



CRN-LED

Security **LED** Recessed Flange

PRODUCT SPECIFICATION

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

Housing

Mounts recessed in metal pan or gypsum ceiling with swing brackets that extend and clamp with a single screw action.

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. Stainless steel available.

Internal Lens

Optic Plus lens (standard) completely hides diode image while providing minimum 95% light transmission.

Internal Lens

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

Finish

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

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Driver

0-10Vdc dimming, Range 1%-100%
-40°C Min. starting temperature, >0.9 PF, <20% THD

Wiring

Access plate with two .875 in. diameter knockouts. 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. Wet location option is IP65 rated.

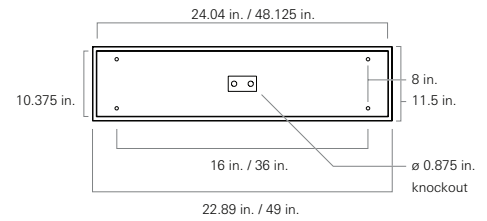
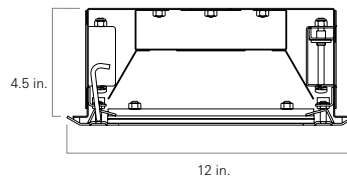
Job Name _____

Fixture Type _____

Catalog No. _____

Approval _____

Date _____



CRN	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen
one	Luminaire Size	2 ft fixture	4 ft fixture										
two	LED Rows	1L One	2L Two	3L Three									
three	Color Temperature	30 3000K	35 3500K	40 4000K	50 5000K								
four	Door Gauge	N 18 gauge, minimum security	D 16 gauge, medium security	X 14 gauge, maximum security	U 12 gauge, super max, <u>CRS only</u>								
five	Door Material	C Cold rolled steel	S Stainless steel										
six	Finish	R Brushed stainless steel	W White										
	seven	Voltage	120 120 V, 60 Hz	277 277 V, 60 Hz	VAR Variable, 120-277 V, 50/60Hz								
	eight	Driver	DM 0-10Vdc Dimming, <u>standard</u>										
	nine	Internal Lens	122 Optic Plus LED diffusing acrylic lens, <u>std</u>	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 Location	W Wet Location									
	thirteen	Options	SO Specified output*	2C Two-circuit wired	CU Canadian UL Listing	EM Emergency battery backup	FH Fuse and holder	NL-LED Night light, LED	IMS Integral Occ Sensor	PF Plaster frame			

* Indicated as SO(xx/xxx). Specified output, Input watts / delivered lumens to be determined based on specified requirements.

Consult factory for 14 and 16 gauge CRS and SS housings

Modifications are available to meet custom requirements.

Photometric Data for a 1x4 fixture with three rows (Full Output)

Lumens	Input Watts	Lumens / Watt	CCT	CRI	LED Life
18110	164.3 watts	110	4000K	>80	>100,000

Photometric Data for a 1x2 fixture with three rows (Full Output)

Lumens	Input Watts	Lumens / Watt	CCT	CRI	LED Life
9055	82.2 watts	110	4000K	>80	>100,000

Coefficients of Utilization - Zonal Cavity Method (CRN-LED 1x4)

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72
3	.91	.81	.73	.67	.89	.80	.72	.63	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61
4	.84	.72	.64	.57	.82	.71	.63	.54	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53
5	.77	.65	.56	.50	.75	.64	.55	.48	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6	.71	.58	.50	.43	.70	.58	.49	.42	.56	.48	.43	.54	.48	.43	.53	.47	.42	.40
7	.66	.53	.45	.39	.65	.52	.44	.37	.51	.43	.38	.49	.43	.38	.48	.42	.38	.36
8	.62	.49	.40	.34	.60	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9	.58	.45	.37	.31	.56	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26

CRN-LED - Polar Candela Distribution (CRN-LED 1x4)

CRN-LED - Polar Candela Distribution (CRN-LED 1x2)

