BILLET

INDOOR PENDANT - DIRECT/INDIRECT
OPAL

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 linear lenses deliver bold vertical and horizontal illumination perfect for ambient lighting and washing. 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 - Elliptical (20°x40°) / Asymmetric / Lambertian
Indirect - Batwing / Lambertian

LIGHT SOURCE

Direct Light Source : Mid-power LEDs
Luminous Output : [Direct - from 290lm/ft. to 1570lm/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 19W/ft.
Output Type : Constant Current
Driver Type : Integral
Dimming : 0-10V / DALI / ELV / DMX Lutron Hi-Lume

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

Code example: **BIIO** - A424W - LL1B - O - LL827 - 0

Output (Direct)[1]		Output (Indirect)[1]		Voltage		Dimming		Diffuser		Distribution (Direct)		Distribution (Indirect)		CRI		Color Temp		Emergency	
L	360lm/ft (4W)	**L**	360lm/ft (4W)	**1**	120V	**A**	No Dimming	**O**	Opal	**L**	Opal	**B**	Batwing	**8**	+80	**27**	2700K	**0**	no
M	690lm/ft (9W)	**M**	690lm/ft (9W)	**U**[2]	Universal 120V to 277V	**B**	0-10V to 1%			**A**	Asymmetric	**L**	Opal	**9**	+90	**30**	3000K	**9**	90 mins
H	1220lm/ft (15W)	**H**	1220lm/ft (15W)			**C**	0-10V to Fade-off			**E**	Elliptical					**35**	3500K		
V	1450lm/ft (19W)	**V**	1450lm/ft (19W)			**D**	DALI to 1%									**40**	4000K		
D	790lm/ft (12W)	**D**	790lm/ft (12W)			**E**	ELV Dimming									**WD**[4]	3000K- 1800K		
W	1510lm/ft (22W)	**W**	1510lm/ft (22W)			**F**	DMX									**TW**[5]	2700K - 5000K		
U	1140lm/ft (12W)	**U**	1140lm/ft (12W)			**G**[3]	LUTRON												
A	1890lm/ft (22W)	**A**	1890lm/ft (22W)																

Notes:
[1] Denotes output at 3000K, unless otherwise noted.
[2] Not applicable for ELV dimming.
[3] Hi-lume 1% EcoSystem Soft-on, Fade-to-Black dimming.
[4] Denotes output specific to Dim-to-Warm at 3000K.
[5] 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
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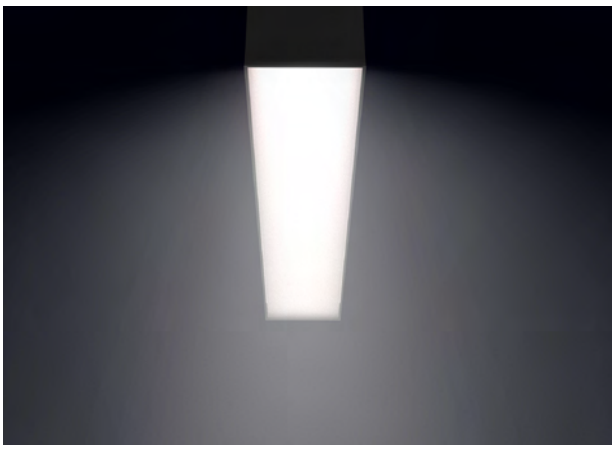
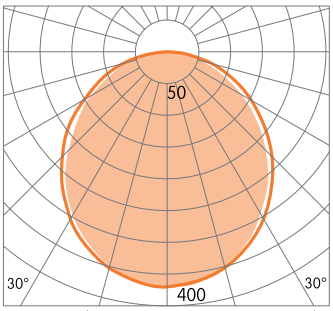
OPTICAL FLEXIBILITY (DIRECT)

LAMBERTIAN DISTRIBUTION



120° Beam Angle (Lambertian)

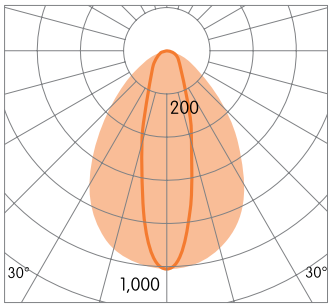


Max. 370 cd 1,000 lm

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

ELLIPTICAL DISTRIBUTION

Elliptical Beam Angle

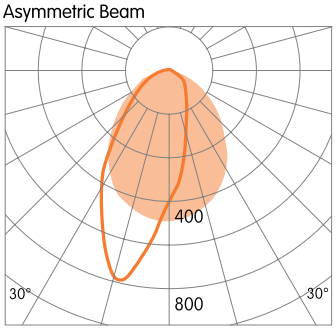


Max. 1,050 cd 1,000 lm

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.

ASYMMETRIC DISTRIBUTION

Asymmetric Beam



Max. 790 cd 1,000 lm

Asymmetric distributions are optimal for evenly wallwashing vertical surfaces, as well as providing asymmetric illumination on horizontal surfaces. Billet's asymmetric lens provides a high uniformity and performance for all applications.

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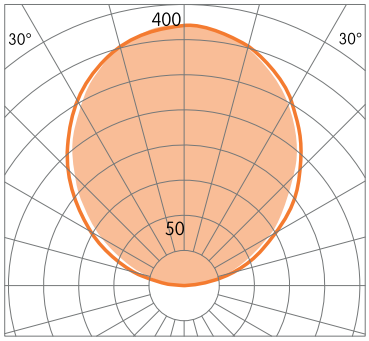
OPTICAL FLEXIBILITY (INDIRECT)

LAMBERTIAN DISTRIBUTION

120° Beam Angle (Lambertian)

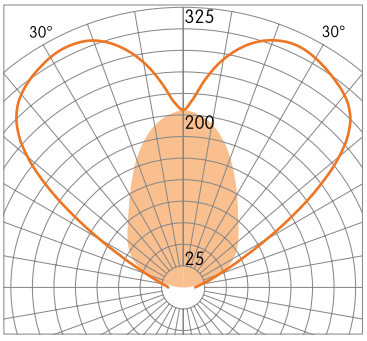


Max. 370 cd 1,000 lm

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

BATWING DISTRIBUTION

90° Beam Angle (Batwing)



Max. 310 cd 1,000 lm

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.

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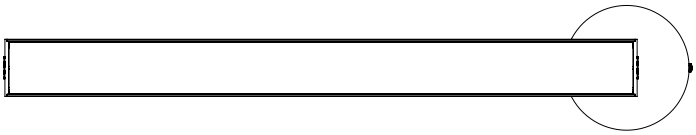
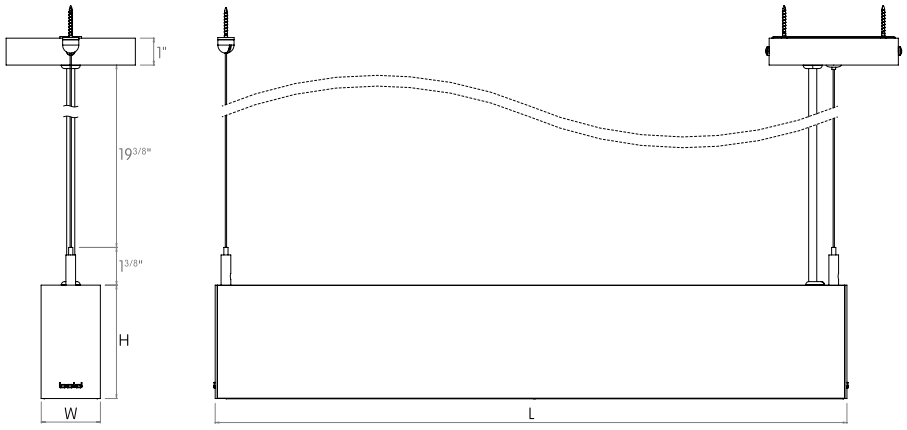
PENDANT

DIRECT

Actual
L= $23^{1/8}$" | $34^{7/16}$" | $45^{3/4}$" | 57" | Continuous runs
W= $2^{3/16}$"
H= $4^{1/8}$"



INDIRECT



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DELIVERED LUMEN OUTPUT (DIRECT)

Output	Watts	CRI +80			CRI +90		
STATIC-WHITE		**2700K**	**3000K**	**4000K**	**2700K**	**3000K**	**4000K**
L	4W	350lm	360lm	390lm	290lm	300lm	320lm
M	9W	660lm	690lm	750lm	550lm	580lm	600lm
H	15W	1170lm	1220lm	1320lm	970lm	1020lm	1070lm
V	19W	1390lm	1450lm	1570lm	1140lm	1200lm	1270lm
DIM-TO-WARM 3000K-1800K						**3000K**	
D	12W					790lm	
W	22W					1510lm	
TUNABLE WHITE 2700K-5000K		**2700K**		**5000K**	**2700K**		**5000K**
U	12W	1000lm		1140lm	830lm		920lm
A	22W	1670lm		1890lm	1380lm		1530lm

DELIVERED LUMEN OUTPUT (INDIRECT)

Output	Watts	CRI +80			CRI +90		
STATIC-WHITE		**2700K**	**3000K**	**4000K**	**2700K**	**3000K**	**4000K**
L	4W	350lm	360lm	390lm	290lm	300lm	320lm
M	9W	660lm	690lm	750lm	550lm	580lm	600lm
H	15W	1170lm	1220lm	1320lm	970lm	1020lm	1070lm
V	19W	1390lm	1450lm	1570lm	1140lm	1200lm	1270lm
DIM-TO-WARM 3000K-1800K						**3000K**	
D	12W					790lm	
W	22W					1510lm	
TUNABLE WHITE 2700K-5000K		**2700K**		**5000K**	**2700K**		**5000K**
U	12W	1000lm		1140lm	830lm		920lm
A	22W	1670lm		1890lm	1380lm		1530lm

DIMENSIONS TABLE

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

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