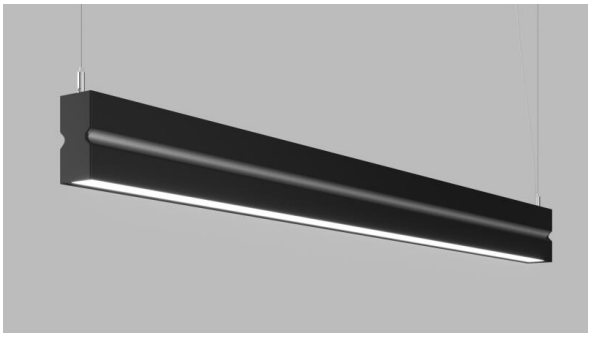
FLUTE™

FULL SPECIFICATION SHEET



FIXTURE TYPE

FIXTURE CODE

QUANTITIES

1 DESCRIPTION

FLUTE shapeshifts the traditional block form factor into a cutting-edge cyber style. The illuminated reveal and fluting along the flank emits a halation effect through the side glow that radiates an electrifying detail, providing a lightweight appearance and energetic aura to an already compact form factor. The hourglass contour jacks up profile design with an aerodynamic quality. **FLUTE** is the optimal complement for tech-age modern design and interiors with intricate detailing. **FLUTE** delivers a high efficacy up to 142 lumens per watt, affording designers several lumen packages to ensure their desired effect is achieved without over or under-lighting. The direct light can be paired with a Comfort Lens for a softer and more even distribution of light, providing visual comfort. The unique profile design of this fresh linear can be built in a bespoke manner, suited to the requirements of each and every space.

2 OPTICS & FEATURES


Suspended Direct

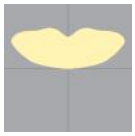

Suspended Direct/Indirect


Direct DD2


Direct DD4


Indirect UD1


Indirect UD3


Indirect UD4



Declare



PoE



Tunable White

3 APPROVALS



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4 GENERAL SPECIFICATION

BODY
Aluminum.

FINISH
Powder coated.

POWER CABLE
Silver braided.

SUSPENSION
Steel cables.

MECHANICAL
Align N' Lock™ joiner ensures zero light leak and a simple installation. Luminaires mount directly over J box (by others).

LENS
Opal acrylic. Supplied with a seamless roll (up to 24ft), to be trimmed and installed in the field.

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

BIOS
For circadian lighting, consult factory.

REMOTE EMERGENCY SYSTEM (E2)
Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The remote system includes the inverter module, NiCad batteries and a remote wall/ceiling LED charge indicator and test switch. Maximum distance between wall/ceiling plate and luminaire is 15' (4.5m). Test switch fits a single gang box (not supplied). Refer to the Emergency option notes below for wattage, configuration and regional details.

LUMINAIRE LEVEL LIGHTING CONTROLS
This product can be configured for integration with luminaire-level lighting controls. Contact the factory for available options and project-specific requirements.

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

TUNABLE WHITE
Tunable White range from 2700K to 6500K is available; contact the factory for details.

REPORTED L70 @25°C (77°F)
>108000 hrs @3000 lms/ft (9800 lm/m)

ESTIMATED L70 @25°C (77°F)
>196000 hrs @3000 lms/ft (9800 lm/m)

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

APPROVALS
Damp Rated.

DESIGNED BY
Serge Cornelissen.

DESIGN
US Pat. No. D967,491 US Pat. No. D969,389

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.

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5 DESIGN OPTIONS

FIXTURE FINISH

White - Textured


Black Metallic - Textured

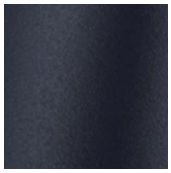

Silver Metallic - Textured


Gold Metallic - Textured

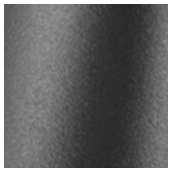

Wood grain - Light Cherry [1]


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.

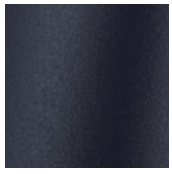
CANOPY FINISH

White - Textured

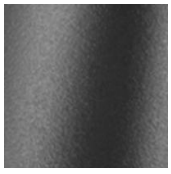

Black Metallic - Textured


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

FLUP1P Direct

FLUP2P Direct/Indirect

Data shown based on max values, consult Performance Data download for more details. Non Illuminated Reveal versions available, consult factory for details. One power cord for every 50 linear feet.

LENGTH OF RUN

Minimum length to order is 4ft and orders to be in 2ft increments. For 6 inch increments, consult factory.
Examples: 4ft = SFA0400, 10ft = SFA1000, 50ft = SFA5000
For runs over 50ft in length, consult factory.

SFA_ _ _ _

MAX LENGTH PER SECTION

SL04 4ft

SL06 6ft

SL08 8ft

SL10 10ft

SL12 12ft

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.
* Review the Linear Length Configurations document for each length of run.

LM/FT (DIRECT)

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

LPG165 1650 lm/ft

CRI

CR80 CRI 80+

CR90 CRI 90+

CCT - DIRECT

CTA27 2700K

CTA30 3000K

CTA35 3500K

CTA40 4000K

CTA60 Tunable White

* If 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

CTB60 Tunable White

* If Tunable White is required, it needs to be selected for both direct and indirect. For other combinations, consult factory.

DIRECT LENS

DD2 Batwing

DD4 Comfort

INDIRECT LENS

UD0 Not required

UD1 Batwing

UD3 Asymmetric [1]

UD4 Extra Wide Batwing [2]

[1] Available up to 1200 lm/ft.
[2] Available up to 1400 lm/ft.

UPLIGHT BLACKOUT PLATE

UB00 Not required

UB_ _ Blackout plate [1]

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

VOLTAGE

V1 120/277V

V2 240V [1]

V3 347V [2]

V4 Low Voltage [3]

[1] V2 not available in North America. [2] V3 available with DA01 dimming only. [3] V4 available with DA45 dimming only.

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]

DA45 PoE [3]

[1] Not available with V3.
[2] Only available with Tunable White.
[3] Only available with V4.

CEILING TYPE

G1 Grid ceiling [1]

H1 Hard ceiling [2]

[1] Combo kit includes installation to T-bar and through tile mount. [2] Designed for drywall ceilings.

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SUSPENSION

HLA03 3ft cable suspension
HLA06 6ft cable suspension
HLA09 9ft cable suspension

Special order available on lengths over 10ft 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

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

EMERGENCY

E0 Not required
E1 Emergency system - Integral [1] [2]
E3 Emergency generated circuit [1] [2]

[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]
CS4 Emergency generated circuit [1]

[1] Only required if ordering Emergency system.

SENSORS

This product can be configured for integration with luminaire-level lighting controls. Contact the factory for available options and project-specific requirements.

7 TECHNICAL DATA

LUMINAIRE

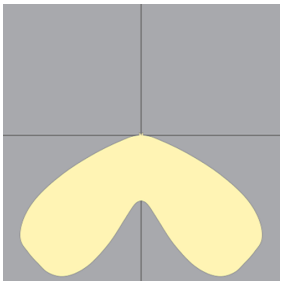
Data shown based on max values, consult Performance Data download for more details. Non Illuminated Reveal versions available, consult factory for details. One power cord for every 50 linear feet.

Code	FLUP1P	FLUP2P
Light Direction	Direct	Direct/Indirect
Lms/Ft Direct	1400	1400
Lms/ft Indirect		1650
Watts/Ft Direct	13	13
Watts/Ft Indirect		13
LPW Direct	133	133
LPW Indirect		168

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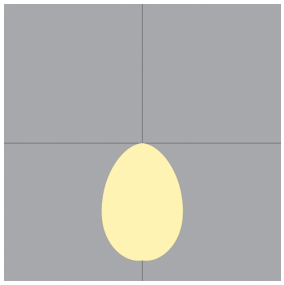
8 PERFORMANCE DATA

DIRECT BATWING (DD2)



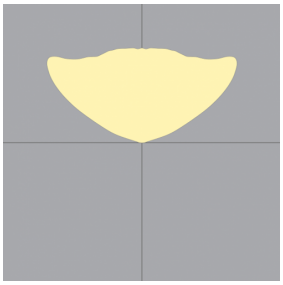
LUMEN/FT	WATT/FT	LPW
1200	13	97
1000	11	99
800	7	105
600	5	109
400	3	114
200	2	120

DIRECT COMFORT DIFFUSER (DD4)



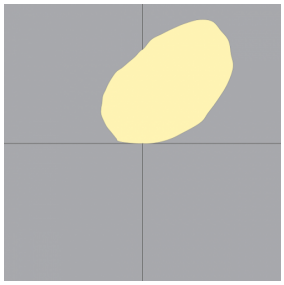
LUMEN/FT	WATT/FT	LPW
1400	13	107
1200	11	110
1000	9	113
800	7	116
600	5	121
400	3	126
200	2	133

INDIRECT BATWING (UD1)



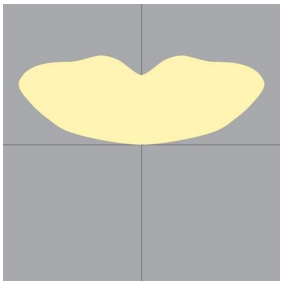
LUMEN/FT	WATT/FT	LPW
1650	13	134
1400	11	138
1200	9	142
1000	7	146
800	6	150
600	4	155
400	3	161
200	1	168

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

INDIRECT EXTRAWIDE BATWING (UD4)

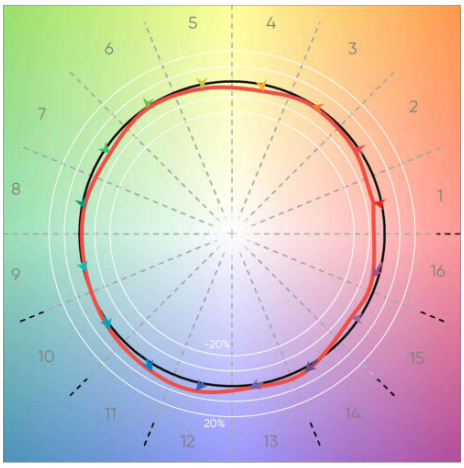


LUMEN/FT	WATT/FT	LPW
1400	13	113
1200	10	116
1000	8	119
800	7	123
600	5	127
400	3	129
200	2	131

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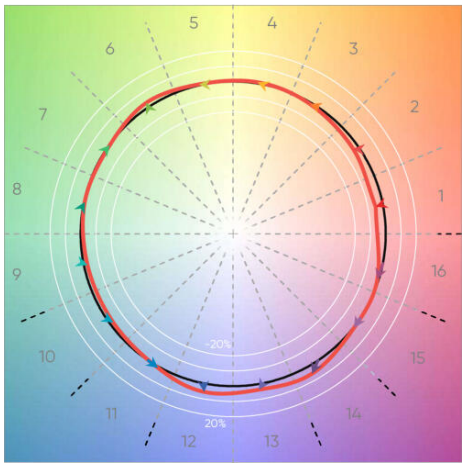
9 TM-30 DATA

CCT 2700K



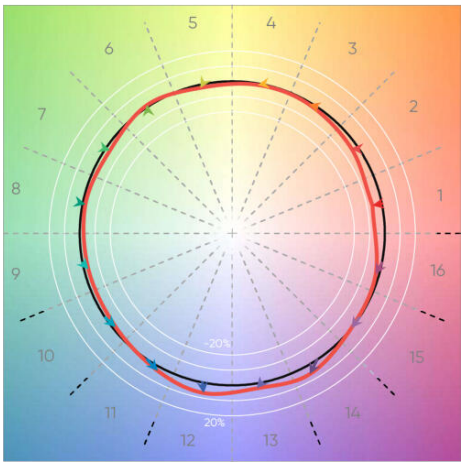
CRI (Ra)	93
CRI (R9)	61
TM30 Rf	91
TM30 Rg	98
Duv	-0.0022

CCT 3000K



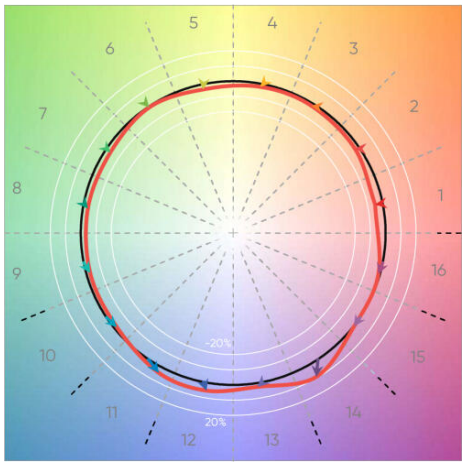
CRI (Ra)	92
CRI (R9)	58
TM30 Rf	92
TM30 Rg	100
Duv	-0.0003

CCT 3500K



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

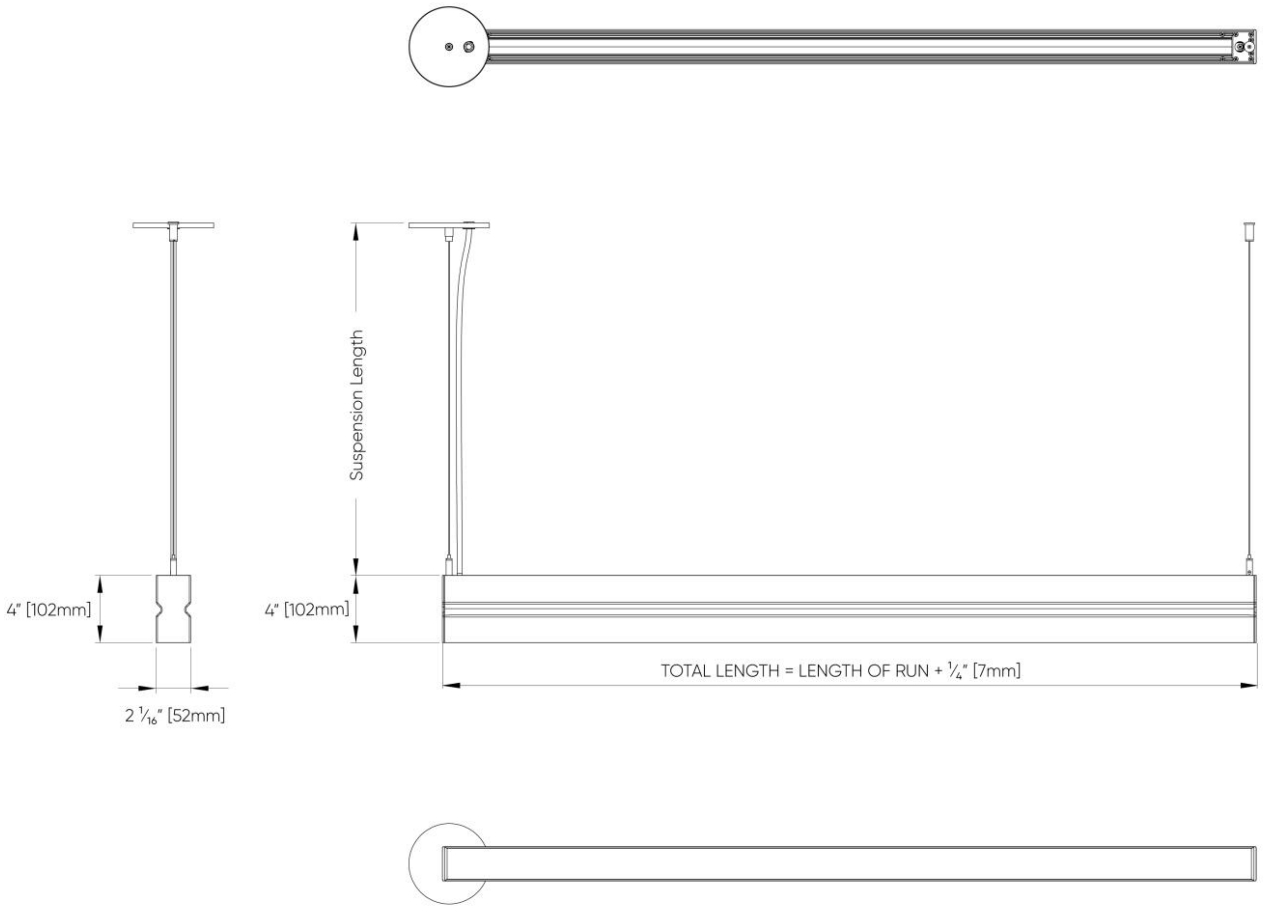
CCT 4000K



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

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10 DIMENSIONAL DIAGRAMS



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