

MATRIX SUSPENSION

D1010082-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling

PHYSICAL

Shape: Cylinder
 Length (mm): 350
 Length (in): 13 3/4
 Width (mm): 35
 Width (in): 13/8
 Height (mm): 320
 Height (in): 12 5/8
 Max. Overall Height (mm): 2320
 Max. Overall Height (in): 91 7/16
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 1.8
 Total Output Wattage (W): 1.5
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 162
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010082-

PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



D

MATRIX SUSPENSION

D1010083-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling

PHYSICAL

Shape: Cylinder
 Length (mm): 600
 Length (in): 23 ⁵/₈
 Width (mm): 35
 Width (in): 13/8
 Height (mm): 320
 Height (in): 12 ⁵/₈
 Max. Overall Height (mm): 2320
 Max. Overall Height (in): 91 ⁷/₁₆
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 4.2
 Total Output Wattage (W): 3.5
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 378
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010083-

PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



D

MATRIX SUSPENSION

D1010084-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling

PHYSICAL

Shape: Cylinder
 Length (mm): 1050
 Length (in): 41 ³/₈"
 Width (mm): 35
 Width (in): 13/8
 Height (mm): 320
 Height (in): 12 ⁵/₈"
 Max. Overall Height (mm): 2320
 Max. Overall Height (in): 91 ⁷/₁₆"
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9
 Total Output Wattage (W): 7.6
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 810
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010084-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



D

MATRIX SUSPENSION

D1010085-

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: Matrix
Partner: Quasar
Division: Design
Installation: Suspension
Product Type: Pendant
Mounting Location: Ceiling

PHYSICAL

Shape: Cylinder
Length (mm): 600
Length (in): 23 ⁵/₈
Width (mm): 35
Width (in): 13/8
Height (mm): 320
Height (in): 12 ⁵/₈
Max. Overall Height (mm): 2320
Max. Overall Height (in): 91 ⁷/₁₆
[Fixture Finish: NIC / BRA / BBR](#)
Fixture Material: Metal / Glass
Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 3.6
Total Output Wattage (W): 3
Dimming: Phase Dimming (120Vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 24

LED

Color Temperature (°K): 2700
Max. Delivered Lumen (lm): 324
CRI: >95 CRI
Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



MATRIX SUSPENSION

D1010086-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling

PHYSICAL

Shape: Cylinder
 Length (mm): 1100
 Length (in): 43 ⁵/₁₆
 Width (mm): 35
 Width (in): 13/8
 Height (mm): 320
 Height (in): 12 ⁵/₈
 Max. Overall Height (mm): 2320
 Max. Overall Height (in): 91 ⁷/₁₆
 Fixture Finish: [NIC / BRA / BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8.4
 Total Output Wattage (W): 7.1
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 756
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010086-

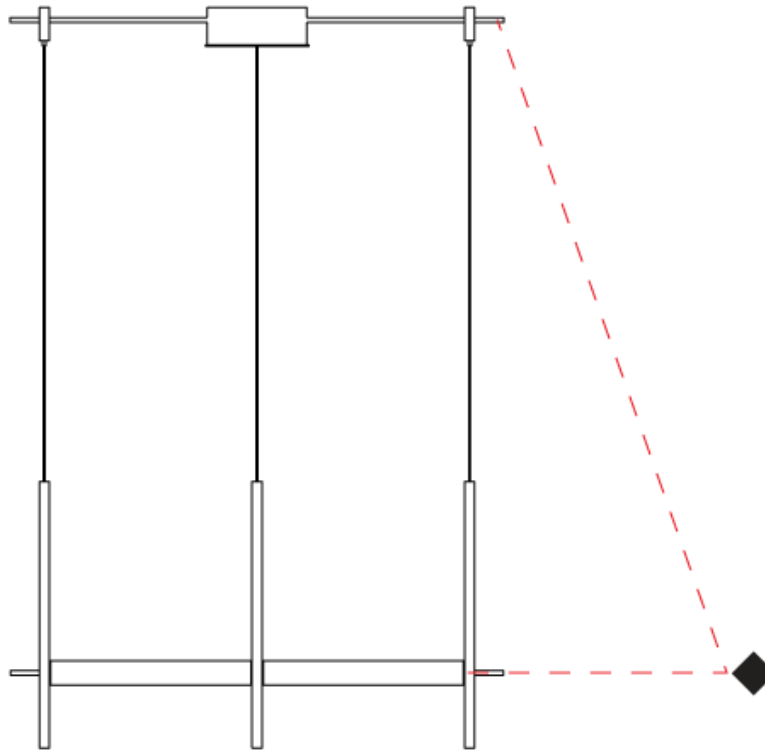
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

PROJECT _____
 TYPE _____
 SPECIFIER _____
 QUANTITY _____
 DATE _____

MATRIX SUSPENSION

D1010088-

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: Matrix _____
 Partner: Quasar _____
 Division: Design _____
 Installation: Suspension _____
 Product Type: Pendant _____
 Mounting Location: Ceiling _____

PHYSICAL

Shape: Abstract _____
 Length (mm): 850 _____
 Length (in): 33 ⁷/₁₆ _____
 Width (mm): 850 _____
 Width (in): 33 ⁷/₁₆ _____
 Height (mm): 1600 _____
 Height (in): 63 _____
 Max. Overall Height (mm): 3600 _____
 Max. Overall Height (in): 141 ³/₄ _____
 Fixture Finish: [NIC / BRA / BBR](#) _____
 Fixture Material: Metal / Glass _____
 Cable Details: 2,000mm/78 3/4" Transparent Cable _____

ELECTRICAL

Lamp Type: LED _____
 Input Wattage (W): 39.6 _____
 Total Output Wattage (W): 33.6 _____
 Dimming: Phase Dimming (120Vac Only) _____
 Driver Included: Yes _____
 Driver Location: Integrated _____
 Driver Type: Constant Voltage - Universal _____
 Driver Class: Class 2 _____
 Input Voltage (V): 120 - 277 _____
 Output Voltage (V): 24 _____

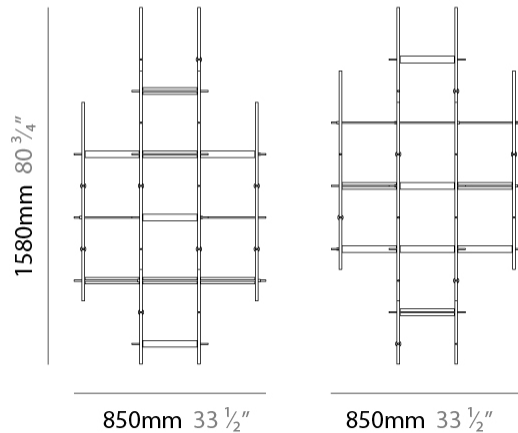
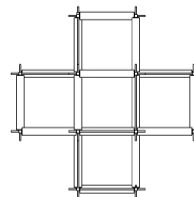
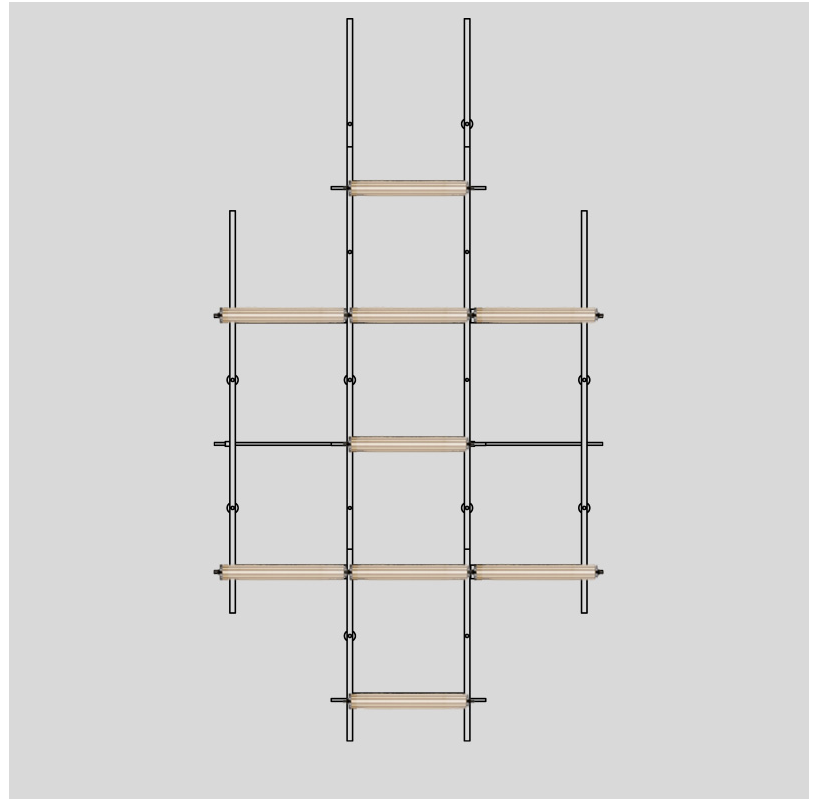
LED

Color Temperature (°K): 2700 _____
 Max. Delivered Lumen (lm): 3564 _____
 CRI: >95 CRI _____
 Lamp Life (hrs): 50000 _____

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010088-

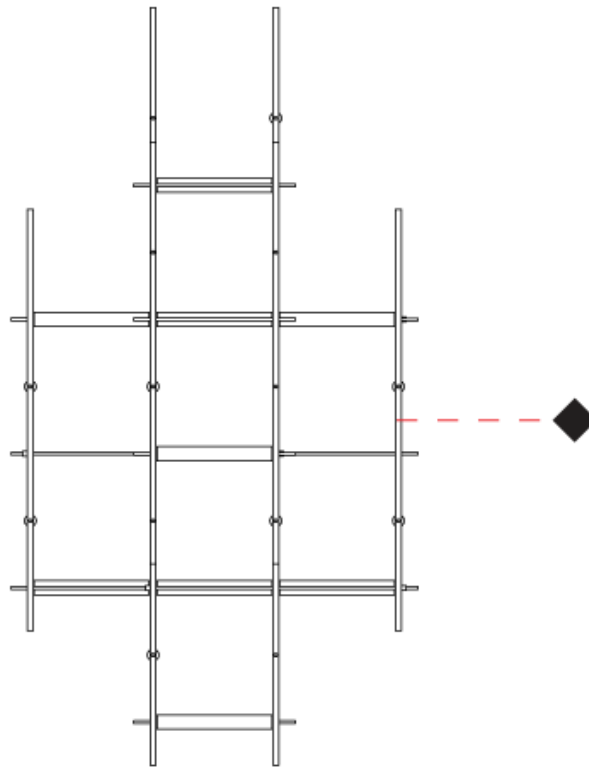
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

MATRIX SUSPENSION

D1010089-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Suspension
 Product Type: Pendant
 Mounting Location: Ceiling

PHYSICAL

Shape: Rectangle
 Length (mm): 1600
 Length (in): 1413/4
 Width (mm): 350
 Width (in): 13 3/4
 Height (mm): 900
 Height (in): 35 7/16
 Max. Overall Height (mm): 2900
 Max. Overall Height (in): 114 3/16
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 32.4
 Total Output Wattage (W): 27.5
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

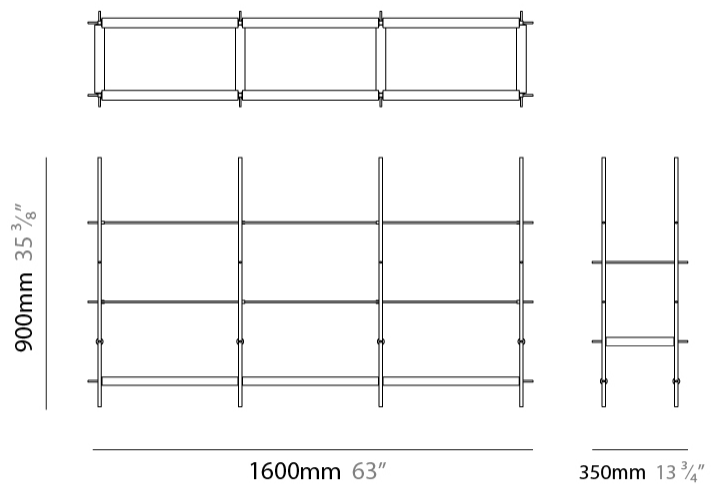
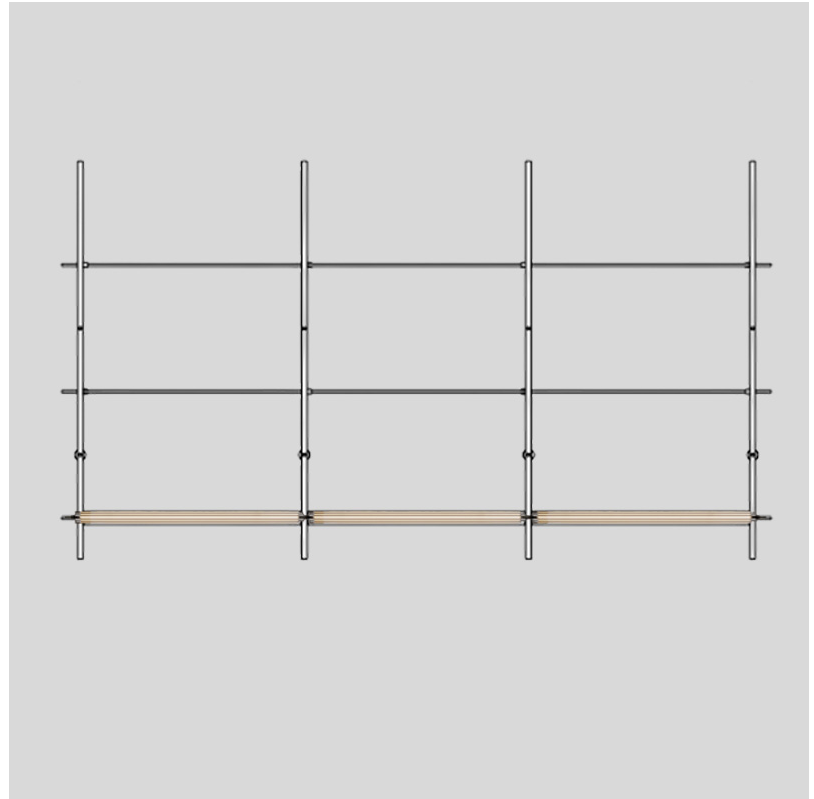
LED

Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 2916
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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



MATRIX SUSPENSION

D1010089-

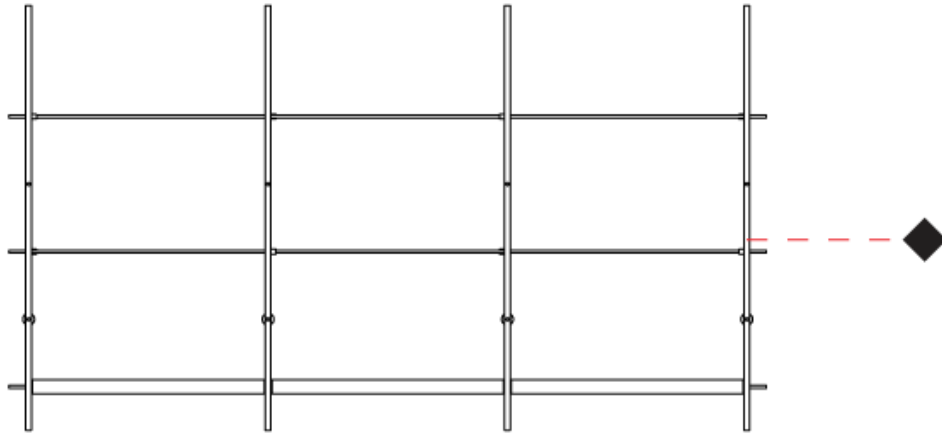
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



D

MATRIX SURFACE

D103159-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Surface
 Product Type: Wall Surface
 Mounting Location: Wall

PHYSICAL

Shape: Cylinder
 Length (mm): 130
 Length (in): 5 1/8
 Width (mm): 110
 Width (in): 4 3/16
 Height (mm): 350
 Height (in): 13 3/4
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass
 Cable Details: 2,000mm/78 3/4" Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 1.8
 Total Output Wattage (W): 1.5
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

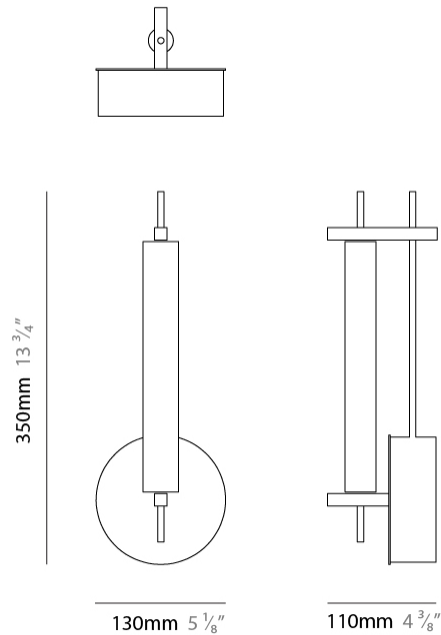
Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 162
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



MATRIX SURFACE

D103159-

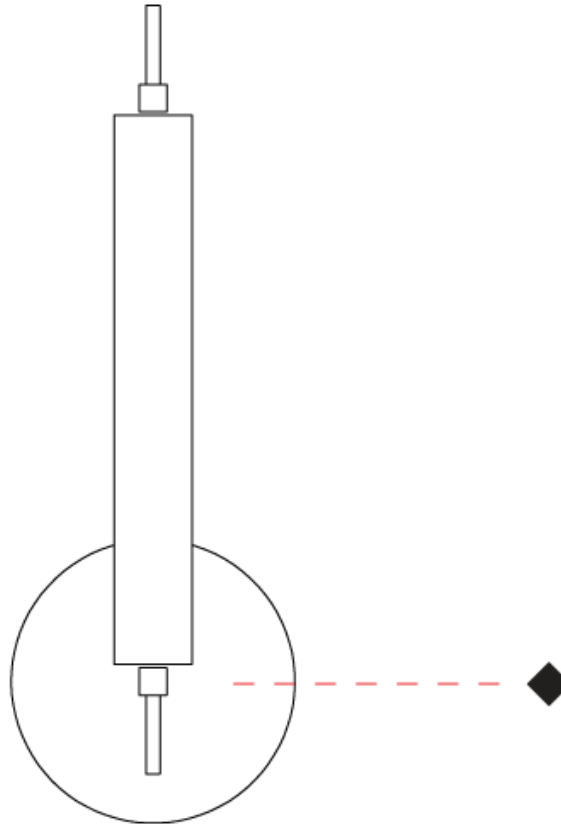
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

MATRIX SURFACE

D103160-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Surface
 Product Type: Wall Surface
 Mounting Location: Wall

PHYSICAL

Shape: Cylinder
 Length (mm): 130
 Length (in): 5 1/8
 Width (mm): 110
 Width (in): 4 3/16
 Height (mm): 600
 Height (in): 23 5/8
 Fixture Finish: [NIC / BRA / BBR](#)
 Fixture Material: Metal / Glass

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 4.2
 Total Output Wattage (W): 3.6
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

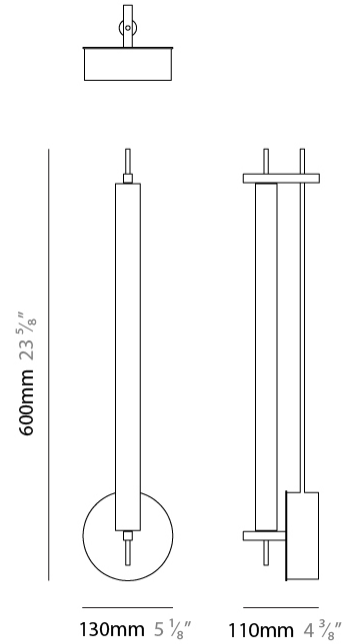
Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 378
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



MATRIX SURFACE

D103160-

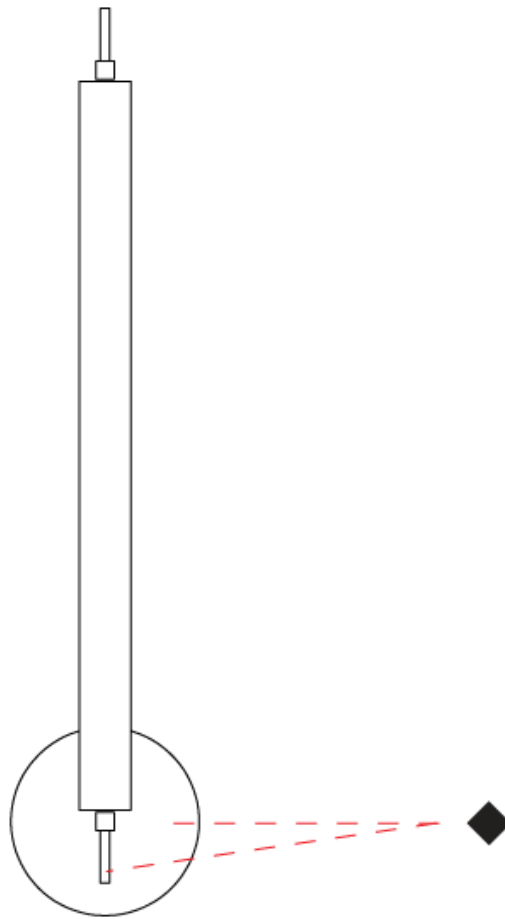
PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____



D

MATRIX SURFACE

D103161-

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: Matrix
 Partner: Quasar
 Division: Design
 Installation: Surface
 Product Type: Wall Surface
 Mounting Location: Wall

PHYSICAL

Shape: Cylinder
 Length (mm): 1100
 Length (in): 5 1/8
 Width (mm): 110
 Width (in): 4 3/16
 Height (mm): 1100
 Height (in): 43 11/16
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9
 Total Output Wattage (W): 7.6
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

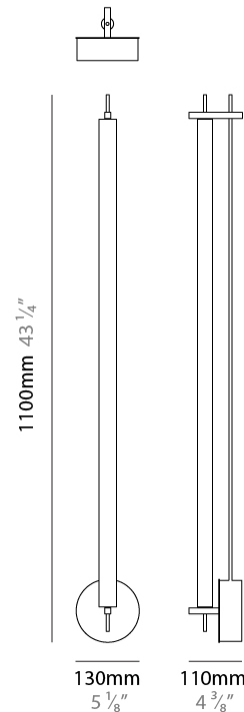
Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 810
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



MATRIX SURFACE

D103161-

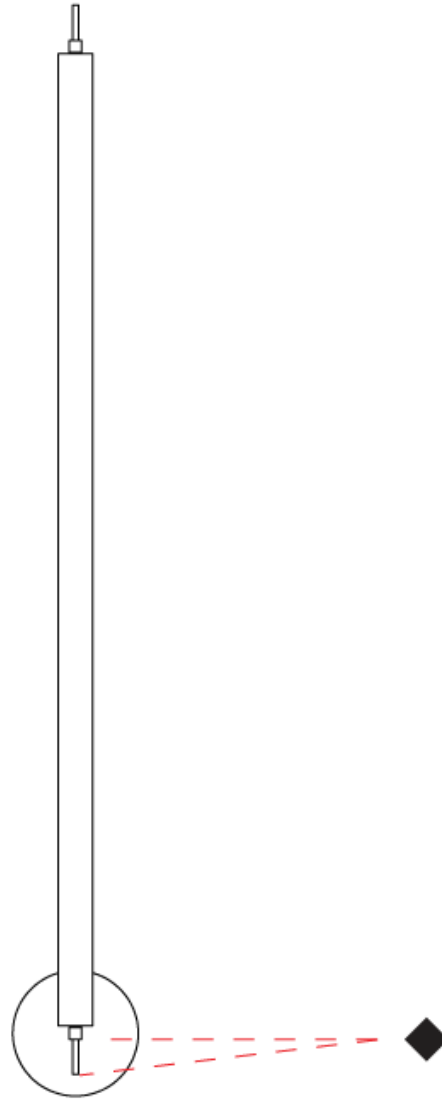
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

MATRIX SURFACE

D103162-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
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GENERAL

Series: Matrix
 Partner: Quasar
 Division: Design
 Installation: Surface
 Product Type: Wall Surface
 Mounting Location: Wall

PHYSICAL

Shape: Cylinder
 Length (mm): 130
 Length (in): 5 1/8
 Width (mm): 110
 Width (in): 4 3/8
 Height (mm): 600
 Height (in): 23 5/8
 Fixture Finish: [NIC / BRA / BBR](#)
 Fixture Material: Metal / Glass

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 3.6
 Total Output Wattage (W): 3
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

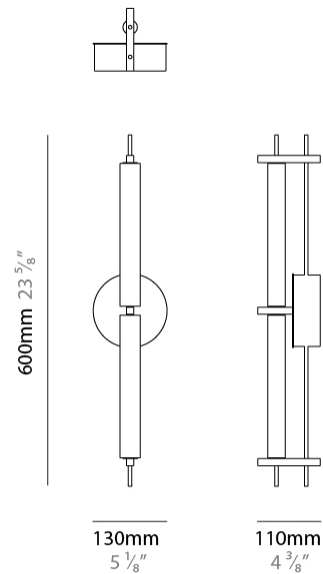
Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 324
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

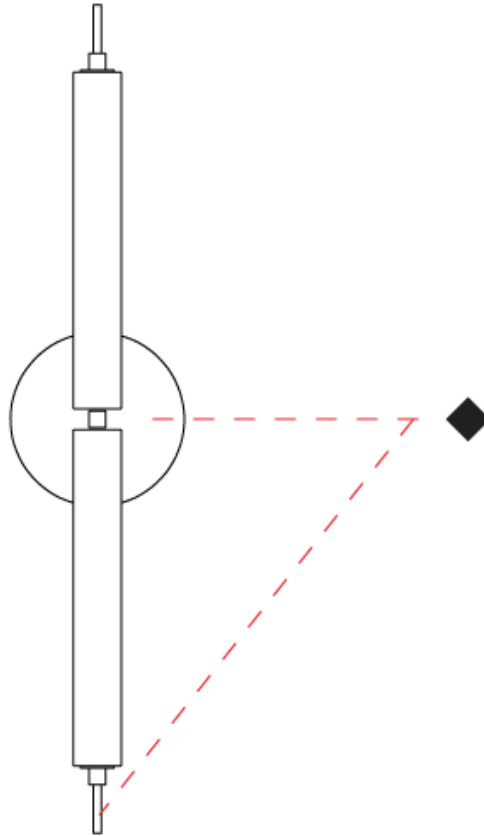
PROJECT
TYPE
SPECIFIER
QUANTITY
DATE



MATRIX SURFACE

D103162-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



D

MATRIX SURFACE

D103163-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
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GENERAL

Series: Matrix
 Partner: Quasar
 Division: Design
 Installation: Surface
 Product Type: Wall Surface
 Mounting Location: Wall

PHYSICAL

Shape: Cylinder
 Length (mm): 130
 Length (in): 5 1/8
 Width (mm): 110
 Width (in): 4 3/16
 Height (mm): 1100
 Height (in): 43 11/16
 Fixture Finish: [NIC](#) / [BRA](#) / [BBR](#)
 Fixture Material: Metal / Glass

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8.4
 Total Output Wattage (W): 7.1
 Dimming: Phase Dimming (120Vac Only)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Voltage - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

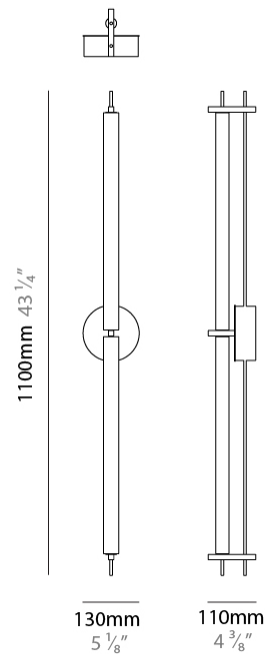
Color Temperature (°K): 2700
 Max. Delivered Lumen (lm): 756
 CRI: >95 CRI
 Lamp Life (hrs): 50000

OPTICAL

RATINGS AND CERTIFICATIONS

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

PROJECT
TYPE
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DATE



MATRIX SURFACE

D103163-

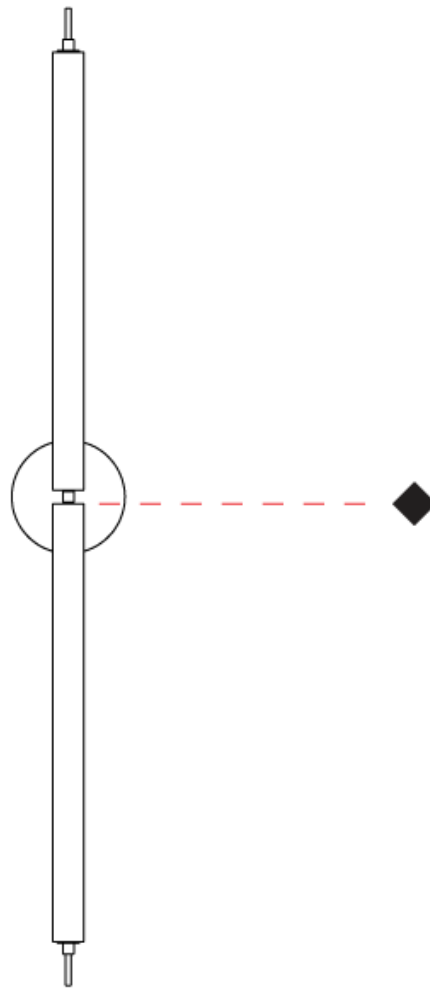
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



D

MATRIX COLOR FINISH CHART

PROJECT _____

TYPE _____

SPECIFIER _____

QUANTITY _____

DATE _____

Fixture Finish

Nickel - NIC



Brass - BRA



Black Brass - BBR



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.













MATRIX











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)