

AURORA XS FOOD SUSPENSION

A1010044

base number Finish Beam Angle
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: Aurora Food
Subseries: Aurora XS Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 316
Diameter (in): 12 ½
Height (mm): 270
Height (in): 10 ⅝
Max. Overall Height (mm): 2270
Max. Overall Height (in): 89 ¾
Weight (kg): 3.1
Weight (lbs): 6.8
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 ¾" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 41
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1050mA

LED

Max. Delivered Lumen (lm): 2592
CRI: >90 CRI
Lamp Life (hrs): 50000

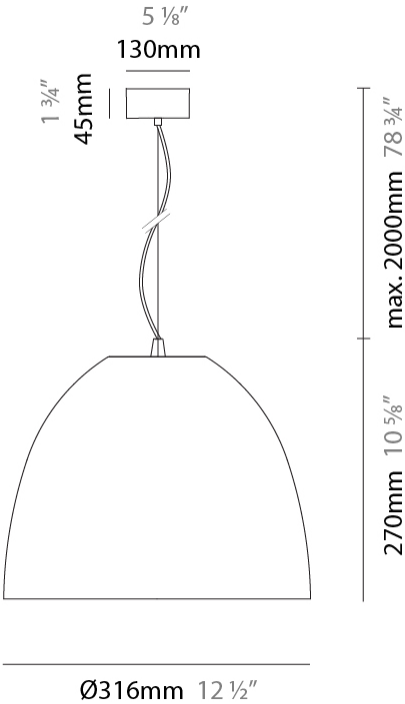
OPTICAL

Beam Angle: [Symmetrical Diffusing 30,60](#)

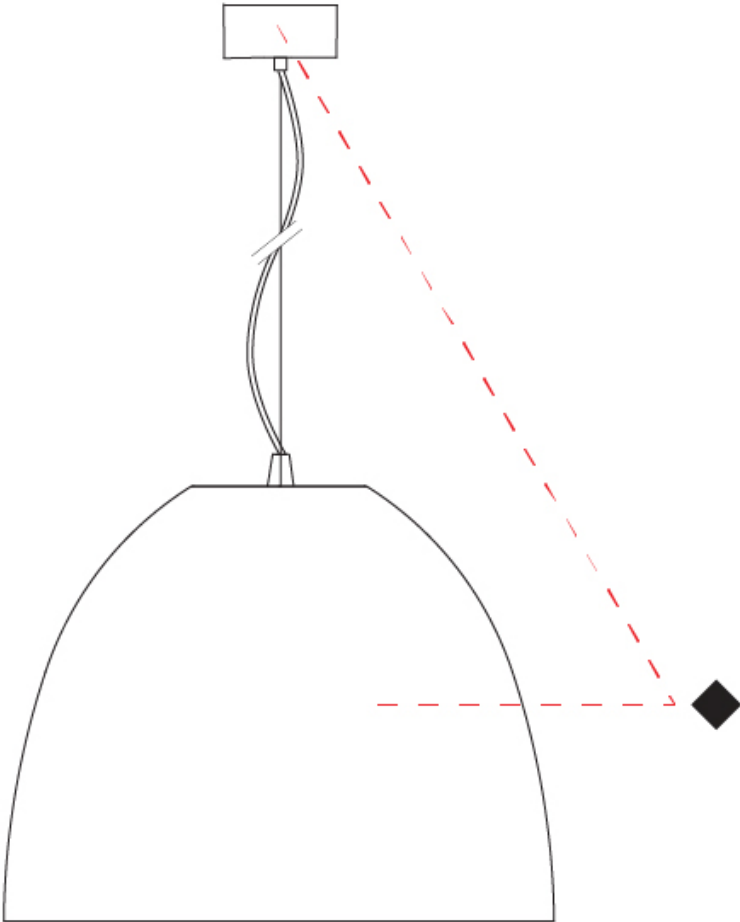
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XS FOOD SUSPENSION

A1010045

base number Finish Options Beam Angle

- 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: Aurora Food
Subseries: Aurora XS Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 316
Diameter (in): 12 ½
Height (mm): 270
Height (in): 10 ⅝
Max. Overall Height (mm): 2270
Max. Overall Height (in): 89 ¾
Weight (kg): 3.1
Weight (lbs): 6.8
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 ¾" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 41
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1050mA

LED

Max. Delivered Lumen (lm): 2465
CRI: >90 CRI
Lamp Life (hrs): 50000

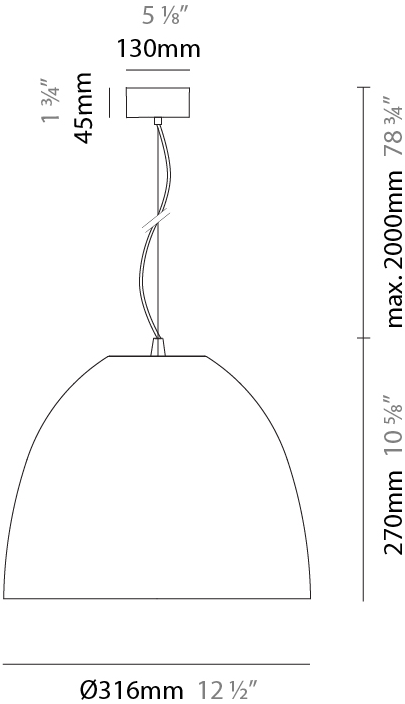
OPTICAL

Beam Angle: [Symmetrical Diffusing 30,60](#)

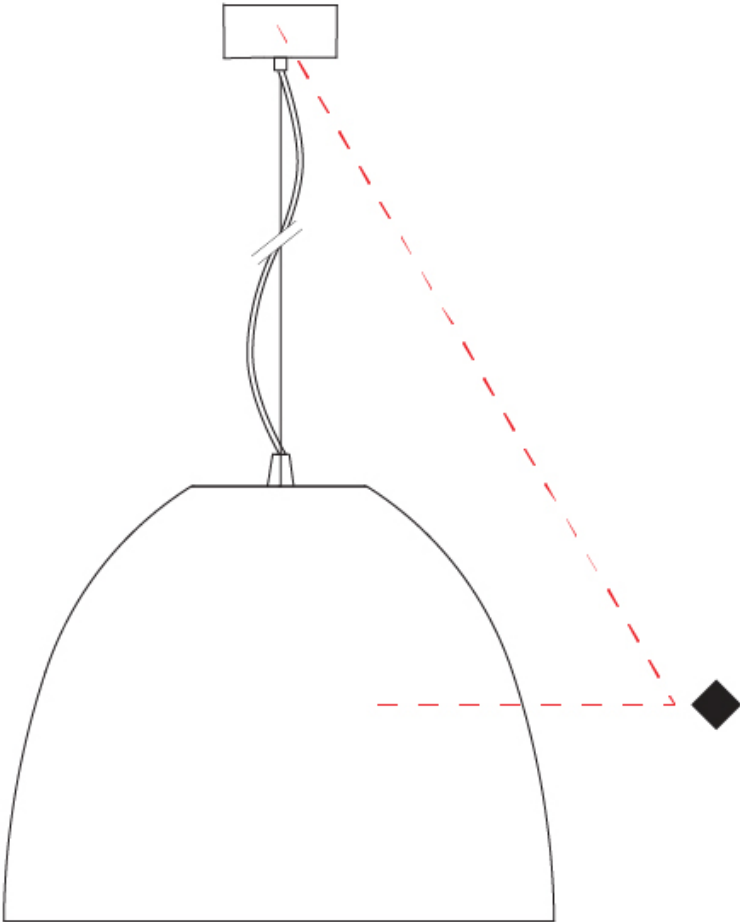
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XS FOOD SUSPENSION

A1010046

base number Finish 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: Aurora Food
Subseries: Aurora XS Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 316
Diameter (in): 12 1/2
Height (mm): 270
Height (in): 10 5/8
Max. Overall Height (mm): 2270
Max. Overall Height (in): 89 3/8
Weight (kg): 3.1
Weight (lbs): 6.8
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 41
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1050mA

LED

Color Temperature (°K): 4000
Max. Delivered Lumen (lm): 4484
CRI: >90 CRI
Lamp Life (hrs): 50000

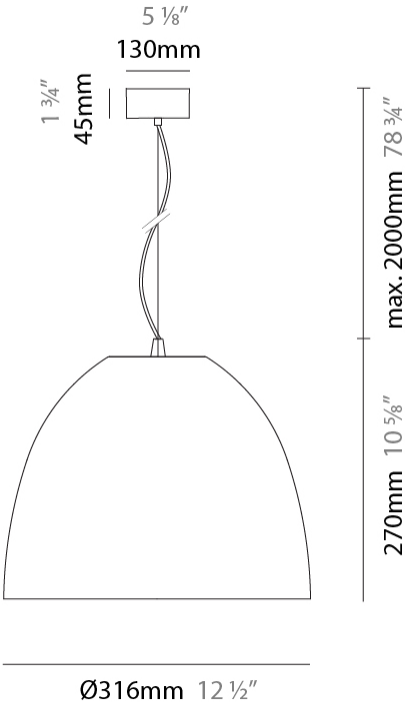
OPTICAL

Beam Angle: Symmetrical Diffusing 30,60

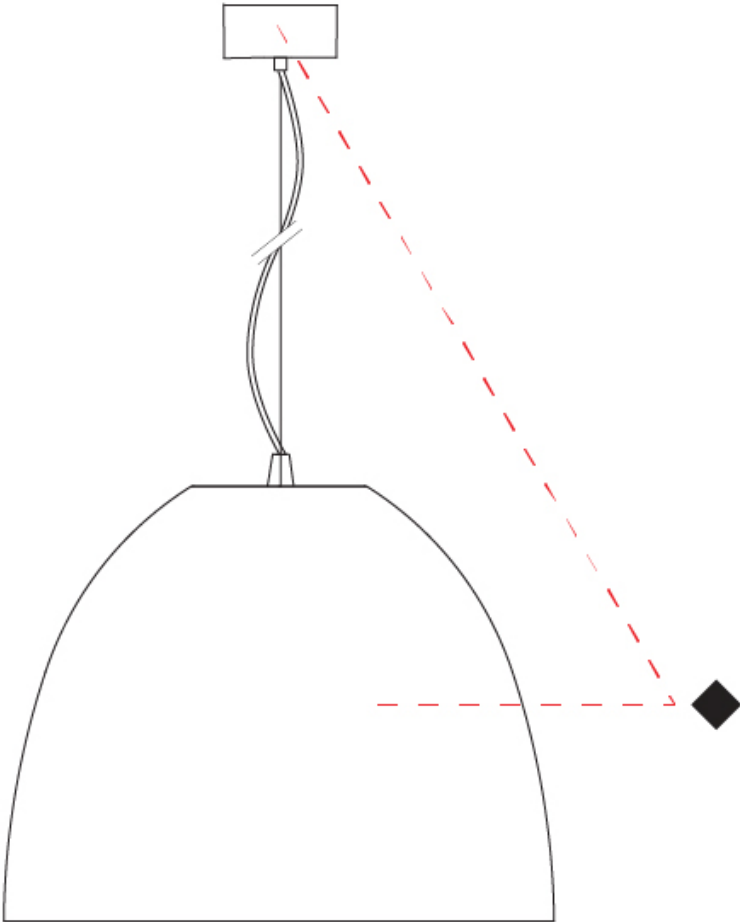
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XS FOOD SUSPENSION

A1010047

base number Finish Options Beam Angle

- 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: Aurora Food
Subseries: Aurora XS Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 316
Diameter (in): 12 ½
Height (mm): 270
Height (in): 10 ⅝
Max. Overall Height (mm): 2270
Max. Overall Height (in): 89 ¾
Weight (kg): 3.1
Weight (lbs): 6.8
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 ¾" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 41
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1050mA

LED

Color Temperature (°K): 3000
Max. Delivered Lumen (lm): 4181
CRI: >90 CRI
Lamp Life (hrs): 50000

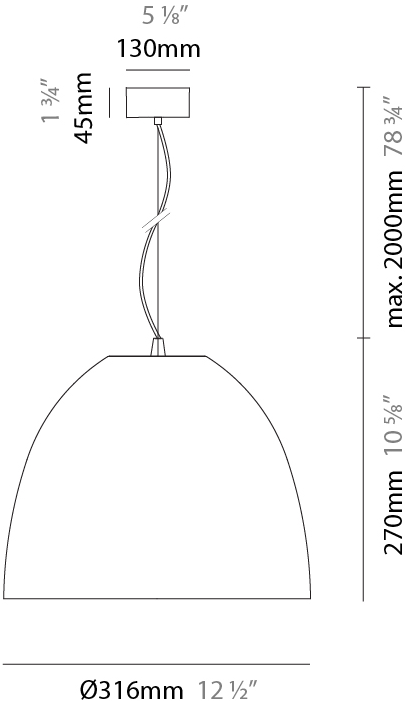
OPTICAL

Beam Angle: [Symmetrical Diffusing 30,60](#)

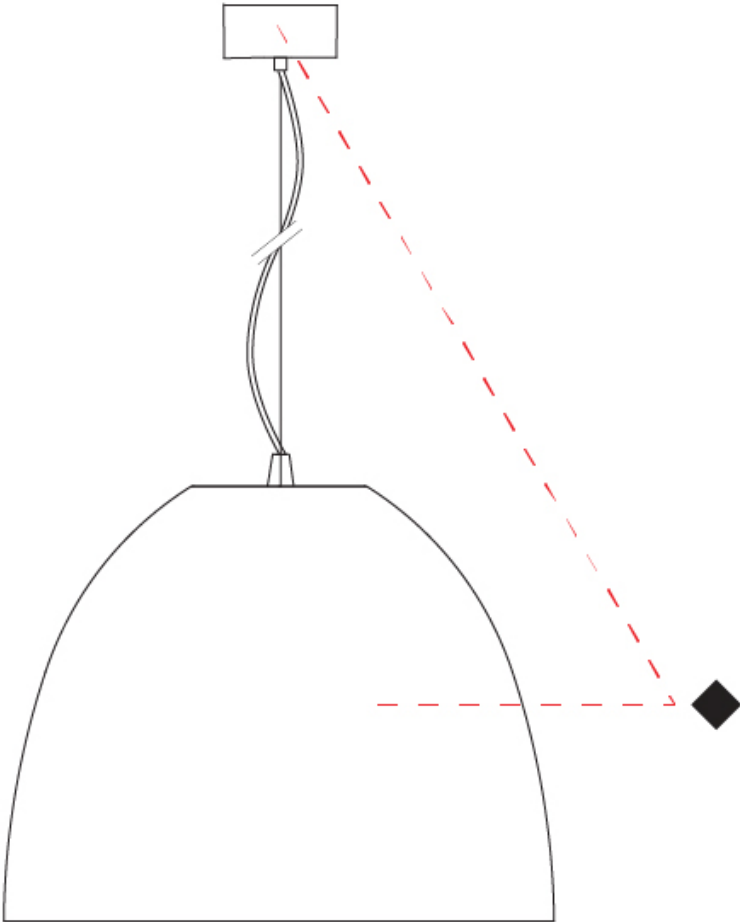
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XS FOOD SUSPENSION

A1010048

base number Finish Options Beam Angle

- 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: Aurora Food
Subseries: Aurora XS Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 316
Diameter (in): 12 1/2
Height (mm): 270
Height (in): 10 5/8
Max. Overall Height (mm): 2270
Max. Overall Height (in): 89 3/8
Weight (kg): 3.1
Weight (lbs): 6.8
Diffuser: Symmetrical Diffusing
Fixture Finish: RWH / BLK / GRY
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 41
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1050

LED

Color Temperature (°K): 2700
Max. Delivered Lumen (lm): 3806
CRI: >90 CRI
Lamp Life (hrs): 50000

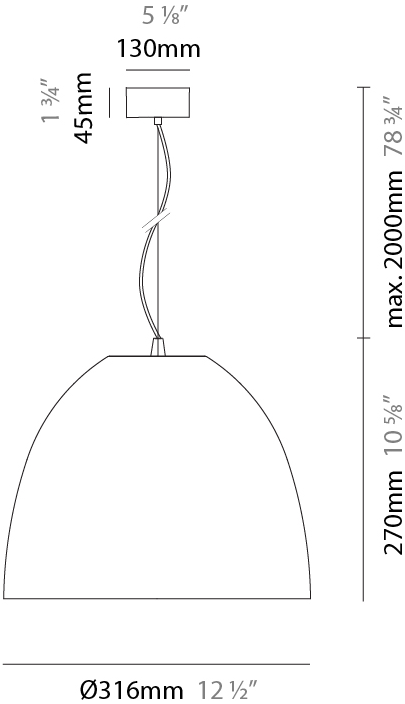
OPTICAL

Beam Angle: 30 / 60

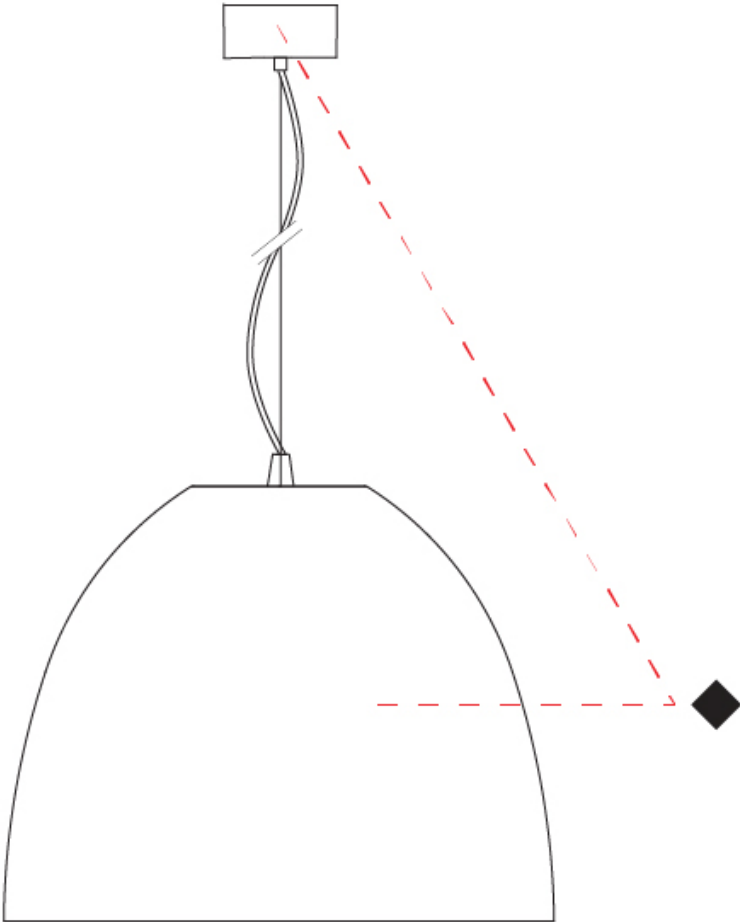
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XS FOOD SUSPENSION

A1010049

base number Finish Options Beam Angle

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: Aurora Food

Subseries: Aurora XS Food

Partner: Side

Division: Architectural

Installation: Suspension

Product Type: Pendant

Mounting Location: Ceiling

Light Distribution: Direct

PHYSICAL

Shape: Dome

Diameter (mm): 316

Diameter (in): 12 1/2

Height (mm): 270

Height (in): 10 5/8

Max. Overall Height (mm): 2270

Max. Overall Height (in): 89 3/8

Weight (kg): 3.1

Weight (lbs): 6.8

Diffuser: Symmetrical Diffusing

Fixture Finish: RWH / BLK / GRY

Fixture Material: Aluminum

Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 41

Dimming: Non-Dimmable

Driver Included: Yes

Driver Location: Integrated

Driver Type: Constant Current - Universal

Driver Class: Class 2

Input Voltage (V): 120

Constant Current (MA): 1050

LED

Color Temperature (°K): 2400

Max. Delivered Lumen (lm): 2670

CRI: >90 CRI

Lamp Life (hrs): 50000

OPTICAL

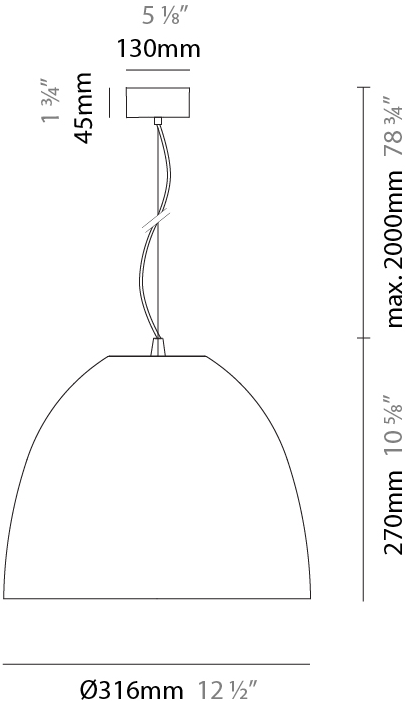
Beam Angle: 30 / 60

RATINGS AND CERTIFICATIONS

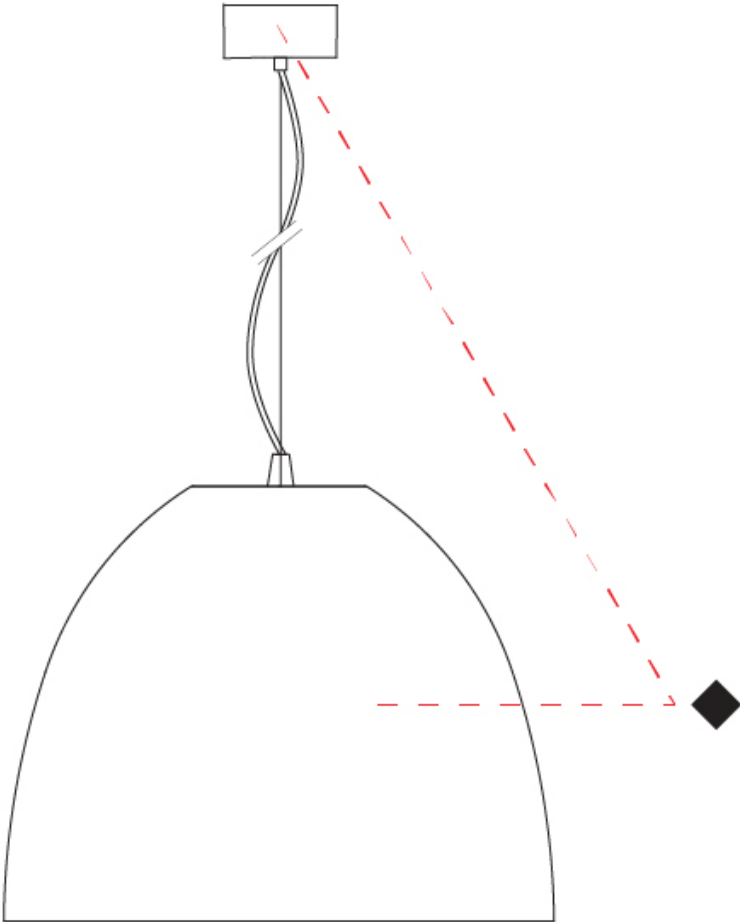
Certified By: Certified for North American Standards

IP rating: IP20

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010050-

base number Finish 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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Max. Delivered Lumen (lm): 2807
CRI: >90 CRI
Lamp Life (hrs): 50000

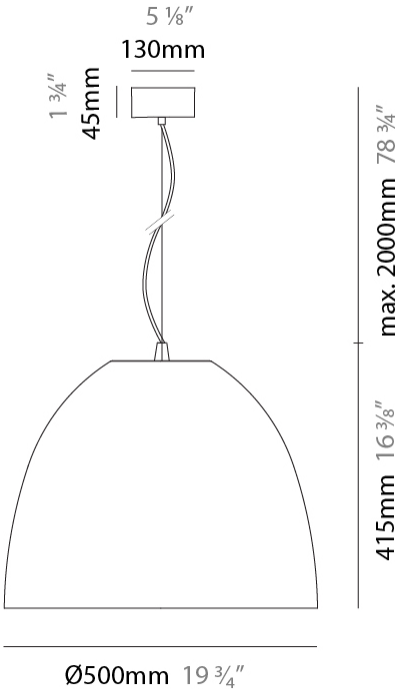
OPTICAL

Beam Angle: Symmetrical 90

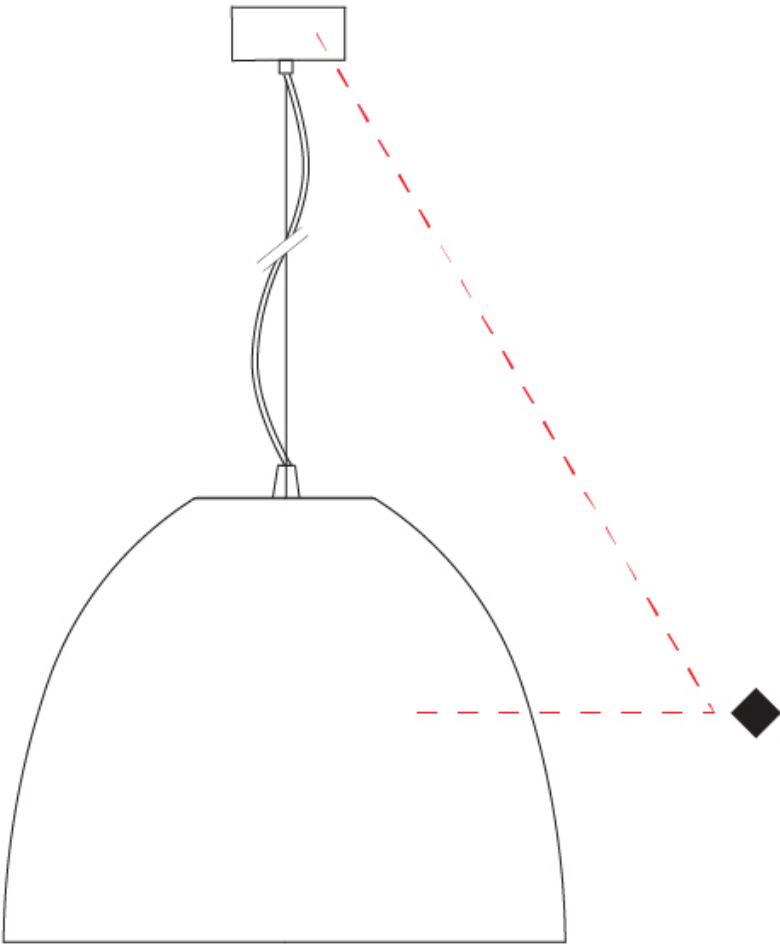
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010051-

base number Finish 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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Max. Delivered Lumen (lm): 2639
CRI: >90 CRI
Lamp Life (hrs): 50000

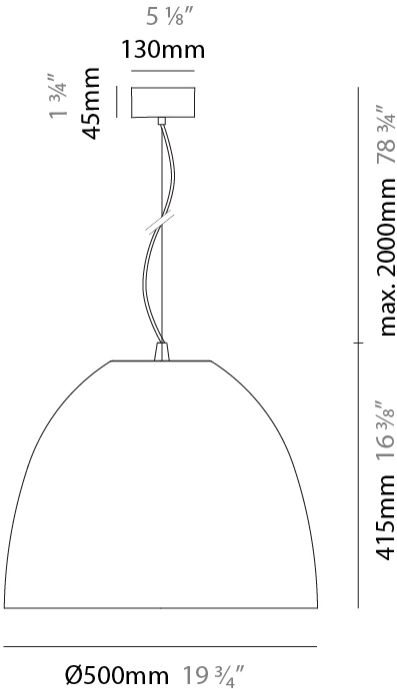
OPTICAL

Beam Angle: Symmetrical 90

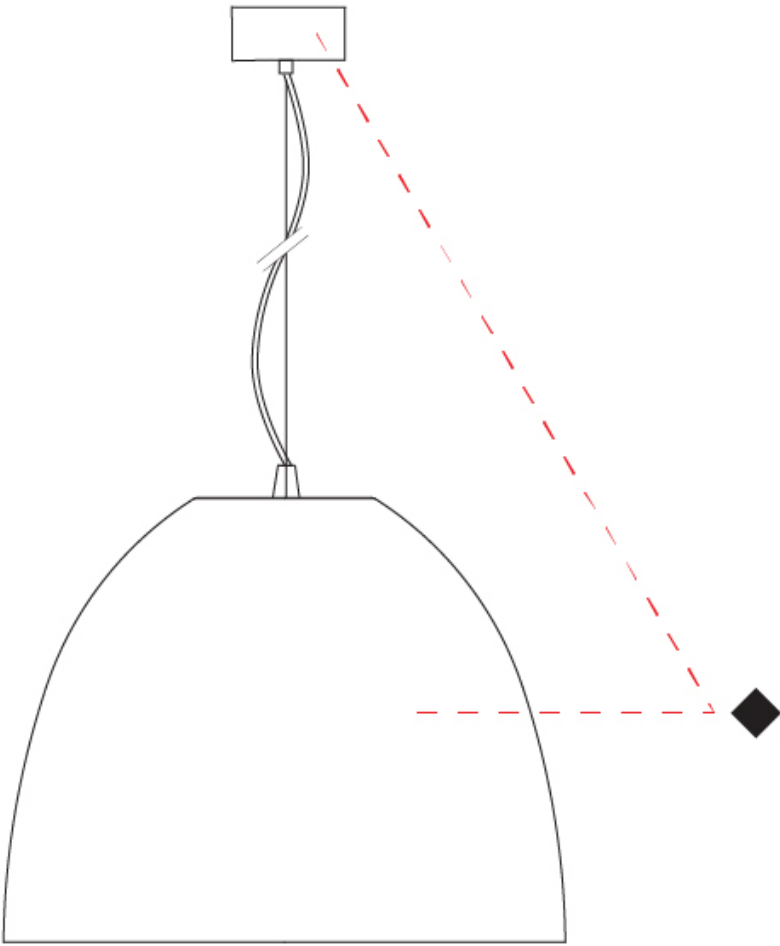
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010052-

base number Finish
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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: [RWH](#) / [BLK](#) / [GRY](#)
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Color Temperature (°K): 4000
Max. Delivered Lumen (lm): 4855
CRI: >90 CRI
Lamp Life (hrs): 50000

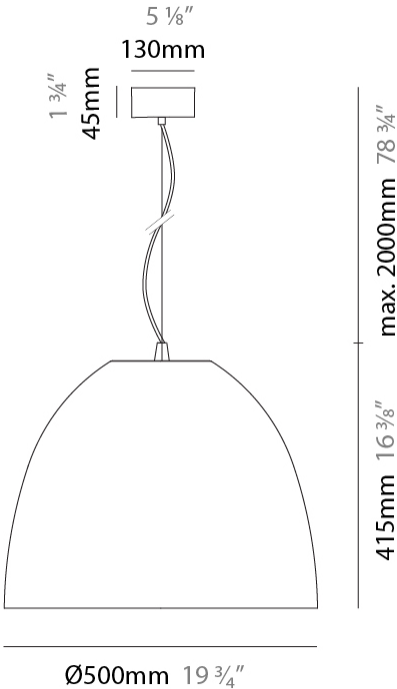
OPTICAL

Beam Angle: Symmetrical 90

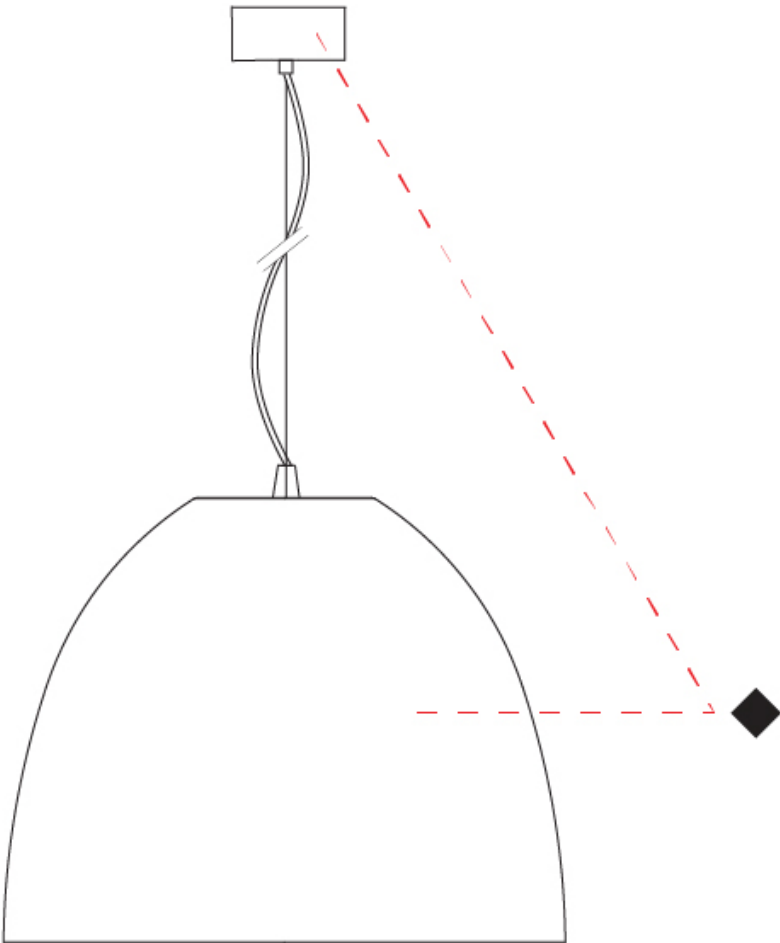
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010053-

base number Finish
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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: RWH / BLK / GRY
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Color Temperature (°K): 3000
Max. Delivered Lumen (lm): 4528
CRI: >90 CRI
Lamp Life (hrs): 50000

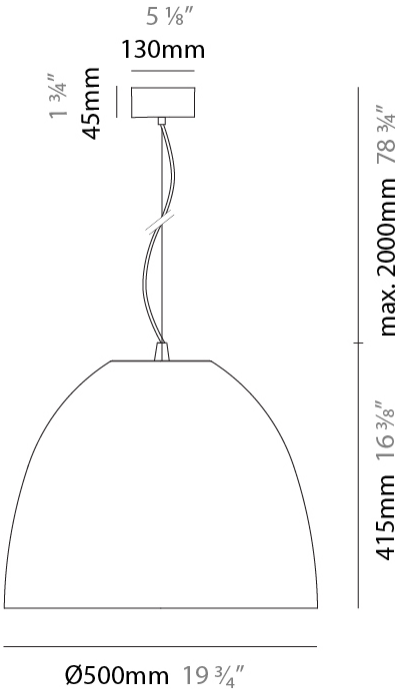
OPTICAL

Beam Angle: Symmetrical 90

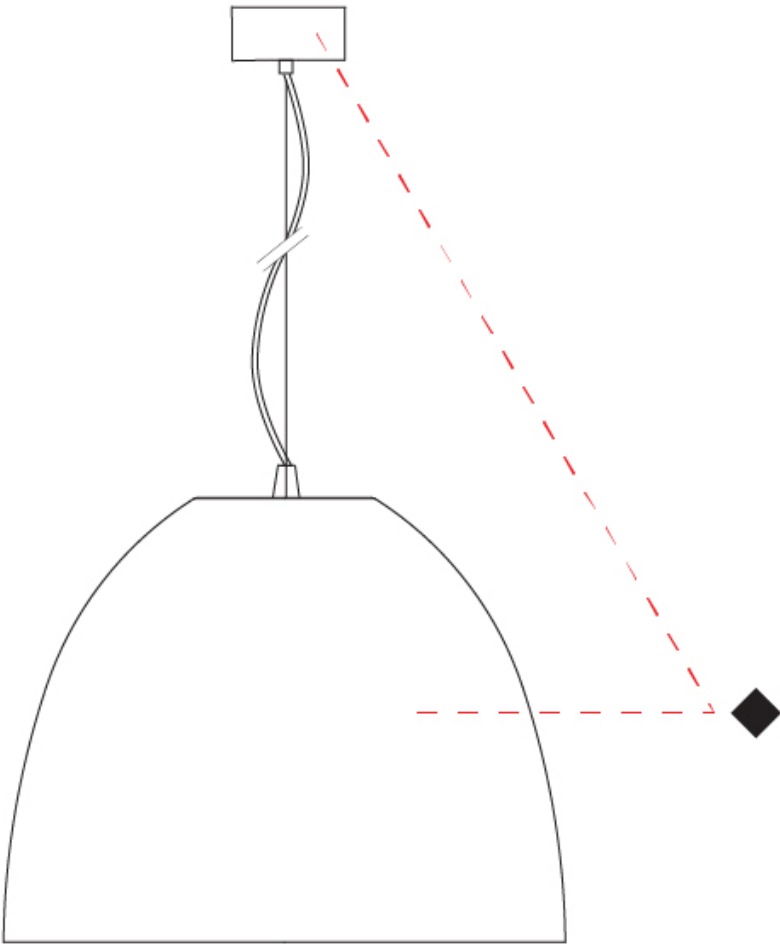
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010054-

base number Finish
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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: RWH / BLK / GRY
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Color Temperature (°K): 2700
Max. Delivered Lumen (lm): 4120
CRI: >90 CRI
Lamp Life (hrs): 50000

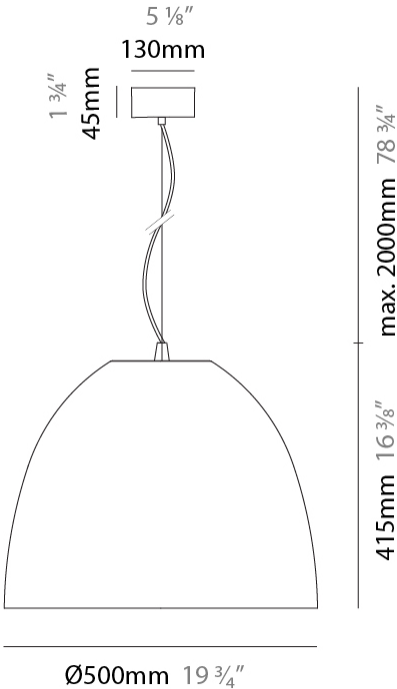
OPTICAL

Beam Angle: Symmetrical 90

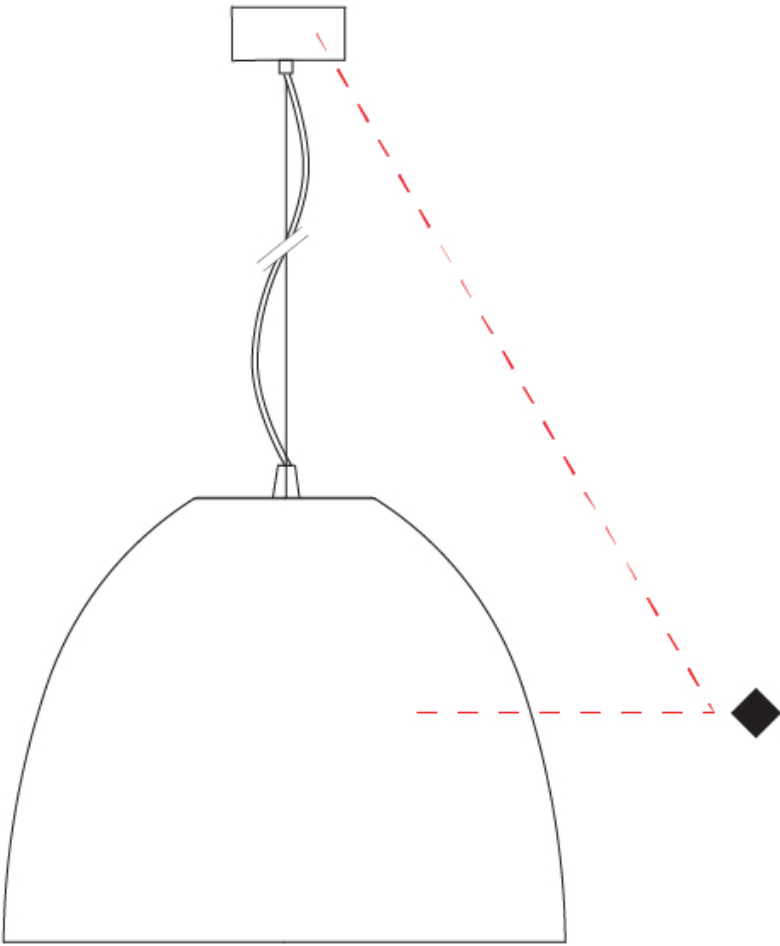
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



AURORA XL FOOD SUSPENSION

A1010055-

base number Finish 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: Aurora Food
Subseries: Aurora XL Food
Partner: Side
Division: Architectural
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Dome
Diameter (mm): 500
Diameter (in): 19 3/4
Height (mm): 415
Height (in): 16 3/8
Max. Overall Height (mm): 2415
Max. Overall Height (in): 95 1/16
Weight (kg): 8
Weight (lbs): 17.6
Fixture Finish: RWH / BLK / GRY
Fixture Material: Aluminum
Cable Details: 2000mm / 78 3/4" Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 1200mA

LED

Color Temperature (°K): 2400
Max. Delivered Lumen (lm): 2892
CRI: >90 CRI
Lamp Life (hrs): 50000

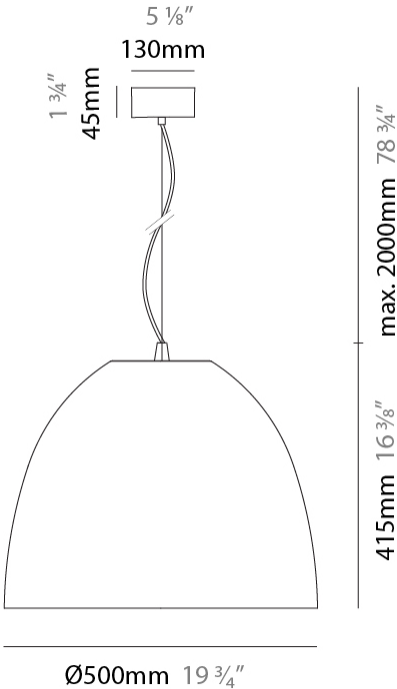
OPTICAL

Beam Angle: Symmetrical 90

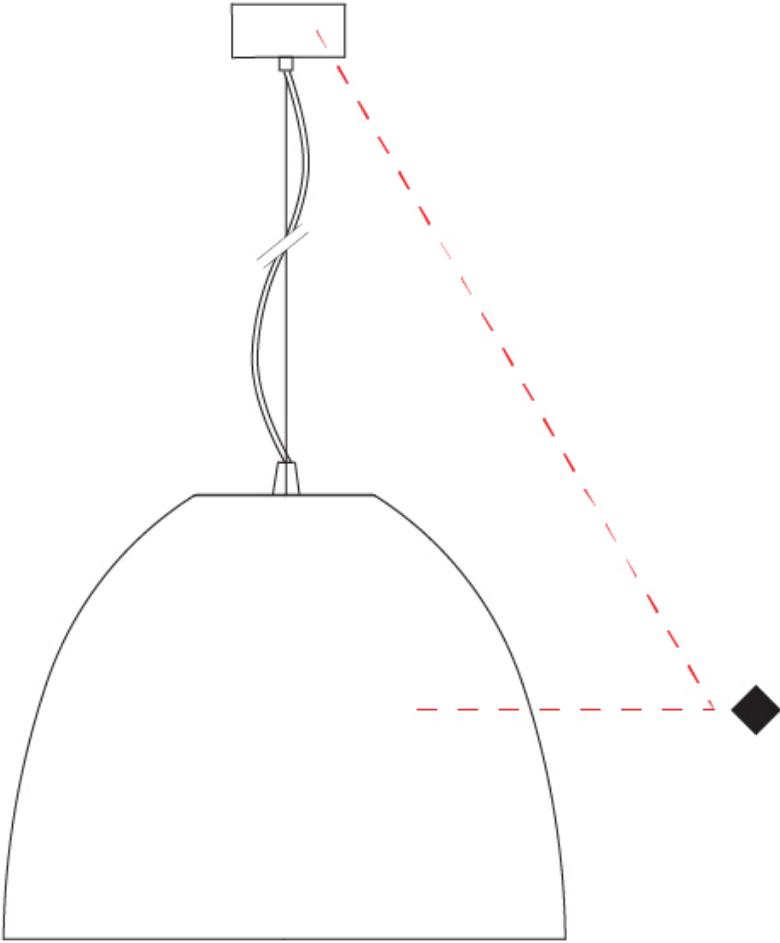
RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



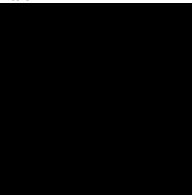
PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

Fixture Finish

Black - BLK



Gray - GRY



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

IP RATING

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

IK RATING

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