CRN1-LED

Correctional Behavioral Health **LED** Recessed Flange

PRODUCT SPECIFICATION

The CRN1 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
16 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.

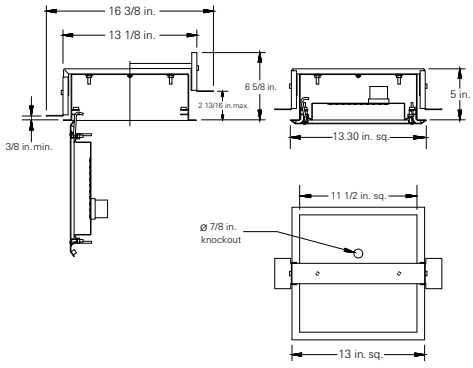
Certifications
UL Listed damp or wet location.

Job Name

Fixture Type

Catalog No.

Approval Date



one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen
CRN1 -		-		/		-		-	DM -		/		-			-

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
- CU Canadian UL Listing
- CP CCEA Chicago
- EM Emergency battery backup
- FH Fuse and holder

Contact factory for 14 ga CRS and SS housings

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	
1' x 1' Fixture									
1W19	1680	98	1706	100	1756	103	1806	106	17.1
1W25	2250	98	2284	99	2351	102	2418	105	23.0
1W31	2769	96	2810	98	2893	101	2975	104	28.7

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		
122	Optic Plus diffusing acrylic	1.00	30	.187" Clear polycarbonate	1.02
130	.125 in. LED diffusing Lexan	.95	32	.250" Clear Polycarbonate	1.00
53	.125 in. K12 prismatic acrylic	1.00	36	.375" Clear polycarbonate	.96
12	.125 in K12 prismatic polycarbonate	.98	38	.500" Clear polycarbonate	.92
15	.156 in. K12 prismatic polycarbonate	.97	90	.187" Clear tempered glass	1.04
16	.187 in. K12 prismatic polycarbonate	.95	92	.250" Clear tempered glass	1.03
75	.156 in. C73 prismatic tempered glass	.97	96	.375" Clear tempered glass	.99
90 CRI Multiplier		**.83**			

Specified Output Option

LC 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:
CRN1-**1W**SO-40/80-DCW-VARDM-122/32-TPD-(**XX**/**LUMENS**)

LUMENS = You provide the lumens.
XX = We will provide the wattage information.