

EXCENTRICA SUSPENSION

D51020-

base number Finish
Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 400
 Diameter (in): 15 ³/₄
 Height (mm): 240
 Height (in): 9 ⁷/₁₆
 Max. Overall Height (mm): 2240
 Max. Overall Height (in): 88 ³/₁₆
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK / BRA
 Fixture Material: Metal
 Cable Details: Cable length 2000mm / 79"

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 7
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

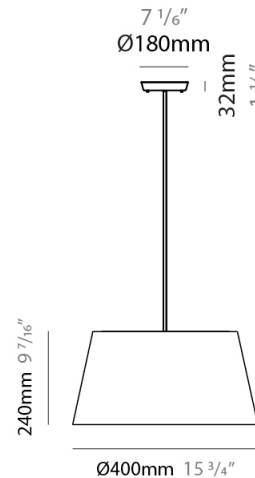
LED

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



EXCENTRICA SUSPENSION

D51020-

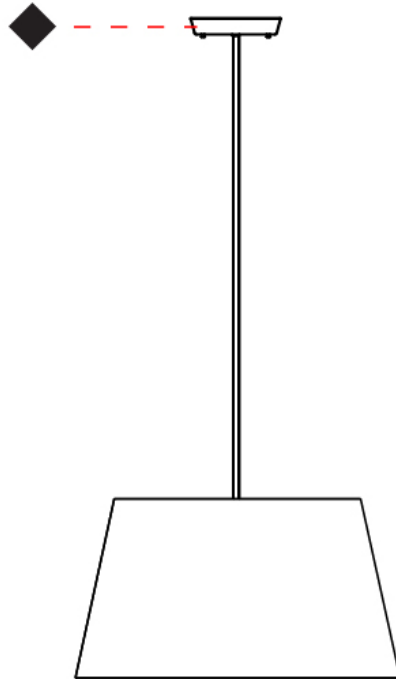
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



EXCENTRICA SUSPENSION

D51021-

base number Finish
Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 650
 Diameter (in): 25 ⁹/₁₆"
 Height (mm): 650
 Height (in): 25 ⁹/₁₆"
 Max. Overall Height (mm): 2650
 Max. Overall Height (in): 104 ⁵/₁₆"
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK / BRA
 Fixture Material: Metal
 Cable Details: Cable length 2000mm / 79"

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 12
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

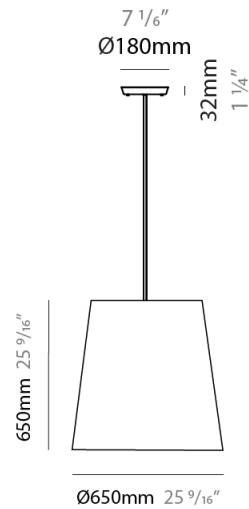
LED

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



EXCENTRICA SUSPENSION

D51021-

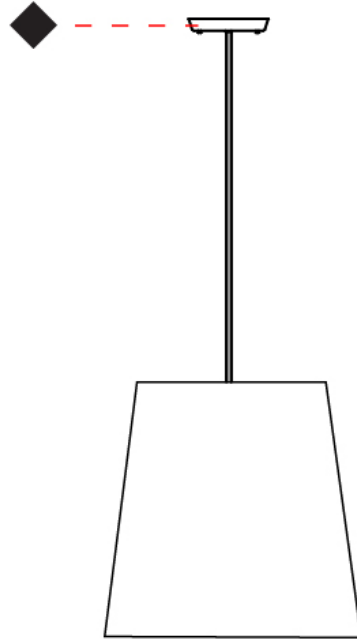
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



EXCENTRICA SURFACE

D53011-

base number _____
 Finish _____
 Options _____

- 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: Excentrica _____
 Partner: Fambuena _____
 Division: Design _____
 Installation: Surface _____
 Product Type: Wall Surface _____
 Mounting Location: Wall _____
 Light Distribution: Direct _____

PHYSICAL

Shape: Cylinder _____
 Diameter (mm): 230 _____
 Diameter (in): 9 1/16 _____
 Height (mm): 270 _____
 Height (in): 10 5/8 _____
 Extension (mm): 320 _____
 Extension (in): 12 5/8 _____
 Diffuser: Cotton Shade _____
 Fixture Finish: WHI / BLK / BRA / PWT _____
 Fixture Material: Metal _____

ELECTRICAL

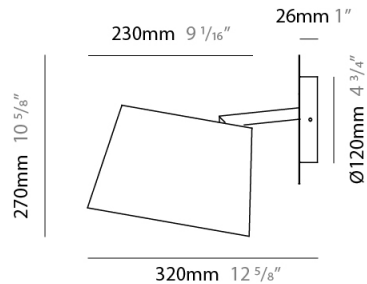
Number of Lamps: 1 _____
 Lamp Type: LED Retrofit _____
 Lamp Shape: B10 _____
 Bulb Included: Bulb Not Included _____
 Max. Wattage Per Lamp (W): 4 _____
 Lamp Base: E12 _____
 Input Voltage (V): 120 _____

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



D53011-

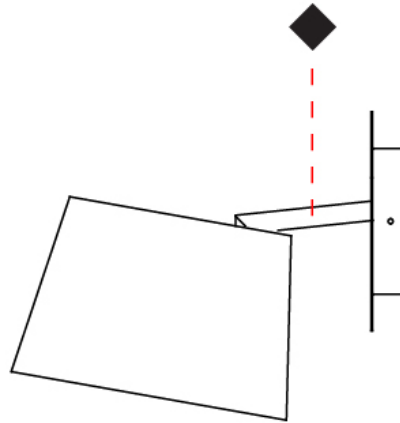
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

EXCENTRICA PORTABLE

D54006-

base number Finish
Options

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 700
 Height (in): 27 ⁹/₁₆
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK
 Fixture Material: Metal
 Upon Request: Bolt Down

ELECTRICAL

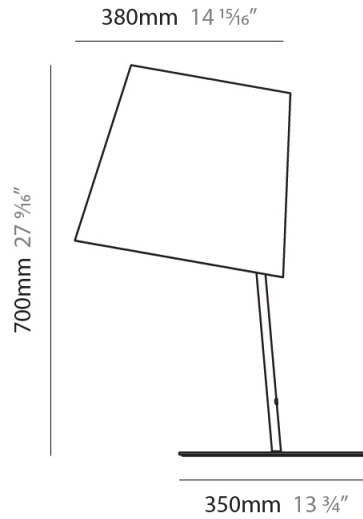
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 7
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

LED

OPTICAL

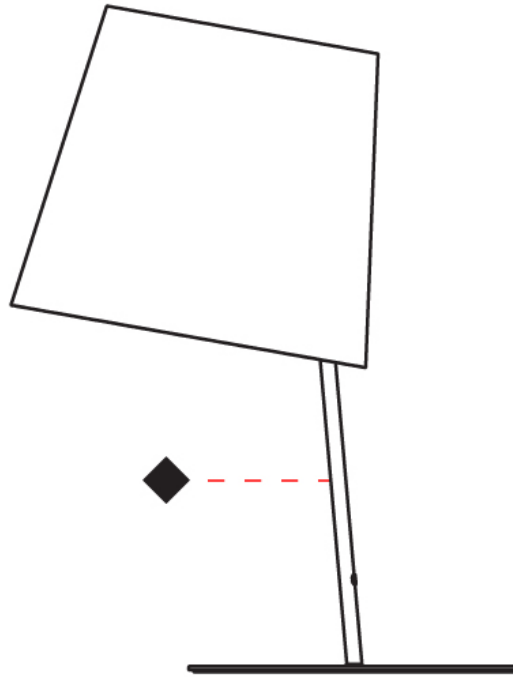
RATINGS AND CERTIFICATIONS

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



D54006-

PROJECT	_____
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PROJECT
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EXCENTRICA PORTABLE

D54006- : D54006-WHI

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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 700
 Height (in): 27 ⁹/₁₆
 Weight (kg): 5
 Weight (lbs): 11
 Diffuser: Cotton Shade
 Holder Finish: White
 Fixture Material: Metal

ELECTRICAL

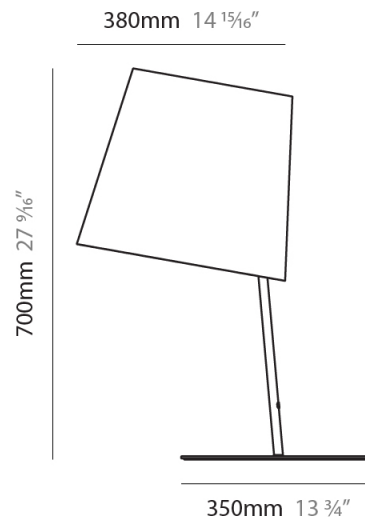
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Total Output Wattage (W): 7
 Max. Wattage Per Lamp (W): 7
 Lamp Base: E26
 Input Voltage (V): 120

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



EXCENTRICA PORTABLE

D54007-

base number Finish
Options

PROJECT
TYPE
SPECIFIER
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DATE

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 230
 Diameter (in): 9 1/16
 Height (mm): 440
 Height (in): 17 5/16
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK
 Holder Finish: WHI / BLK
 Fixture Material: Metal
 Upon Request: Bolt Down

ELECTRICAL

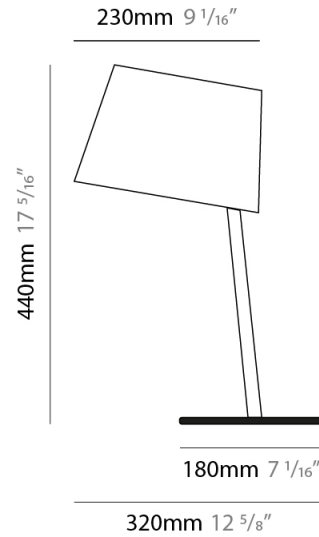
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: B10
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 4
 Lamp Base: E12
 Input Voltage (V): 120

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



D54007-

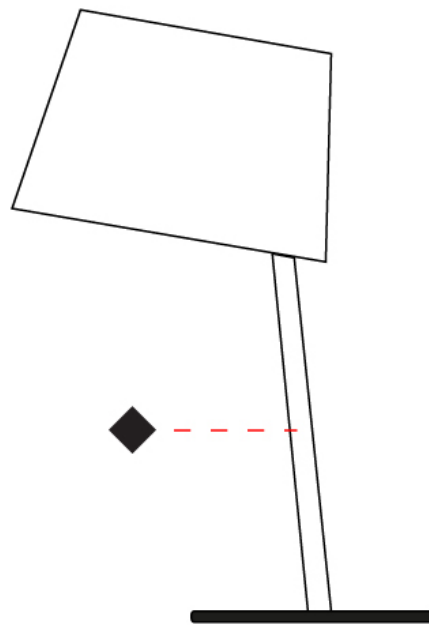
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

EXCENTRICA PORTABLE

D54008-

base number Finish
Options

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 230
 Diameter (in): 9 1/16
 Height (mm): 510
 Height (in): 20 1/16
 Extension (mm): 740
 Extension (in): 29 1/8
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK
 Holder Finish: WHI / BLK
 Fixture Material: Metal
 Upon Request: Bolt Down

ELECTRICAL

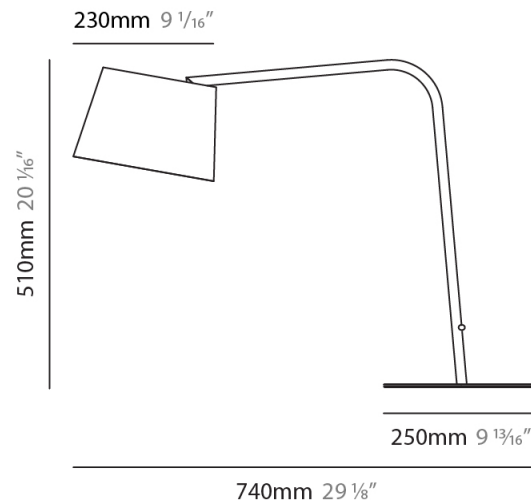
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: B10
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 4
 Lamp Base: E12
 Input Voltage (V): 120

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



D54008-

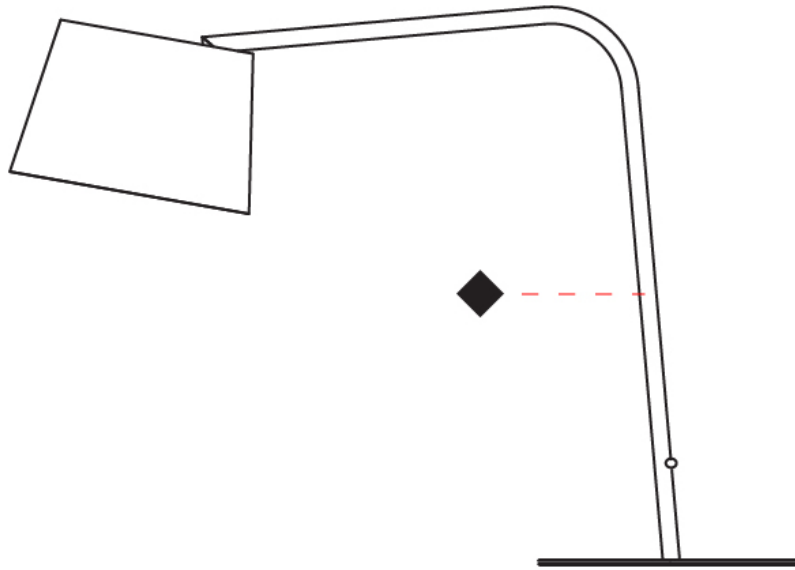
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

EXCENTRICA PORTABLE

D54009-

base number Finish
Options

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Floor
 Mounting Location: Floor
 Light Distribution: Direct

PHYSICAL

Shape: Abstract
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 1700
 Height (in): 66 ¹⁵/₁₆
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK
 Holder Finish: WHI / BLK
 Fixture Material: Metal
 Upon Request: Bolt Down

ELECTRICAL

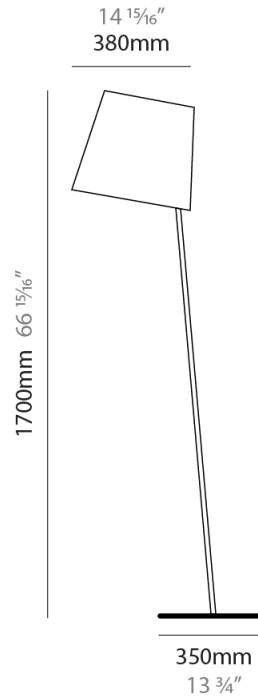
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 12
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



D54009-

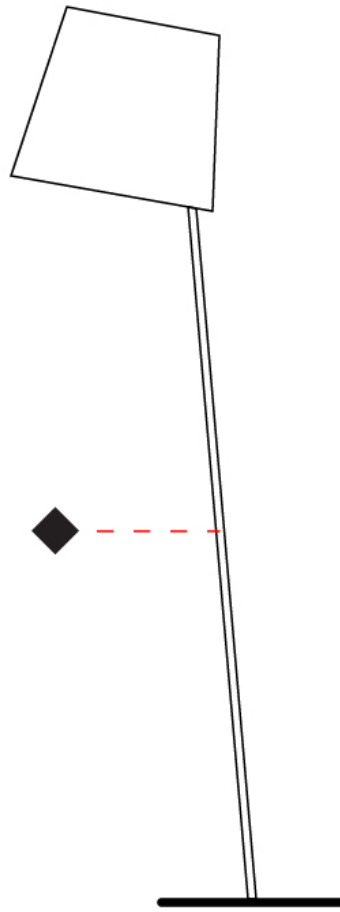
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



EXCENTRICA PORTABLE

D54010-

base number Finish
Options

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Floor
 Mounting Location: Floor
 Light Distribution: Direct

PHYSICAL

Shape: Abstract
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 1840
 Height (in): 72 ⁷/₁₆
 Extension (mm): 1920
 Extension (in): 75 ⁹/₁₆
 Diffuser: Cotton Shade
 Fixture Finish: WHI / BLK
 Holder Finish: WHI / BLK
 Fixture Material: Metal
 Upon Request: Bolt Down

ELECTRICAL

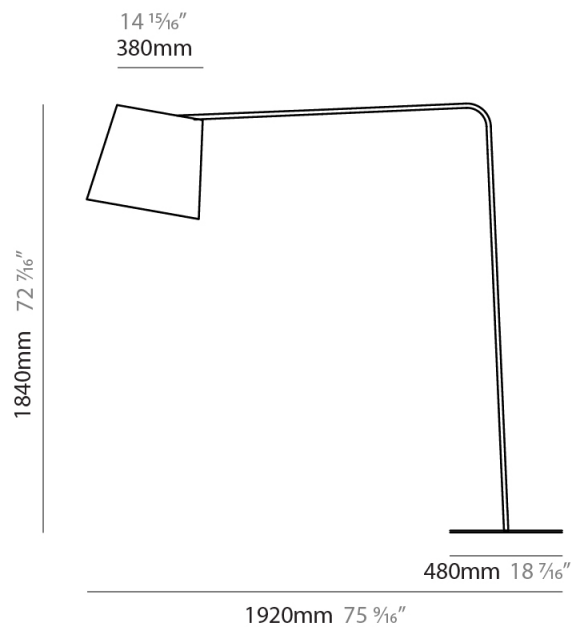
Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 12
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

LED

OPTICAL

RATINGS AND CERTIFICATIONS

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



D54010-

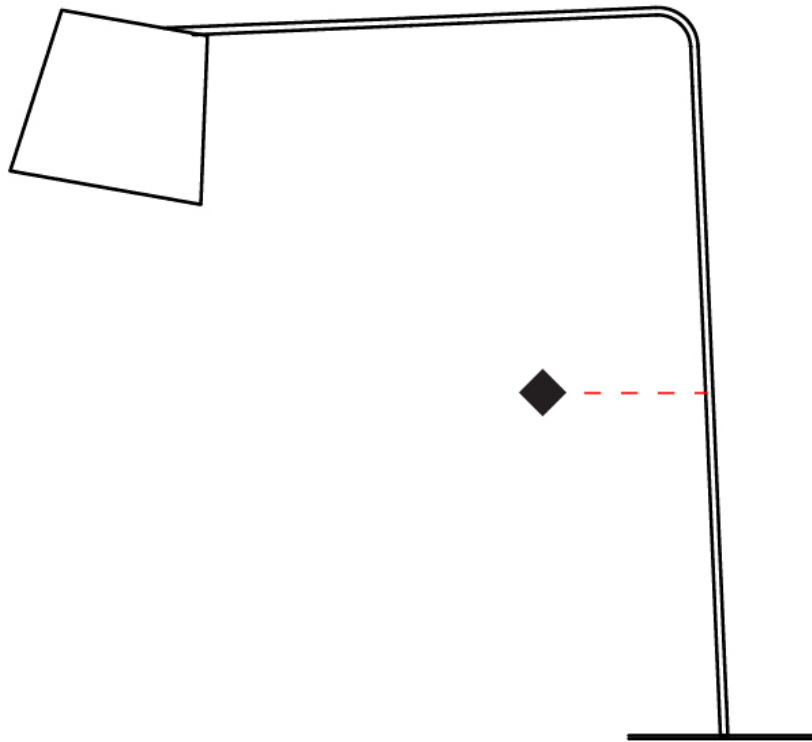
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



EXCENTRICA PORTABLE

D54046- _____ - _____

base number Finish Options Finish Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 700
 Height (in): 27 ⁹/₁₆
 Diffuser: Cotton Shade
 Fixture Finish: [BRA / PWT](#)
 Holder Finish: [BLM / WHM](#)
 Fixture Material: [Metal / Marble](#)
 Upon Request: Bolt Down

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 7
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

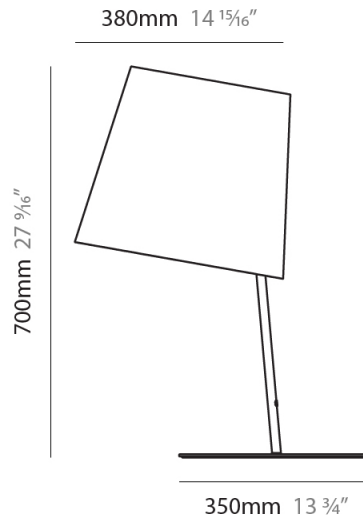
LED

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



D54046-

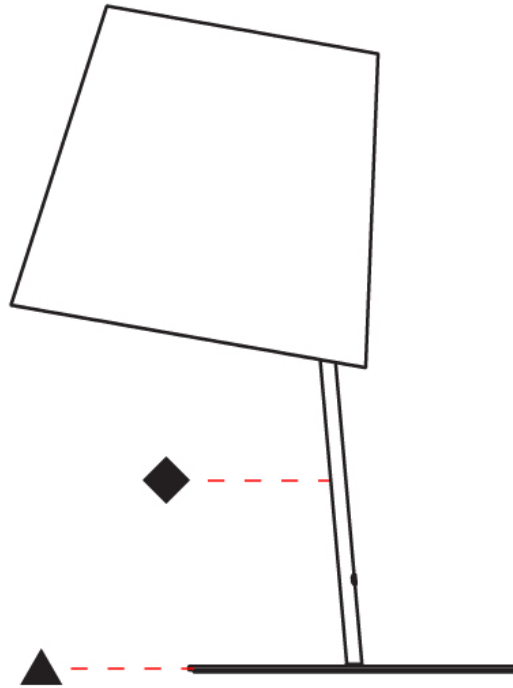
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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EXCENTRICA PORTABLE

D54047- -

base number Finish Options Finish Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Table
 Mounting Location: Table
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 230
 Diameter (in): 9 1/16
 Height (mm): 440
 Height (in): 17 5/16
 Diffuser: Cotton Shade
 Fixture Finish: [BRA / PWT](#)
 Holder Finish: [BLM / WHM](#)
 Fixture Material: [Metal / Marble](#)
 Upon Request: Bolt Down

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: B10
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 4
 Lamp Base: E12
 Input Voltage (V): 120

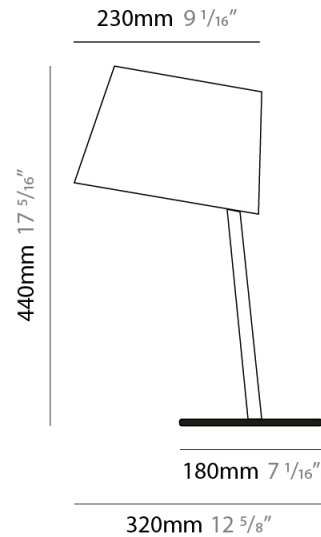
LED

OPTICAL

RATINGS AND CERTIFICATIONS

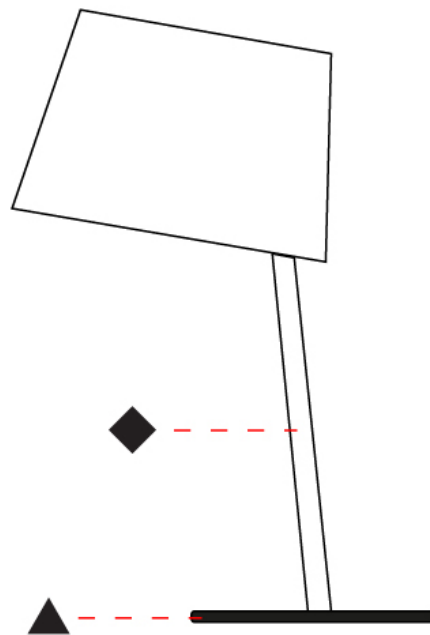
Certified By: Certified for North American Standards
 IP rating: IP20

PROJECT _____
 TYPE _____
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 DATE _____



D54047-

PROJECT	_____
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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

EXCENTRICA PORTABLE

D54048-	-
base number	Finish Options
	Finish Options

- 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: Excentrica
Partner: Fambuena
Division: Design
Installation: Portable
Product Type: Table
Mounting Location: Table
Light Distribution: Direct

PHYSICAL

Shape: Cylinder
Diameter (mm): 230
Diameter (in): 9 1/16
Height (mm): 510
Height (in): 20 1/16
Extension (mm): 740
Extension (in): 29 1/8
Diffuser: Cotton Shade
Fixture Finish: BRA / PWT
Holder Finish: BLM / WHM
Fixture Material: Metal / Marble
Upon Request: Bolt Down

ELECTRICAL

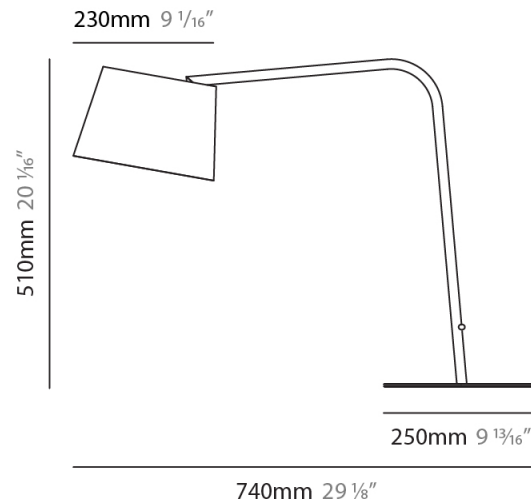
Number of Lamps: 1
Lamp Type: LED Retrofit
Lamp Shape: B10
Bulb Included: Bulb Not Included
Max. Wattage Per Lamp (W): 4
Lamp Base: E12
Input Voltage (V): 120

LED

OPTICAL

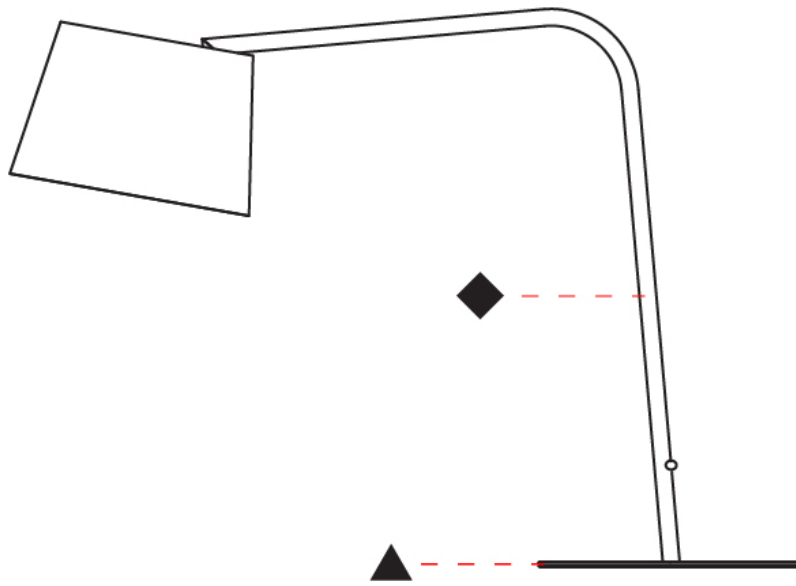
RATINGS AND CERTIFICATIONS

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



D54048-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



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EXCENTRICA PORTABLE

D54049- _____ - _____

base number Finish Options Finish Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Floor
 Mounting Location: Floor
 Light Distribution: Direct

PHYSICAL

Shape: Abstract
 Diameter (mm): 380
 Diameter (in): 14 ¹⁵/₁₆
 Height (mm): 1700
 Height (in): 66 ¹⁵/₁₆
 Diffuser: Cotton Shade
[Fixture Finish: BRA / PWT](#)
 Holder Finish: BLM / WHM
 Fixture Material: Metal / Marble
 Upon Request: Bolt Down

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: A19
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 12
 Lamp Base: E26
 Input Voltage (V): 120
 Upon Request: 277Vac / GU24

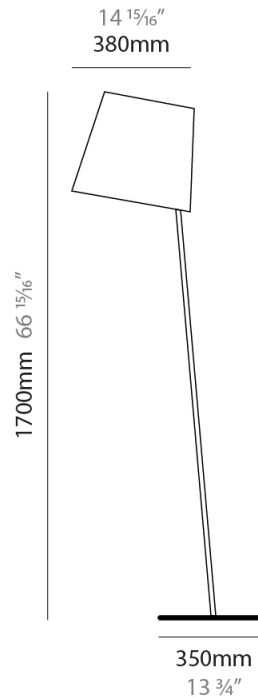
LED

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



D54049-

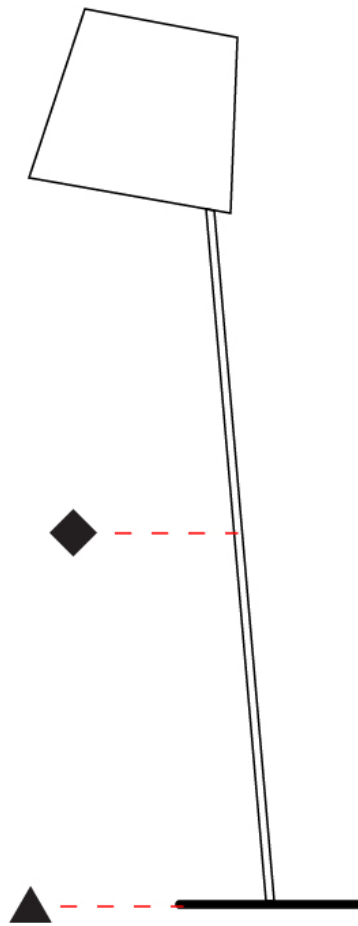
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



D

EXCENTRICA PORTABLE

D54051- _____ - _____

base number Finish Options Finish Options

- 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: Excentrica
 Partner: Fambuena
 Division: Design
 Installation: Portable
 Product Type: Floor
 Mounting Location: Floor
 Light Distribution: Direct

PHYSICAL

Shape: Cylinder
 Diameter (mm): 230
 Diameter (in): 9 1/16
 Height (mm): 1350
 Height (in): 53 1/8
 Diffuser: Cotton Shade
 Fixture Finish: [BRA / PWT](#)
 Holder Finish: BLM / WHM
 Fixture Material: Metal / Marble

ELECTRICAL

Number of Lamps: 1
 Lamp Type: LED Retrofit
 Lamp Shape: B10
 Bulb Included: Bulb Not Included
 Max. Wattage Per Lamp (W): 4
 Lamp Base: E12
 Input Voltage (V): 120

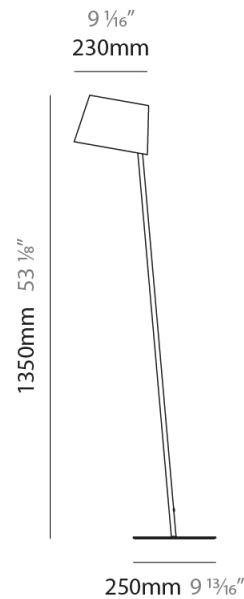
LED

OPTICAL

RATINGS AND CERTIFICATIONS

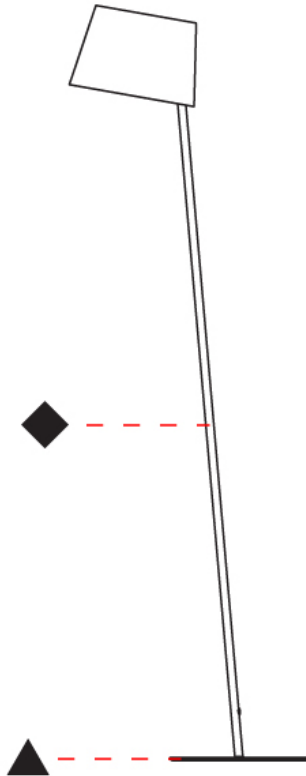
Certified By: Certified for North American Standards
 IP rating: IP20

PROJECT
TYPE
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QUANTITY
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D54051-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



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PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____

Fixture Finish

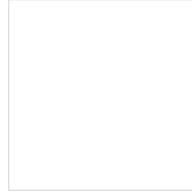
Brass - BRA



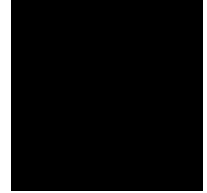
Pewter - PWT



White - WHI

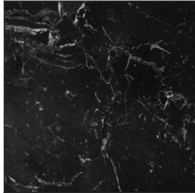


Black - BLK



Holder Finish

Black Marble - BLM



White Marble - WHM



White - WHI



Black - BLK



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

	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)