



CRC-LED

Correctional Behavioral Health **LED** Grid / Flange 15/16 to 1.5 in. T Grid

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

PRODUCT SPECIFICATION

Mounting

Suitable for installation in recessed 15/16"–1.5" T-Grid or hard ceiling applications. Hard ceiling (flange) type mounts via swing arm brackets that extend and clamp with a single screw action. Swing arm bracket also serves as connection for earthquake cables.

Housing

18 gauge die-formed cold rolled steel with seams welded and ground smooth. Standard. Other options available.

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.

Driver

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

Wiring

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

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Certifications

UL Listed damp or wet location. Wet location option is IP65 rated. Included in NYS OMH Patient Safety Standards.

Job Name

Fixture Type

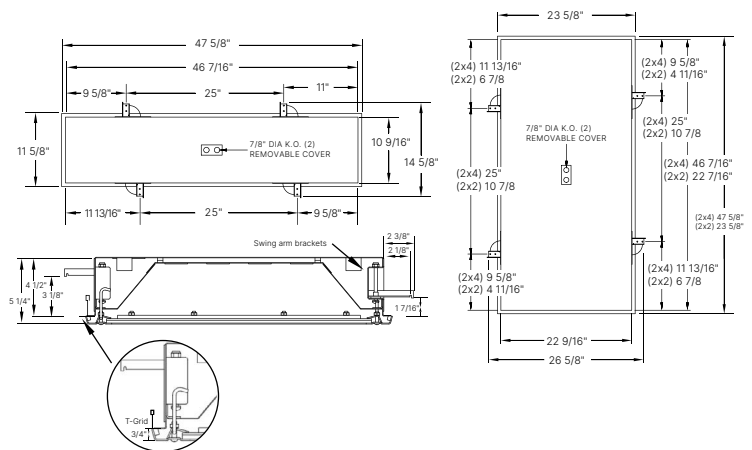
Catalog No.

Approval

Date



Ceiling Grid / Flange Design



	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen
CRC	-	-	/	-	-	-	-	-	DM	-	/	-	-	-
one	Luminaire Size													
14	1 × 4, three rows max													
22	2 × 2													
24	2 × 4													
two	LED Source													
	Refer to the LED Source Table on Page 2 for available options.													
three	Color Temperature													
30	3000K													
35	3500K													
40	4000K													
50	5000K													
four	CRI													
80	80 CRI													
90	90 CRI													
five	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>													
six	Door Material													
C	Cold rolled steel													
S	304 Stainless steel													
seven	Finish													
R	Brushed (Stainless steel only)													
W	White													
eight	Voltage													
VAR	Variable, 120-277 V, 50/60Hz													
347	347VAC, 60Hz													
nine	Driver													
DM	0-10Vdc Dimming, <u>standard</u>													
ten	Internal Lens													
122	Optic Plus LED diffusing acrylic, <u>standard</u>													
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													
eleven	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													
twelve	Door Fasteners													
AP	Stainless steel allen head with pin													
TP	Stainless steel torx head with pin													
PH	Phillips, non-security													
thirteen	UL Listing													
D	Damp Location													
W	Wet Location													
fourteen	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													
AWN	Lutron Athena Wireless Node RF Only													
	Housing Material													
AH	Aluminum - 16 gauge													
DH	Cold rolled steel - 16 gauge													
SH	Stainless steel - 18 gauge													

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 4' Fixture									
1W20	2114	103	2146	105	2142	104	2272	111	20.5
1W30	3130	105	3177	106	3270	109	3364	113	29.9
1W40	4282	104	4346	106	4474	109	4602	112	41.0
1W55	5489	100	5571	102	5735	105	5899	108	54.8
2W70	7065	105	7170	106	7381	109	7592	112	67.6
2W85	8564	104	8692	106	8948	109	9203	112	82.1
2W100	10978	100	11142	102	11470	105	11797	108	109.6
2' x 2' Fixture									
2W28	2753	105	2794	107	2876	110	2958	113	26.1
2W43	4142	105	4204	106	4328	109	4452	112	39.6
2W58	5544	101	5627	103	5793	106	5958	109	54.8
4W85	8285	104	8409	106	8656	109	8903	112	79.3
4W110	11089	101	11254	103	11585	106	11917	109	109.6
2' x 4' Fixture									
2W43	4448	116	4514	117	4647	121	4780	124	38.5
2W61	6160	116	6252	117	6436	121	6619	124	53.3
2W75	7853	110	7970	111	8204	115	8439	118	71.5
2W95	10124	108	10275	110	10577	113	10879	116	93.7
2W110	11548	105	11720	107	12065	110	12409	113	109.6
3W135	14077	109	14287	111	14707	114	15128	117	128.9
3W165	17321	105	17580	107	18097	110	18614	113	164.4
4W195	20248	108	20550	110	21154	113	21759	116	187.4
4W225	23095	105	23440	107	24129	110	24819	113	219.2

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

90 CRI Multiplier

.83

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

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:

CRC24-**XX**'SO-40/80-DCW-VARDM-122/32-(**XX**²/LUMENS)

LUMENS = You provide the lumens.

XX¹ = We will determine the number of rows.

XX² = We will provide the wattage information.