

Correctional High Abuse

LED

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.

Door

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.

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

Recessed, stainless steel, tamper-proof fasteners.

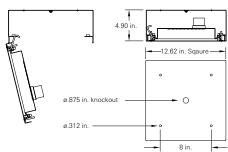
Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

UL Listed damp or wet location. Covered ceilings only.

















	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen
SO -		-	1	-			-	DM	-	/	-	K	-	

			,		
one	LED Source Refer to the LED Source Table on Page 2 for available options.	seven VAR 347	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
two 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	Optic Plus LED diffusing acrylic, standard	thirteen	UL Listing
three 80	CRI 80 CRI	130 53 12	.125 in. LED diffusing Lexan .125 in. K12 prismatic acrylic .125 in K12 prismatic polycarbonate	D W	Damp Location Wet Location
90 four	90 CRI Material Gauge	15 16	.156 in. K12 prismatic polycarbonate .187 in. K12 prismatic polycarbonate	fourteen AM	Anti-microbial coating (exposed areas)
N D	18 gauge, minimum security 16 gauge, medium security	75	.156 in. C73 prismatic tempered glass	CU E1	Canadian UL Listing One lamp emergency ballast
five	Material	ten	External Lens	FH	Fuse and holder
Α	Aluminum	30	.187 in. clear polycarbonate		
С	Cold rolled steel	32	.250 in. clear polycarbonate		
S	304 Stainless steel	36	.375 in. clear polycarbonate		
six	Finish	38	.500 in. clear polycarbonate		
R	Brushed (Stainless steel only)	90 92	.187 in. clear tempered glass .250 in. clear tempered glass		
W	White	92 96	375 in clear tempered glass		

Modifications are available to meet custom requirements. Specifications and dimensions are subject to change without notice.

.375 in. clear tempered glass

96

CRI	LED Life
>80	>100,000

LED Source (Box 2)	3000К		3500К		4000K		5000K				
			Delivered Lumens	L/W	Delivered Lumens	/W		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 in. Clear Polycarbonate) outer lens (Highlighted below).

Lens Multiplier										
	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					
122	Optic Plus LED diffusing acrylic, standard	1.00	90	.187 in. Clear tempered glass	1.04					
130	.125 in. LED diffusing Lexan	.95	92	.250 in. Clear tempered glass	1.03					
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:

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

LUMENS = You provide the lumens.

XX = We will provide the wattage information.