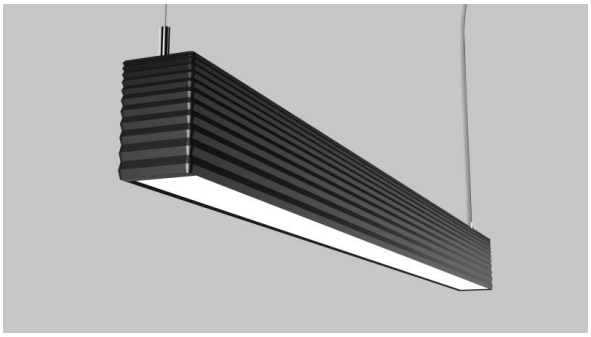
BELLOWS

FULL SPECIFICATION SHEET

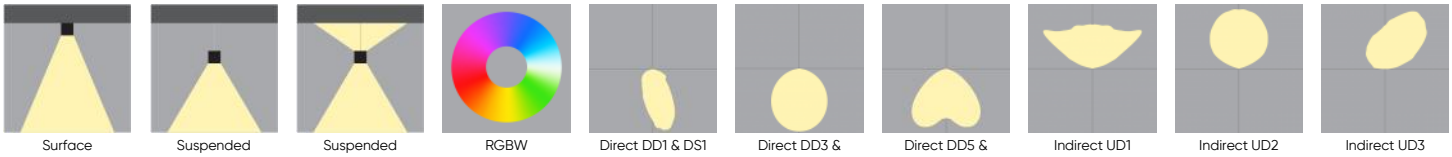


FIXTURE TYPE	FIXTURE CODE	QUANTITIES

1 DESCRIPTION

BELLOWS takes the standard linear system in a new direction, its sculptural pleated form introducing rhythm, depth, and character to the ceiling plane. Inspired by the ridged profile of fireplace bellows, this 2.5" aperture luminaire combines bold architectural presence with the reliable performance of a proven workhorse. Its seamless rollout lens delivers smooth, uniform illumination, while Diffused, Batwing, and Asymmetric distributions support a broad range of lighting applications. With multiple lumen packages, high-efficacy performance, BIOS integration for circadian support, and 13 distinctive finishes, **BELLOWS** brings together technical precision and a refined, tactile design language in one expressive architectural fixture.

2 OPTICS & FEATURES



Surface | Suspended Direct | Suspended Direct/Indirect | RGBW | Direct DD1 & DS1 | Direct DD3 & DS3 | Direct DD5 & DS5 | Indirect UD1 | Indirect UD2 | Indirect UD3

Indirect UD4 | Bios | Declare | PoE | Tunable White

3 APPROVALS



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4 GENERAL SPECIFICATION

BODY
Aluminum.

FINISH
Powder coated.

SUSPENSION
Steel cables.

POWER CABLE
Silver braided.

DRIVERS
HPF electronic drivers for 120-277V, 347 (EU-240V). The driver is integral to the fixture housing.

POE
Can be integrated into your data network via Power over Ethernet (PoE) connectivity.

BIOS
For circadian lighting, consult factory.

JUNCTIONS
X and T junctions available, consult factory.

TUNABLE WHITE
Tunable White range from 2700K to 6500K is available.

DELIVERED LUMENS
Delivered lumens & LPW based on 4000K CRI 80+

MECHANICAL
Luminaires mount directly over J box (by others).

FIXTURE LENGTHS
Available in 1" increments. Contact the factory for details.

REPORTED L70 @25°C (77°F)
> 60,000 hrs @ 2000 lumens/ft (6000 lumens/m)

ESTIMATED L70 @25°C (77°F)
> 165,000 hrs @ 2000 lumens/ft (6000 lumens/m)

LENS
Opal acrylic lens in 2 versions: roll-out or snap-in. The snap-in version is provided with standalone luminaires, while the roll-out lens is designed for continuous systems. When an order includes both standalone and continuous units, the roll-out lens will be provided for all.

INTEGRAL EMERGENCY SYSTEM(E1)
Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The self contained system includes the inverter module, NiCad batteries, LED charge indicator and test switch (NA only). Not available with a 347V supply. Refer to the Emergency option notes below for wattage, configuration and regional details.

LUMINAIRE LEVEL LIGHTING CONTROLS
Designed for integration with luminaire-level lighting controls from Cooper, Lutron, and Wattstopper. Standard options are listed on this specification sheet. Additional control solutions are available upon factory request.

APPROVALS
Damp Rated.

DESIGNED BY
Mirko Rotondi

DESIGN
US Design Patent Pending.

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SEISMIC BRACING

Seismic bracing kits are available to meet compliance requirements. Consult the factory for details.

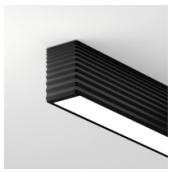
SUSTAINABILITY

Designed for on-site LED board, driver, and optic replacement. Contact the factory for maintenance documentation.

5 DESIGN OPTIONS

LUMINAIRE

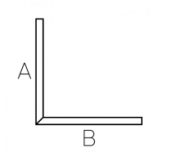

Pendant


Surface

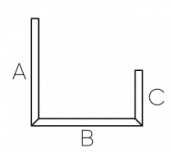
RUN TYPE



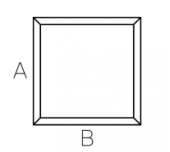
Straight



L shape



U shape



Quad

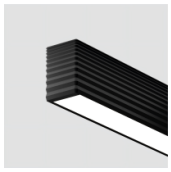
Custom Shape Required

* T junction available, consult factory.

* There is one power cable for an overall max length of 50ft (15240mm), extra power cables are required beyond that. Consult factory.

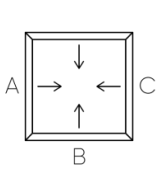
END CAP PROFILE


Not required

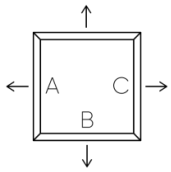

Flat

ASYMMETRIC DIRECTION


Not required



Inward [1]



Outward [1]

[1] Only required when the run type is not straight (TR01). If an asymmetric distribution is required with the straight run type (TR01), the asymmetric distribution will be directed away from the wall.

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FIXTURE FINISH

White - Textured


Black Metallic - Textured

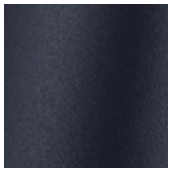

Silver Metallic - Textured


Gold Metallic - Textured


Wood grain - Light Cherry [1]


Wood grain - Dark Walnut [1]


Wood grain - White Oak [1]


Midnight Blue Metallic - Textured


Copper Metallic


Charcoal Metallic - Textured


Bronze Metallic - Textured


Champagne Metallic


Red Metallic - Textured

[1] Wood grain finishes may incur longer lead times and setup charges. Consult factory for details.

CANOPY FINISH

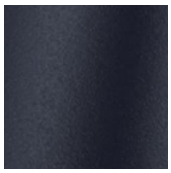

Not required

White - Textured


Black Metallic - Textured


Silver Metallic - Textured


Gold Metallic - Textured


Midnight Blue Metallic - Textured


Copper Metallic


Charcoal Metallic - Textured


Bronze Metallic - Textured


Champagne Metallic


Red Metallic - Textured

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6 HOW TO ORDER

LUMINAIRE TYPE

BLLP Pendant
BLLC Surface

DIRECTION

DT1 Direct
DT2 Direct/Indirect
DT3 Indirect

One power cord for every 50 linear ft.

RUN TYPE

TR01 Straight
TR02 L shape
TR03 U shape
TR04 Quad
CST01 Custom Shape Required

* T junction available, consult factory.
* There is one power cable for an overall max length of 50ft (15240mm), extra power cables are required beyond that. Consult factory.

LENGTH - A

The minimum length to order is 2ft and orders are to be in 2ft increments. The maximum is 90ft.
Examples:
4ft = SFA0400, 10ft = SFA1000, 50ft = SFA5000

SFA_ _ _ _

LENGTH - B

The minimum length to order is 2ft and orders are to be in 2ft increments. The maximum is 90ft.
Examples:
4ft = SFB0400, 10ft = SFB1000, 50ft = SFB5000

SFB_ _ _ _

LENGTH - C

The minimum length to order is 2ft and orders are to be in 2ft increments. The maximum is 90ft.
Examples:
4ft = SFC0400, 10ft = SFC1000, 50ft = SFC5000

SFC_ _ _ _

MAX LENGTH PER SECTION

SL02 2ft [1]
SL04 4ft
SL06 6ft
SL08 8ft
SL10 10ft
SL12 12ft

[1] The dimming curves on the 2ft section length (SL02) will differ from the other sizes.
You can select the preferred maximum length per segment, to account for transportation and building constraints. Example: If a 40ft run is required and SL12 (12ft) is selected, we would provide 4 10ft segments. For special requirements, please contact sales@betacalco.com.

END CAP PROFILE

EP00 Not required
EP01 Flat

LM/FT (DIRECT)

LPF000 Not required
LPF020 200 lm/ft
LPF040 400 lm/ft
LPF060 600 lm/ft
LPF080 800 lm/ft
LPF100 1000 lm/ft
LPF120 1200 lm/ft
LPF140 1400 lm/ft

LM/FT (INDIRECT)

LPG000 Not required
LPG020 200 lm/ft
LPG040 400 lm/ft
LPG060 600 lm/ft
LPG080 800 lm/ft
LPG100 1000 lm/ft
LPG120 1200 lm/ft
LPG140 1400 lm/ft [1]
LPG165 1650 lm/ft [1] [2]

[1] Not available with Assymetric Indirect Lens (UD3).
[2] Not available with Extra Wide Batwing Indirect Lens (UD4).

CRI

CR80 CRI 80+
CR90 CRI 90+

CCT DIRECT

CTA00 Not required
CTA27 2700K
CTA30 3000K
CTA35 3500K
CTA40 4000K
CTA50 RGBW [1]
CTA60 Tunable White

[1] RGBW is supplied with an extra power cable and is available with DMX dimming only.
Not available with V3. Consult factory.
* If RGBW or Tunable White is required, it needs to be selected for both direct and indirect. For other combinations, consult factory.

CCT INDIRECT

CTB00 Not required
CTB27 2700K
CTB30 3000K
CTB35 3500K
CTB40 4000K
CTB50 RGBW [1]
CTB60 Tunable White

[1] RGBW is supplied with an extra power cable and is available with DMX dimming only.
Not available with V3. Consult factory.
* If RGBW or Tunable White is required, it needs to be selected for both direct and indirect. For other combinations, consult factory.

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DIRECT LENS

DD0 Not required

DD1 Asymmetric [1]

DD3 Diffused

DD5 Widespread

DS1 Asymmetric - Seamless [1] [2]

DS3 Diffused - Seamless [2]

DS5 Widespread - Seamless [2]

[1] For straight run type (TR01), when standing at the end view of the profile on the side where the power cord is installed, the asymmetric beam will aim to the right. Not available with 1400 lm/ft.
[2] Available with straight run type (TR01) only. Seamless diffusers available up to 32ft. Longer fixtures will have at least one seam. Consult factory if seamless lens is required for other run types.
* Fixed Length available upon request.

INDIRECT LENS

UD0 Not required

UD1 Batwing [3]

UD2 Diffused

UD3 Asymmetric [1]

UD4 Extra Wide Batwing [2] [3]

[1] Available up to 1200 lm/ft. For straight run type (TR01), when standing at the end view of the profile on the side where the power cord is installed, the asymmetric beam will aim to the right.
[2] Available up to 1400 lm/ft.
[3] Available with only pendant suspension.

ASYMMETRIC DIRECTION

ASD0 Not required

ASD1 Inward [1]

ASD2 Outward [1]

[1] Only required when the run type is not straight (TR01). If an asymmetric distribution is required with the straight run type (TR01), the asymmetric distribution will be directed away from the wall.

BLACKOUT PLATE

UB00 Not required

UB_ _ Blackout plate [1]

[1] Available on a per foot basis. May be required to prevent lighting up of duct work in loft type applications.

VOLTAGE

V1 120/277V

V2 240V [1]

V3 347V [2]

V4 Low Voltage [3]

[1] Not available in North America. [2] Only available with DA01 dimming. [3] Only available with DA45 dimming.

DIMMING

DA01 0-10V Dimming 1.0%

DA02 0-10V Dimming 0.1% [1]

DA20 DALI Dimming 0.1% [1]

DA21 DALI Dimming 1.0% [1]

DA23 DALI DT8 Dimming 0.1% - Tunable White [1] [2]

DA40 DMX Dimming [3]

DA45 PoE [4]

DA03 0-10V Dimming, Dim-To-Off (Controls) [1] [5]

DA04 DALI Dimming 1.0% (Controls) [1] [5]

[1] Not available with V3.
[2] Only available with Tunable White.
[3] Only available with RGBW.
[4] Only available with V4. Not available with RGBW.
[5] Select this option if sensors or controllers are required.

CEILING TYPE

G1 Grid ceiling [1]

H1 Hard ceiling [2]

The cost for the canopies, power cables, connections mechanisms and endcaps for the fixture has been added to these items.
[1] Combo kit provided includes installation to T-bar and through tile mount. [2] Designed for drywall ceilings.

SUSPENSION

HLA00 Not required

HLA03 3ft cable suspension

HLA06 6ft cable suspension

HLA09 9ft cable suspension

* Note: Special order available on lengths over 13ft and may be subject to longer lead times, consult factory.

FIXTURE FINISH

FA01 White - Textured

FA02 Black Metallic - Textured

FA20 Silver Metallic - Textured

FA25 Gold Metallic - Textured

FA27 Wood grain - Light Cherry [1]

FA28 Wood grain - Dark Walnut [1]

FA30 Wood grain - White Oak [1]

FA44 Midnight Blue Metallic - Textured

FA45 Copper Metallic

FA46 Charcoal Metallic - Textured

FA47 Bronze Metallic - Textured

FA52 Champagne Metallic

FA53 Red Metallic - Textured

[1] Wood grain finishes may incur longer lead times and setup charges. Consult factory for details.

CANOPY FINISH

CF00 Not required

CF01 White - Textured

CF02 Black Metallic - Textured

CF20 Silver Metallic - Textured

CF25 Gold Metallic - Textured

CF44 Midnight Blue Metallic - Textured

CF45 Copper Metallic

CF46 Charcoal Metallic - Textured

CF47 Bronze Metallic - Textured

CF52 Champagne Metallic

CF53 Red Metallic - Textured

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QUANTITY OF EMERGENCY SECTIONS

E0 Not required

E1 Emergency system - Integral [1] [2]

E3 Emergency generator circuit - Remote [1]

[1] Specify quantity of emergency sections or emergency generator circuits required based off total length of run. Not available with 347V.

[2] For North America, the minimum emergency system wattage is 10W. Refer to the fixture's lumens per watt to estimate emergency light output. The emergency system typically powers only a portion of the fixture, depending on the fixture configuration and number of drivers. Consult factory for emergency system configuration and illuminated section details.
For Europe, the emergency system wattage and configuration may vary. Consult factory for details.

Note: A drawing will be required at the time of ordering to determine the required location of the emergency sections or generator circuits.

CIRCUITS

CS1 Single circuit

CS2 Dual circuit [1]

[1] To control direct and indirect independently.

SENSORS AND CONTROLLERS

SNCN00 Not required

SNCPRA_ _ Cooper WaveLinx PRO Sensor [1] [3]

SNLGRA_ _ Legrand Wattstopper Sensor [1] [2] [3]

SNLGRB_ _ Legrand Wattstopper PLUS Sensor [1] [2] [3]

SNLUTA_ _ Lutron Athena Sensor [1] [2] [3]

SNLUTC_ _ Lutron Vive Sensor [2] [3]

SNLGRC_ _ Legrand Standalone Occupancy Sensor [1] [3]

SNLGRD_ _ Legrand Standalone Daylight Sensor [1] [3]

CNLGRB Legrand Wattstopper PLUS Controller [1] [2] [3]

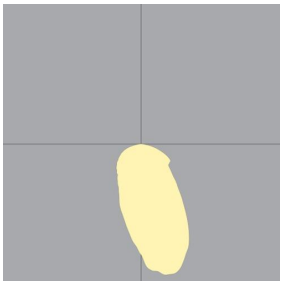
CNLUTA Lutron Athena Controller [1] [2] [3]

CNLUTC Lutron Vive Controller [2] [3]

[1] Available with 0-10V dim-to-off dimming (DA03).
[2] Available with DALI dimming 1.0% (DA04).
[3] Only available with single circuit (CS1).
* If 0-10V dimming is required, only available with the dim-to-off option (DA03). For other sensors and controllers, consult factory.
* Refer to the Controls Configurations document for locations and quantities based on linear length.

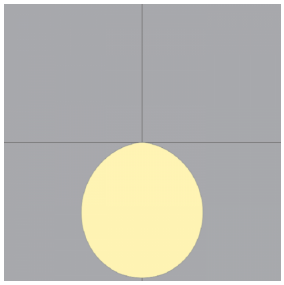
7 PERFORMANCE DATA

DIRECT DIFFUSED (DD1 AND DS1)



LUMEN/FT	WATT/FT	LPW
1200	13	98
1000	10	103
800	8	106
600	5	111
400	3	115
200	2	121

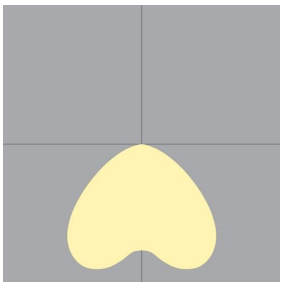
DIRECT DIFFUSED (DD3 AND DS3)



LUMEN/FT	WATT/FT	LPW
1400	13	122
1200	11	126
1000	9	131
800	7	132
600	5	136
400	3	141
200	2	143

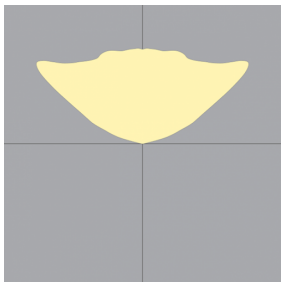
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DIRECT DIFFUSED (DD5 AND DS5)



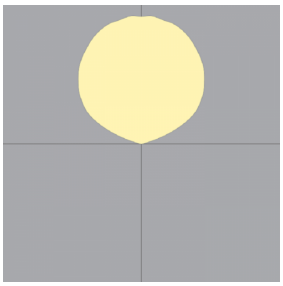
LUMEN/FT	WATT/FT	LPW
1400	13	112
1200	11	116
1000	9	119
800	7	122
600	5	126
400	3	130
200	2	131

INDIRECT BATWING (UD1)



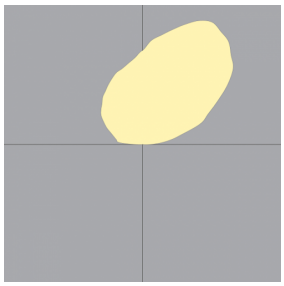
LUMEN/FT	WATT/FT	LPW
1650	13	132
1400	10	137
1200	9	140
1000	7	144
800	6	146
600	4	150
400	3	153
200	1	153

INDIRECT OPAL DIFFUSER (UD2)



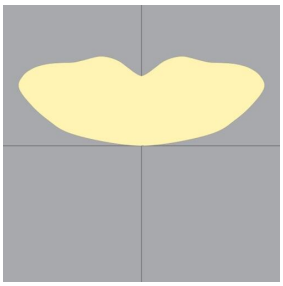
LUMEN/FT	WATT/FT	LPW
1650	13	128
1400	10	132
1200	9	135
1000	7	139
800	6	141
600	4	144
400	3	147
200	1	150

INDIRECT ASYMMETRIC (UD3)



LUMEN/FT	WATT/FT	LPW
1200	13	97
1000	10	100
800	9	102
600	6	107
400	4	109
200	2	112

EXTRA WIDE INDIRECT BATWING (UD4)

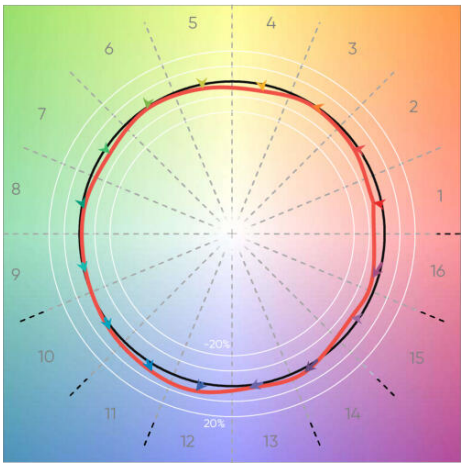


LUMEN/FT	WATT/FT	LPW
1400	13	113
1200	10	116
1000	9	119
800	7	123
600	5	127
400	3	129
200	2	131

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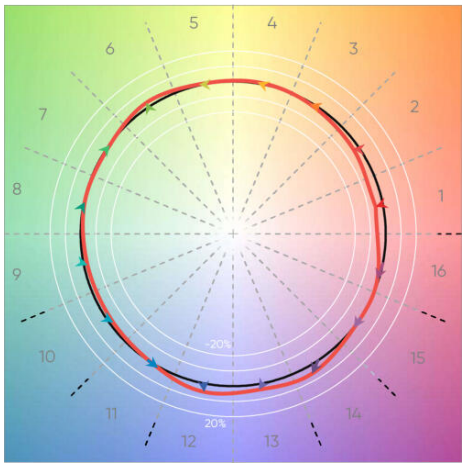
8 TM-30 DATA

CCT 2700K



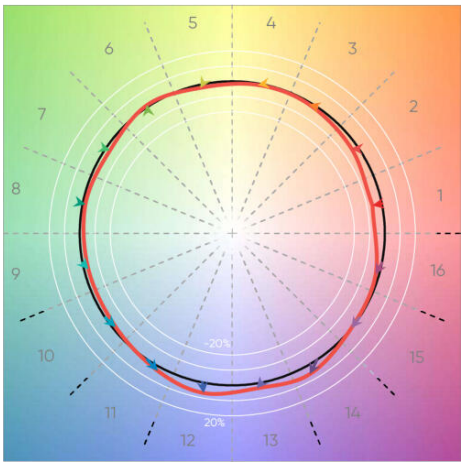
CRI (Ra)	93
CRI (R9)	61
TM30 Rf	91
TM30 Rg	98
Duv	-0.0022

CCT 3000K



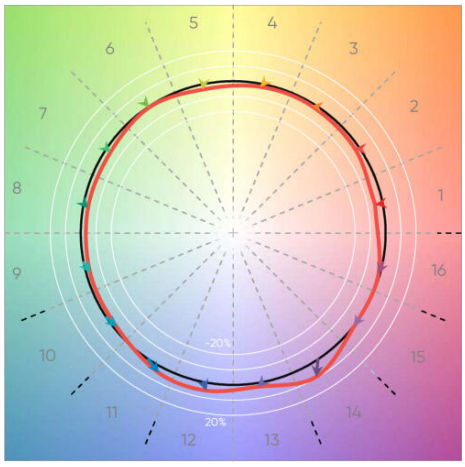
CRI (Ra)	92
CRI (R9)	58
TM30 Rf	92
TM30 Rg	100
Duv	-0.0003

CCT 3500K



CRI (Ra)	91
CRI (R9)	53
TM30 Rf	90
TM30 Rg	99
Duv	-0.0007

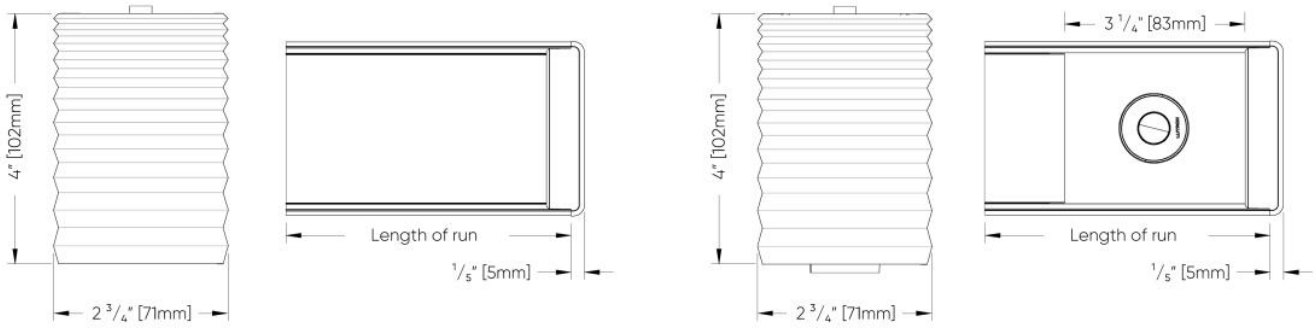
CCT 4000K



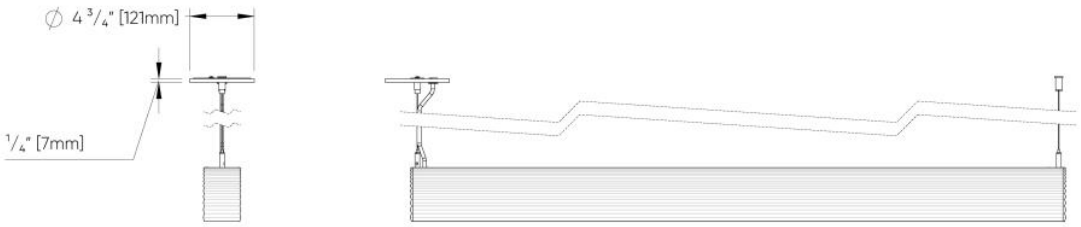
CRI (Ra)	93
CRI (R9)	64
TM30 Rf	90
TM30 Rg	98
Duv	0.0000

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9 DIMENSIONAL DIAGRAMS



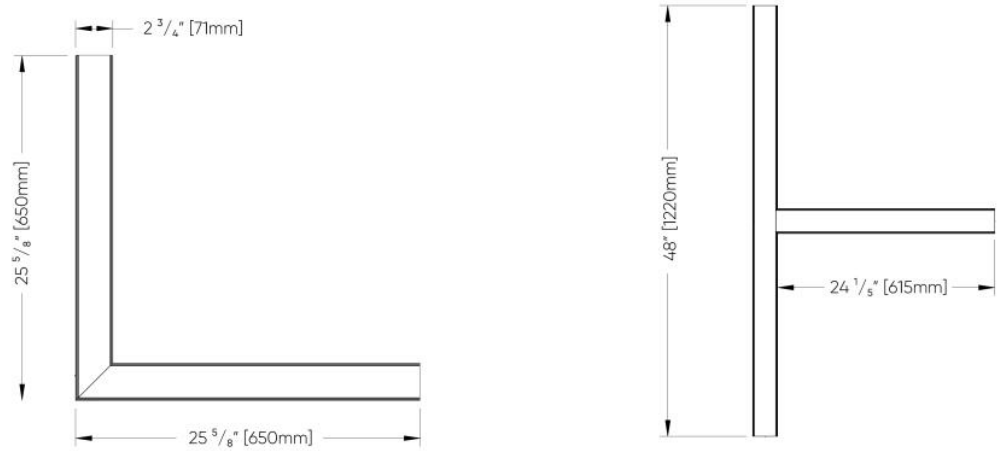
PENDANT



SURFACE



BELLOWS SYSTEM



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