SO-LED

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

Hardware
Recessed, stainless steel, tamper-proof fasteners.

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

Certifications
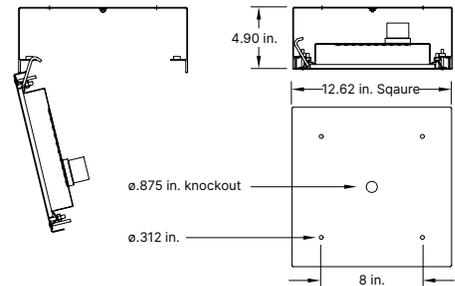UL Listed damp or wet location.
Covered ceilings only.

Job Name
Fixture Type
Catalog No.
Approval   Date

4.90 in.

12.62 in. Sqaure

ø.875 in. knockout

ø.312 in.

8 in.

WOSB   FIVE WARRANTY YEAR   W WET   c UL us   BAA   BABA   MADE IN USA

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

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   Material Gauge
N   18 gauge, minimum security
D   16 gauge, medium security
X   14 gauge, maximum security

five   Material
A   Aluminum
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, <u>standard</u>

nine   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

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   Electrical Access
K   0.875 in. diameter knockout(s), <u>standard</u>

thirteen   UL Listing
D   Damp Location
W   Wet Location

fourteen   Options
AM   Anti-microbial coating (exposed areas)
CU   Canadian UL Listing
EM   Emergency battery back up
FH   Fuse and holder

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 1' Fixture									
1W19	1680	98	1706	100	1756	103	1806	106	17.1
1W25	2250	98	2284	99	2351	102	2418	105	23.0
1W31	2769	96	2810	98	2893	101	2975	104	28.7

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		
122	Optic Plus diffusing acrylic	1.00	30	.187" Clear polycarbonate	1.02
130	.125 in. LED diffusing Lexan	.95	32	.250" Clear Polycarbonate	1.00
53	.125 in. K12 prismatic acrylic	1.00	36	.375" Clear polycarbonate	.96
12	.125 in K12 prismatic polycarbonate	.98	38	.500" Clear polycarbonate	.92
15	.156 in. K12 prismatic polycarbonate	.97	90	.187" Clear tempered glass	1.04
16	.187 in. K12 prismatic polycarbonate	.95	92	.250" Clear tempered glass	1.03
75	.156 in. C73 prismatic tempered glass	.97	96	.375" Clear tempered glass	.99

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

LUMENS = You provide the lumens.
XX = We will provide the wattage information.