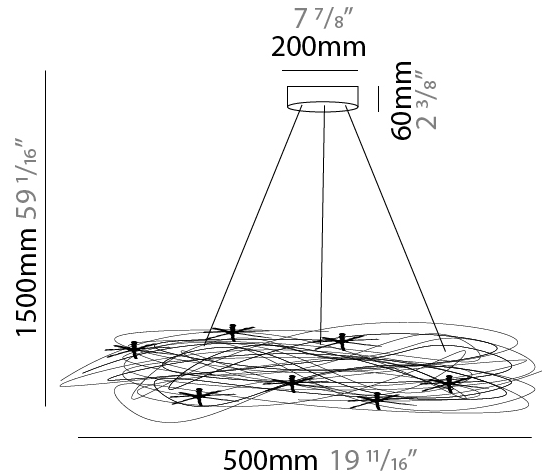
### LED

Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 1600  
 CRI: >80 CRI

### OPTICAL

### RATINGS AND CERTIFICATIONS

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



D131273

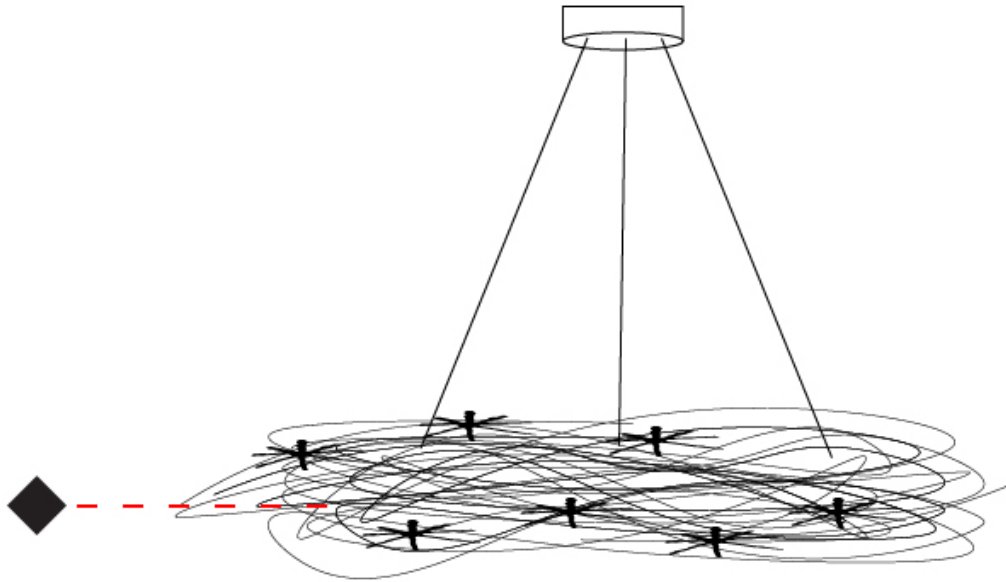
PROJECT

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D

## CONFUSIONE SURFACE

### D132000

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Round  
 Diameter (mm): 500  
 Diameter (in): 19 <sup>11</sup>/<sub>16</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Aluminum

#### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Input Wattage (W): 12  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

#### LED

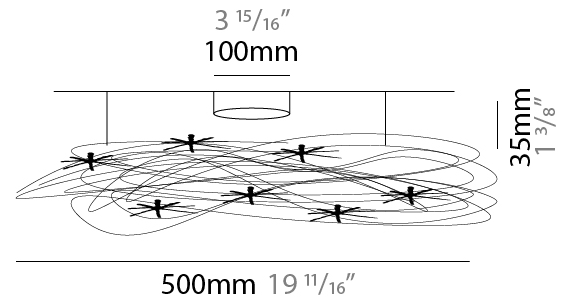
Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

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D132000

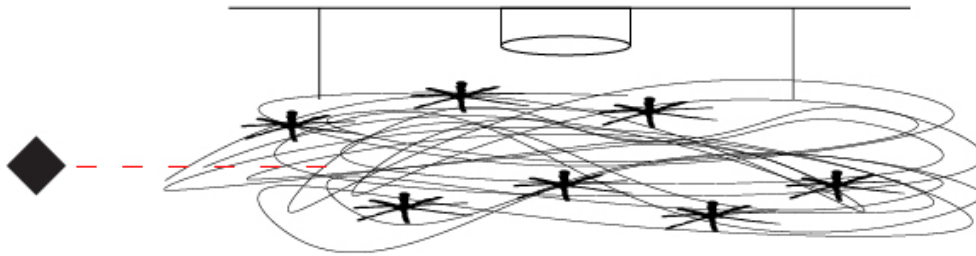
PROJECT

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SPECIFIER

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## CONFUSIONE SURFACE

### D132001

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Round  
 Diameter (mm): 750  
 Diameter (in): 29 1/2  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Aluminum

#### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Input Wattage (W): 12  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

#### LED

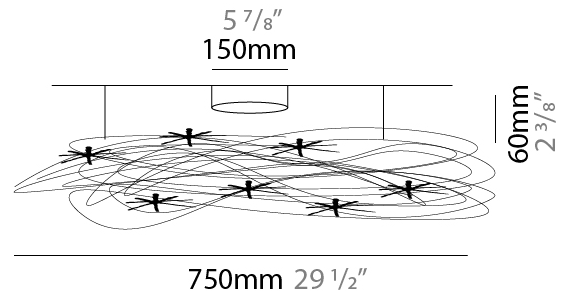
Number of LEDs: 10  
 Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

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D132001

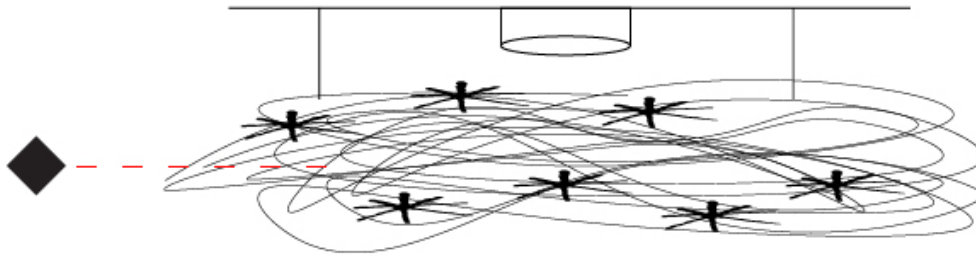
PROJECT

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D



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## CONFUSIONE SURFACE

### D132002

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Round  
 Diameter (mm): 1000  
 Diameter (in): 39 <sup>3</sup>/<sub>8</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Aluminum

#### ELECTRICAL

Number of Lamps: 15  
 Lamp Type: LED  
 Input Wattage (W): 18  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 15  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

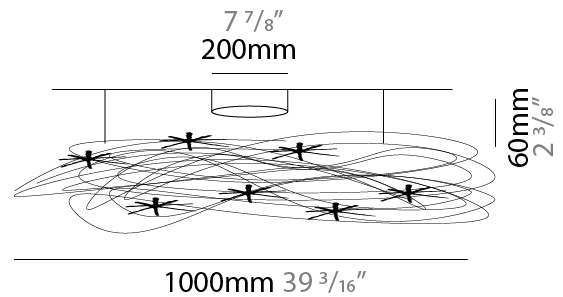
#### LED

Number of LEDs: 15  
 Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 1200  
 CRI: >80 CRI

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



D132002

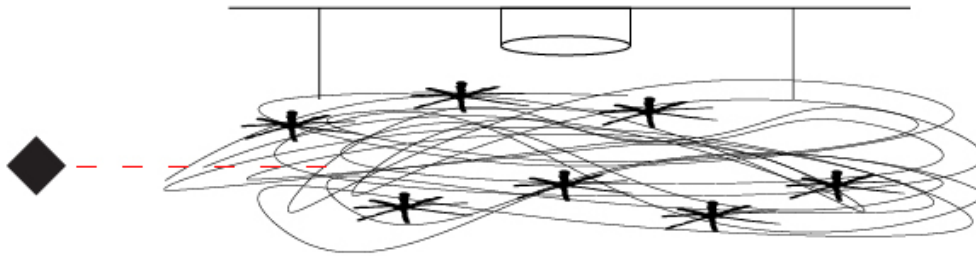
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D

## CONFUSIONE SURFACE

**D132069**

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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

### PHYSICAL

Shape: Curves  
 Diameter (mm): 500  
 Diameter (in): 16 <sup>11</sup>/<sub>16</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum

### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Input Wattage (W): 12  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

### LED

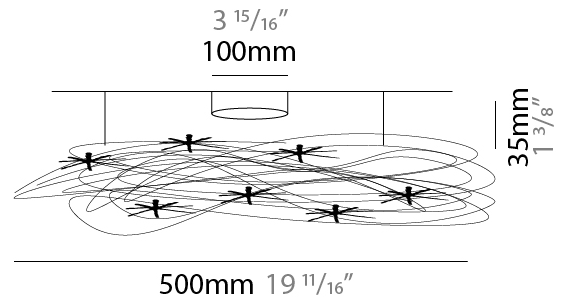
Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800  
 CRI: >80 CRI

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

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D132069

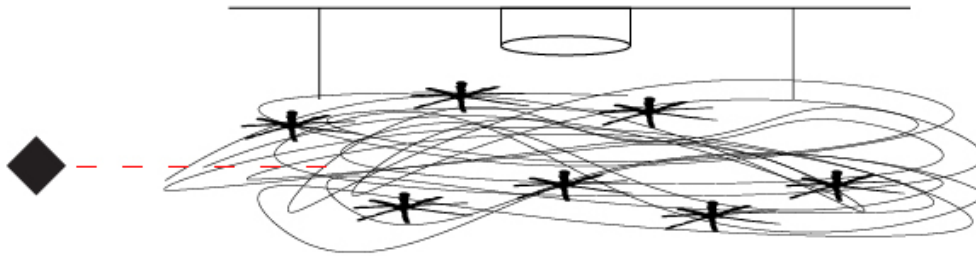
PROJECT

TYPE

SPECIFIER

QUANTITY

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D

## CONFUSIONE SURFACE

**D132070**

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

### PHYSICAL

Shape: Curves  
 Diameter (mm): 750  
 Diameter (in): 29 1/2  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum

### ELECTRICAL

Number of Lamps: 10  
 Lamp Type: LED  
 Input Wattage (W): 12  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 10  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Lamp Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

### LED

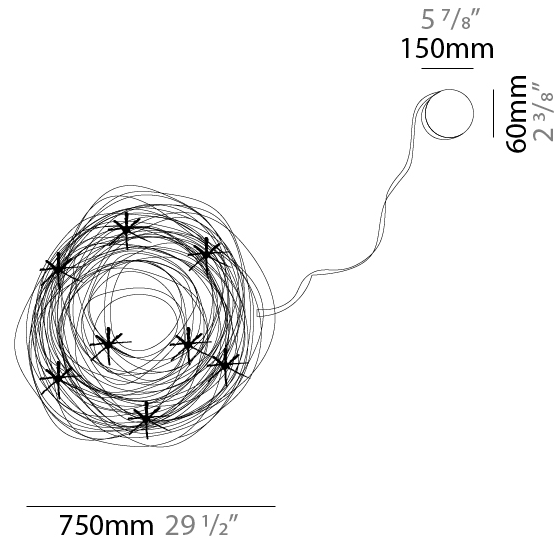
Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 800  
 CRI: >80 CRI

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

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D132070

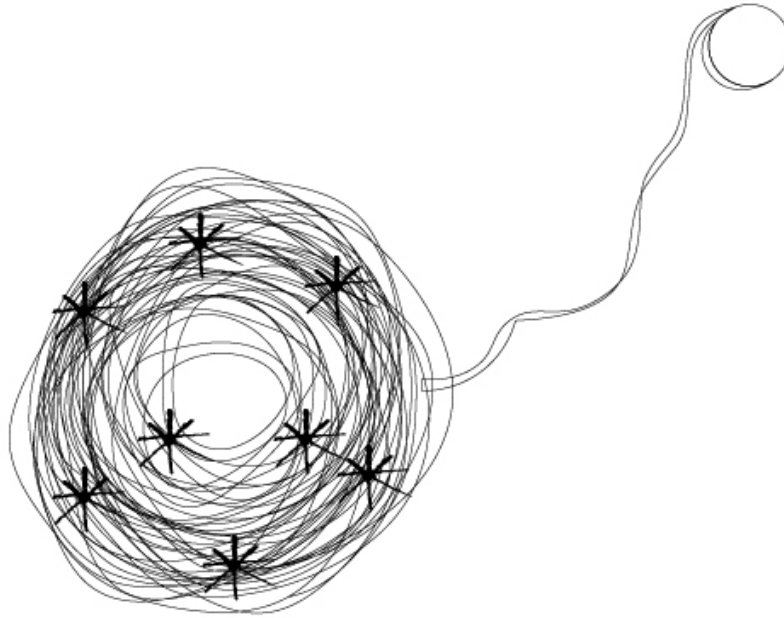
PROJECT

TYPE

SPECIFIER

QUANTITY

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## CONFUSIONE SURFACE

**D132071**

base number

- To build a product code in our configurator select the specify button on the base model # product page
- 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: Confusione  
 Brand: Knikerboker  
 Division: Design  
 Mounting Type: Surface  
 Mounting Location: Ceiling  
 Subcategory: Ambient

### PHYSICAL

Shape: Curves  
 Diameter (mm): 1000  
 Diameter (in): 39 <sup>3</sup>/<sub>8</sub>  
 Light Distribution: Direct / Indirect  
 Fixture Finish: ANA  
 Fixture Material: Anodized Aluminum

### ELECTRICAL

Number of Lamps: 15  
 Lamp Type: LED  
 Input Wattage (W): 18  
 Bulb Included: Bulb Included  
 Total Output Wattage (W): 15  
 Max. Wattage Per Lamp (W): 1  
 Lamp Base: G4  
 Dimming: 0-10V Dimming / Phase Dimming (120Vac Only)  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Voltage - Universal  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Output Voltage (V): 12  
 Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / (Included) Integral: Non-dimming 277Vac

### LED

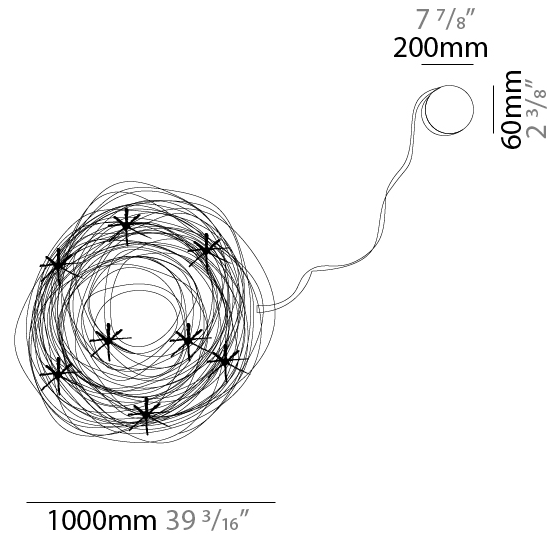
Color Temperature (°K): 3000  
 Max. Delivered Lumen (lm): 1200  
 CRI: >80 CRI

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



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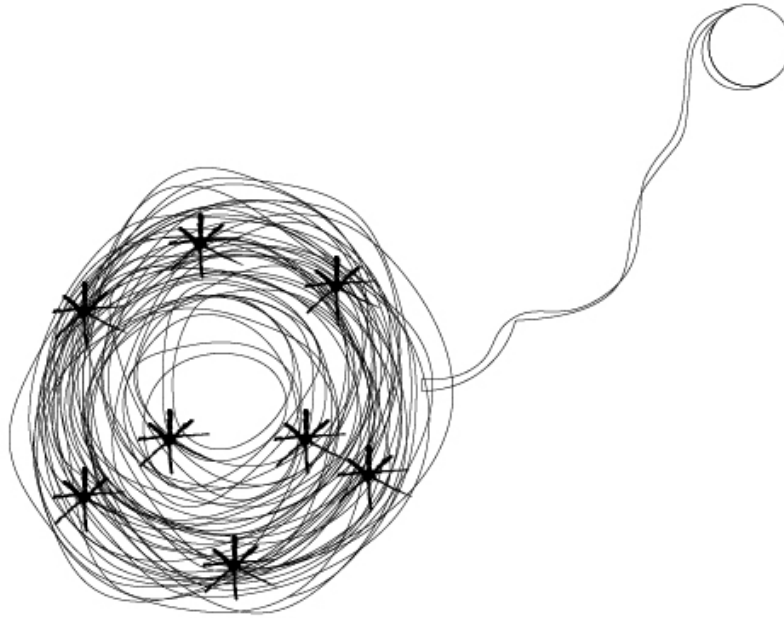
PROJECT

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### Fixture Finish

Aluminum Natural Anodized - ANA



**Digital:** Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

**Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.



### LEGEND

 floor-mounted	 pivotable	 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

 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

 IK01	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm 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)
 IK06	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)
 IK10	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)