



# SONAR 12

Vandal Resistant

SPC 12 Series LED

Fixture Type

Date

Job Name

Approved By

Catalog Number

## SPECIFICATIONS

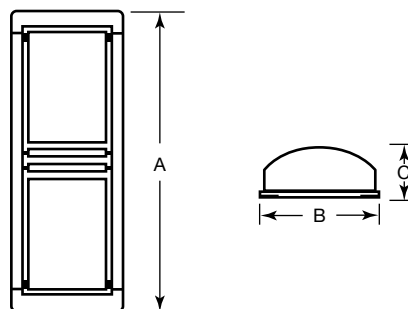
ADA Compliant



<b>Description</b>	The Sonar 12 series features nearly unlimited architectural flexibility while maintaining maximum vandal resistance. A wide variety of grill configurations, colors and lengths are available which can be combined in nearly unlimited ways. Furthermore, the all aluminum body construction and optional wet location listing allow the Sonar 12 series to be used in many environmental conditions. Natatorium finish is standard for all versions of this fixture.
<b>Housing</b>	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
<b>Grill</b>	Marine grade die cast aluminum finished with polyester powder coat and secured to housing with tamper resistant stainless steel machine screws.
<b>Lens</b>	Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
<b>End Caps</b>	Die-cast marine grade aluminum with conduit knockouts that are visible from interior of end cap.
<b>Drivers</b>	Constant current driver at 700mA, 120-277V. 347V optional.
<b>LED</b>	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L <sub>70</sub> projected life of over 130,000 hours at 50°C. Ten year warranty on LED boards against operational defects. Tested in accordance with LM-80.
<b>Listings</b>	U.L., C.U.L., Damp Standard, Wet optional.
<b>Lifetime Warranty</b>	Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

## DIMENSIONAL DATA

	A	B	C
SPC1212	12.36	12.40	4.00
SPC1218	18.36	12.40	4.00
SPC1224	27.62	12.40	4.00
SPC1234	37.72	12.40	4.00
SPC1246	49.72	12.40	4.00



## ORDERING INFORMATION

SERIES	LED	GRILL	CCT	VOLTS	DRIVER	LENS	COLOR	OPTIONS		TX/SD
										TX/SD
SPC12 12"	20W	NB	2700K	120-277	CC	CP	BLK	DIM	PNDKT	
	25W	2CR	3000K	347	DIM	OP	WHT	PC	DRPCP	
	40W	3CR	3500K		PRD		BRZ	GLR	EMB310	
SPC12 18"	20W	2OF	4000K				GRY	WET	EMB310ST	
	25W	3OF	5000K				SIL	2B	EMB722	
	40W	4OF					CUST	NSF	EMB722C	
SPC12 24"	40W	6OF						COR	EMB125R	
	50W	6.2OF						JB	EMB250R	
	80W	9OF						PS	EMB375R	
SPC12 34"	60W	CUS						OCC	ST/SC	
	80W							OCC50		
	125W							OCCFA		
SPC12 46"	50W							OCCBT		
	80W									
	100W									
	160W									
	Specify Watts or Lumens Above	When specifying Watts or Lumens you are required to select PRD Driver								

CC = Constant Current (Standard)  
 DIM = 0-10V Dimming, 10% at lowest level  
 PRD = Programmable driver. Specify Lumens or Watts. Consult factory.



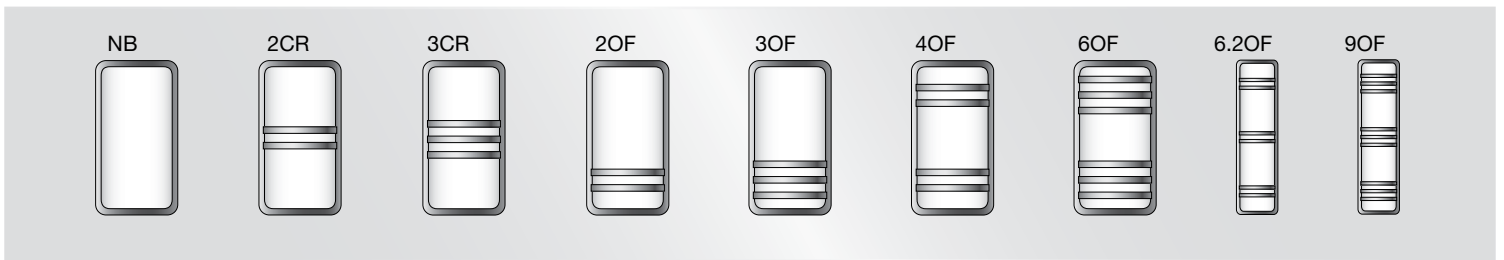
## OPTIONS

LENS	CP = Clear Prismatic Standard	OP = Opal Optional				
COLORS	BLK = Black	WHT = White	BRZ = Bronze	GRY = Gray	SIL = Silver	CUST = Custom Color (Consult Factory)
*PRD	Programmable driver. When ordering, must specify Watts or Lumens. Consult factory for availability.					
DIM	0-10V dimming driver. 10% at lowest level. Consult factory for availability in select models.					
PC	Photoelectric switch.					
GLR	Fuse and fuse holder.					
WET	Silicone and neoprene gasketing for wet location. Surface mount only.					
2B	(2) LED drivers for independent LED board operation.					
NSF	National Sanitation Foundation rated. White finish only.					
COR	Corner mounted back box. Constructed from 16 gauge cold rolled zinc coated steel. Finished with white powder coat. Damp only.					
JB	Die cast joiner band for continuous row mount. Consult factory for row information.					
PS	Painted screws to match luminaire finish.					
OCC	Microwave occupancy sensor mounted behind the lens. Consult factory for availability in select models.					
OCC50	Microwave occupancy sensor mounted behind the lens. 50% of LED's constantly on and 50% sensed.					
OCCFA	Microwave occupancy sensor mounted behind the lens. All LED boards sensed to dim to 50%, 30%, 20%, or 10% field selectable low levels. Factory Standard preset of 50% dimming level and 20 minute time out.					
OCCBT	Bluetooth connected microwave occupancy sensor mounted behind the lens. All LED board sensed to dim to 50%, 30%, 20%, or 10%, field selectable low levels. Consult factory for availability in select models.					
PNDKT	Rigid stem pendant kit. Specify length. Consult factory for availability.					
DRPCP	Aluminum drip cap finished with white polyester powder coat to provide wet location listing when pendant mounted.					
EMB310	1200 lumen self-contained 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Not available for 12" or 18" lengths. Not available in 347V. Meets CA Title 20 Standards.					
EMB310ST	1000 lumen self-testing, self-contained, 90 minute emergency battery pack. Not available for 12" or 18" lengths. 0°C (32°F) to 55°C (131°F). Not available in 347V. Meets CA Title 20 Standards.					
EMB722	2600 lumen self contained 90 minute emergency battery pack for 25W minimum operation. -20°C (-4°F) to 60°C (140°F). Not available for 12" and 18" lengths. Not available in 347V.					
EMB722C	Cold weather, 2600 lumen self contained 90 minute emergency battery pack for 25W minimum operation. -20°C (-4°F) to 60°C (140°F). Not available for 12" and 18" lengths. Not available in 347V.					
EMB125R	Remote mounted inverter that will operate a 125W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F). Not available in 347V.					
EMB250R	Stand-alone inverter that will operate a 250W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F). Not available in 347V.					
EMB375R	Stand-alone inverter that will operate a 375W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F). Not available in 347V.					
ST/SC	Phillips head screws instead of TORX® head.					
TX/SD	TORX® head bit.					

## PHOTOMETRIC DATA

Model	Watts	Input Watts	Delivered Lumens		Delivered Lumens		Delivered Lumens		Delivered Lumens		Delivered Lumens	
			Clear	Opal	Clear	Opal	Clear	Opal	Clear	Opal	Clear	Opal
			2700K		3000K		3500K		4000K		5000K	
SPC1212	20W	20.0	1733	1606	1751	1622	1787	1657	1844	1709	1899	1759
SPC1212	25W	27.0	2283	2116	2307	2137	2355	2183	2429	2251	2501	2318
SPC1212	40W	41.0	3466	3212	3502	3245	3576	3315	3687	3417	3797	3519
SPC1218	20W	20.5	2000	1854	2021	1873	2063	1912	2128	1972	2191	2030
SPC1218	25W	27.3	2663	2468	2692	2496	2748	2547	2833	2625	2917	2703
SPC1218	40W	41.0	3999	3707	3835	3554	3914	3628	4255	3944	4383	4062
SPC1224	40W	41.0	3999	3707	3835	3554	3914	3628	4255	3944	4383	4062
SPC1224	50W	54.7	5335	4945	5117	4743	5222	4841	5676	5262	5846	5419
SPC1224	80W	82.0	7999	7414	7672	7111	7829	7257	8510	7888	8765	8125
SPC1234	60W	61.5	5999	5561	5754	5334	5872	5443	6383	5916	6574	6093
SPC1234	80W	82.0	7999	7414	7672	7111	7829	7257	8510	7888	8765	8125
SPC1234	125W	123.0	11999	11123	11508	10668	11744	10886	12766	11834	13148	12188
SPC1234	50W	54.7	5335	4945	5117	4743	5221	4840	5676	5261	5846	5419
SPC1246	80W	82.0	7999	7414	7672	7111	7829	7257	8510	7888	8765	8125
SPC1246	100W	109.0	10632	9856	10198	9453	10407	9647	11312	10486	11651	10800
SPC1246	160W	164.0	15997	9856	15344	14223	15657	14513	17019	15776	17528	16249

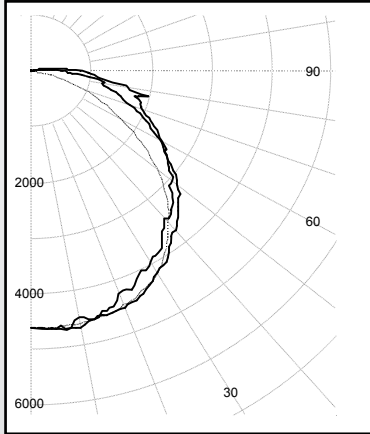
## GRILL DETAILS



## PHOTOMETRIC DATA

### MODEL VPF124-160W-4000K CP

Delivered Lumens: 15,758 Lumens



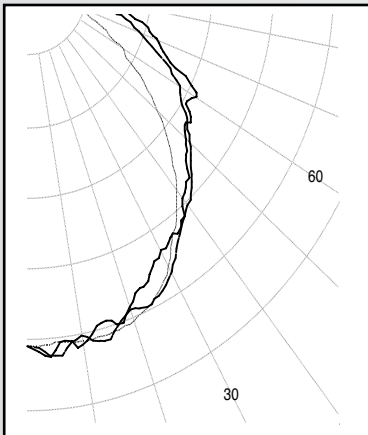
Total Power: 164.0W

Testing was performed in accordance with IES LM-79-08

Zone	Lumens	% Lamps
0 - 30	3725	23.6
0 - 40	6163	39.1
0 - 60	11126	70.6
60 - 90	4141	26.3
0 - 90	15267	93.9
90 -180	491	3.1
0 - 180	15758	100.0

### MODEL FFW1212-40W-4000K OP

Delivered Lumens: 3,414 Lumens

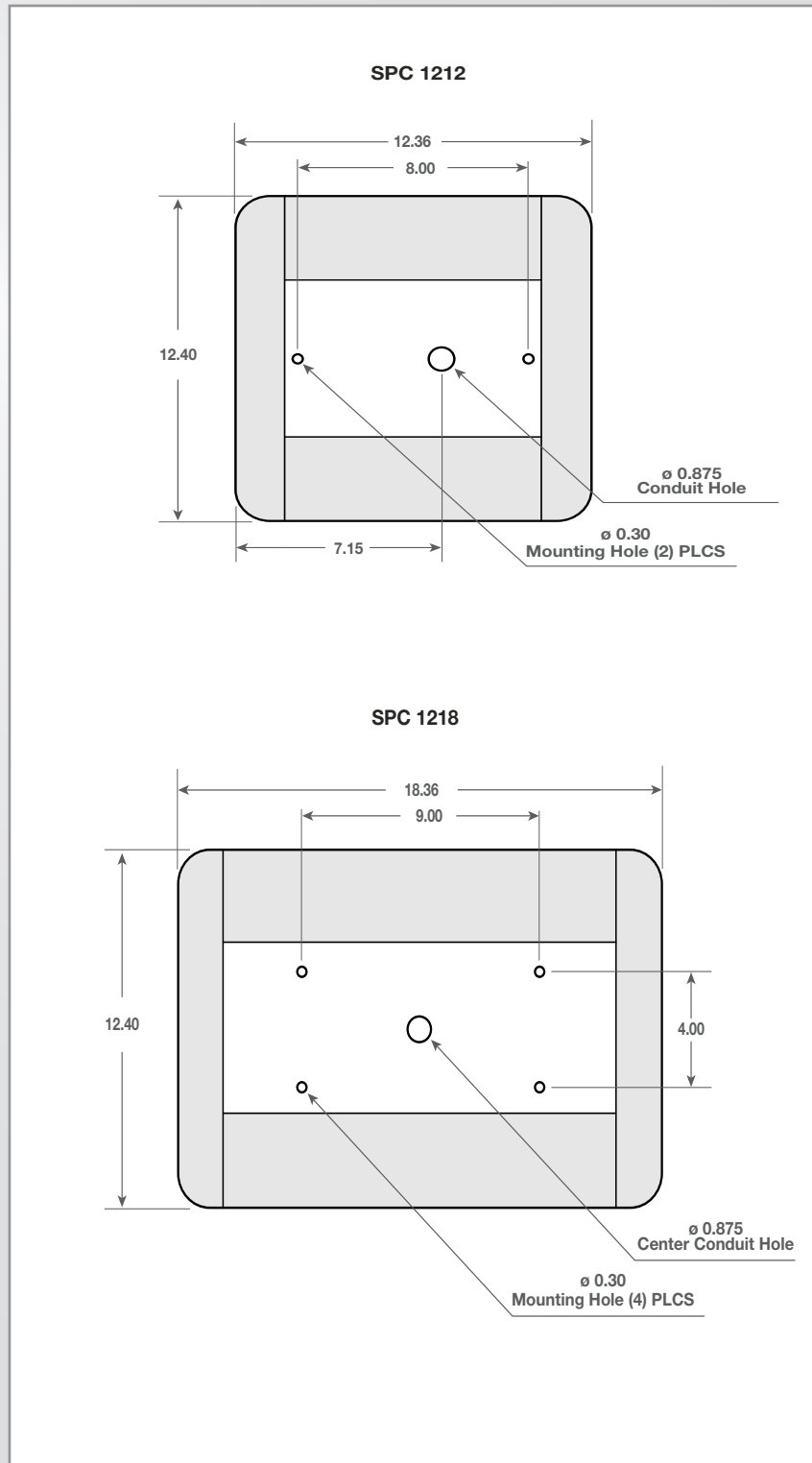


Total Power: 40.68W

Testing was performed in accordance with IES LM-79-08

Zone	Lumens	% Lamps
0 - 30	825	24.1
0 - 40	1359	39.8
0 - 60	2445	71.6
60 - 90	3312	25.4
0 - 90	866	97.0
90 -180	103	3.0
0 - 180	3414	100.0

## MOUNTING PLATE DETAILS



## MOUNTING PLATE DETAILS

