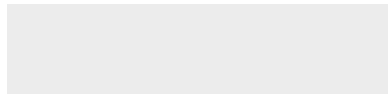
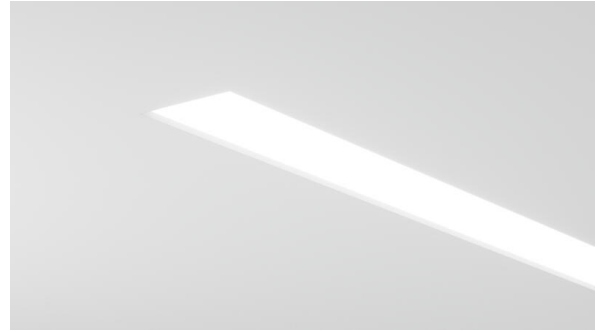


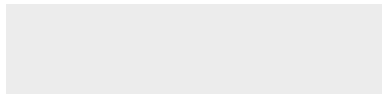


FLUTE™

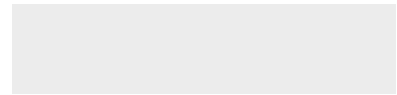
FULL SPECIFICATION SHEET



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.

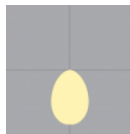
2 OPTICS & FEATURES



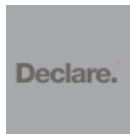
Recessed



Direct DD2



Direct DD4



Declare



PoE



Tunable White

3 APPROVALS



DAMP
LOCATION



IP20

4 GENERAL SPECIFICATION

BODY

Aluminum.

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

FINISH

Powder coated.

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

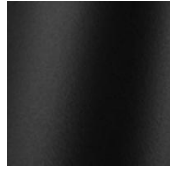
CEILING TRIM FINISH



Not required



White ¹



Black
Metallic -
Textured ¹

¹ 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.

Example: 4ft = SFG0400

Example: 10ft = SFG1000

Example: 50ft = SFG5000

For runs over 50ft in length, consult factory.

SFG_ _ _ _

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

Example: 4ft = SFG0400

Example: 10ft = SFG1000

Example: 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.

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+
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6. CCT

CTA27 2700K	CTA30 3000K	CTA35 3500K	CTA40 4000K
CTA60 Tunable White ¹			

¹ Consult factory.

7. LENS

DD2 Batwing	DD4 Comfort
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Supplied with a seamless roll (up to 24ft), to be trimmed and installed in the field.

8. VOLTAGE

V1 120/277V	V2 240V ¹	V3 347V ²	V4 Low Voltage ³
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¹ V2 not available in North America.

² V3 available with DA01 dimming only.

³ V4 available with DA45 dimming only.

9. 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
DA30 DSI/switchDim ²	DA45 PoE ³		

¹ Not available with V3.

² Not available in North America.

³ Only available with V4.

10. CEILING TYPE & TRIM

RT1 Tegular ceiling ¹	RT2 T-Bar ceiling ²	RT3 Trimless ³	RT4 Trim ³
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¹ 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.

² 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.

³ Fixture designed for drywall and concrete ceilings.

11. CEILING TRIM FINISH

FA00 Not required	FA01 White ¹	FA02 Black Metallic – Textured ¹
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¹ Required for RT4 only.

12. EMERGENCY

E0 Not required	E1 Emergency system – Integral ¹
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¹ A drawing will be required at the time of ordering to determine the required number and location of the emergency sections. ¹ Available upon request, consult factory for details. Not available with 347V.

13. CHICAGO PLENUM

CP0 Not required	CP1 Chicago Plenum
-------------------------	---------------------------

7

TECHNICAL DATA

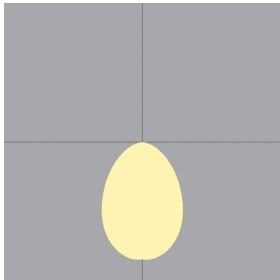
LUMINAIRE

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

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

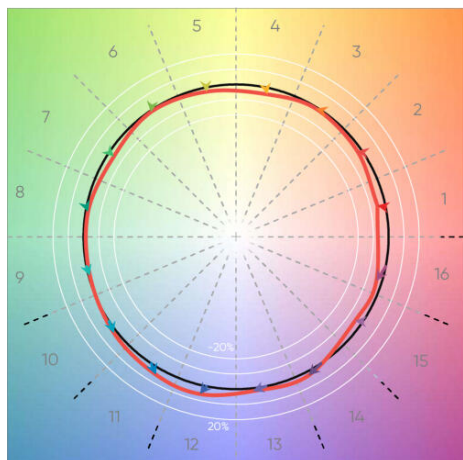
8

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

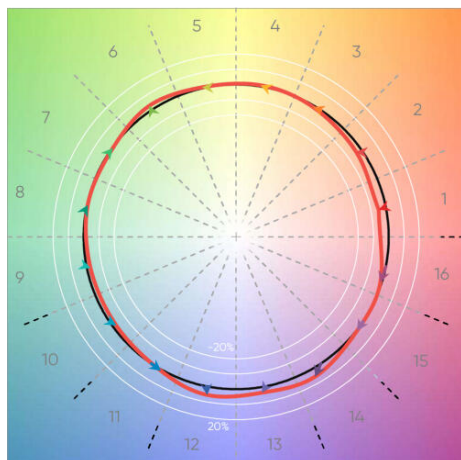
9 TM-30 DATA

CCT 2700K



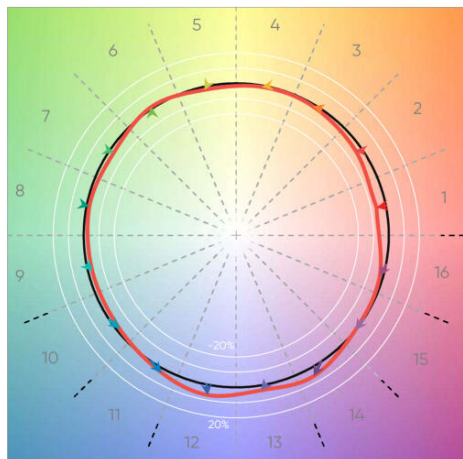
CRI (Ra)	93
CRI (R9)	61
TM30 Rf	91
TM30 Rg	98
Duv	-0.0022

CCT 3000K



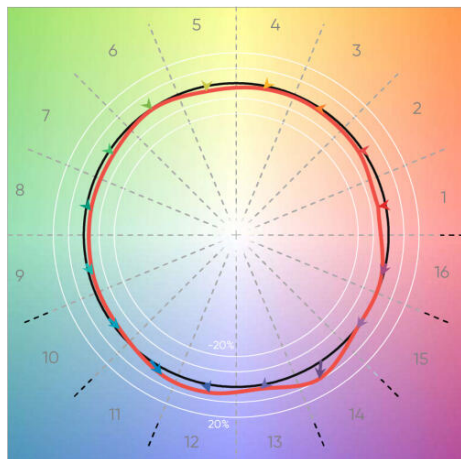
CRI (Ra)	92
CRI (R9)	58
TM30 Rf	92
TM30 Rg	100
Duv	-0.0003

CCT 3500K



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

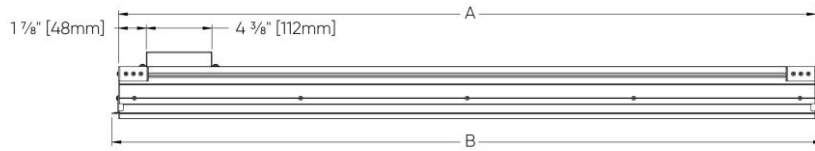
CCT 4000K



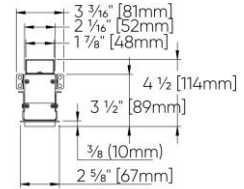
CRI (Ra)	93
CRI (R9)	64
TM30 Rf	90
TM30 Rg	98
Duv	0.0000

10 DIMENSIONAL DIAGRAMS

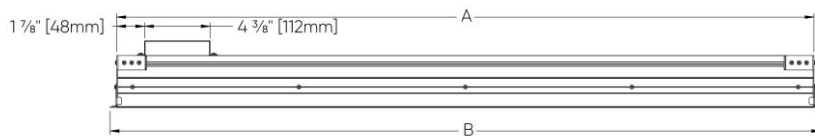
Grid Ceiling - Tegular ceiling



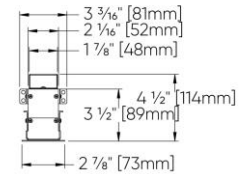
Max Length (Per section)	A	B
4ft	46 13/16" [1189mm]	47 11/16" [1212mm]
6ft	70 13/16" [1791mm]	71 11/16" [1821mm]
8ft	94 13/16" [2408mm]	95 11/16" [2431mm]
10ft	118 13/16" [3018mm]	119 11/16" [3040mm]
12ft	142 13/16" [3627mm]	143 11/16" [3650mm]



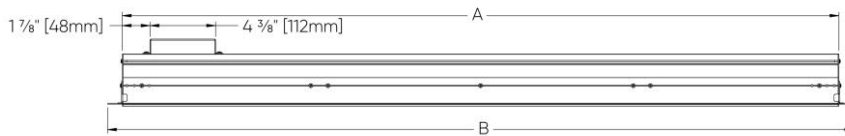
Grid Ceiling - T-bar ceiling



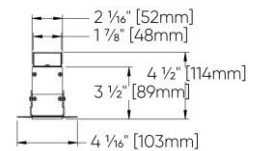
Max Length (Per section)	A	B
4ft	46 13/16" [1189mm]	47 11/16" [1212mm]
6ft	70 13/16" [1791mm]	71 11/16" [1821mm]
8ft	94 13/16" [2408mm]	95 11/16" [2431mm]
10ft	118 13/16" [3018mm]	119 11/16" [3040mm]
12ft	142 13/16" [3627mm]	143 11/16" [3650mm]



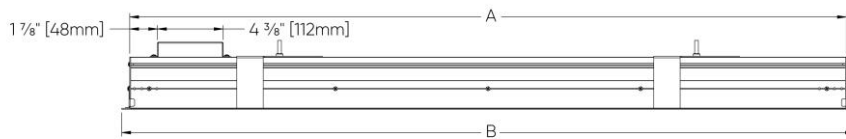
Hard Ceiling - Trimless



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]

