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.
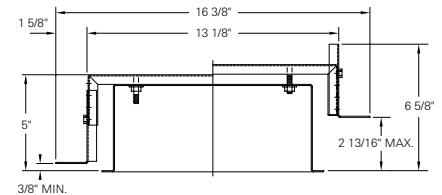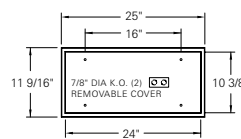
Certifications
UL Listed damp or wet location.

Job Name

Fixture Type

Catalog No.

Approval   Date

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

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

Contact factory for 14 ga and 16 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	
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.

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