



The Simkar Salient™ High Output LED area & site luminaire utilizes high brightness LEDs and precision optics to provide superior uniformity and maximize pole spacings while using up 60% less energy and operating for 100,000 hours (L70). Designed to replace up to 1000W PSMH fixtures in area, roadway, and security lighting applications, the versatile SALHO LED area & site luminaire is available in 6 distributions, 3 color temperatures and with 6 mounting options.

With efficacy of 111 lumens per watt, the Salient High Output series is DesignLights Consortium® listed, DLC 4.0/4.1 and qualifies for utility rebates.

- Precision optics; 3 distributions
- Sleek architectural design
- 60% energy savings vs. traditional HID sources
- 100,000 hour operating life (L70)

- 10kV field replaceable surge protector
- Available in 3000K, 4000K, and 5000K (standard)
- Excellent color rendition, >70 CRI
- DesignLights Consortium® listed, DLC 4.0/4.1

HOUSING / OPTICS Heavy duty, contoured, die cast aluminum housing available in bronze powder coat finish. Utilizes extra deep linear heat dissipating fins (1.5" to 3" deep) for superior cooling and durability. Housing has KO's on top and bottom for twist lock photocell or integrated motion sensor with built in photocell. Tethered door secured by four Allen head screws provides quick access to wiring compartment. Separate optical and electrical compartments for cooler operation and maximum system life. LED modules are enclosed via gasketed, UV-stabilized polycarbonate precision lenses, available in NEMA Type III, IV, and V distributions. Available with factory-installed optional backlight shielding for 85% backlight reduction. The full cut-off SALHO series produces no uplight and is Dark Sky friendly.

LEDs SALHO area luminaire utilizes 84 high power CREE XPL LEDs on conformal coated metal core boards. LEDs are 5-step binned for color consistency. SALHO is available in one size and light level (delivered): SALHO2XL: 50,618 lumens (465W), >70 CRI. 5000K (standard); consult factory for 3000K and 4000K, lead times may apply. Operating life is 100,000 hours (L70). LEDs are LM-80 tested.

ELECTRICAL Power supplies are 120-277V (U1) or 347-480V (U3), 0-10V dimmable. Power factor is >0.9. 465W fixture uses 3.33A power supply. Power supplies are mounted in direct contact with aluminum housing for cooler operation and longer life. 6kV integral surge protection and additional 10kV inline field-replaceable surge protector (included).

TEMPERATURE The SALHO Series is suitable for use in operating temperatures from -31°F (-35°C) to 104°F (40°C).

ACCESS / WIRING Power supply is located in a separate compartment accessed via (4) captive 1/8" Allen head screws. Top and bottom KO's provided for optional twist-lock photocell and multi-level motion sensors with built-in photocell.

MOUNTING Multiple mounting accessories are available for the SALHO for pole mounting. Mounting accessories are sold separately. The recommended mounting height for the SALHO2XL is 35 ft to 60 ft. with wider pole spacings of up to 8.5 times mounting height. The EPA for the SALHO2XL is 1.22 sq. ft. when used in horizontal area light orientation with the square pole mount accessory. The EPA is 4.66 sq. ft. when used in the floodlight orientation with the adjustable slip fitter. The SALHO2XL weighs 48 lbs.

LISTINGS C-UL-US Listed wet location. 3G vibration rated for ANSI C136.31 high vibration applications. DesignLights Consortium® qualified DLC4.0/4.1. Title 24 compliant configurations available; contact factory. IP 65 rated.

WARRANTY 5 year limited warranty.

Project

Catalog Number

Type

Date

SALHO2XL



Salient™ High Output LED Area & Site Luminaires Configuration

SERIES	SIZE/LUMENS*	DISTRIBUTION	COLOR TEMP	VOLTAGE	OPTIONS	ACCESSORIES
SALHO	2XL = 37" Extra Large (51,600 lumens, 465W)	3 = Type III 4S = Type IV short 5S = Type V short	30 = 3000K** 40 = 4000K** 50 = 5000K (standard)	U1 = universal 120-277V U3 = universal 347-480V	(x)(y)P = Twist and Lock Photocell; designate voltage: 1 = 120V, 2 = 277V, 5 = 480V 5 = Twist lock receptacle, 5 pin*** 7 = Twist lock receptacle, 7 pin*** OS = Motion sensor / integrated photocell SALHOBLS = Back light shielding	AFSALHO = Adjustable slip fitter, bronze RP3SALHO = 3" Round pole mounting arm, bronze RP4SALHO = 4" Round pole mounting arm, bronze RP5SALHO = 5" Round pole mounting arm, bronze SPSALHO = Square pole (3", 4", and 5") mounting arm, bronze TASALHO = Horizontal tenon mount 2" IP, 2.375" OD, bronze

Please refer to Designlights Consortium® website for specific configuration listings.

*See performance table for actual performance

**Contact factory for lead times

***Twist lock photocell is standard with 3 pin receptacle unless otherwise specified. Photocell not included unless ordered

Option (x)(y)P: (x) = voltage selection and (y) = receptacle pin selection

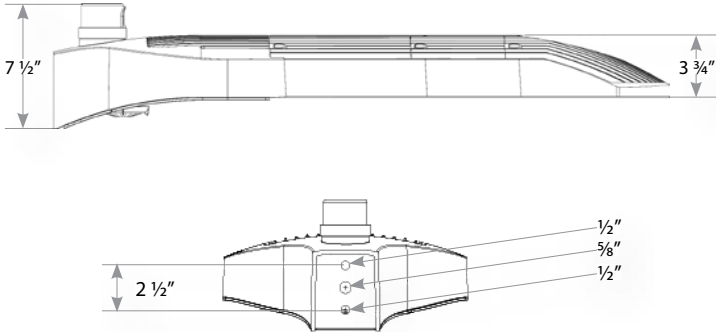
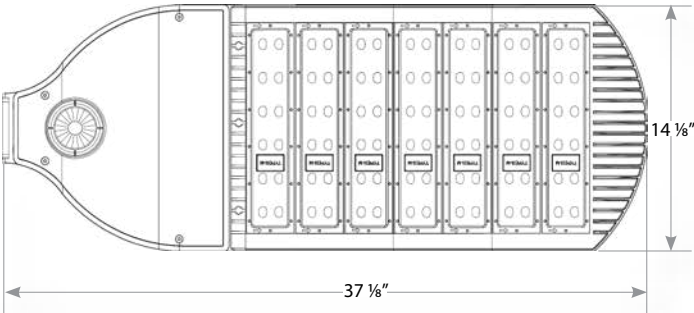
Performance Data

Model	Distribution	Light Output	Input Power	Efficacy	Drive Current	BUG Rating	Color Temperature	Operating Life (L70)	Operation Temperature	HID Equivalent
SALH02XL350U1	TYPE III	51,072 lumens	466 W	109.59 Lpw	3330mA	B5-U0-G5	5000K	100,000 hrs	-31°F (-35°C) to 104°F (40°C)	1000W PSMH
SALH02XL4S50U1	TYPE IV short	50,618 lumens	465.6 W	108.72 Lpw						
SALH02XL5S50U1	TYPE V short	51,792 lumens	463.4 W	111.78 Lpw						

* Delivered lumens
** Consult a lighting engineer to meet specific requirements

Dimensions

SALH02XL (shown with optional twist lock photocell & motion sensor with built-in



Mounting Accessories



SPSALHO
Square pole arm for 3", 4", and 5" square poles
Bronze finish



RP3SALHO / RP4SALHO / RP5SALHO
Round pole arm for 3", 4" and 5" round poles
Bronze finish

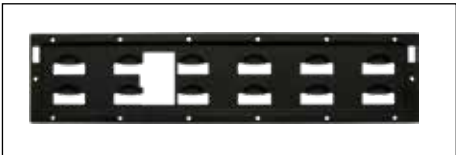


AFSALHO
Adjustable slip fitter
Bronze finish



TASALHO
Horizontal tenon mount, 2" IP, 2.375" OD
Bronze finish

Options (factory installed)

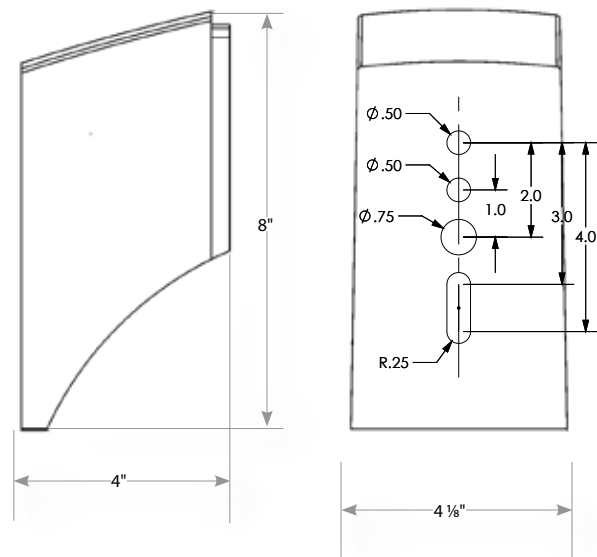


SALHOBLS
Steel Back Light Shielding
Black finish

Dimensions for Mounting Accessories

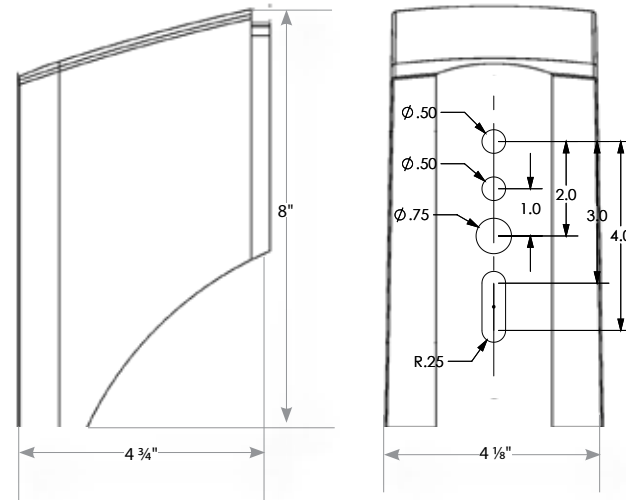
SPSALH0

Square pole arm for 3", 4", and 5" square poles



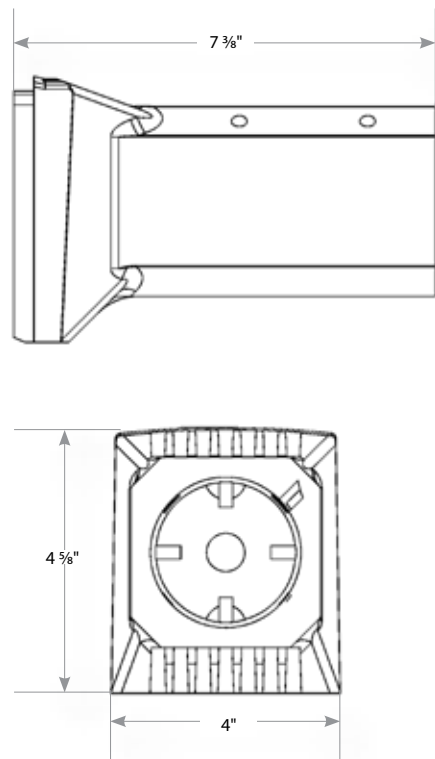
RP3SALH0, RP4SALH0, RP5SALH0

3", 4", 5" Round pole arms



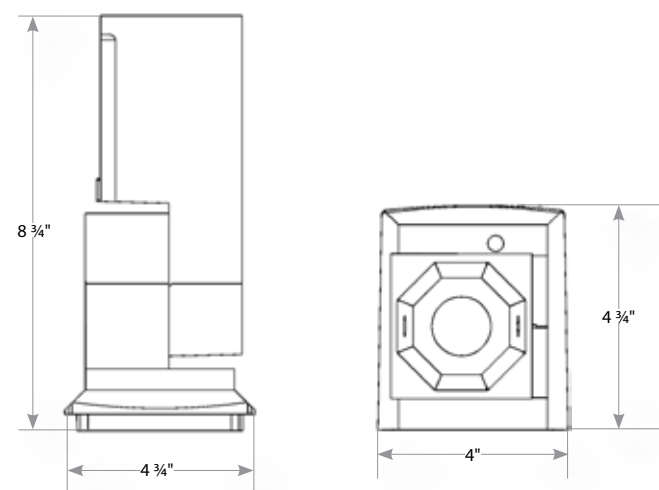
TASALH0

Horizontal tenon mount

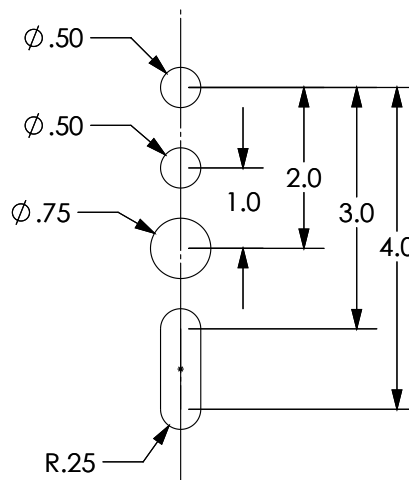


AFSALH0

Adjustable slip fitter



MOUNTING PATTERN

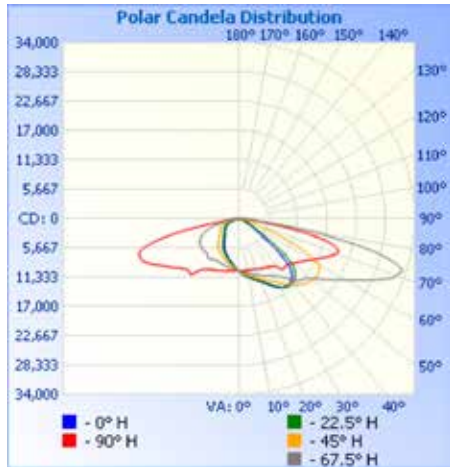


Photometric Data

Luminaire Data SALHO 2XL 465W 5000K | Type III

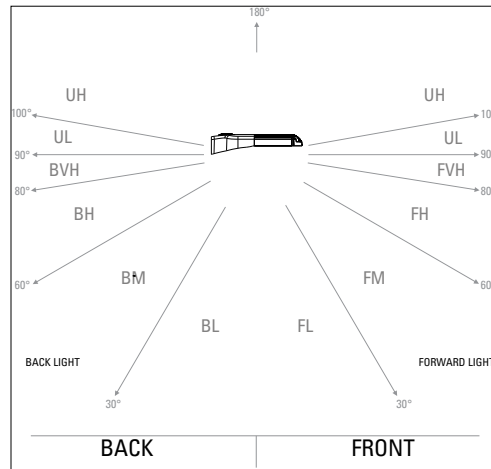
Catalog Number	SALHO2XL350U1
Lab Test#	GZE170160-6-N
(#) Power Supply	1 constant current 3.33A
# LEDs	84 high power LEDs
Color Temperature	5000K
Input Watts	466W
Delivered Lumens	51,072
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	109.59 Lpw

Polar Plot



IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

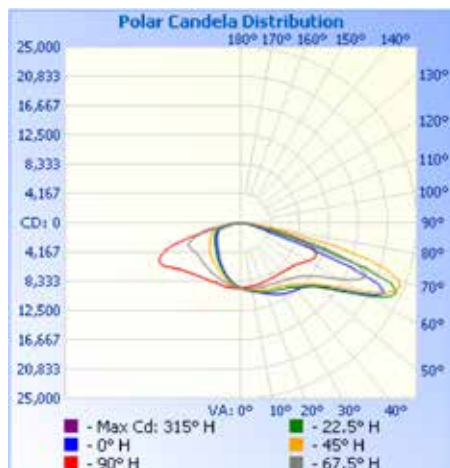
SALHO2XL350U1		
Luminaire Classification System	Lumens	Luminaire %
FL (0-30 Degrees)	5,235.9	10.3
FM (30-60 Degrees)	17,532	34.3
FH (60-80 Degrees)	11,198	21.9
FVH (80-90 Degrees)	589.45	1.2
BL (0-30 Degrees)	3,535.1	6.9
BM (30-60 Degrees)	7,675.4	15.0
BH (60-80 Degrees)	5,000.4	9.8
BVH (80-90 Degrees)	306.31	0.6
UL (90-100 Degrees)	0	0
UH (100-180 Degrees)	0	0
Total	51,072	100%
BUG Rating	B5 U0 G5	



Luminaire Data SALHO 2XL 465W 5000K | Type IV short

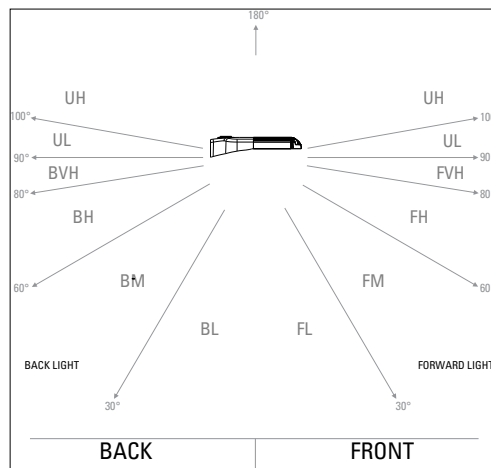
Catalog Number	SALHO2XL4S50U1
Lab Test#	GZE170119-4-G
(#) Power Supply	1 constant current 3.33A
# LEDs	84 high power LEDs
Color Temperature	5000K
Input Watts	465.6W
Delivered Lumens	50,618
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	108.72 Lpw

Polar Plot



IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

SALHO2XL4S50U1		
Luminaire Classification System	Lumens	Luminaire %
FL (0-30 Degrees)	4,253.8	8.4
FM (30-60 Degrees)	15,135	29.9
FH (60-80 Degrees)	14,526	28.7
FVH (80-90 Degrees)	389.95	0.8
BL (0-30 Degrees)	3,332.6	6.6
BM (30-60 Degrees)	7,341.2	14.5
BH (60-80 Degrees)	5,196.8	10.3
BVH (80-90 Degrees)	441.33	0.9
UL (90-100 Degrees)	0	0
UH (100-180 Degrees)	0	0
Total	50,618	100%
BUG Rating	B5 U0 G5	

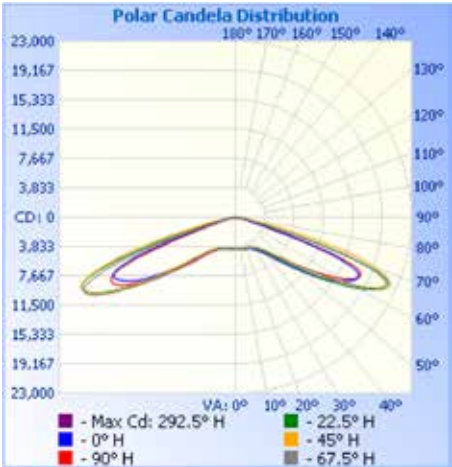


Photometric Data

Luminaire Data SALH0 2XL 465W 5000K | Type V short

Catalog Number	SALH02XL5S50U1
Lab Test#	GZE161208-1-A
(#) Power Supply	1 constant current 3.33A
# LEDs	84 high power LEDs
Color Temperature	5000K
Input Watts	463.4W
Delivered Lumens	51,792
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	111.78 Lpw

Polar Plot



IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

SALH02XL5S50U1		
Luminaire Classification System	Lumens	Luminaire %
FL (0-30 Degrees)	1,849.6	3.6
FM (30-60 Degrees)	11,223	21.7
FH (60-80 Degrees)	12,788	24.7
FVH (80-90 Degrees)	265.73	0.5
BL (0-30 Degrees)	1,829.1	3.5
BM (30-60 Degrees)	10,904	21.1
BH (60-80 Degrees)	12,698	24.5
BVH (80-90 Degrees)	234.84	0.5
UL (90-100 Degrees)	0	0
UH (100-180 Degrees)	0	0
Total	51,792	100%
BUG Rating	B5 U0 G5	

