

LED Correctional High Abuse

Surface Mount Ceiling Surface

PRODUCT SPECIFICATION

The SO series is designed for use in all levels of correctional facilities and high abuse applications.

Mounting

Surface-mounts to ceiling.

Housing

Die-formed cold rolled steel with seams welded and ground smooth. 304 Stainless steel available.

One piece, die formed cold rolled steel with seams welded and ground smooth and 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.

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

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

Hardware

Recessed, stainless steel, tamper-proof fasteners.

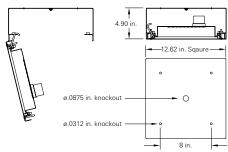
Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

UL Listed damp or wet location. Covered ceilings only.

















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one	LED Source Refer to the LED Source Table on Page 2 for available options.	seven VAR 347	Voltage Variable, 120-277 V, 50/60Hz 347VAC, 60Hz	eleven AP TP PH	Door Fasteners Stainless steel allen head with pin Stainless steel torx head with pin Phillips, non-security
30 35 40	Color Temperature 3000K 3500K 4000K	eight DM nine	Driver 0-10Vdc Dimming, standard Internal Lens	twelve K	Electrical Access 0.875 in. diameter knockout(s), standard
50	5000K	122 130	Optic Plus LED diffusing acrylic, <u>standard</u> .125 in. LED diffusing Lexan	thirteen D	UL Listing Damp Location
three 80 90	CRI 80 CRI 90 CRI	53 12 15	.125 in. K12 prismatic acrylic .125 in K12 prismatic polycarbonate .156 in. K12 prismatic polycarbonate	W fourteen AM	Wet Location Options Anti-microbial coating (exposed areas)
four N D	Material Gauge 18 gauge, minimum security 16 gauge, medium security	16 75	.187 in. K12 prismatic polycarbonate .156 in. C73 prismatic tempered glass	CU E1 FH	Canadian UL Listing One lamp emergency ballast Fuse and holder
five A	Material Aluminum	ten 30 32	External Lens .187 in. clear polycarbonate .250 in. clear polycarbonate		
C S	Cold rolled steel 304 Stainless steel	36 38	.375 in. clear polycarbonate .500 in. clear polycarbonate		
six R W	Finish Brushed (Stainless steel only) White	90 92 96	.187 in. clear tempered glass .250 in. clear tempered glass .375 in. clear tempered glass	Modificati	ions are available to meet custom requirements.

Specifications and dimensions are subject to change without notice.

CRI	LED Life
>80	>100,000

LED	30001	(3500K		40001	(5000K				
Source (Box 2)	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Input Watts		
	1' x 1' Fixture										
1W19	1772	104	1799	106	1852	109	1905	112	17.0		
1W25	2373	103	2409	105	2479	108	2550	111	23.0		
1W31	2920	101	2964	102	3051	105	3138	108	29.0		

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

Lens Multiplier									
	Internal Lens	External Lens							
53	.125" Prismatic Acrylic	1.00	30	.187" Clear polycarbonate	1.02				
12	.125" K12 prismatic acrylic	.98	32	.250" Clear Polycarbonate	1.00				
15	.125" K12 prismatic polycarbonate	.97	36	.375" Clear polycarbonate	.96				
16	.156" K12 prismatic polycarbonate	.95	38	.500" Clear polycarbonate	.92				
122	.125" Optic Plus	1.00	90	.187" Clear tempered glass	1.04				
90	CRI Multiplier .86	92	.250" Clear tempered glass	1.03					
		96	.375" Clear tempered glass	.99					

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:

SO-1WSO-40/80-DCW-VARDM-122/32-TPKD-(XX/LUMENS

LUMENS = You provide the lumens.

XX = We will provide the wattage information.