

# BILLET

INDOOR PENDANT - DIRECT/INDIRECT  
SYMMETRICAL BAFFLES

**bold**  
lighting



The Billet family of products allows you to achieve uniformity throughout indoor and outdoor spaces while maintaining the same optical performance, light consistency, and overall aesthetics. Billet Direct/Indirect is a continuation of the award winning Billet family and offers multiple indirect distributions for all linear pendant application needs.

The Billet symmetrical baffles were designed to provide bold illumination while maintaining minimal glare. Like all Bold products, the Billet confidently delivers a flawless light distribution and a beautifully finished product.

## CONSTRUCTION

**Product Type :** Linear  
**Body Material :** Extruded Aluminum  
**Body Finish :** Black / Grey / White  
Custom RAL  
**IP Rating :** IP20

## INSTALLATION

**Environment :** Dry / Damp Location  
**Mounting :** Pendant  
**Dimensions :** Refer to dimension table

## OPTICS

**Optical Distribution :** Direct - 10° / 20°  
28° / 50° / Elliptical (10°x28°) / (10°x36°)  
Indirect - Batwing / Lambertian  
**Glare Control :** UGR<19

## LIGHT SOURCE

**Direct Light Source :** Hi-power LEDs  
Mid-power LEDs  
**Luminous Output :** [ Direct - from 430lm/ft. to 2860lm/ft. (Delivered) ]  
[ Indirect - from 290lm/ft. to 1570lm/ft. (Delivered) ]  
**Light Source CCT :** 2700K / 3000K / 3500K  
4000K / Tunable White (2700K-5000K)  
Dim-to-Warm (3000K-1800K)  
**Color Rendering Index :** Ra80 / Ra90

## ELECTRICAL

**Input Voltage :** UNV 120-277V - 50Hz/60Hz  
**Load :** 4W/ft. to 22W/ft.  
**Output Type :** Constant Current  
**Driver Type :** Integral  
**Dimming :** 0-10V / DALI / ELV / DMX  
Lutron Hi-Lume

Series	Mounting	Nominal Length	Body Finish	
<b>BISO</b>	A4	Pendant (Aircraft Cable-4')	24 24"	
			30 30"	
	P2	Pendant (Rigid Stem-2')	36 36"	W White
			42 42"	B Black
			48 48"	G Grey
	P3	Pendant (Rigid Stem-3')	54 54"	X Custom RAL
			60 60"	
	P4	Pendant (Rigid Stem-4')	XX Custom	
			LX Elbow	
			For exact lengths refer to dimensions table.	

Code example: **BISO** - A 4 2 4 W - L L 1 B - W - S L 8 2 7 - 0

Output (Direct) <sup>1</sup>	Output (Indirect) <sup>1</sup>	Voltage	Dimming	Baffles	Beam Angle (Direct)	Distribution (Indirect)	CRI	Color Temp	Emergency
L 540lm/ft (4W)	L 360lm/ft (4W)	1 120V	A No Dimming	W Flat White	S 10°	B Batwing	8 +80	27 2700K	0 no
M 1170lm/ft (9W)	M 690lm/ft (9W)	U <sup>2</sup> Universal 120V to 277V	B 0-10V to 1%	B Flat Black	M 20°	L Opal	9 +90	30 3000K	9 90 mins
H 1890lm/ft (15W)	H 1220lm/ft (15W)		C 0-10V to Fade-off	N Black Nickel	F 28°			35 3500K	
V 2700lm/ft (22W)	V 1450lm/ft (19W)		D DALI to 1%	C Specular Chrome	B 50°			40 4000K	
D 950lm/ft (9W)	D 790lm/ft (12W)		E ELV Dimming	G Bright Gold	E 10°x 28°			WD <sup>4</sup> 3000K-1800K	
W 1820lm/ft (18W)	W 1510lm/ft (22W)		F DMX	E Diffuse Gold	G 10°x 36°			TW <sup>5</sup> 2700K-5000K	
U 2070lm/ft (12W)	U 1140lm/ft (12W)		G <sup>3</sup> LUTRON	X Custom					
A 3340lm/ft (22W)	A 1890lm/ft (22W)								

### Notes:

- <sup>1</sup> Denotes output at 3000K, unless otherwise noted.
- <sup>2</sup> Not applicable for ELV dimming.
- <sup>3</sup> Hi-lume 1% EcoSystem Soft-on, Fade-to-Black dimming.
- <sup>4</sup> Denotes output specific to Dim-to-Warm at 3000K.
- <sup>5</sup> Denotes output specific to Tunable White at full on.

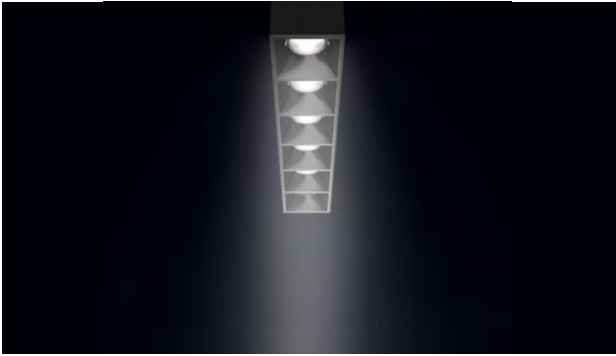
Consult factory for lead-times.  
Consult factory for systems using multiple optics and mounting configurations.



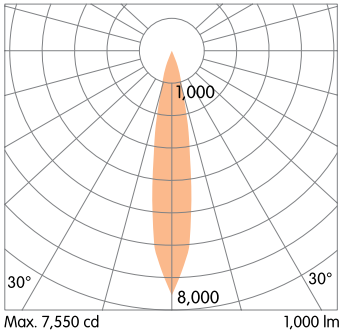
**Bold Lighting**  
4710 Ecton Dr., Marietta, GA 30066, USA  
info@boldlighting.us www.boldlighting.us  
t: +1-678-903-4061

## OPTICAL FLEXIBILITY (DIRECT)

### NARROW BEAM SYMMETRICAL BAFFLE

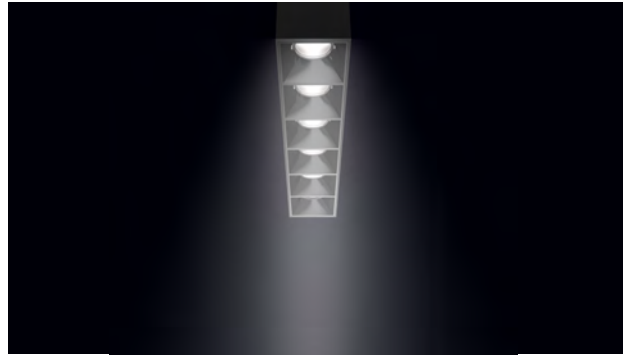


#### 10° Beam Angle

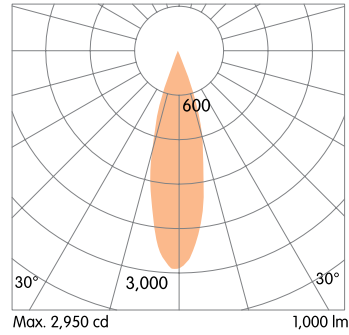


A narrow 10° beam is ideal for high-ceiling applications and for emphasizing texture on vertical surfaces and architectural elements.

### MEDIUM BEAM SYMMETRICAL BAFFLE



#### 20° Beam Angle

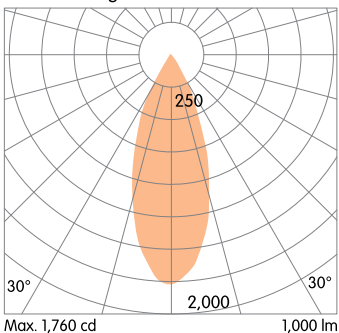


The 20° medium beam is a versatile distribution that works in a wide range of applications and spaces. This optic is a nice balance between light punch and ambient uniformity.

### FLOOD BEAM SYMMETRICAL BAFFLE



#### 28° Beam Angle

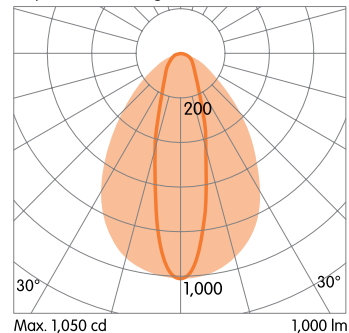


A 28° flood beam is the optimal option for achieving efficient ambient lighting with excellent uniformity and very low glare.

### ELLIPTICAL DISTRIBUTION



#### Elliptical Beam Angle



Elliptical distributions can be used anywhere focused illumination is needed. Billet's elliptical beam is ideal for applications such as grazing texture on vertical surfaces and illuminating long narrow spaces without scallops.

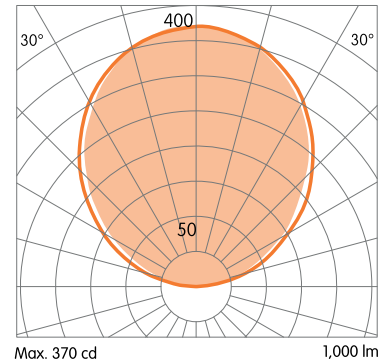
## OPTICAL FLEXIBILITY (INDIRECT)

### LAMBERTIAN DISTRIBUTION



Lambertian distributions are optimal for general lighting, providing a soft and uniform illumination on both horizontal and vertical surfaces. Billef's opal lens is ideal for commercial, retail, institutional, and any other environment where comfortable and even illumination is needed.

120° Beam Angle (Lambertian)



Max. 370 cd

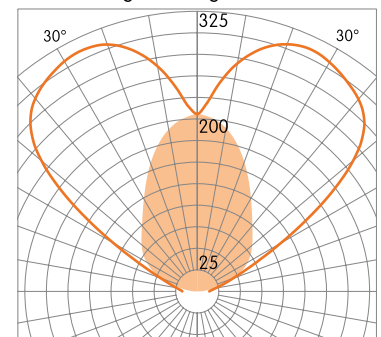
1,000 lm

### BATWING DISTRIBUTION



A batwing beam distribution is ideal for open spaces with low ceilings. This light distribution offers high uniformity on horizontal surfaces and allows for wide on-center spacing layouts.

90° Beam Angle (Batwing)



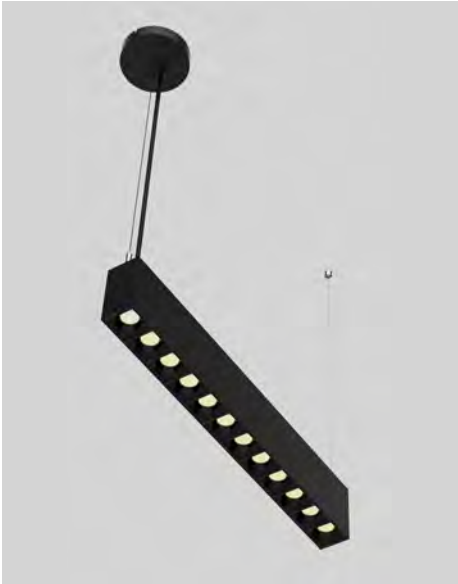
Max. 310 cd

1,000 lm



# MOUNTING FLEXIBILITY

## PENDANT



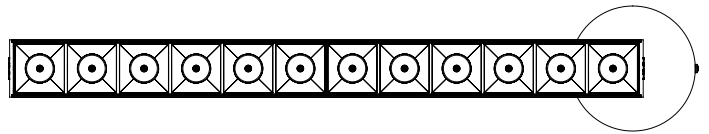
DIRECT

Actual

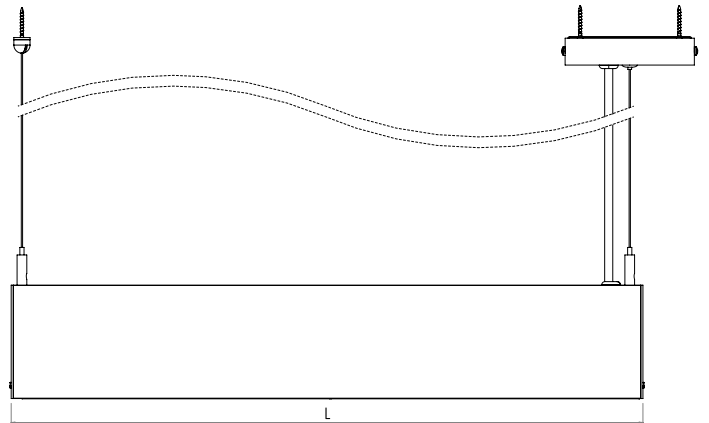
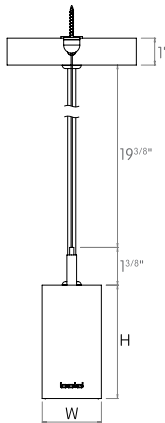
L= 23<sup>1</sup>/<sub>8</sub>" | 34<sup>7</sup>/<sub>16</sub>" | 45<sup>3</sup>/<sub>4</sub>" | 57" | Continuous runs

W= 2<sup>3</sup>/<sub>16</sub>"

H= 4<sup>1</sup>/<sub>8</sub>"



INDIRECT



## DELIVERED LUMEN OUTPUT (DIRECT)

Output		Watts			CRI +80			CRI +90		
<b>STATIC-WHITE</b>					<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>
<b>L</b>	4W	520lm	540lm	570lm	430lm	450lm	480lm			
<b>M</b>	9W	1120lm	1170lm	1240lm	930lm	960lm	1040lm			
<b>H</b>	15W	1820lm	1890lm	2000lm	1510lm	1560lm	1690lm			
<b>V</b>	22W	2600lm	2700lm	2860lm	2160lm	2200lm	2410lm			
<b>DIM-TO-WARM 3000K-1800K</b>								<b>3000K</b>		
<b>D</b>	9W							950lm		
<b>W</b>	18W							1820lm		
<b>TUNABLE WHITE 2700K-5000K</b>					<b>2700K</b>	<b>5000K</b>	<b>2700K</b>	<b>5000K</b>		
<b>U</b>	12W	1700lm		610lm	2070lm				1580lm	
<b>A</b>	22W	2750lm		1020lm	3340lm				2560lm	

## DELIVERED LUMEN OUTPUT (INDIRECT)

Output		Watts			CRI +80			CRI +90		
<b>STATIC-WHITE</b>					<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>
<b>L</b>	4W	350lm	360lm	390lm	290lm	300lm	320lm			
<b>M</b>	9W	660lm	690lm	750lm	550lm	580lm	600lm			
<b>H</b>	15W	1170lm	1220lm	1320lm	970lm	1020lm	1070lm			
<b>V</b>	19W	1390lm	1450lm	1570lm	1140lm	1200lm	1270lm			
<b>DIM-TO-WARM 3000K-1800K</b>								<b>3000K</b>		
<b>D</b>	12W							790lm		
<b>W</b>	22W							1510lm		
<b>TUNABLE WHITE 2700K-5000K</b>					<b>2700K</b>	<b>5000K</b>	<b>2700K</b>	<b>5000K</b>		
<b>U</b>	12W	1000lm		2070lm	1460lm				920lm	
<b>A</b>	22W	1670lm		3340lm	2360lm				1530lm	

## DIMENSIONS TABLE

		24"		36"		48"		60"					
Height		Width		Actual Length		Actual Length		Actual Length		Actual Length			
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
<b>Pendant</b>		105	4 <sup>1/8</sup>	55	4 <sup>3/16</sup>	608	23 <sup>15/16</sup>	908	35 <sup>11/16</sup>	1208	47 <sup>7/16</sup>	1508	59 <sup>3/16</sup>

