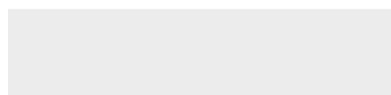
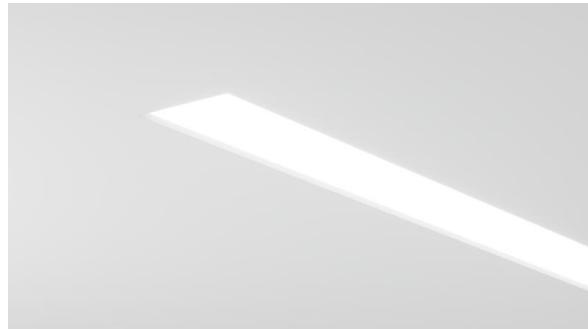


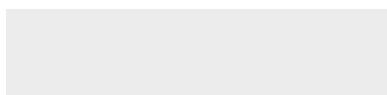


# FLUTE™

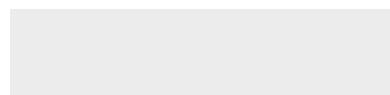
## FULL SPECIFICATION SHEET



Fixture Type



Fixture Code

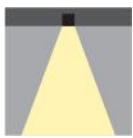


Quantities

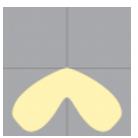
### 1 DESCRIPTION

With a lens just 2" wide, **FLUTE** Recessed delivers a refined, minimalist aesthetic without sacrificing performance, reaching up to 135 lumens per watt. Available in standalone lengths up to 12' and continuous runs up to 50' on a single circuit, **FLUTE** offers flexibility for both architectural accents and functional lighting. Combine multiple lengths to form sleek linear compositions or long lines of illumination for ambient or wayfinding applications. An optional Comfort Lens softens and diffuses the light for enhanced visual comfort.

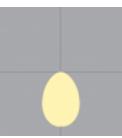
### 2 OPTICS & FEATURES



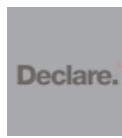
Recessed



Direct DD2



Direct DD4



Declare



PoE



Tunable White

### 3 APPROVALS



DAMP  
LOCATION



IP20

### 4 GENERAL SPECIFICATION

#### BODY

Aluminum.

#### FINISH

Powder coated.

**POE**

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

**LENS**

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

**REPORTED L70 @25°C (77°F)**

>108000 hrs @1400 lms/ft (4600 lm/m)

**REMOTE EMERGENCY**

Emergency option provides a 1.5 hour (3hours 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).

**TUNABLE WHITE**

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

**DESIGN**

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

**BIOS**

For circadian lighting, consult factory.

**DRIVERS**

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

**ESTIMATED L70 @25°C (77°F)**

>196000 hrs @1400 lms/ft (4600 lm/m)

**DELIVERED LUMENS**

Delivered lumens & LPW based on 4000K CRI 80+

**APPROVALS**

Damp Rated.

**5 DESIGN OPTIONS****CEILING TRIM FINISH**

Not required



White <sup>1</sup>



Black  
Metallic -  
Textured <sup>1</sup>

<sup>1</sup> Required for RT4 only.

**6 HOW TO ORDER****1. LUMINAIRE****BLFR2R** Direct

Data shown based on max values, consult Performance Data download for more details. One power cord for every 50 linear feet.

**2. LENGTH OF RUN**

Minimum length to order is 4ft and orders to be in 2ft increments.

Examples: 4ft = SFG0400, 10ft = SFG1000, 50ft = SFG5000

For runs over 50ft in length, consult factory.

**SFG\_\_\_\_\_**

Minimum length to order is 4ft and orders to be in 2ft increments.

Examples: 4ft = SFG0400, 10ft = SFG1000, 50ft = SFG5000

For runs over 50ft in length, consult factory.

**3. 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, the longest available segment is 12ft and the run would consist of three 12ft segments and one 4ft. For special requirements, please contact [sales@betacalco.com](mailto:sales@betacalco.com).

**4. LUMENS/FT****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**5. CRI****CR80** CRI 80+**CR90** CRI 90+**6. CCT****CTA27** 2700K**CTA30** 3000K**CTA35** 3500K**CTA40** 4000K**CTA60** Tunable White <sup>1</sup>

<sup>1</sup> Consult factory.

## 7. LENS

**DD2** Batwing

**DD4** Comfort

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

## 8. VOLTAGE

**V1** 120/277V

**V2** 240V <sup>1</sup>

**V3** 347V <sup>2</sup>

**V4** Low Voltage <sup>3</sup>

<sup>1</sup> V2 not available in North America. <sup>2</sup> V3 available with DA01 dimming only. <sup>3</sup> V4 available with DA45 dimming only.

## 9. DIMMING

**DA01** 0-10V Dimming 1.0%

**DA02** 0-10V Dimming 0.1% <sup>1</sup>

**DA20** DALI Dimming 0.1% <sup>1</sup>

**DA21** DALI Dimming 1.0% <sup>1</sup>

**DA30** DSI/switchDim <sup>2</sup>

**DA45** PoE <sup>3</sup>

<sup>1</sup> Not available with V3. <sup>2</sup> Not available in North America. <sup>3</sup> Only available with V4.

## 10. CEILING TYPE & TRIM

**RT1** Tegular ceiling <sup>1</sup>

**RT2** T-Bar ceiling <sup>2</sup>

**RT3** Trimless <sup>3</sup>

**RT4** Trim <sup>3</sup>

<sup>1</sup> Fixture designed to fit into a 9/16" or 15/16" standard tegular grid T-bar and through tile mount. Dimensions are nominal for grid ceiling fixtures. All fixture metalwork is white.

<sup>2</sup> Fixture designed to fit into a 9/16" or 15/16" standard grid T-bar and through tile mount. Dimensions are nominal for grid ceiling fixtures. All fixture metalwork is white.

<sup>3</sup> Fixture designed for drywall and concrete ceilings.

## 11. CEILING TRIM FINISH

**FA00** Not required

**FA01** White <sup>1</sup>

**FA02** Black Metallic - Textured <sup>1</sup>

<sup>1</sup> Required for RT4 only.

## 12. EMERGENCY

**E0** Not required

**E1** Emergency system - Integral <sup>1</sup>

<sup>1</sup> A drawing will be required at the time of ordering to determine the required number and location of the emergency sections. <sup>1</sup> Available upon request, consult factory for details. Not available with 347V.

## 13. CHICAGO PLENUM

**CPO** Not required

**CP1** Chicago Plenum

## 7 TECHNICAL DATA

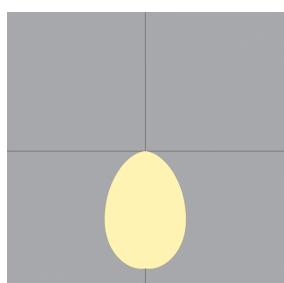
### LUMINAIRE

Data shown based on max values, consult Performance Data download for more details. One power cord for every 50 linear feet.

Code	BLFR2R
<b>Light Direction</b>	Direct
<b>Lms/Ft</b>	1400
<b>Watts/Ft</b>	13
<b>LPW</b>	135

## 8 PERFORMANCE DATA

### DIRECT COMFORT (DD4)



### LUMEN/FT

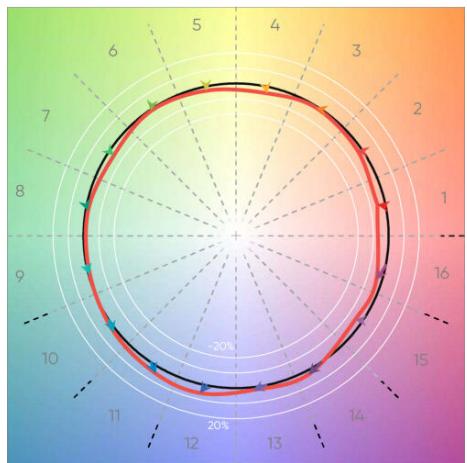
### WATT/FT

### LPW

1400	13	109
1200	11	112
1000	9	115
800	7	118
600	5	123
400	3	128
200	2	135

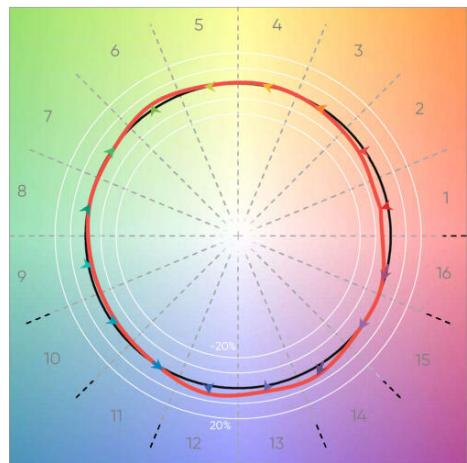
9 TM-30 DATA

**CCT 2700K**



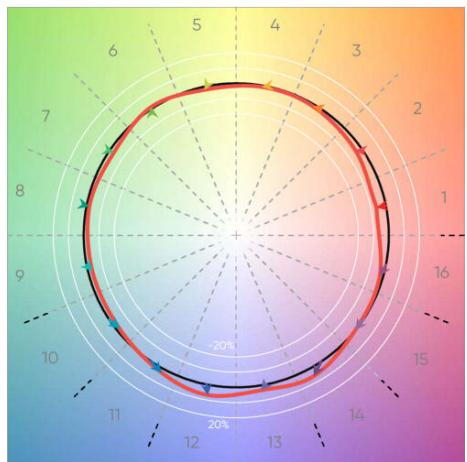
<b>CRI (Ra)</b>	93
<b>CRI (R9)</b>	61
<b>TM30 Rf</b>	91
<b>TM30 Rg</b>	98
<b>Duv</b>	-0.0022

**CCT 3000K**



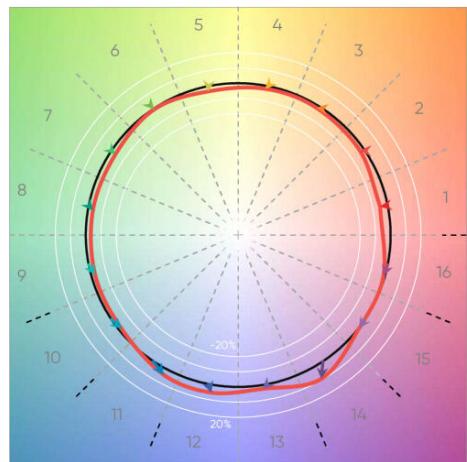
<b>CRI (Ra)</b>	92
<b>CRI (R9)</b>	58
<b>TM30 Rf</b>	92
<b>TM30 Rg</b>	100
<b>Duv</b>	-0.0003

**CCT 3500K**



<b>CRI (Ra)</b>	91
<b>CRI (R9)</b>	53
<b>TM30 Rf</b>	90
<b>TM30 Rg</b>	99
<b>Duv</b>	-0.0007

**CCT 4000K**



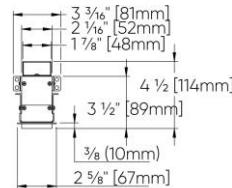
<b>CRI (Ra)</b>	93
<b>CRI (R9)</b>	64
<b>TM30 Rf</b>	90
<b>TM30 Rg</b>	98
<b>Duv</b>	0.0000

10 DIMENSIONAL DIAGRAMS

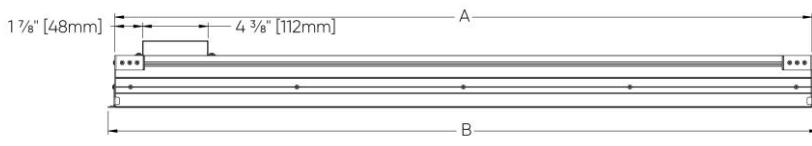
Grid Ceiling - Tegular ceiling



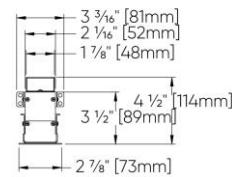
Max Length (Per section)	A	B
4ft	46 13/16" [1189mm]	47 1/16" [1212mm]
6ft	70 13/16" [1791mm]	71 1/16" [1821mm]
8ft	94 13/16" [2408mm]	95 1/16" [2431mm]
10ft	118 13/16" [3018mm]	119 1/16" [3040mm]
12ft	142 13/16" [3627mm]	143 1/16" [3650mm]



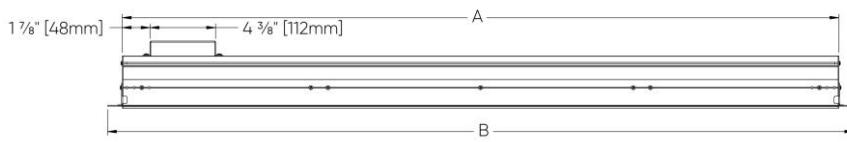
Grid Ceiling - T-bar ceiling



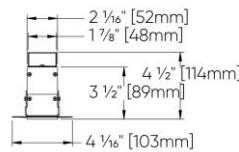
Max Length (Per section)	A	B
4ft	46 13/16" [1189mm]	47 1/16" [1212mm]
6ft	70 13/16" [1791mm]	71 1/16" [1821mm]
8ft	94 13/16" [2408mm]	95 1/16" [2431mm]
10ft	118 13/16" [3018mm]	119 1/16" [3040mm]
12ft	142 13/16" [3627mm]	143 1/16" [3650mm]



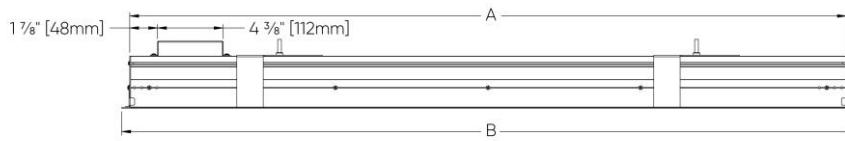
Hard Ceiling - Trimless



Max Length (Per section)	A	B
4ft	48 1/8" [1222mm]	50 1/8" [1273mm]
6ft	72 1/8" [1831mm]	74 1/8" [1882mm]
8ft	96 1/8" [2431mm]	98 1/8" [2492mm]
10ft	120 1/8" [3050mm]	122 1/8" [3040mm]
12ft	144 1/8" [3660mm]	146 1/8" [3711mm]



Hard Ceiling - Trim



Max Length (Per section)	A	B
4ft	48 1/8" [1222mm]	50 1/8" [1273mm]
6ft	72 1/8" [1831mm]	74 1/8" [1882mm]
8ft	96 1/8" [2431mm]	98 1/8" [2492mm]
10ft	120 1/8" [3050mm]	122 1/8" [3040mm]
12ft	144 1/8" [3660mm]	146 1/8" [3711mm]

