



CRN2-LED

Correctional Behavioral Health LED Recessed Flange

PRODUCT SPECIFICATION

The CRN2 series is designed for use in all levels of correctional facilities, behavioral health units, and high abuse applications. Anti-ligature for patient safety.

Mounting

Mounts recessed in metal pan or gypsum ceiling with universal mounting brackets.

Housing

18 gauge die-formed cold rolled steel with seams welded and ground smooth.

Door

One-piece die-formed cold rolled steel overlapping door with 14 gauge lens retainers. Freedom Hinge™ design permits removal and hinging from either side. 304 Stainless steel available.

Internal Lens

Optic Plus lens (standard) completely hides diode image while providing greater than 90% light transmission.

Finish

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel available.

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Driver

0-10Vdc 1% dimming, >0.9 PF, <20% THD
Factory programmable, Operating temp -40°C Min. to 50°C Max

Wiring

.875 in. diameter knockout. Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

UL Listed damp or wet location.

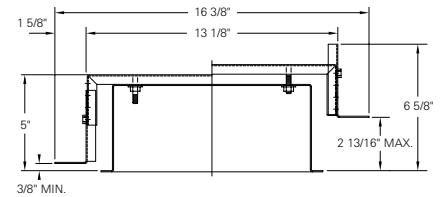
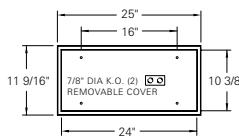
Job Name

Fixture Type

Catalog No.

Approval

Date



RECOMMENDED CEILING CUTOUT = 10 5/8" X 24 1/4"



CRN2 - one - two / three - four five six seven eight DM - nine / ten - eleven twelve - thirteen

one LED Source

Refer to the LED Source Table on Page 2 for available options.

two Color Temperature

- 30 3000K
- 35 3500K
- 40 4000K
- 50 5000K

three CRI

- 80 80 CRI
- 90 90 CRI

four Door Gauge

- N 18 gauge, minimum security
- D 16 gauge, medium security
- X 14 gauge, maximum security
- U 12 gauge, super max, CRS only

five Door Material

- C Cold rolled steel
- S 304 Stainless steel

six Finish

- R Brushed (Stainless steel only)
- W White

seven Voltage

- VAR Variable, 120-277 V, 50/60Hz
- 347 347VAC, 60Hz

eight Driver

- DM 0-10Vdc Dimming, standard

nine Internal Lens

- 122 Optic Plus LED diffusing acrylic, standard
- 130 .125 in. LED diffusing Lexan
- 53 .125 in. K12 prismatic acrylic
- 12 .125 in K12 prismatic polycarbonate
- 15 .156 in. K12 prismatic polycarbonate
- 16 .187 in. K12 prismatic polycarbonate
- 75 .156 in. C73 prismatic tempered glass

ten External Lens

- 30 .187 in. clear polycarbonate
- 32 .250 in. clear polycarbonate
- 36 .375 in. clear polycarbonate
- 38 .500 in. clear polycarbonate
- 90 .187 in. clear tempered glass
- 92 .250 in. clear tempered glass
- 96 .375 in. clear tempered glass

eleven Door Fasteners

- AP Stainless steel allen head with pin
- TP Stainless steel torx head with pin
- PH Phillips, non-security

twelve UL Listing

- D Damp Locations
- W Wet Location

thirteen Options

- 2C Two-circuit wired
- CU Canadian UL Listing
- CP CCEA Chicago
- EM Emergency battery backup
- FH Fuse and holder
- NL-LED Night light, LED (Amber available)
5-100% Adjustability
- IMS Integral Occ Sensor
- PF Plaster frame

Housing Material

- AH Aluminum
- SH Stainless steel

Modifications are available to meet custom requirements. Specifications and dimensions are subject to change without notice.

CRI	LED Life
>80	>100,000

LED Source (Box 2)	3000K		3500K		4000K		5000K		Input Watts
	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	
2' Fixture									
1W16	1555	91	1578	92	1625	95	1671	98	17.1
1W26	2562	89	2600	91	2677	93	2753	96	28.7
2W40	3828	97	3885	98	4000	101	4114	104	39.6
2W46	4492	96	4559	97	4693	100	4827	103	46.8
2W53	5124	94	5200	95	5353	98	5506	100	54.8

Delivered lumen output calculated using 122 inner lens and 32 (.250" Clear Polycarbonate) outer lens (Highlighted below).

Lens Multiplier - Use the multipliers below to adjust the delivered lumens									
Internal Lens					External Lens				
53	.125 in. K12 prismatic acrylic		1.00		30	.187" Clear polycarbonate			1.02
12	.125 in K12 prismatic polycarbonate		.98		32	.250" Clear Polycarbonate			1.00
15	.156 in. K12 prismatic polycarbonate		.97		36	.375" Clear polycarbonate			.96
16	.187 in. K12 prismatic polycarbonate		.95		38	.500" Clear polycarbonate			.92
75	.156 in. C73 prismatic tempered glass		.97		90	.187" Clear tempered glass			1.04
122	Optic Plus diffusing acrylic		1.00		92	.250" Clear tempered glass			1.03
90 CRI Multiplier		.86			96	.375" Clear tempered glass			.99

Specified Output Option

L.C. Doane programmable drivers allows us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example how this will be specified.

Example Model:

CRN2-**2W**SO-40/80-DCW-VARDM-122/32-TPD-**(XX/LUMENS)**

LUMENS = You provide the lumens.

XX = We will provide the wattage information.