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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. Have some fun and throw some Confetti to light your space. You have found the recessed round fixed downlight and we hope you enjoy the details.

PROJECT: TYPE:

SPECIFIER: DATE:

Key Points (CF1D-RF)

Trim

- Distinctive small 1" aperture available in 3 options (Deep Regress, Flat and Dropped Glass).
- Flangeless and Flanged trims available for retrofit type installation, no housing required.
- Unique design of Flangeless Trim allows for truly flat, smooth ceilings when using the Confetti Counter Bore Hole Saw. For optimal installation we recommend using this tool. Order under accessories.
- Flanged trim features micro-bite wing springs.
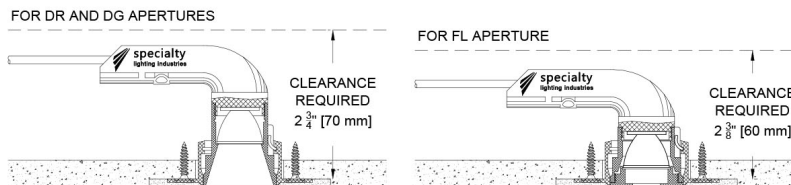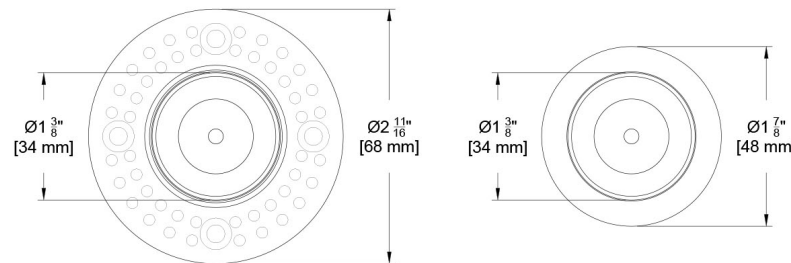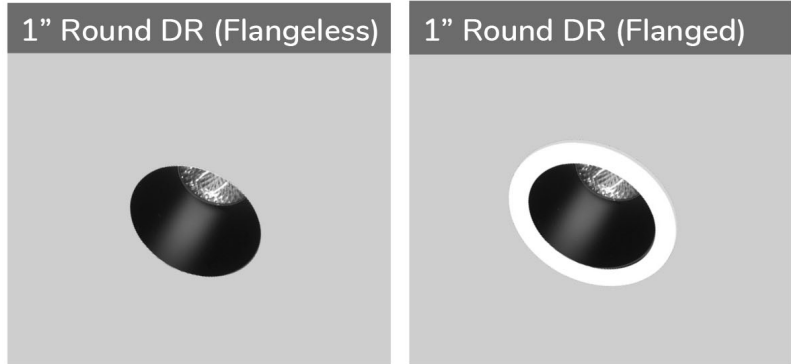- White or Black standard finish for aperture bezel and flanged trims.

Source / Optics

- 2700k, 3000k and 3500k available.
- 3 beamspreads available - 20°, 28°and 40°
- Up to 2193 Peak CD
- Up to 487 delivered lumens from our very small, 1" aperture
- <3 MacAdam Steps (<3SDCM) for fixed white
- 90 CRI , 60+ R9 Standard

Housing

- **TITLE 24** 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
- 0-10 volt, DALI

1" Round DR (Flangeless)

Ø1 3/8" [34 mm]   Ø2 11/16" [68 mm]

1" Round DR (Flanged)

Ø1 3/8" [34 mm]   Ø1 7/8" [48 mm]

FOR DR AND DG APERTURES

CLEARANCE REQUIRED 2 3/4" [70 mm]

FOR FL APERTURE

CLEARANCE REQUIRED 2 3/8" [60 mm]

Aperture Options

Deep Regress (DR)   Flat / Pin Hole (FL)   Drop Glass (DG)

ROUND			20°				37°				40°			
Aperture Type	Source	System watts (W)	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field
Deep Regress	SG7	8	410	51	2193	48°	437	55	1391	55°	487	61	1137	59°
Flat	SG7	8	205	27	1246	37°	254	34	1062	44°	N/A	N/A	N/A	N/A
Dropped Glass	SG7	8	390	52	2143	31°	378	50	1419	38°	389	52	1094	42°

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Ordering Codes

PROJECT: SPECIFIER:

DATE: TYPE: QUANTITY:

Ordering Code Example: CF1D-RF-DR-Z-SG7-30-20-CFD/E1-2-B-K/ (1) CFCBHS for entire order

FIXTURE	APERTURE	TRIM	SOURCE / WATTS	CCT	BEAM	DRIVER / CONTROL	DRIVER QUANTITY	BEZEL FINISH	TRIM FINISH	ACCESSORIES
CF1D-RF										
Confetti 1" Round Fixed Downlight	DR Deep Regress FL Flat (Pin Hole) DG Drop Glass* * Bezel finish not applicable to drop glass	Z Flangeless Trim* 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 487Lm* 90+CRI, 65+R9 * Based on Deep Regress with 40° beamspread	27 2700K 30 3000K 35 3500K	20 Spot 28 Narrow Flood 40 Flood * * Not recommended for use with the FL- Flat (pinhole) aperture	EldoLED 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 K No driver required. (CFD box has been specified with another Confetti product) * Remote driver only.	# 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 K Blank for Drop Glass Aperture Option	B Black Paint W White Paint K Blank for use with Flangeless	CFCBHS Counter Bore Hole Saw for Flangeless Trims Recommended for proper installation of Flangeless Trims. Only one required per project.

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Ceiling Cutouts and Dimensions
All Aperture Types Shown

Round Flangeless — Deep Regress (DR)
(CF1D-RF-DR-Z-SG7)

- 3 3/8" [85 mm]
- 2 9/16" [65 mm]
- 2 1/2" [63 mm]
- Ø1 3/8" [34 mm]
- Ø2 11/16" [68 mm]
- 1/2" [13 mm] MIN - 1 1/4" [32 mm] MAX
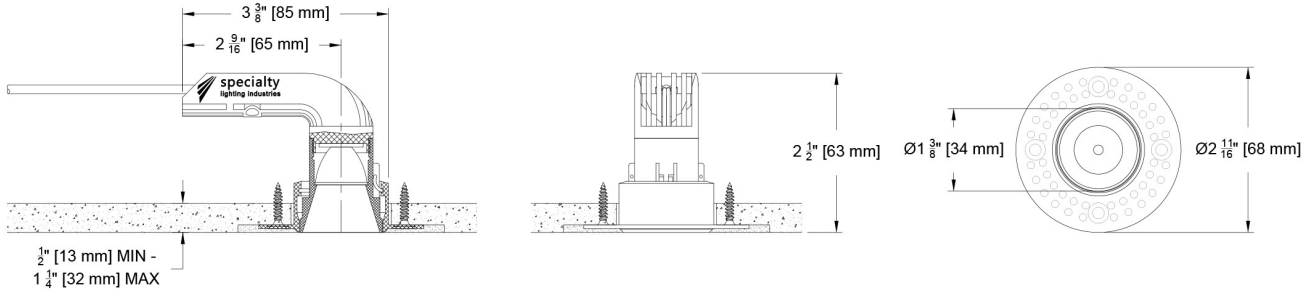
Round Flangeless — Drop Glass (DG)
(CF1D-RF-DG-Z-SG7)

- 3 3/8" [85 mm]
- 2 9/16" [65 mm]
- 2 1/2" [63 mm]
- 1 3/16" [30 mm]
- Ø1 3/8" [34 mm]
- Ø2 11/16" [68 mm]
- 1/2" [13 mm] MIN - 1 1/4" [32 mm] MAX
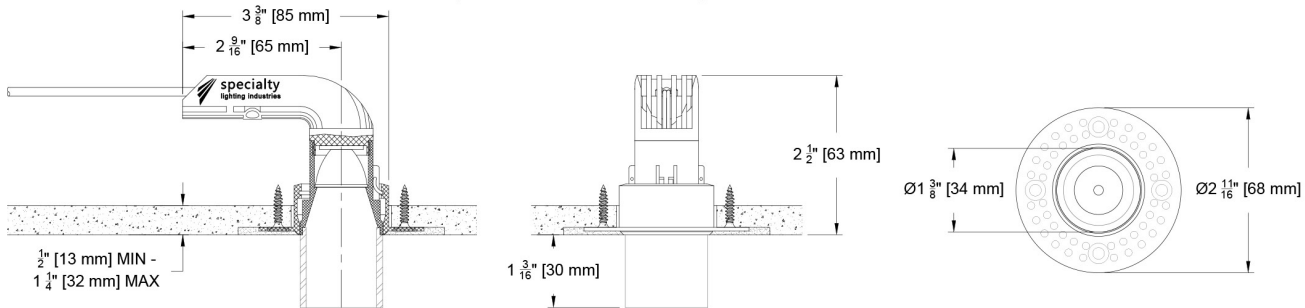
Round Flangeless — Flat / Pin Hole (FL)
(CF1D-RF-FL-Z-SG7)

- 3 3/8" [85 mm]
- 2 9/16" [65 mm]
- 2 1/8" [51 mm]
- Ø1 3/8" [34 mm]
- Ø2 11/16" [68 mm]
- 1/2" [13 mm] MIN - 1 1/4" [32 mm] MAX
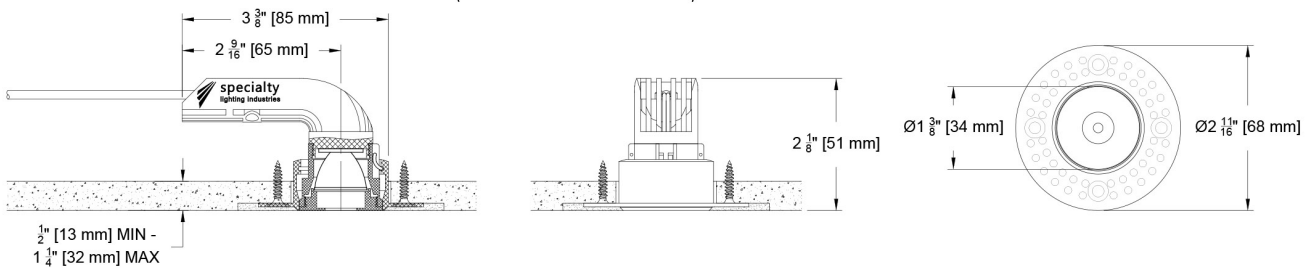
Flangeless Mount Detail
CFCBHS REQUIRED ALONG WITH POWER DRILL FOR THIS CUTOUT. SEE ACCESSORIES

- 1/2" [13 mm] MIN - 1 1/4" [32 mm] MAX
- 1/8" [3 mm]
- Ø1 5/8" [41 mm]
- Ø3 3/8" [80 mm]

*Confetti Counter Bore Hole Saw (CFCBHS)

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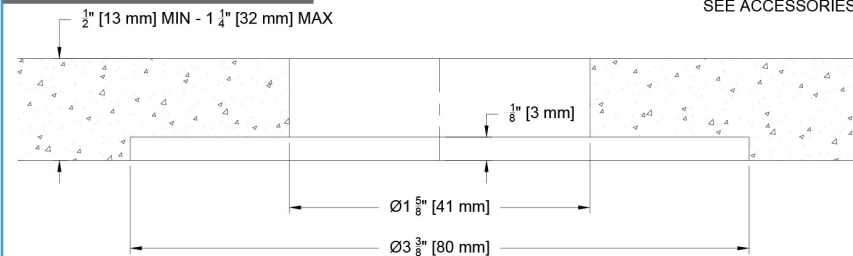
Ceiling Cutouts and Dimensions
All Aperture Types Shown

Round Flanged — Deep Regress (DR)
(CF1D-RF-DR-F-SG7)

3 3/8" [85 mm]
2 9/16" [65 mm]
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Ø1 5/8" [41 mm] CUTOUT
2 1/2" [64 mm]
Ø1 3/8" [34 mm]   Ø1 7/8" [48 mm]
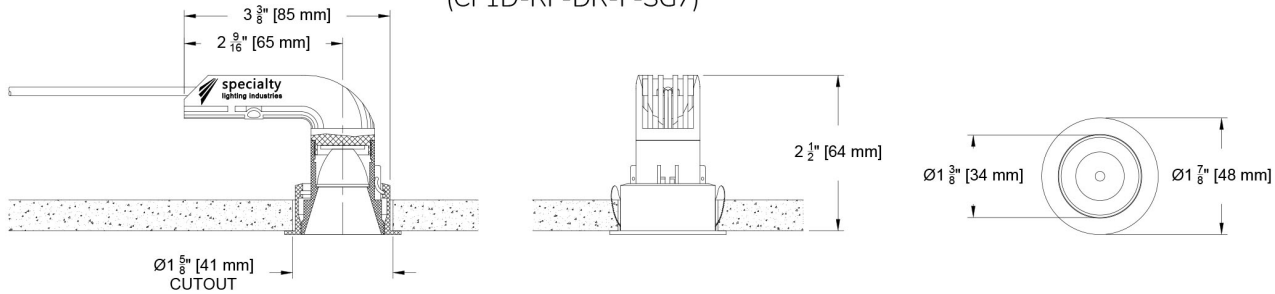
Round Flanged — Drop Glass (DG)
(CF1D-RF-DG-F-SG7)

3 3/8" [85 mm]
2 9/16" [65 mm]
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Ø1 5/8" [41 mm] CUTOUT
1 3/16" [30 mm]
2 1/2" [64 mm]
Ø1 3/8" [34 mm]   Ø1 7/8" [48 mm]
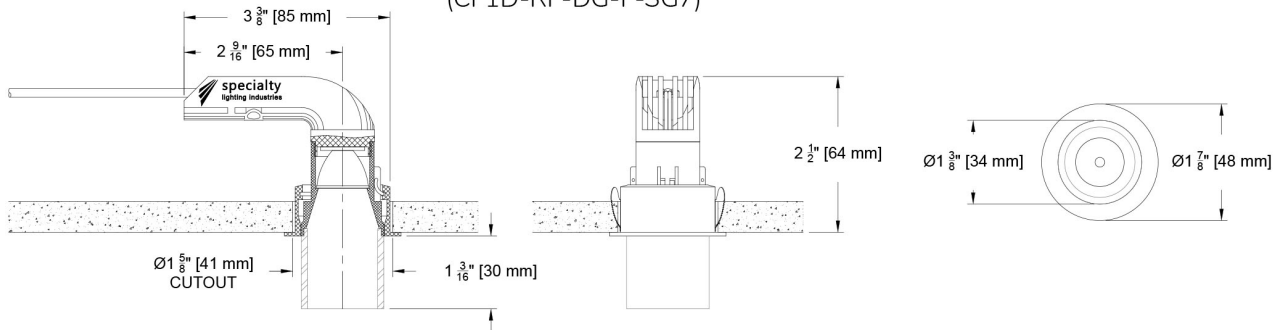
Round Flanged — Flat / Pin Hole (FL)
(CF1D-RF-FL-F-SG7)

3 3/8" [85 mm]
2 9/16" [65 mm]
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Ø1 5/8" [41 mm] CUTOUT
2 1/8" [53 mm]
Ø1 3/8" [34 mm]   Ø1 7/8" [48 mm]

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Photometric Table
All data below are delivered lumens based on goniometer measurements of production representative product. All lumen values can vary +/- 10% from LED manufacturer rated nominal flux.

ROUND Beamspreads			20°				28°				40°			
Source		System watts (W)	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field	Delivered Lumens (lm)	Lumens/ Watt	Peak CD	10% Field
Deep Regress	SG7	8	410	51	2193	48°	437	55	1391	55°	487	61	1137	59°
Flat	SG7	8	205	27	1246	37°	254	34	1062	44°	N/A	N/A	N/A	N/A
Dropped Glass	SG7	8	390	52	2143	31°	378	50	1419	38°	389	52	1094	42°

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°

Beam angle
39.9°
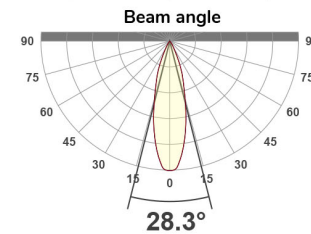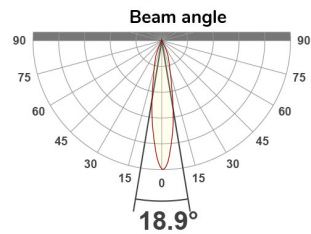
All measurements are delivered lumens based on 3000K unless otherwise noted below.
ISO cd Plots based on Deep Regress with SG7 Source. Refer to photometry tab on product page for exact ISO cd plot and IES files.
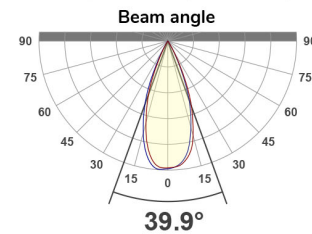The following combinations do not meet CA Title 24 JA8 requirements: Flat Aperture SG7 source in all beam spreads.s.

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Color Data

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

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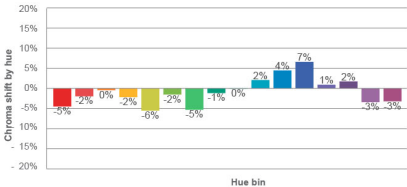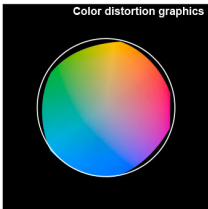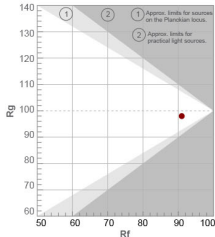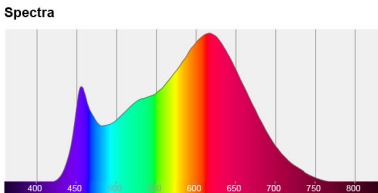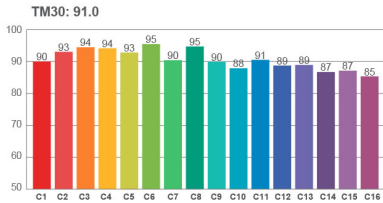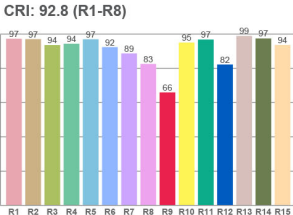
Electrical Configuration and Control

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
0 - 10V DIM −   DALI

CONFETTI DRIVER
ENCLOSURE

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

LUMINAIRE   LUMINAIRE   LUMINAIRE   LUMINAIRE

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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 CONTROL WIRES 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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