

## D101679-

base number

Temperature 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: Sirio	
Subseries: Sirio Disc	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcatagon: Ambient	

Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Diameter (mm): 1300
Diameter (in): 51 $\frac{3}{16}$
Height (mm): 400
Height (in): 15 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2400
Max. Overall Height (in): 94 ½
Light Distribution: Omnidirectional
Weight (kg): 6.5
Weight (lbs): 14.3
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Cable Details: 2000mm Cable

**Upon Request: Custom Sizes** 

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 78
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

LED
Number of LEDs: 130
Color Temperature (°K): 2400 / 2800
Max. Delivered Lumen (lm): 3900 (2800K)
CRI: >90 CRI
Lamp Life (hrs): 50000

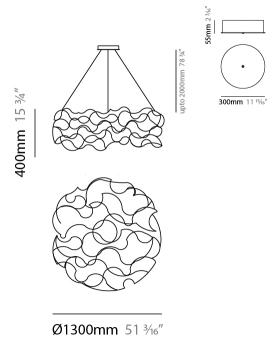
### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

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





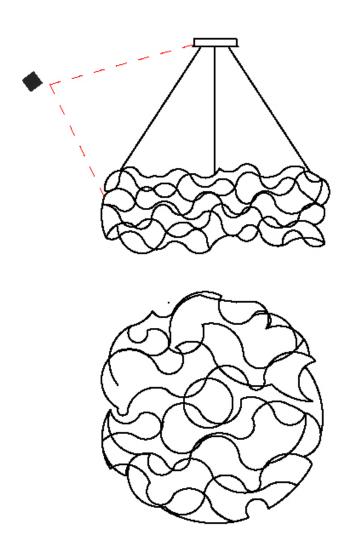






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D101680	-		-	
base number	LED	Color	Finish	

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: Sirio	
Subseries: Sirio Disc	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Diameter (mm): 2000
Diameter (in): 78 <sup>3</sup> / <sub>4</sub>
Height (mm): 400
Height (in): 15 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2400
Max. Overall Height (in): 94 ½
Light Distribution: Omnidirectional
Weight (kg): 6
Weight (lbs): 13.2
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Cable Details: 2000mm Cable
Upon Request: Custom Sizes
FLECTRICAL

Upon Request: Custom Sizes
ELECTRICAL
Lamp Type: LED
Input Wattage (W): 120
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
LED

Number of LEDs: 200 Color Temperature (°K): 2400 / 2800

Max. Delivered Lumen (lm): 6000 (2800K)

CRI: >90 CRI

Lamp Life (hrs): 50000

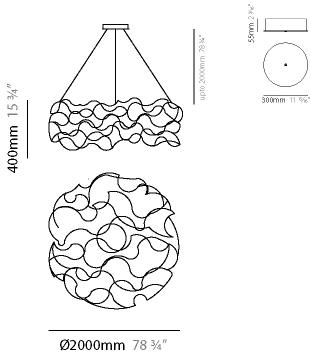
#### OPTICAL

# RATINGS AND CERTIFICATIONS

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





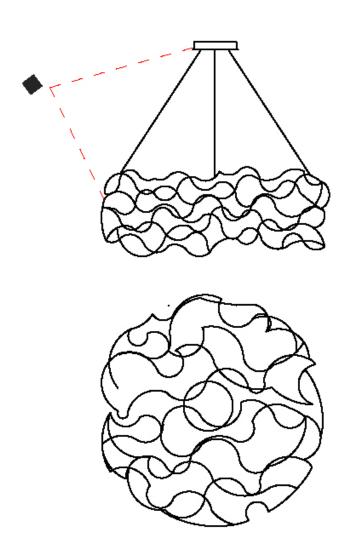






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D101681-	-	-	
base number	LED	Color	Finish
	Dimming	Temperature	Options

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: Sirio	
Subseries: Sirio Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	
PHYSICAL	
Shape: Abstract	
Length (mm): 1250	
Length (in): 49 <sup>3</sup> / <sub>16</sub>	
Width (mm): 400	
Width (in): 15 <sup>3</sup> / <sub>4</sub>	
Height (mm): 400	
Height (in): 15 ¾	
Max. Overall Height (mm): 2400	
Max. Overall Height (in): 94 ½	
Light Distribution: Omnidirectional	
Weight (kg): 4	
Weight (lbs): 8.8	
Fixture Finish: NIC / BRA / BBR	
Fixture Material: Metal	
Cable Details: 2000mm Cable	

Upon Request: Custom Sizes

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 30
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming
IED

LED Number of LEDs: 50 Color Temperature (°K): 2400 / 2800 Max. Delivered Lumen (lm): 1500 (2800K) CRI: >90 CRI Lamp Life (hrs): 50000

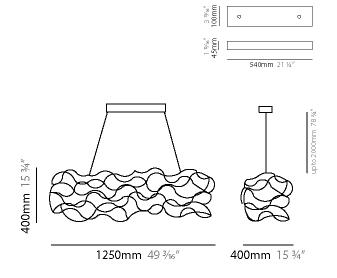
### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

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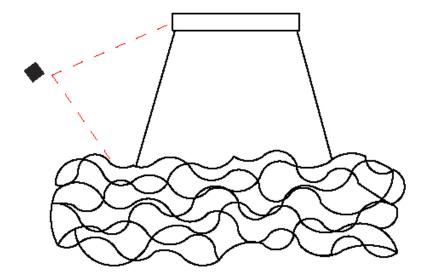


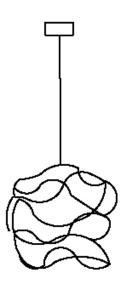




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D101682			
base number	LED	Color	Finish
	Dimming	Temperature	Options

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: Sirio
Subseries: Sirio Abstract
Brand: Quasar
Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL

PHISICAL
Shape: Abstract

Length (mm): 1800	
Length (in): 70 1/8	
Width (mm): 400	
Width (in): 15 <sup>3</sup> / <sub>4</sub>	
Height (mm): 400	

Height (in): 15 ¾
Max. Overall Height (mm): 2400

Max. Overall Height (in): 94 1/2 Light Distribution: Omnidirectional

Weight (kg): 4.5 Weight (lbs): 9.9

Fixture Finish: NIC / BRA / BBR Fixture Material: Metal

Cable Details: 2000mm Cable Upon Request: Custom Sizes

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 42
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

LED Number of LEDs: 70 Color Temperature (°K): 2400 / 2800 Max. Delivered Lumen (lm): 2100 (2800K) CRI: >90 CRI Lamp Life (hrs): 50000

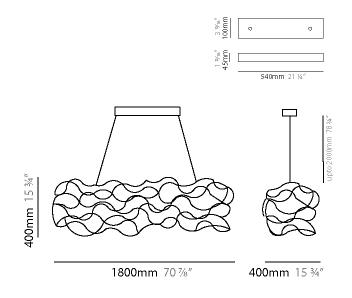
### OPTICAL

# **RATINGS AND CERTIFICATIONS**

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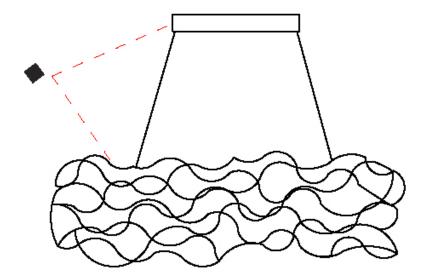


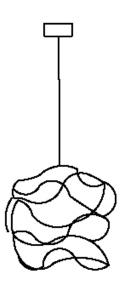




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<b>D101683-</b>			
base number	LED	Color	Finish
	Dimming	Temperature	Options

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: Sirio	
Subseries: Sirio Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Suspension  Mounting Location: Ceiling  Subcategory: Ambient  PHYSICAL  Shape: Abstract  Length (mm): 2000  Length (in): 78 ¾
Subcategory: Ambient  PHYSICAL Shape: Abstract Length (mm): 2000
PHYSICAL Shape: Abstract Length (mm): 2000
Shape: Abstract Length (mm): 2000
Length (mm): 2000
Length (in): 78 3/4
Width (mm): 400
Width (in): 15 <sup>3</sup> / <sub>4</sub>
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): $94\frac{1}{2}$
Light Distribution: Omnidirectional
Weight (kg): 4.5
Weight (lbs): 9.9
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Cable Details: 2000mm Cable
Upon Request: Custom Sizes

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 48
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming
LED

LED
Number of LEDs: 80
Color Temperature (°K): 2400 / 2800
Max. Delivered Lumen (lm): 2400 (2800K)
CRI: >90 CRI
Lamp Life (hrs): 50000

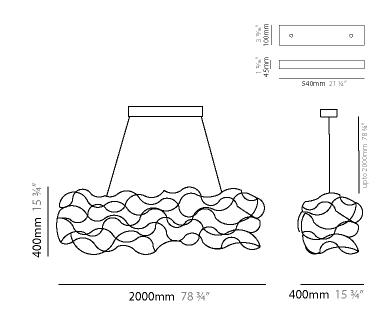
### OPTICAL

#### **RATINGS AND CERTIFICATIONS**

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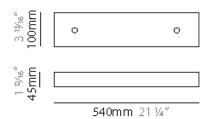


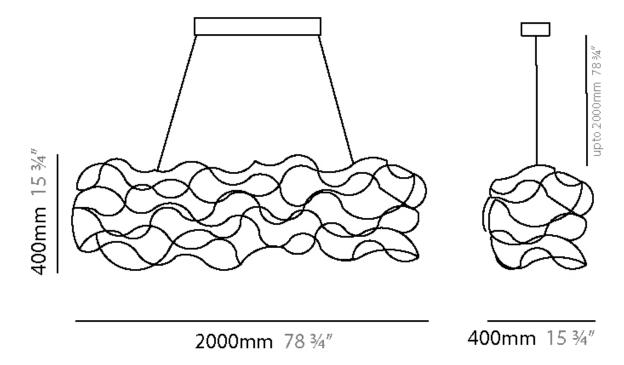




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#### D101832-

base number

Color Finish

Dimming Temperature 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: Sirio
Subseries: Sirio Disc
Brand: Quasar
Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient

Mounting Location: Ceiling Subcategory: Ambient PHYSICAL Shape: Abstract Diameter (mm): 1300 Diameter (in): 51 1/16 Height (mm): 400 Height (in): 15 3/4 Max. Overall Height (mm): 2400 Max. Overall Height (in):  $94\frac{1}{2}$ Light Distribution: Omnidirectional Weight (kg): 6.5 Weight (lbs): 14.3 Fixture Finish: NIC / BRA / BBR Fixture Material: Metal Cable Details: 2000mm Cable

#### **ELECTRICAL**

Upon Request: Custom Sizes

Lamp Type: LED
Input Wattage (W): 81
Max. Wattage Per Lamp (W): 3
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc

LED

dimming

Number of LEDs: 130 + 1

Color Temperature (°K): 2400 / 2800

Max. Delivered Lumen (lm): 3900 (2800K)

CRI: >90 CRI

Lamp Life (hrs): 50000

#### OPTICAL

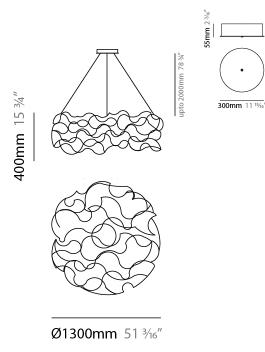
#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP20





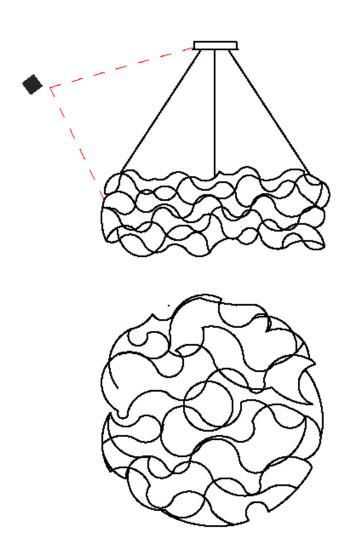






D101832-

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# ZANEEN

## **SIRIO DISC SUSPENSION**

#### D101833-

base number

Temperature 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: Sirio Subseries: Sirio Disc Brand: Quasar Division: Design Mounting Type: Suspension Mounting Location: Ceiling

Subcategory: Ambient PHYSICAL Shape: Abstract Diameter (mm): 2000 Diameter (in): 78 3/4 Height (mm): 400 Height (in): 15 3/4 Max. Overall Height (mm): 2400 Max. Overall Height (in): 94  $\frac{1}{2}$ Light Distribution: Omnidirectional Weight (kg): 6

Weight (lbs): 13.2 Fixture Finish: NIC / BRA / BBR

Fixture Material: Metal Cable Details: 2000mm Cable Upon Request: Custom Sizes

#### **ELECTRICAL**

Lamp Type: LED Input Wattage (W): 123 Max. Wattage Per Lamp (W): 3 Dimming: Non-Dimming / Phase Dimming (120vac Only) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Voltage - 120/277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Output Voltage (V): 12

Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

# LED

Number of LEDs: 200 + 1 Color Temperature (°K): 2400 / 2800

Max. Delivered Lumen (lm): 6000 (2800K) CRI: >90 CRI

Lamp Life (hrs): 50000

#### OPTICAL

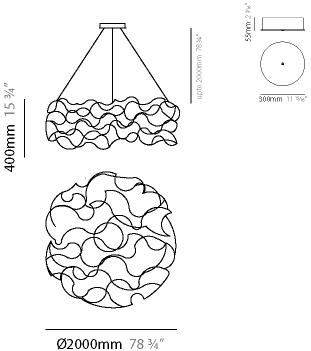
#### **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

IP rating: IP20





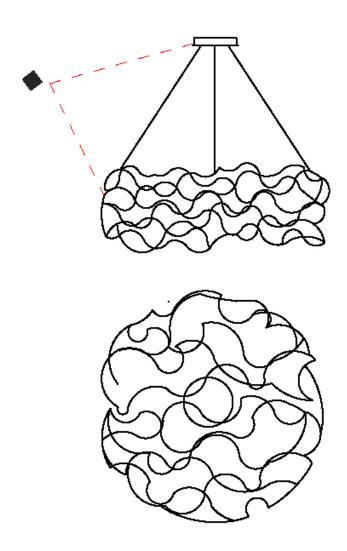






D101833-

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D101834			-
base number	LED	Color	Finish
	Dimming	Temperature	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: Sirio	
Subseries: Sirio Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Brand: Quasar
Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1250
Length (in): 49 <sup>3</sup> / <sub>16</sub>
Width (mm): 400
Width (in): 15 <sup>3</sup> / <sub>4</sub>
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): $94\frac{1}{2}$
Light Distribution: Omnidirectional
Weight (kg): 4
Weight (lbs): 8.8
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Cable Details: 2000mm Cable
Upon Request: Custom Sizes
FLECTRICAL

## ELECTRICAL

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 33
Max. Wattage Per Lamp (W): 3
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

LED	
Number of LEDs: 50 + 1	
Color Temperature (°K): 2400 / 2800	
Max. Delivered Lumen (lm): 1500 (2800K)	
CRI: >90 CRI	
Lamp Life (hrs): 50000	

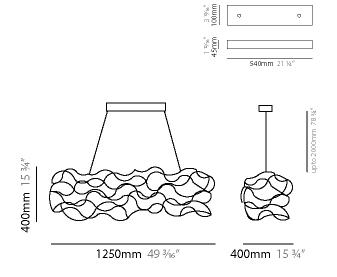
# OPTICAL

#### **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards
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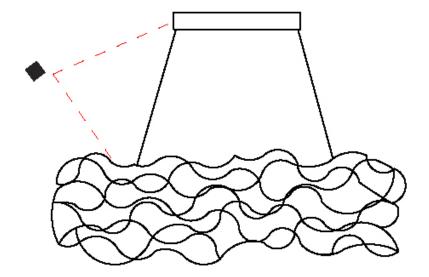


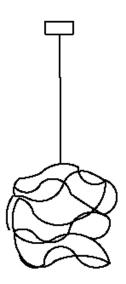




D101834-

TYPE SPECIFIER QUANTITY DATE	PROJECT			
QUANTITY	TYPE			
	SPECIFIER			
DATE	QUANTITY			
	DATE			









D101835	-		-
base number	LED	Color	Finish
	Dimming	Temperature	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: Sirio	
Subseries: Sirio Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	
DHYCICAL	

Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1800
Length (in): 70 $\frac{7}{8}$
Width (mm): 400
Width (in): 15 <sup>3</sup> / <sub>4</sub>
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): $94\frac{1}{2}$
Light Distribution: Omnidirectional
Weight (kg): 4.5
Weight (lbs): 9.9
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Cable Details: 2000mm Cable

## ELECTRICAL

Upon Request: Custom Sizes

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 45
Max. Wattage Per Lamp (W): 3
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

LED	
Number of LEDs: 70 + 1	
Color Temperature (°K): 2400 / 2800	
Max. Delivered Lumen (lm): 2100 (2800K)	
CRI: >90 CRI	
Lamp Life (hrs): 50000	

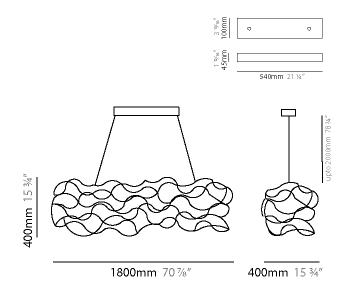
# OPTICAL

#### **RATINGS AND CERTIFICATIONS**

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

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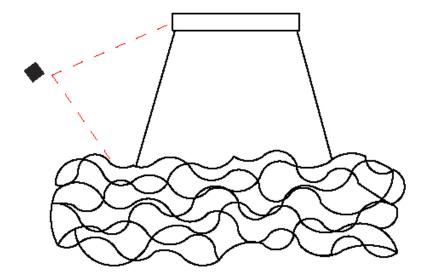


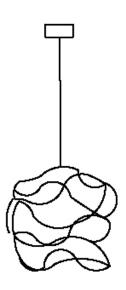




D101835-

ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	









<b>D101836-</b>						
base number	LED Dimming	Color	Finish	_		

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: Sirio	
Subseries: Sirio Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	
PHYSICAL	
Shape: Abstract	
Length (mm): 2000	
Length (in): 78 ¾	
Width (mm): 400	

Width (mm): 400
Width (in): 15 <sup>3</sup>/<sub>4</sub>
Height (mm): 400
Height (in): 15 <sup>3</sup>/<sub>4</sub>

Max. Overall Height (mm): 2400

Max. Overall Height (in): 94 ½

Light Distribution: Omnidirectional

Weight (kg): 4.5
Weight (lbs): 9.9
Fixture Finish: NIC / BRA / BBR

Fixture Material: Metal
Cable Details: 2000mm Cable
Upon Request: Custom Sizes

#### **ELECTRICAL**

Lamp Type: LED
Input Wattage (W): 51
Max. Wattage Per Lamp (W): 3
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

LED

Number of LEDs: 80 + 1

Color Temperature (°K): 2400 / 2800

Max. Delivered Lumen (lm): 2400 (2800K)

CRI: >90 CRI

Lamp Life (hrs): 50000

OPTICAL

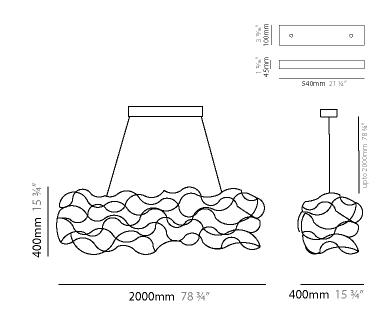
#### **RATINGS AND CERTIFICATIONS**

Certified By: Certified for North American Standards

IP rating: IP20

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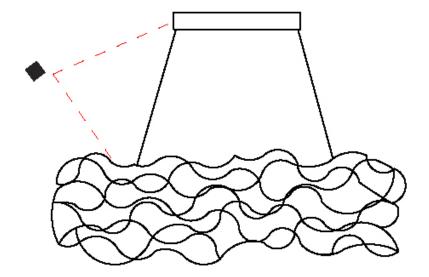


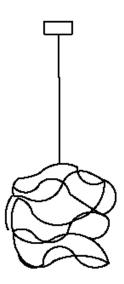




D101836-

PROJECT	
ТҮРЕ	
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QUANTITY	
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# **SIRIO**

COLOR FINISH CHART

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		

#### **Fixture Finish**







**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.

Brass, nickel and copper are natural minerals and can potentially change color and show marks over time. We cannot guarantee the color appearance as the material transforms.





# **SIRIO**

# **LEGEND**

$\downarrow$	floor-mounted	¥	pivotable	*	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
ラ	wall and ceiling: recessed and surface mounted	S	rotating	0	warm dim / natural dimming LED
1	ceiling-mounted and wall-mounted	Œ	illuminate tilted	0	rechargeable battery powered
$\rightarrow$	wall-mounted	I	color of suspension cable	ill neo	fixture with natural vivid LED (upon request)
Y	omni-directional light distribution	1	length of suspension cable	CRI	color rendering index
Ä	direct light distribution		reflector degree selection	(K)	color temperature
X	direct/indirect light distribution	s s	super spot	(M)	lumen (luminous flux)
M	indirect light distribution	*	lens	₩)	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
X	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
$\Box$	square wall or ceiling cut-out	Ġ	free individual colors 01-29	<b>9</b>	drive on
4	the supplied jig specifies the cutout dimensions	ē	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
<b>d</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		luminaire part to be colored (F2)		lamp protected against explosion
<u></u>	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
	included or excluded LED driver/transformer/ control gear	•	color of 3-circuit adaptor		protection class II, protection insulation
み	separately switchable	$\odot$	indirect diffuser	. <b>(1)</b>	ETL Certified to UL and CSA Standards
<b>9</b>	sensor	O	direct diffuser	.(H).	UL Certified to UL and CSA Standards
	remote control	0	ball-proof (upon request)	<b>(B</b> )	CSA Certified to UL and CSA Standards
9	available upon request	O	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)

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)
IKOB	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) $$

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

protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)  $\,$