



# SM-LED

Correctional Maximum Security **LED** Surface Mount Ceiling / Wall

## PRODUCT SPECIFICATION

The SM series is designed for ceiling surface mount cell lighting in medium, maximum and super max security detention facilities.

### Mounting

Surface mounts to ceiling or wall.

### Clamshell Housing

One piece, die-formed cold rolled steel with tapered sides, seams welded and ground smooth, 14 gauge lens retainers and a full length, welded pin piano hinge. 304 Stainless steel available.

### Door

16 gauge die-formed cold rolled steel with embossed mounting holes to create a contraband drop slot / irretrievable blade trap.

### Internal Lens

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

### Finish

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

### Hardware

Recessed, stainless steel, tamper-proof fasteners.

### 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.

### Certifications

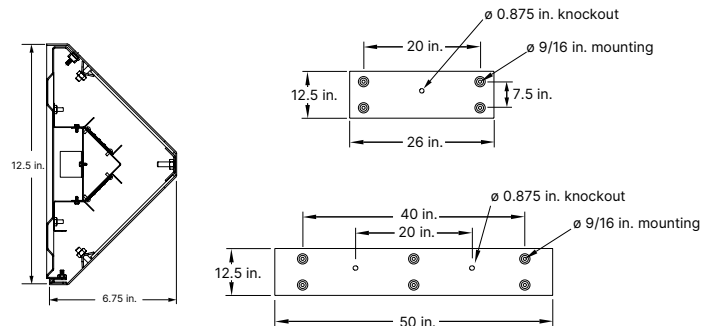
UL Listed damp or wet location.  
IP34 rated. Covered ceilings only.

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Approval \_\_\_\_\_ Date \_\_\_\_\_



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

<b>one</b>	<b>Luminaire Size</b>	<b>seven</b>	<b>Finish</b>	<b>twelve</b>	<b>Fasteners</b>
2	2 ft fixture	R	Brushed (Stainless steel only)	AP	Hardened steel allen head with pin
4	4 ft fixture	W	White	TP	Hardened steel torx head with pin
<b>two</b>	<b>LED Rows</b>	<b>eight</b>	<b>Voltage</b>	PH	Phillips head, non-security
	Refer to the LED Source Table on Page 2 for available options.	VAR	Variable, 120-277 V, 50/60Hz	<b>thirteen</b>	<b>Electrical Access</b>
<b>three</b>	<b>Color Temperature</b>	347	347VAC, 60Hz	A	2.250 in. diameter access hole
30	3000K	<b>nine</b>	<b>Driver</b>	K	0.875 in. diameter knockout(s), <u>standard</u>
35	3500K	DM	0-10Vdc Dimming, <u>standard</u>	<b>fourteen</b>	<b>UL Listing</b>
40	4000K	<b>ten</b>	<b>Internal Lens</b>	D	Damp Location
50	5000K	122	Optic Plus LED diffusing acrylic, <u>standard</u>	W	Wet Location
<b>four</b>	<b>CRI</b>	130	.125 in. LED diffusing Lexan	<b>fifteen</b>	<b>Options</b>
80	80 CRI	53	.125 in. K12 prismatic acrylic	SO	Specified output*
90	90 CRI	12	.125 in. K12 prismatic polycarbonate	2C	Two-circuit wired
<b>five</b>	<b>Housing Gauge</b>	15	.156 in. K12 prismatic polycarbonate	CU	Canadian UL Listing
N	18 gauge, minimum security	16	.187 in. K12 prismatic polycarbonate	EM	Emergency battery backup
D	16 gauge, medium security	<b>eleven</b>	<b>External Lens</b>	FH	Fuse and holder
X	14 gauge, maximum security	30	.187 in. clear polycarbonate	NL-LED	Night light, LED (Amber available) 5-100% Adjustability
U	12 gauge, super max, <u>CRS only</u>	32	.250 in. clear polycarbonate	IMS	Integral Occ Sensor
<b>six</b>	<b>Housing Material</b>	36	.375 in. clear polycarbonate	PS	Security push on/off switch
C	Cold rolled steel	38	.500 in. clear polycarbonate	SBP	Stainless steel backplate
S	Stainless steel	90	.187 in. clear tempered glass		
		92	.250 in. clear tempered glass		
		96	.375 in. clear tempered glass		

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

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	
<b>2' Fixture</b>									
<b>2W16</b>	1507	102	1548	105	1595	108	1595	108	14.8
<b>2W27</b>	2613	100	2684	103	2766	106	2766	106	26.1
<b>2W39</b>	3672	98	3772	100	3886	104	3886	104	37.5
<b>2W53</b>	5012	95	5148	97	5304	100	5304	100	53.0
<b>4' Fixture</b>									
<b>2W29</b>	2779	108	2854	111	2941	114	2941	114	25.8
<b>2W42</b>	3965	107	4073	110	4196	113	4196	113	37.0
<b>2W58</b>	5507	106	5657	109	5828	112	5828	112	52.1
<b>2W74</b>	7006	104	7196	107	7414	110	7414	110	67.4
<b>2W85</b>	8101	103	8321	105	8573	109	8573	109	78.9
<b>2W112</b>	10563	100	10850	102	11179	105	11179	105	106.1

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		
53	.125 in. K12 prismatic acrylic	1.00	30	.187" Clear polycarbonate	1.02
12	.125 in K12 prismatic polycarbonate	.98	<b>32</b>	<b>.250" Clear Polycarbonate</b>	<b>1.00</b>
15	.156 in. K12 prismatic polycarbonate	.97	36	.375" Clear polycarbonate	.96
16	.187 in. K12 prismatic polycarbonate	.95	38	.500" Clear polycarbonate	.92
<b>122</b>	<b>Optic Plus diffusing acrylic</b>	<b>1.00</b>	90	.187" Clear tempered glass	1.04
<b>90 CRI Multiplier</b>		<b>.83</b>	92	.250" Clear tempered glass	1.03
			96	.375" Clear tempered glass	.99

**Example Model:**

SM2-**2W16/2W39**-40/80-DCW-VARDM-122/32-TPKD-2C

**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:**

SM2-**XX/XX**'SO-40/80-DCW-VARDM-122/32-TPKD-(**XX<sup>2</sup>/LUMENS**)

**LUMENS** = You provide the lumens.

**XX<sup>1</sup>** = We will determine the number of rows.

**XX<sup>2</sup>** = We will provide the wattage information.