

ASW-80G1

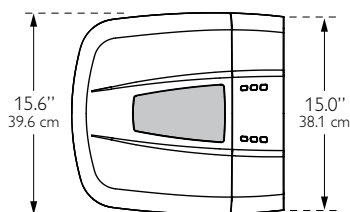
AeroScape LED Large Housing Wall and Surface Mount Series

Type:	Job:								Approvals:	
Catalog Number:										
<div>ASW - - - NW - - - -</div>										
Series	# of LEDs	Driver	LED Color	Distribution	Voltage	Mounting	Options	Finish	Accessories	Date: Page 1 of 6

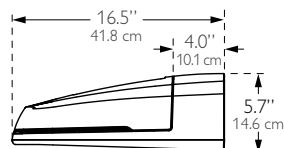
Overall Dimensions

Large Housing Dimensions

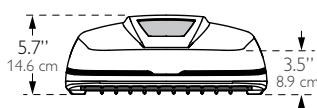
Top View



Side View



End View



Weight: 16.8 lbs 7.6 kgs

Specifications

Rated System Life (LED life per L70)

Driver and LED life are rated up to 80,000 hrs @ 40°C (104°F).

Predicted LED Life

See page for 5 for predicted L70 LED life.

Construction

Die-cast aluminum housing with corrosion resistant hardware. Optic chamber and separate driver housing constructed to IP66.

Die-cast aluminum heatsink allows for long life of LEDs up to 40°C ambient.

Thermal Management

IP66 rated thermal management system creates a vortex of airflow with passthrough convective cooling system and heat extraction.

LED and Board Array

Large housing: 80 Rebel ES LEDs.

Color temperature: Neutral White 4000 K +/- 250 K.

CRI ≥ 60. Metal core printed circuit board. RoHS compliant.

Driver

High efficiency multi-volt driver (50 or 60 Hz), maintains constant current flow to LEDs to accommodate LED variations. High power factor (>90% standard). Constant current: 530. Voltage: 120-277, 347, 480. Temperature range: -40°C (-40°F) to 40°C (104°F). Surge protector standard. The surge protector is in accordance with IEEE / ANSI C62.41.2 guidelines, with a surge current rating of 10,000 amps.

LED Optical System

LED Pod optical assemblies. Type II, III, IV or Wall Throw distribution. Fully gasketed Dust-Tite construction.

Employs Philips LEDGINE technology and Luxeon R LEDs.

Mounting

Surface mount standard. Contractor friendly integral bubble mount for ease of installation. Can be mounted in an inverted position for uplight illumination. Contractor responsible for sealing housing to mounting surface.

Finish

Standard textured finish options available.

TSA = textured satin aluminium, TDB = textured dark bronze, TBK = textured black, TWHT = textured white, TGR = textured gray, TPG = textured Philips gray, TGN = textured green, and RAL(*) = custom color (* = specify RAL #).

Listings

ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations. Suitable for use in ambients from -40° to 40°C (-40° to 104°F). See exception in driver specifications for 700 mA units. The quality systems of this facility have been registered by UL to the ISO 9001 series standards. AeroScape wall mount series 'ASW' is a DesignLights Consortium qualified product.

Warranty

Philips Gardco luminaires feature a 5 year limited warranty. Philips Gardco LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays and LED drivers. Motion sensors are covered by warranty for 5 years by the motion sensor manufacturer.



PHILIPS



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Type:	Job:	Page 2 of 6
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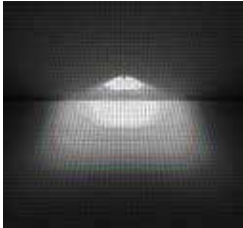
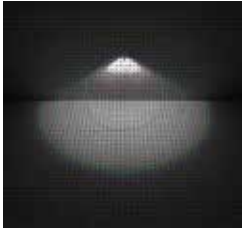
AeroScape Wall Mount Large Housing
ASW-80G1



Series	# of LEDs	Driver	LED Color	Distribution	Voltage	Mounting	Options ^{7,8}
<input checked="" type="checkbox"/> ASW	<input type="checkbox"/> 80G1 → <input type="checkbox"/> 530	<input checked="" type="checkbox"/> NW Neutral White	<input type="checkbox"/> 2L Type II <input type="checkbox"/> 3L Type III <input type="checkbox"/> 4L Type IV <input type="checkbox"/> WT Wall Throw	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 <input type="checkbox"/> UNV ¹	<input type="checkbox"/> SM Surface Mount (standard)	<input type="checkbox"/> F1 ² Single Fusing (120, 277, 347V) <input type="checkbox"/> F2 ² Double Fusing (208, 240, 480V) <input type="checkbox"/> F3 ² Double Fusing (208, 240, 480V) Canadian Double Pull <input type="checkbox"/> PCB ^{2,3} Photocontrol Button <input type="checkbox"/> SG Stone Guard <input type="checkbox"/> DL ⁴ Diffuse Lens <input type="checkbox"/> DD ⁵ Dimming Driver <input type="checkbox"/> DCP ⁶ Dynadimmer Custom Programming	<input type="checkbox"/> DS25 ⁶ <input type="checkbox"/> DS50 ⁶ <input type="checkbox"/> DS75 ⁶ Dynadimmer Safety Profile <input type="checkbox"/> DM25 ⁶ <input type="checkbox"/> DM50 ⁶ <input type="checkbox"/> DM75 ⁶ Dynadimmer Median Profile <input type="checkbox"/> DE25 ⁶ <input type="checkbox"/> DE50 ⁶ <input type="checkbox"/> DE75 ⁶ Dynadimmer Economy Profile

Notes:

- 1) 'UNV' universal voltage, 120-277V.
- 2) Specify voltage. Fusing and photocontrols not available with 'UNV' voltage option.
- 3) 'PCB' option not available in 480V.
- 4) Luminaire efficiency will decrease from 0 to 10% depending on the spread of the optics.
- 5) 0-10V leads exiting luminaire supplied for connection to external secondary controls (by others).
- 6) Dynadimmer options and accessories are only available in 120-277V. Includes Dimming Driver ('DD') option.
- 7) ASW is compatible with a wide range of occupancy sensors, wireless controls and asset management systems (by others). Contact factory.
- 8) An emergency egress option is available. See spec sheet number WLSP0397.

Finish	Accessories (must be ordered separately)	Distribution Patterns
<input type="checkbox"/> TSA Textured Satin Aluminum <input type="checkbox"/> TDB Textured Dark Bronze <input type="checkbox"/> TBK Textured Black <input type="checkbox"/> TWHT Textured White <input type="checkbox"/> TGR Textured Gray <input type="checkbox"/> TGN Textured Green <input type="checkbox"/> TPG Textured Philips Gray <input type="checkbox"/> RAL(*) Custom Color (*specify RAL #)	<input type="checkbox"/> F1-KIT ² Single Fusing Field Installed Kit (120, 277, 347V) <input type="checkbox"/> F2-KIT ² Double Fusing Field Installed Kit (208, 240, 480V) <input type="checkbox"/> F3-KIT ² Double Fusing Field Installed Kit (208, 240, 480V) Canadian Double Pull <input type="checkbox"/> DYN-KIT1 Dynadimmer USB Cable Kit (for field programming) <input type="checkbox"/> DYN-KIT2 Dynadimmer Handheld Programmer Kit (for field programming)	 Type II (2L)  Type III (3L)  Type IV (4L)  Wall Throw (WT)

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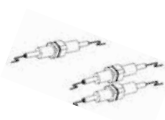
Type:	Job:	Page 3 of 6
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Option Details

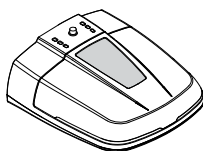
F1 Single Fusing (120, 277, 347V)

F2 Double Fusing (208, 240, 480V)

F3 Double Fusing (208, 240, 480V)
(Canadian double pull)

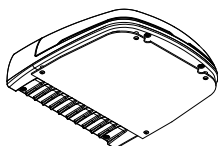


PCB Factory Installed Photocell Button
Not available with 480 V.



Note: Voltage must be specified with fusing and photocell options.

SG Stone Guard (included, field installed)



DL Diffuse Lens
Reduces glare from direct view of optics.
Luminaire efficiency will decrease from 0 to 10% depending on the spread of the optics.

Note:
An emergency egress option is available.
See spec sheet number WLSP0397.

DD Dimming Driver (0-10V)
Continuous dimming down to 10% power.
0-10V leads exiting luminaire supplied for connection to external controls (by others).

Dynadimmer Details

DCP Dynadimmer Custom Programming
The Dynadimmer programmer enables users to program the individual Dynadimmer either on or off-site. For factory programming, submittals required to set profile. For field programming, DYN-KIT1 or DYN-KIT2 required.

Dynadimmer - Safety Profile¹

This mode focuses on safety by dimming during a limited period of time. Decreases light levels to 25, 50, or 75% low during a four hour period.²

DS25 25% Low **DS50** 50% Low **DS75** 75% Low

Dynadimmer - Median Profile¹

This mode provides an ideal balance between illumination and energy savings. Decreases light levels to 25, 50, or 75% low during a six hour period.²

DM25 25% Low **DM50** 50% Low **DM75** 75% Low

Dynadimmer - Economy Profile¹

This mode maximizes energy savings by dimming during a longer period of time. Decreases light levels to 25, 50, or 75% low during an eight hour period.²

DE25 25% Low **DE50** 50% Low **DE75** 75% Low

1) Dynadimmer not available in 347 or 480 V.

2) Can be modified later by the end-user with optional USB cable and free programming software.

Accessory Details

F1-KIT Single Fusing Field Installed Kit (120, 277, 347V)

F2-KIT Double Fusing Field Installed Kit (208, 240, 480V)

F3-KIT Double Fusing Field Installed Kit (208, 240, 480V)
(Canadian double pull)

DYN-KIT1 Dynadimmer USB Cable Kit (for field programming)



The USB programming cable is used to directly link and program Dynadimmer 0-10V from a PC. When using this cable, no programmer tool is needed. Dynadimmer software has a special button to activate the USB feature. Software available for free download at www.philips.com/luminares.com. **Cable only.**

DYN-KIT2 Dynadimmer Handheld Programmer Kit (for field programming)



The Dynadimmer programmer enables users to program the individual Dynadimmer either on or off-site. Powered by 4 AA or LR6 batteries.
Handheld programmer with cables.

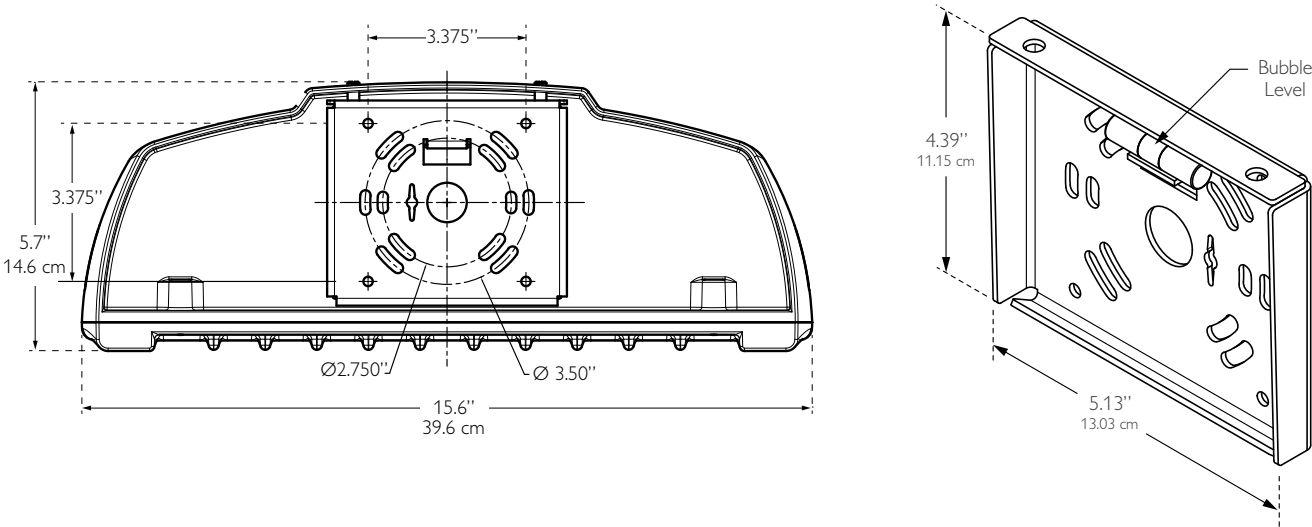
ASW-80G1

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Type:	Job:	Page 4 of 6
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Standard Wall Mount Details

Wall Mount Drill Template



Photometric Data - ASW-80G1

Cat No.	Optic (distribution)	System Wattage	Fixture Lumens	Efficacy	B (backlight)	U (uplight)	G (glare)	CCT	IES File #
ASW-80G1-530	Type II (2L)*	128	13,103	102	3	0	3	4000 K +/- 250 K	ASW-80G1-530-2L.IES
	Type III (3L)	126	13,802	110	3	0	3	4000 K +/- 250 K	ASW-80G1-530-3L.IES
	Type IV (4L)	126	13,331	106	3	0	3	4000 K +/- 250 K	ASW-80G1-530-4L.IES
	Wide Throw (WT) (Type II)	126	14,430	115	4	0	0	4000 K +/- 250 K	ASW-80G1-530-WT.IES

* LM-79 test report data was generated by a 3rd party independent lab - Luminaire Testing Laboratory (LTL).

Backlight - refers to light directed opposite the target area, which may create light trespass. Backlight is commonly behind the luminaire.

Uplight - is illumination directed above the horizontal plane of the luminaire (90°) which causes artificial sky glow.

Glare - is the amount of light from the luminaire emitted in directions or at angles that cause glare, which can be annoying or visually disabling.

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Type:	Job:	Page 5 of 6
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LED Lumen Maintenance Data - ASW-80G1

		ASW-80G1 @ 530 mA							
Outdoor Ambient Temp (°C) ¹		5	10	15	20	25	30	35	40
Junction Temperature ²		48	53	58	63	68	73	78	83
Thermal Factor ³		1.04	1.03	1.02	1.01	1	0.99	0.98	0.97
Predicted Life Hours of operation / Years based on 10 hrs/day burn cycle	0	1.04	1.03	1.02	1.01	1	0.99	0.98	0.97
	8,000 / 2.2	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96
	16,000 / 4.4	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95
	24,000 / 6.6	1.02	1.01	0.99	0.98	0.97	0.96	0.94	0.93
	32,000 / 8.8	1.01	1.00	0.98	0.97	0.96	0.94	0.93	0.92
	40,000 / 11.0	1.00	0.99	0.97	0.96	0.95	0.93	0.92	0.90
	48,000 / 13.2	0.99	0.98	0.96	0.95	0.94	0.92	0.90	0.89
	56,000 / 15.3	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.87
	64,000 / 17.5	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.85
	72,000 / 19.7	0.96	0.95	0.93	0.92	0.90	0.88	0.85	0.83
	80,000 / 21.9	0.95	0.94	0.92	0.91	0.88	0.86	0.83	0.81
	88,000 / 24.1	0.94	0.93	0.91	0.89	0.86	0.84	0.81	0.79
	96,000 / 26.3	0.94	0.91	0.89	0.87	0.84	0.82	0.79	0.77
	104,000 / 28.5	0.92	0.89	0.87	0.85	0.82	0.80	0.77	0.74
	112,000 / 30.7	0.90	0.87	0.85	0.83	0.80	0.77	0.74	0.72
	120,000 / 32.9	0.88	0.85	0.83	0.81	0.77	0.74	0.72	0.70
	128,000 / 35.1	0.86	0.84	0.81	0.77	0.74	0.72	0.69	-
	136,000 / 37.2	0.84	0.81	0.77	0.74	0.71	0.69	-	-
	144,000 / 39.5	0.80	0.76	0.73	0.70	0.68	-	-	-
	152,000 / 41.6	0.75	0.72	0.69	-	-	-	-	-
	160,000 / 43.8	0.70	0.67	-	-	-	-	-	-

Notes:

1. **Outdoor ambient temperature** is based on annual average operating air temperature as seen by the fixture within its environmental conditions.
2. **Junction temperature** is calculated from in-situ, solder point measurement per LED manufacturers recommendation, and will vary based on drive current and nominal forward voltage of the LED.
3. **Thermal factor** is a prorate or derate value based on the in-situ solder point measurement and the relative luminous flux provided by the LED manufacturer.
4. **LED Lumen Maintenance Data chart** is actual lumen adjustment per the operating ambient. No additional prorate or derate required.

Notes:



ISO 9001
Certified



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G200-129/1114

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