

## 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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Pendant

#### 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  
 Light Distribution: Direct  
 Diffuser: Cotton Shade  
 Fixture Finish: WHI / BLK / BRA / PWT  
 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

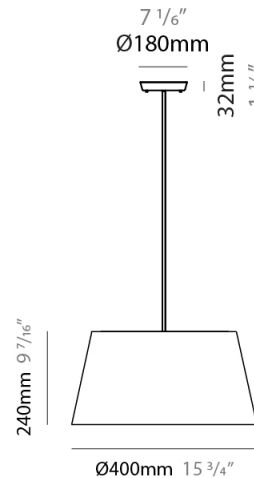
#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



## EXCENTRICA SUSPENSION

D51020-

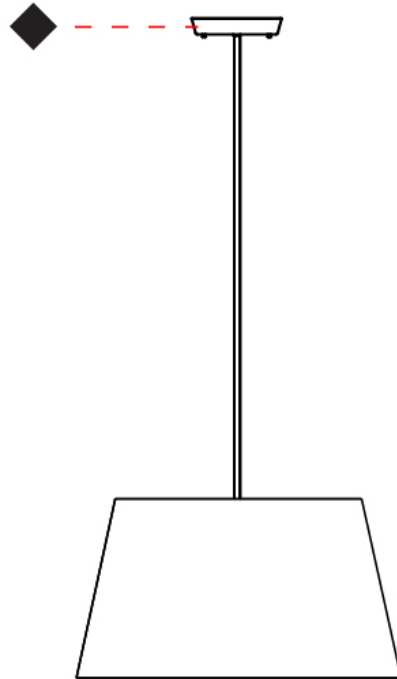
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

## 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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Suspension  
 Mounting Location: Ceiling  
 Subcategory: Ambient

#### PHYSICAL

Shape: Cylinder  
 Diameter (mm): 650  
 Diameter (in): 25 <sup>9</sup>/<sub>16</sub>  
 Height (mm): 650  
 Height (in): 25 <sup>9</sup>/<sub>16</sub>  
 Max. Overall Height (mm): 2650  
 Max. Overall Height (in): 104 <sup>5</sup>/<sub>16</sub>  
 Light Distribution: Direct  
 Diffuser: Cotton Shade  
 Fixture Finish: WHI / BLK / BRA / PWT  
 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

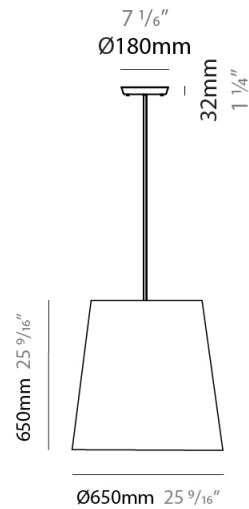
#### LED

#### 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 \_\_\_\_\_



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             
 Brand: Fambuena             
 Division: Design             
 Mounting Type: Surface             
 Mounting Location: Wall             
 Subcategory: Ambient           

#### 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             
 Light Distribution: Direct             
 Diffuser: Cotton Shade             
[Fixture Finish: WHI / BLK / BRA / PWT](#)             
 Fixture Material: Metal           

#### ELECTRICAL

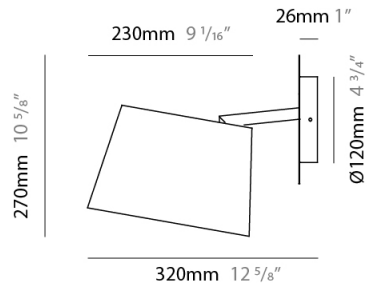
Number of Lamps: 1             
 Lamp Type: LED Retrofit             
 Lamp Shape: B10             
 Bulb Included: Bulb Not Included             
 Max. Wattage Per Lamp (W): 4             
 Lamp Base: E12             
 Input Voltage (V): 120           

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



D53011-

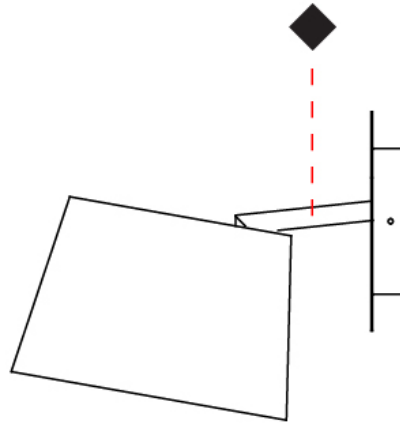
PROJECT

TYPE

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QUANTITY

DATE



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## 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 \_\_\_\_\_  
 Brand: Fambuena \_\_\_\_\_  
 Division: Design \_\_\_\_\_  
 Mounting Type: Portable \_\_\_\_\_  
 Mounting Location: Table \_\_\_\_\_  
 Subcategory: Table \_\_\_\_\_

#### PHYSICAL

Shape: Cylinder \_\_\_\_\_  
 Diameter (mm): 380 \_\_\_\_\_  
 Diameter (in): 14 <sup>15</sup>/<sub>16</sub> \_\_\_\_\_  
 Height (mm): 700 \_\_\_\_\_  
 Height (in): 27 <sup>9</sup>/<sub>16</sub> \_\_\_\_\_  
 Light Distribution: Direct \_\_\_\_\_  
 Diffuser: Cotton Shade \_\_\_\_\_  
 Fixture Finish: WHI / BLK \_\_\_\_\_  
 Fixture Material: Metal \_\_\_\_\_  
 Upon Request: Bolt Down \_\_\_\_\_

#### ELECTRICAL

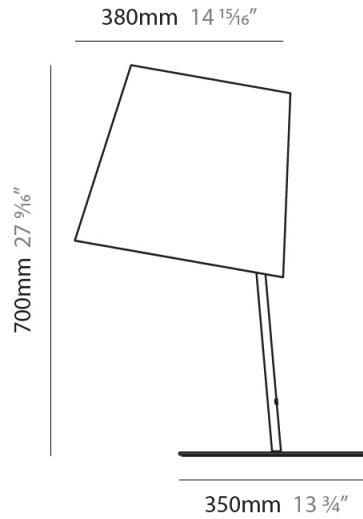
Number of Lamps: 1 \_\_\_\_\_  
 Lamp Type: LED Retrofit \_\_\_\_\_  
 Lamp Shape: A19 \_\_\_\_\_  
 Bulb Included: Bulb Not Included \_\_\_\_\_  
 Max. Wattage Per Lamp (W): 7 \_\_\_\_\_  
 Lamp Base: E26 \_\_\_\_\_  
 Input Voltage (V): 120 \_\_\_\_\_  
 Upon Request: 277Vac / GU24 \_\_\_\_\_

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



D54006-

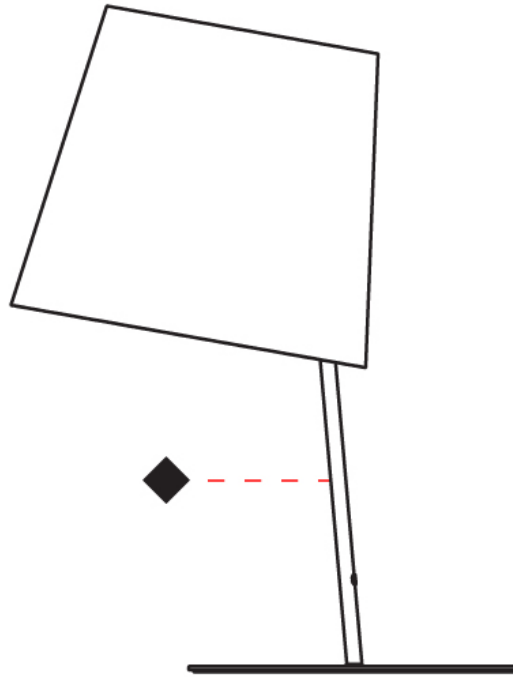
PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

SPECIFIER \_\_\_\_\_

QUANTITY \_\_\_\_\_

DATE \_\_\_\_\_





## EXCENTRICA PORTABLE

### D54007-

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             
 Brand: Fambuena             
 Division: Design             
 Mounting Type: Portable             
 Mounting Location: Table             
 Subcategory: Table           

#### PHYSICAL

Shape: Cylinder             
 Diameter (mm): 230             
 Diameter (in): 9 1/16             
 Height (mm): 440             
 Height (in): 17 5/16             
 Light Distribution: Direct             
 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           

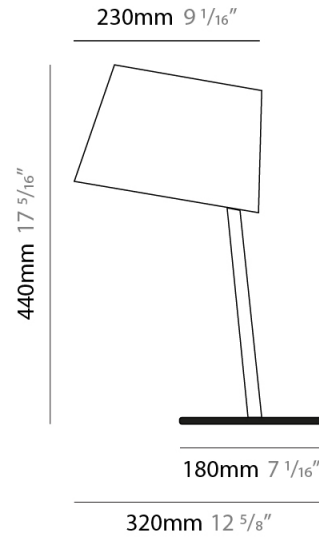
#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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

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DATE



D54007-

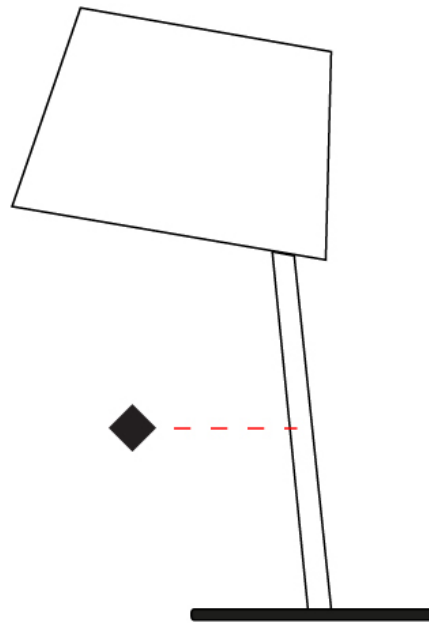
PROJECT

TYPE

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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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Table  
 Subcategory: Table

### 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  
 Light Distribution: Direct  
 Diffuser: Cotton Shade  
 Fixture Finish: WHI / BLK  
 Holder Finish: WHI / BLK  
 Fixture Material: Metal  
 Upon Request: Bolt Down

### ELECTRICAL

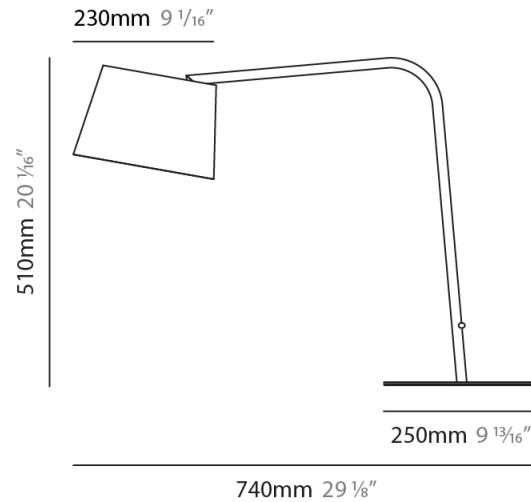
Number of Lamps: 1  
 Lamp Type: LED Retrofit  
 Lamp Shape: B10  
 Bulb Included: Bulb Not Included  
 Max. Wattage Per Lamp (W): 4  
 Lamp Base: E12  
 Input Voltage (V): 120

### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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



D54008-

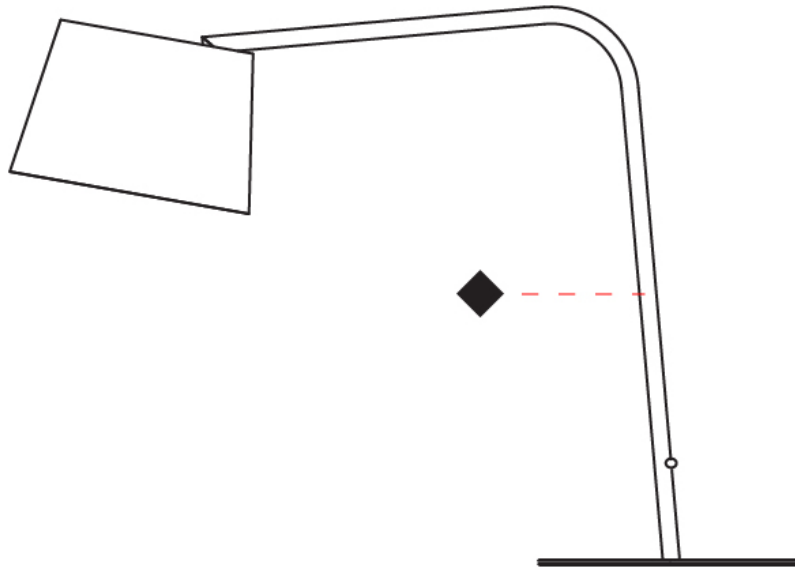
PROJECT

TYPE

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QUANTITY

DATE



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## 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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Floor  
 Subcategory: Floor

#### PHYSICAL

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

#### ELECTRICAL

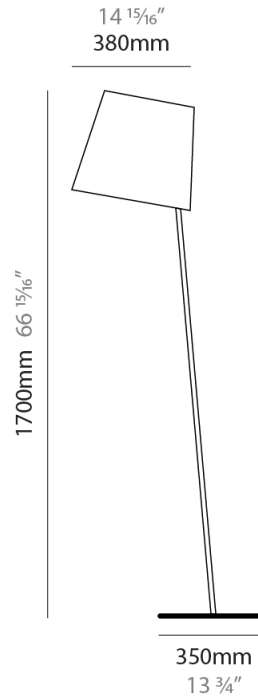
Number of Lamps: 1  
 Lamp Type: LED Retrofit  
 Lamp Shape: A19  
 Bulb Included: Bulb Not Included  
 Max. Wattage Per Lamp (W): 12  
 Lamp Base: E26  
 Input Voltage (V): 120  
 Upon Request: 277Vac / GU24

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



D54009-

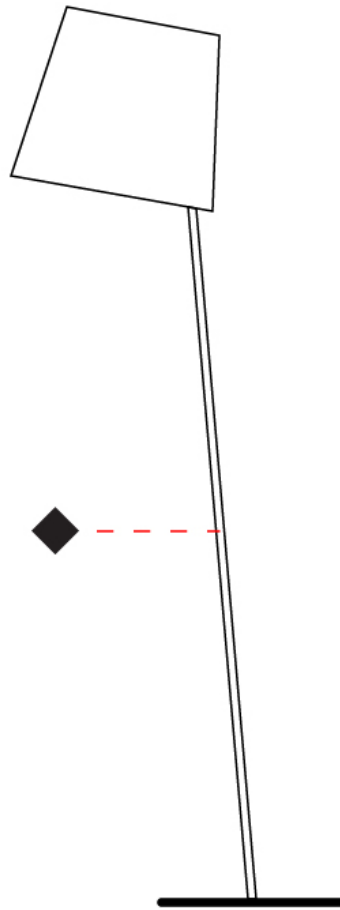
PROJECT

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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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Floor  
 Subcategory: Floor

#### PHYSICAL

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

#### ELECTRICAL

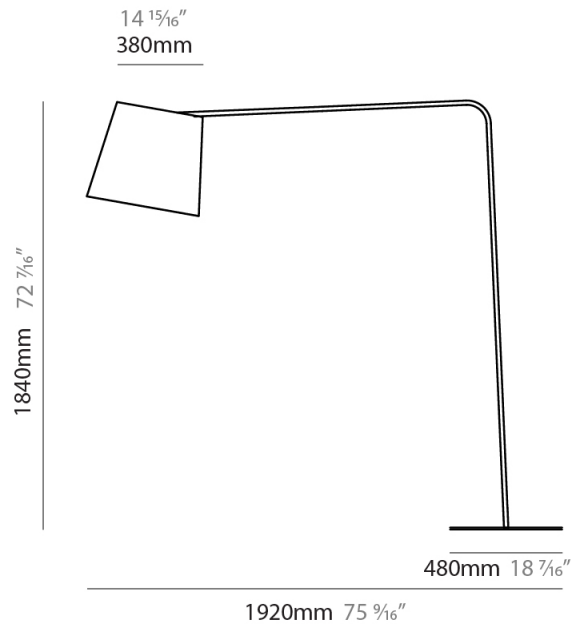
Number of Lamps: 1  
 Lamp Type: LED Retrofit  
 Lamp Shape: A19  
 Bulb Included: Bulb Not Included  
 Max. Wattage Per Lamp (W): 12  
 Lamp Base: E26  
 Input Voltage (V): 120  
 Upon Request: 277Vac / GU24

#### LED

#### OPTICAL

#### RATINGS AND CERTIFICATIONS

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



## EXCENTRICA PORTABLE

D54010-

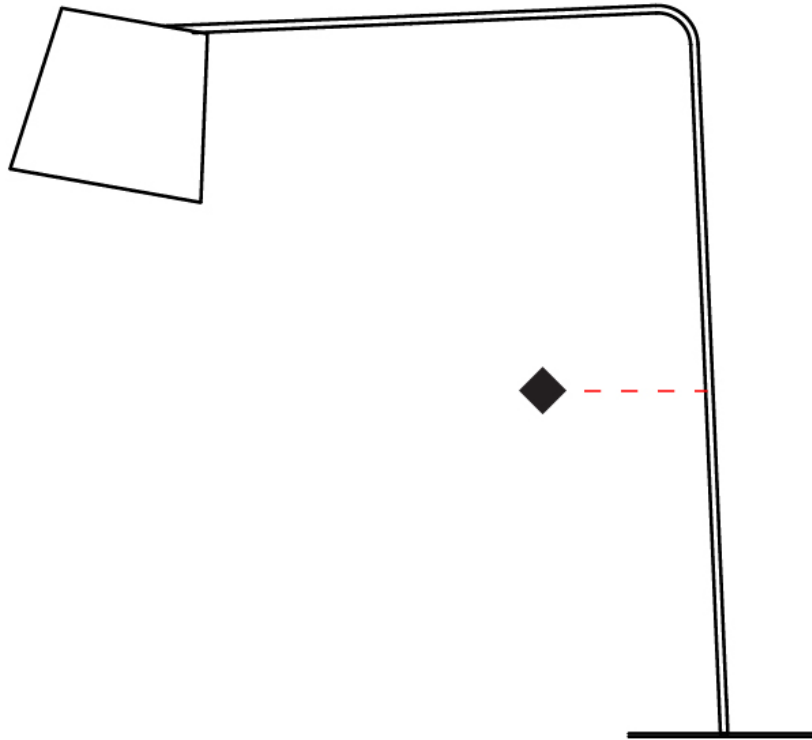
PROJECT

TYPE

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QUANTITY

DATE



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## 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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Table  
 Subcategory: Table

### PHYSICAL

Shape: Cylinder  
 Diameter (mm): 380  
 Diameter (in): 14 <sup>15</sup>/<sub>16</sub>  
 Height (mm): 700  
 Height (in): 27 <sup>9</sup>/<sub>16</sub>  
 Light Distribution: Direct  
 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

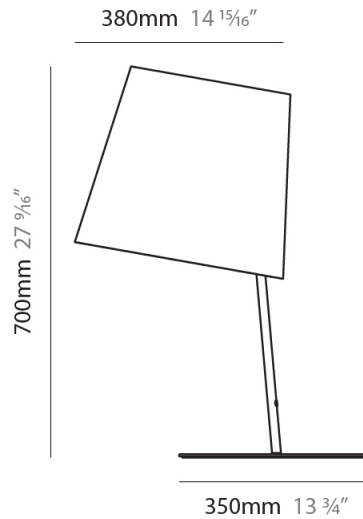
### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

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D54046-

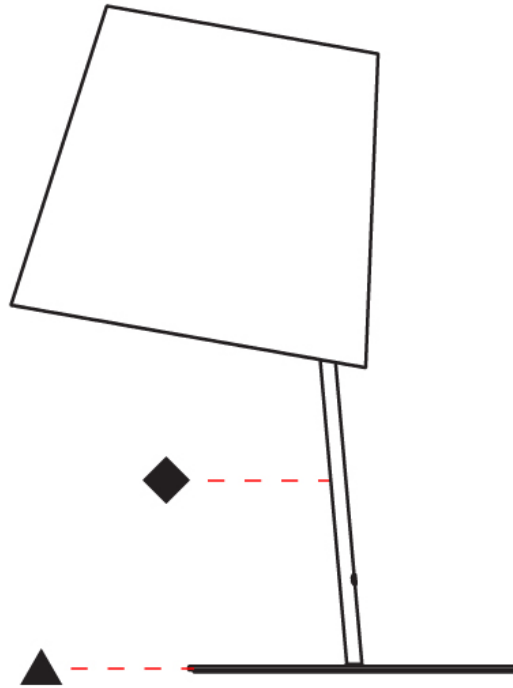
PROJECT

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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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Table  
 Subcategory: Table

### PHYSICAL

Shape: Cylinder  
 Diameter (mm): 230  
 Diameter (in): 9 1/16  
 Height (mm): 440  
 Height (in): 17 5/16  
 Light Distribution: Direct  
 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

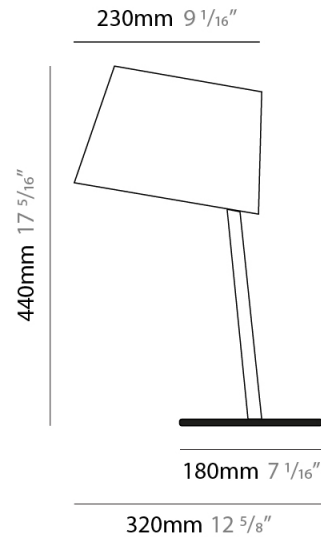
### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

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DATE



D54047-

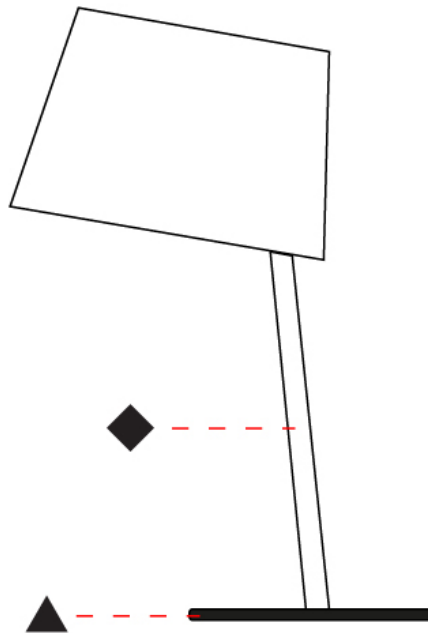
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## EXCENTRICA PORTABLE

**D54048-** \_\_\_\_\_ - \_\_\_\_\_  
 base number      Finish      Finish  
                          Options      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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Table  
 Subcategory: Table

### 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  
 Light Distribution: Direct  
 Diffuser: Cotton Shade  
 Fixture Finish: [BRA / PWT](#)  
 Holder Finish: [BLM / WHM](#)  
 Fixture Material: Metal / Marble  
 Upon Request: Bolt Down

### ELECTRICAL

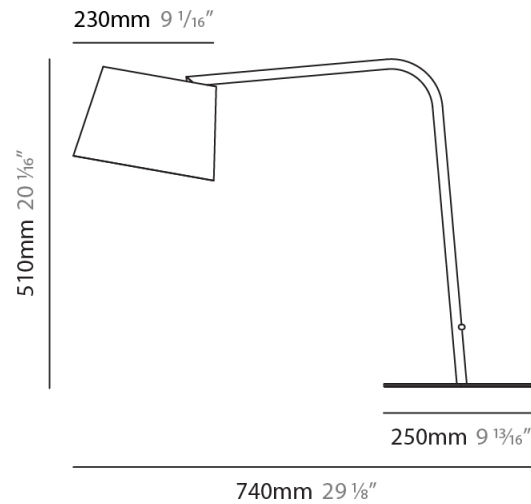
Number of Lamps: 1  
 Lamp Type: LED Retrofit  
 Lamp Shape: B10  
 Bulb Included: Bulb Not Included  
 Max. Wattage Per Lamp (W): 4  
 Lamp Base: E12  
 Input Voltage (V): 120

### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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



D54048-

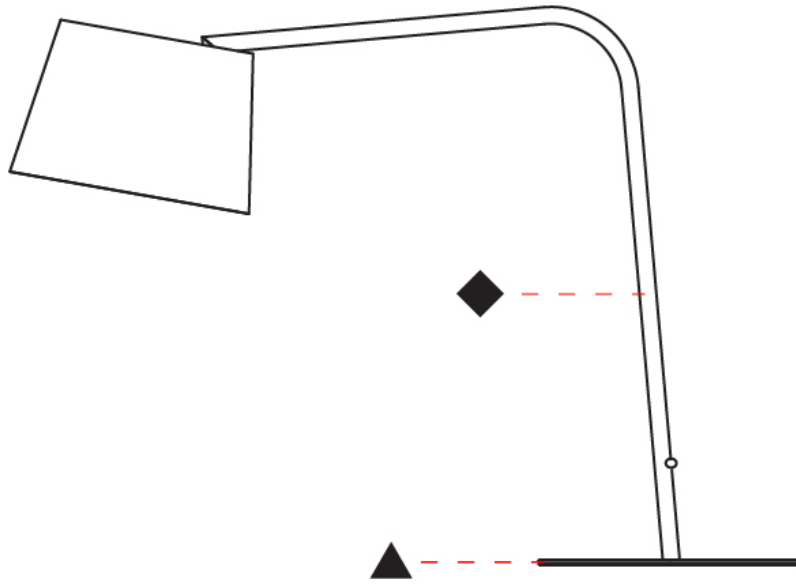
PROJECT

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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Floor  
 Subcategory: Floor

### PHYSICAL

Shape: Abstract  
 Diameter (mm): 380  
 Diameter (in): 14 <sup>15</sup>/<sub>16</sub>  
 Height (mm): 1700  
 Height (in): 66 <sup>15</sup>/<sub>16</sub>  
 Light Distribution: Direct  
 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

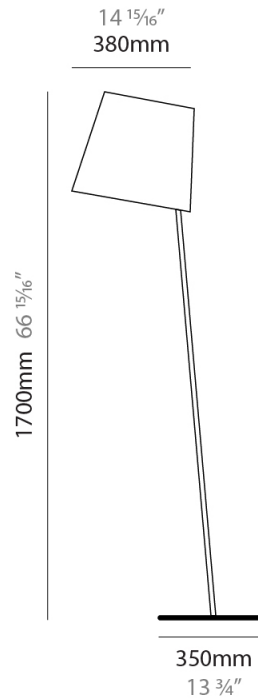
### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

PROJECT \_\_\_\_\_  
 TYPE \_\_\_\_\_  
 SPECIFIER \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 DATE \_\_\_\_\_



D54049-

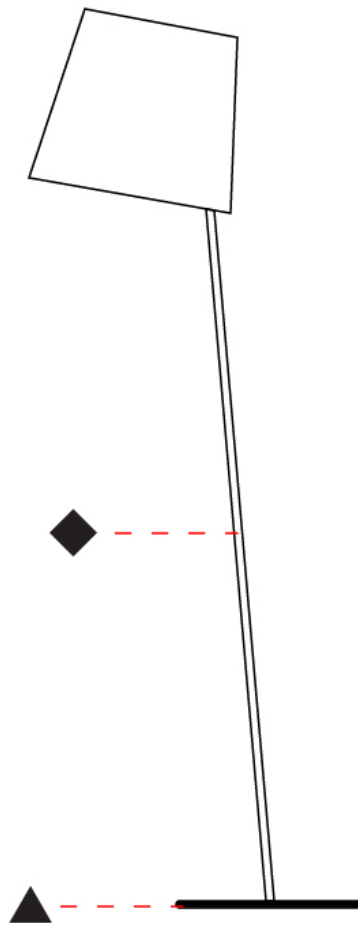
PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

SPECIFIER \_\_\_\_\_

QUANTITY \_\_\_\_\_

DATE \_\_\_\_\_



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## EXCENTRICA PORTABLE

**D54051-** -  
 base number    Finish    Finish  
                          Options    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  
 Brand: Fambuena  
 Division: Design  
 Mounting Type: Portable  
 Mounting Location: Floor  
 Subcategory: Floor

### PHYSICAL

Shape: Cylinder  
 Diameter (mm): 230  
 Diameter (in): 9 1/16  
 Height (mm): 1350  
 Height (in): 53 1/8  
 Light Distribution: Direct  
 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

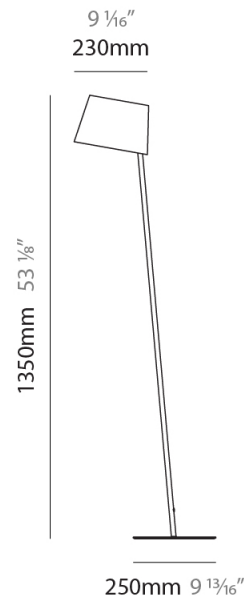
### LED

### OPTICAL

### RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



D54051-

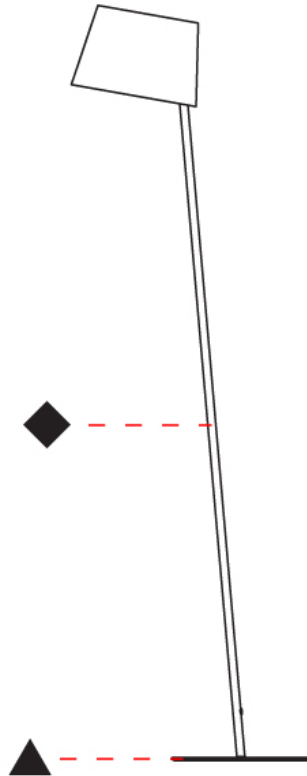
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

SPECIFIER \_\_\_\_\_

QUANTITY \_\_\_\_\_

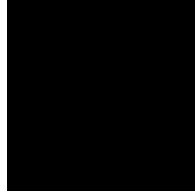
DATE \_\_\_\_\_

### Fixture Finish

White - WHI



Black - BLK



Brass - BRA



Pewter - PWT



### Holder Finish

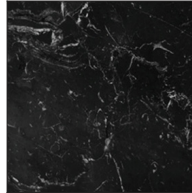
White - WHI



Black - BLK



Black Marble - BLM



White Marble - WHM



**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)