**specialty**
lighting industries

The Confetti Family

Just like little pieces of paper floating from the sky can create an amazing image in a parade, Confetti™ offers a fun way to deliver light in small packages. The Confetti™ family's array of options include recessed downlights, wallwashers , eyeball adjustables and surface offerings in the form of tiny monopoints and pendants.

1" Round Flanged
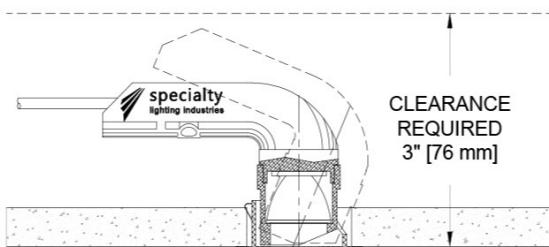
CLEARANCE
REQUIRED
3" [76 mm]

Ø1 $\frac{5}{8}$" [42 m

PROJECT: TYPE:

SPECIFIER: DATE:

Key Points (CF1D-RA-FLO)

Trim

- Distinctive, small 1" round adjustable downlight

- Flanged trim available for retrofit type installation, no housing required.

- Flanged trim features micro-bite wing springs.

- White or Black standard finish for aperture bezel and flanged trims.

Source / Optics

- 2700K, 3000K and 3500K available.

- 2 beamspreads available - 20° & 28°

- Up to 1246 Peak CD

- Up to 254 delivered lumens from our very small, 1" aperture

- <3 MacAdam Steps (<3SDCM) for fixed white

- 90 CRI , 60+ R9 Standard

- View Photometry

Housing

- TITLE 24 JA8 IC Rated / airtight housing approved for use in direct contact with insulation meeting CA Title 24 requirements.

- CSA - listed for Wet Location

- Wire pigtails are CMP rated for plenum use.

Drivers

- Configurable driver box for up to 4 Confetti™ fixtures on a single remote driver. Can be mixed with other fixtures within the Confetti™ family. Quantity of driver boxes needs to be specified based upon number of fixtures and control zone requirements.

- Remote Universal EldoLED driver, 120-277V

- Flicker free to IEEE 1789-2015 available with EldoLED and TruPhase™ selections

- 0-10 volt, DALI-2, TruPhase™

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Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CF1D-RA-FLO-SG7-27-20-CFD/E1-1-B-B-ATH

| FIXTURE	TRIM	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	DRIVER QUANTITY	TRIM FINISH	ACCESSORIES
CF1D-RA-FLO								
Confetti™ 1" Round Adjustable (Oval Flat Pin Hole)	F Flanged Trim^ * Recommend that CFCBHS tool listed under Accessories be purchased for easy installation. Refer to Ceiling Cutouts and Dimensions for details. Trim finish does not apply to flangeless trims. ^ Must specify trim finish for flanged trim	SG7 8W 205Lm* 90+CRI, 65+R9 View Photometry	27 2700K 30 3000K 35 3500K	20 Spot 28 Narrow Flood	CFD/E1 0-10* 0.1%, UNV (120-277V) log CFD/E2 DALI-2* 0.1%, UNV (120-277V) log CFD/E3 0-10* 0.1%, UNV (120-277V) linear TR2 TruPhase™ 0.1%, (120-120V) log Up to 20W Forward and Reverse compatible Phase Dimming Static White & Ambient Dim only K No driver required. (CFD box has been specified with another Confetti product) * Remote driver only. Maximum 4 fixtures per driver.	# Specify number of drivers Must specify # of driver boxes based upon control requirements and 1-4 fixtures per driver. See Electrical Configuration and Control section of cut sheets for details.	B Black Paint W White Paint	CCBHS Confetti Counter Bore Hole Saw **Controls** ATH Lutron Athena Wireless Node *Must be used with E2 driver*

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Ceiling Cutouts and Dimensions
Adjustable Oval Flat Pin Hole

Round Flanged   **Flat / Pin Hole (FLO)**
(CF1D-RA-FLO-SG7)

2 9/16" [65 mm]
23°

2 1/8" [54 mm]

1 5/8" [42 mm]

1/2" [13 mm] MIN
3/4" [19 mm] MAX

Ø1 3/8" [35 mm] CUTOUT
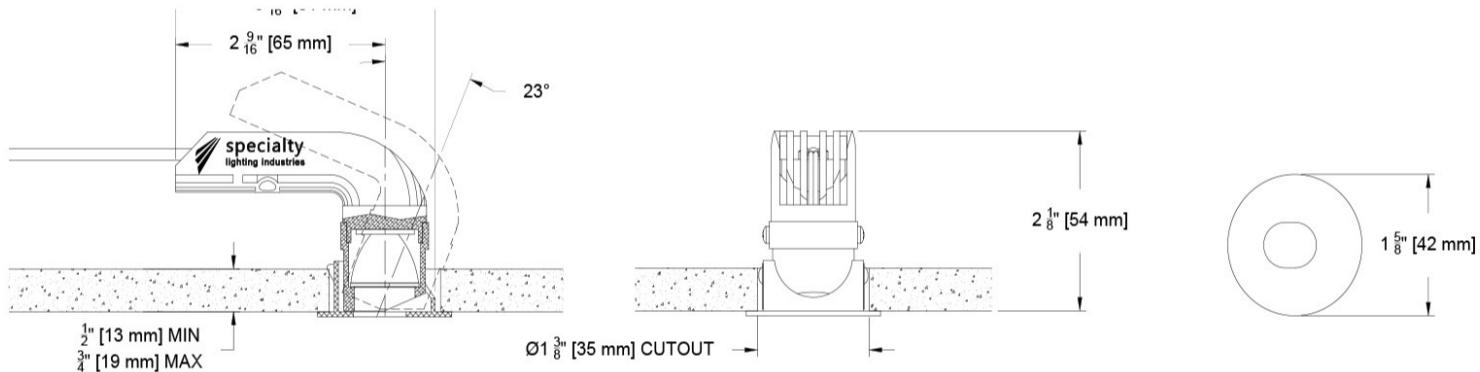
Photometric Table

ROUND Beamspreads		20°				28°			
Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field
Flat SG7	8	205	27	1246	37°	254	34	1062	44°

CCT Multiplier	
CCT	CITIZEN
2700	0.95
3000	1.00
3500	1.02
4000	1.03
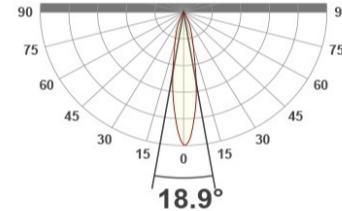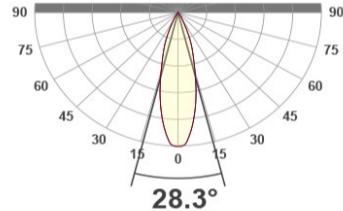
All measurements based on 3000 CCT.

Beam angle
18.9°

Beam angle
28.3°

All measurements are delivered lumens based on 3000K unless otherwise noted below.
ISO cd Plots based on Deep Regress with SG7 Source. Refer to photometry tab on product page for exact ISO cd plot and IES files.
The following combinations do not meet CA Title 24 JA8 requirements: Flat Aperture SG7 source in all beam spreads.s.

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All Color information is based on goniometer measurements of production representative product. All values can vary +/- 10% from LED manufacturer data range as listed on their datasheet.

Specialty Array - SG7

- <3 MacAdam Ellipse (<3 SDCM)
- 90+ CRI and RF
- 60+R9, Hue Bin 1 and 16

92 CRI	66 R9
91 RF	98 RG
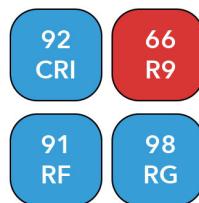
CRI: 92.8 (R1-R8)

TM30: 91.0

Spectra

Color distortion graphics

Chroma shift by hue: -5%, -2%, 0%, -2%, -6%, -2%, -5%, -1%, 0%, 2%, 4%, 7%, 1%, 2%, -3%, -3%

Hue bin

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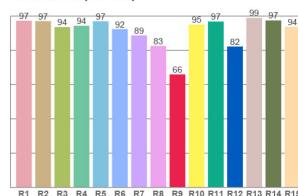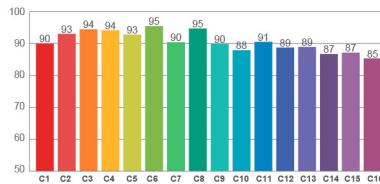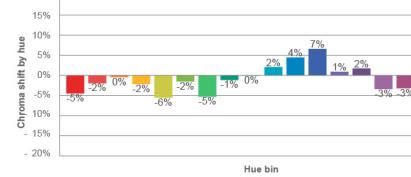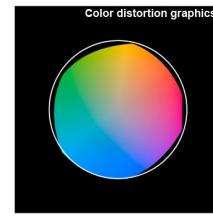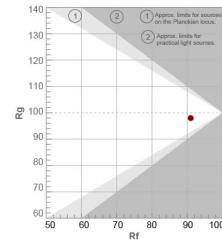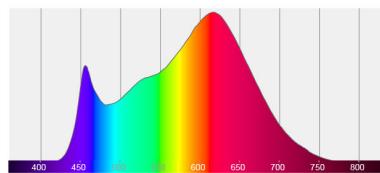
Electrical Configuration and Control

Confetti Driver Enclosure — for CFD/E1, CFD/E2, CFD/E3

REMOTE MOUNTING REQUIRED

7 $\frac{1}{2}$" [191 mm]

4 $\frac{5}{8}$" [117 mm]

1 $\frac{3}{4}$" [43 mm]
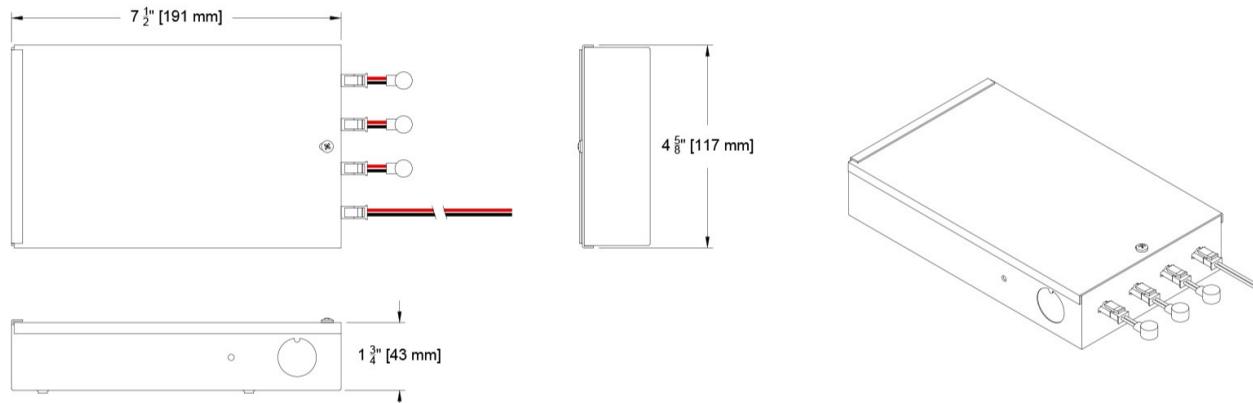
Schematic Wiring Diagram — for CFD/E1, CFD/E2, CFD/E3

CLASS 2 WIRING BETWEEN THE LUMINAIRES AND THE CONFETTI DRIVER ENCLOSURE PROVIDED BY OTHERS. CONNECTION DEVICES ARE SUPPLIED BY SPECIALTY LIGHTING INDUSTRIES.

LINE

NEUTRAL

GROUND

0 - 10V DIM +   DALI-2

0 - 10V DIM −   DALI-2

CONFETTI DRIVER ENCLOSURE

WIRING CONFIGURATION FOR UP TO FOUR (4) LUMINAIRES. PLUG AND PLAY TYPE INSTALLATION CONFIGURABLE AT DRIVER ENCLOSURE.

LUMINAIRE   LUMINAIRE   LUMINAIRE   LUMINAIRE
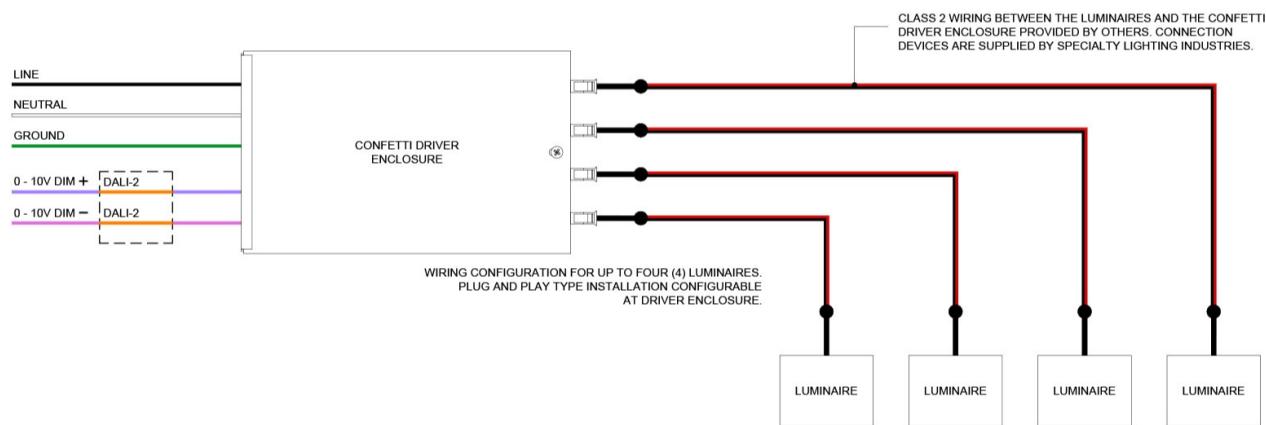
Electrical Configuration and Control

System Wiring Diagram for Confetti Driver Enclosure

for CFD/E1, CDF/E2, CFD/E3

WHITE
BLACK

CONFETTI DRIVER BOX (CFD)

TO 1 - 4 CONFETTI FIXTURES

SCHEMATIC OF CONFETTI DRIVER BOX (CFD)

CONFETTI DRIVER BOX (CFD)

TO 1 - 4 CONFETTI FIXTURES

GREEN

INPUT POWER

REMOTE DISTANCE
SEE WIRE SIZING CHART AND SAMPLE CALCULATION

PURPLE   PINK

UP TO FOUR (4) CONFETTI LUMINAIRES CAN BE POWERED FROM A SINGLE CFD. NUMBER OF CFDS REQUIRED IS DEPENDENT UPON CONFIGURATION OF DIMMING/SWITCHING. TO OPTIMIZE SYSTEM PERFORMANCE, **THE WIRE LENGTHS BETWEEN FIXTURE AND DRIVERS SHOULD BE SIMILAR FOR ALL FIXTURES CONNECTED TO SAME DRIVER.**

TO OPTIMIZE DIMMING PERFORMANCE IT IS IMPORTANT TO BALANCE THE LOADS ON EACH DRIVER. FOR INSTANCE, IN A CONFIGURATION WITH 9 FIXTURES ON A DIMMER IT IS BEST TO PUT THREE (3) CONFETTI LUMINAIRES ON EACH DRIVER, RATHER THAN A 4-4-1 LOAD CONFIGURATION.

CONFETTI DRIVER BOX (CFD)

TO 1 - 4 CONFETTI FIXTURES

FOR DALI-2 CONTROL WIRE FROM DRIVER ARE ORANGE

0 - 10V DIMMING

Remote Wire Sizing Chart CFD/E1, CFD/E2, CFD/E3 Drivers

for All Point Sources	
Max Remote Distance*	Wire Size
46 ft (14 m)	AWG 20 (0.52 mm²)
72 ft (22 m)	AWG 18 (0.82 mm²)
118 ft (36 m)	AWG 16 (1.31 mm²)

* Max Remote Distance calculated by adding the sum of remote distances for all fixtures connected to driver, i.e. four (4) fixtures connected to a single driver, each 20 feet from driver, the remote distance is 80 feet.
For more information and dimmer compatibility refer to driver manufacturer's website:
EldoLED (E2) Drivers - https://eldoled.com/product/dualdrive

EXAMPLE 3 Fixtures @ Various Length each
Calculate Max Remote Distance= Add the sum of all fixture lengths

1-4 Confetti Fixtures Max

REMOTE WIRE LENGTH #1 = 18'
Fixture #1

REMOTE WIRE LENGTH #2 = 20'
Fixture #2

REMOTE WIRE LENGTH #3 = 16'
Fixture #3

CONFETTI DRIVER BOX (CFD)
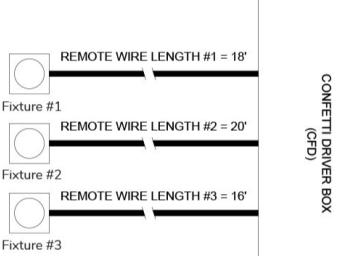
Fixture #1 Remote Wire length= 18'
Fixture #2 Remote Wire Length=20'
Fixture #3 Remote Wire Length=16'
Total Remote Distance = 54'

54' Requires AWG 18 wire because it is less than 72ft maximum distance listed for AWG18.

Note: For the CF1D-RP fixture add 5 feet to remote distance lengths to include the suspension length of the pendant wiring in voltage drop calculations.

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Electrical Configuration and Control

System Wiring Diagram for Confetti - TruPhase™ Driver — for TR2

UP TO FOUR (4) CONFETTI LUMINAIRES CAN BE POWERED FROM A SINGLE CFD. NUMBER OF CFDS REQUIRED IS DEPENDENT UPON CONFIGURATION OF DIMMING/SWITCHING. TO OPTIMIZE SYSTEM PERFORMANCE, **THE WIRE LENGTHS BETWEEN FIXTURE AND DRIVERS SHOULD BE SIMILAR FOR ALL FIXTURES CONNECTED TO SAME DRIVER.**

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