

# ASA-128G1 and 160G1 Series

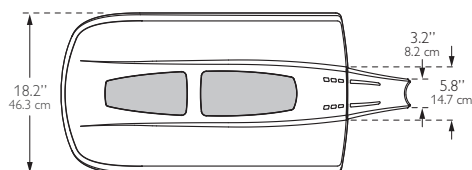
## AeroScape LED Large Housing Area and Site Series

Type:	Job:	Approvals:							
Catalog Number:									Date: Page 1 of 10
ASA	-	-	-	NW	-	-	-	-	
Series	# of LEDs	Driver	LED Color	Distribution	Voltage	Mounting	Options	Finish	Accessories

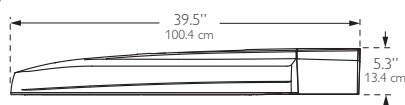
### Overall Dimensions (for reference only)

#### Straight Arm Dimensions

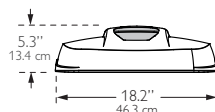
##### Top View



##### Side View



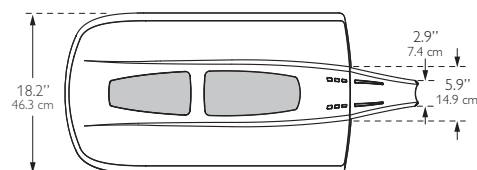
##### End View



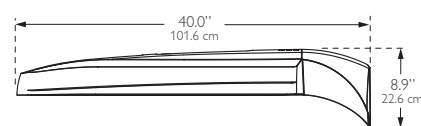
Weight: 49 lbs 22 kgs  
EPA: 0.83 sq ft

#### Upswept Arm Dimensions

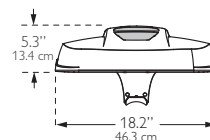
##### Top View



##### Side View



##### End View



## 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 7 for predicted L70 LED life.

### Construction

Die-cast aluminum housing with corrosion resistant hardware. ASA-128G1 and 160G1 have 32" optical opening. 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 Pod frame management system creates a vortex of airflow with passthrough convective cooling system and heat extraction.

### LED and Board Array

128 and 160 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: 350, 530 or 700 mA. Voltage: 120-277, 347, 480. Temperature range: -40°C (-40°F) to 40°C (104°F). Exception: 700 mA unit: -40°C (-40°F) to 35°C (95°F). Open/short circuit protection. RoHS compliant. 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

Factory set and field rotatable LED Pod optical assemblies. Type II, III, IV or V distribution. Meets IES Full Cutoff criteria. Fully gasketed Dust-Tite construction. Employs Philips LEDGINE technology & Luxeon R LEDs.

### Mounting

Die-cast aluminium straight or upswept arm mount for mounting to 4" to 5" O.D. round poles. Square pole adapters included. Round pole adapter accessories required for mounting to 3.0-3.9" round poles. Wall mount also available.

### 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. Optic chamber and separate driver housing constructed to IP66. AeroScape Site & Area Series 'ASA' is a DesignLights Consortium qualified product.

### Warranty

Mechanical, finish, and LED engine & components shall be covered by a limited 5 Year Warranty.



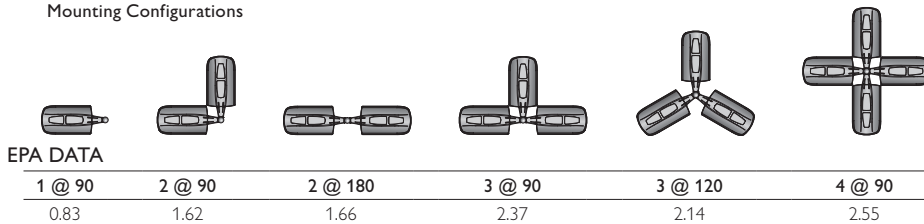
**PHILIPS**



## AeroScape LED Large Housing Area and Site Series



## Mounting Configurations



**Ordering Example:** ASA-128G1-700-NW-2L0-120-SAM-F1-TLRPC-TSA

Series	# of LEDs	Driver	LED Color	Distribution	Voltage	Mounting	Options <sup>9</sup>		
<input checked="" type="checkbox"/> <b>ASA</b>	<input type="checkbox"/> <b>128G1</b> → <input type="checkbox"/> <b>700</b>  <input type="checkbox"/> <b>160G1</b> → <input type="checkbox"/> <b>350</b> → <input type="checkbox"/> <b>530</b>	<input checked="" type="checkbox"/> <b>NW</b> Neutral White		<input type="checkbox"/> <b>2L0</b> Type II <input type="checkbox"/> <b>3L0</b> Type III <input type="checkbox"/> <b>4L0</b> Type IV <input type="checkbox"/> <b>5L</b> Type V Optics @ 0° (standard)  <input type="checkbox"/> <b>2L90</b> <input type="checkbox"/> <b>3L90</b> <input type="checkbox"/> <b>4L90</b> Optics rotated @ 90°  <input type="checkbox"/> <b>2L270</b> <input type="checkbox"/> <b>3L270</b> <input type="checkbox"/> <b>4L270</b> Optics rotated @ 270°	<input type="checkbox"/> <b>120</b> <input type="checkbox"/> <b>208</b> <input type="checkbox"/> <b>240</b> <input type="checkbox"/> <b>277</b> <input type="checkbox"/> <b>347</b> <input type="checkbox"/> <b>480</b> <input type="checkbox"/> <b>UNV'</b>	<input type="checkbox"/> <b>SAM</b> Straight Arm Mount  <input type="checkbox"/> <b>UAM</b> Upswept Arm Mount	<input type="checkbox"/> <b>F1<sup>2</sup></b> Single Fusing (120, 277, 347V)  <input type="checkbox"/> <b>F2<sup>2</sup></b> Double Fusing (208, 240, 480V)  <input type="checkbox"/> <b>F3<sup>2</sup></b> Double Fusing (208, 240, 480V) Canadian Double Pull  <input type="checkbox"/> <b>PCB<sup>2,3</sup></b> Photocontrol Button  <input type="checkbox"/> <b>TLR</b> Twist lock Photocell Receptacle  <input type="checkbox"/> <b>TLRPC<sup>2,4</sup></b> Twist lock Receptacle with Photocell	<input type="checkbox"/> <b>HSS<sup>5</sup></b> House Side Shield  <input type="checkbox"/> <b>DD<sup>6</sup></b> Dimming Driver  <input type="checkbox"/> <b>DCP</b> Dynamimmer Custom Programming	<input type="checkbox"/> <b>DS25<sup>8</sup></b>  <input type="checkbox"/> <b>DS50<sup>8</sup></b>  <input type="checkbox"/> <b>DS75<sup>8</sup></b> Dynamimmer Safety Profile  <input type="checkbox"/> <b>DM25<sup>8</sup></b>  <input type="checkbox"/> <b>DM50<sup>8</sup></b>  <input type="checkbox"/> <b>DM75<sup>8</sup></b> Dynamimmer Median Profile  <input type="checkbox"/> <b>DE25<sup>8</sup></b>  <input type="checkbox"/> <b>DE50<sup>8</sup></b>  <input type="checkbox"/> <b>DE75<sup>8</sup></b> Dynamimmer Economy Profile

Notes:

- 1) 'UNV' universal voltage, 120-277 V.
- 2) Specify voltage. Fusing and photocontrols not available with 'UNV' voltage option.
- 3) 'PCB' option not available in 480 V.
- 4) 'TLRPC' option not available in 347 or 480 V.
- 5) 'HSS' House Side Shield option and accessory are available for Type-II, Type-III, and Type-IV only.
- 6) 0-10V leads exiting luminaire arm supplied for connection to external secondary controls (by others).
- 7) 'WM-ASA' wall mount accessory available with straight arm only.
- 8) Dynamimmer options and accessories are only available in 120-277 V. Includes Dimming Driver ('DD') option.
- 9) ASA is compatible with a wide range of non-programmable and programmable occupancy sensors, wireless controls and asset management systems (by others). Contact factory.

Finish	Accessories (must be ordered separately, field installed)
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<input type="checkbox"/> <b>TSA</b>	Textured Satin Aluminum	<input type="checkbox"/> <b>F1-KIT<sup>2</sup></b>	Single Fusing Field Installed Kit (120, 277, 347V)	<input type="checkbox"/> <b>2LHSS-128</b>	2L House Side Shield for 128G1 units	<input type="checkbox"/> <b>RPTA-190-DT13</b>	Round Pole Tenon Adapters
<input type="checkbox"/> <b>TDB</b>	Textured Dark Bronze	<input type="checkbox"/> <b>F2-KIT<sup>2</sup></b>	Double Fusing Field Installed Kit (208, 240, 480V)	<input type="checkbox"/> <b>2LHSS-160</b>	2L House Side Shield for 160G1 units	<input type="checkbox"/> <b>RPTA-290-DT13</b>	
<input type="checkbox"/> <b>TBK</b>	Textured Black	<input type="checkbox"/> <b>F3-KIT<sup>2</sup></b>	Double Fusing Field Installed Kit (208, 240, 480V) Canadian Double Pull	<input type="checkbox"/> <b>3LHSS-128</b>	3L House Side Shield for 128G1 units	<input type="checkbox"/> <b>RPTA-2180-DT13</b>	
<input type="checkbox"/> <b>TWHT</b>	Textured White	<input type="checkbox"/> <b>DYN-KIT1</b>	Dynadimmer USB Cable Kit (for field programming)	<input type="checkbox"/> <b>3LHSS-160</b>	3L House Side Shield for 160G1 units	<input type="checkbox"/> <b>RPTA-3120-DT13</b>	
<input type="checkbox"/> <b>TGR</b>	Textured Gray	<input type="checkbox"/> <b>DYN-KIT2</b>	Dynadimmer Handheld Programmer Kit (for field programming)	<input type="checkbox"/> <b>4LHSS-128</b>	4L House Side Shield for 128G1 units	<input type="checkbox"/> <b>RPTA-490-DT13</b>	
<input type="checkbox"/> <b>TGN</b>	Textured Green	<input type="checkbox"/> <b>SG-ASA2</b>	Stone Guard	<input type="checkbox"/> <b>4LHSS-160</b>	4L House Side Shield for 160G1 units		Square Pole Tenon Adapters
<input type="checkbox"/> <b>TPG</b>	Textured Philips Gray	<input type="checkbox"/> <b>WM-ASA<sup>7</sup></b>	Wall Mount			<input type="checkbox"/> <b>SPTA-190-DT13</b>	
<input type="checkbox"/> <b>RAL(*)</b>	Custom Color (*specify RAL #)	<input type="checkbox"/> <b>RPA339-ASA</b>	Round Pole Adapter (required for 3.0-3.9" pole)			<input type="checkbox"/> <b>SPTA-290-DT13</b>	
						<input type="checkbox"/> <b>SPTA-2180-DT13</b>	
						<input type="checkbox"/> <b>SPTA-390-DT13</b>	
						<input type="checkbox"/> <b>SPTA-490-DT13</b>	

# ASA-128G1 and 160G1 Series

## AeroScape LED Large Housing Area and Site Series

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### Option Details

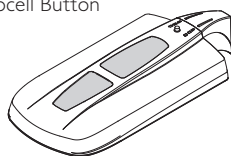
**F1** Single Fusing (120, 277, 347V)

**F2** Double Fusing (208, 240, 480V)

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



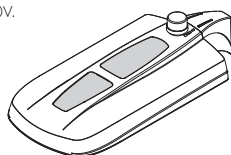
**PCB** Factory Installed Photocell Button  
Not available with 480 V.



**Note:** Voltage must be specified with fusing and photocontrol options.

**TLR** Twist Lock Receptacle

**TLRPC** Twist Lock Receptacle with Photocontrol  
Not available with 347 or 480V.



**HSS** Factory Installed House Side Shield  
Available with Type-II, III, and IV.

**DD** Dimming Driver (0-10V)

Continuous dimming down to 10% power.

0-10V leads 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 Profile<sup>1</sup>

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.<sup>2</sup>

**DS25** 25% Low

**DS50** 50% Low

**DS75** 75% Low

#### Dynadimmer - Median Profile<sup>1</sup>

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.<sup>2</sup>

**DM25** 25% Low

**DM50** 50% Low

**DM75** 75% Low

#### Dynadimmer - Economy Profile<sup>1</sup>

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.<sup>2</sup>

**DE25** 25% Low

**DE50** 50% Low

**DE75** 75% Low

<sup>1</sup>) Dynadimmer not available in 347 or 480 V.

<sup>2</sup>) 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)



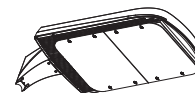
The USB programming cable is used to directly link and program Dynadimmer 0-10V from a PC. When using this cable, no programmer tool is needed. Dynadimmer software has a special button to activate the USB feature. Software available for free download at [www.philips.com/luminaires](http://www.philips.com/luminaires).

**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.*

**SG-ASA2** Field installed Stone Guard



**2LHSS-128** Type 2L Field Installed House Side Shield for 128G1 units

**2LHSS-160** Type 2L Field Installed House Side Shield for 160G1 units

**3LHSS-128** Type 3L Field Installed House Side Shield for 128G1 units

**3LHSS-160** Type 3L Field Installed House Side Shield for 160G1 units

**4LHSS-128** Type 4L Field Installed House Side Shield for 128G1 units

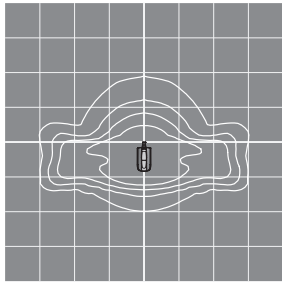
**4LHSS-160** Type 4L Field Installed House Side Shield for 160G1 units

# ASA-128G1 and 160G1 Series

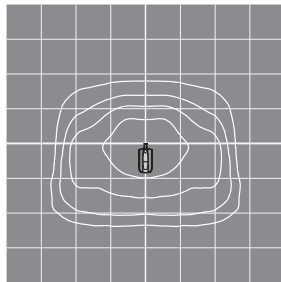
## AeroScape LED Large Housing Area and Site Series

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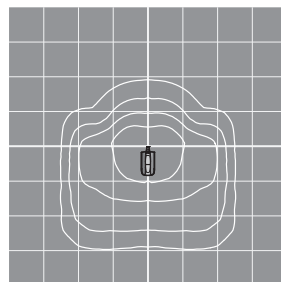
### Distribution Patterns



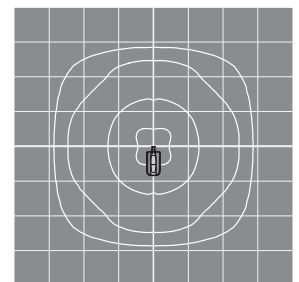
**2L0**  
2L0 is designed to IES Type II.



**3L0**  
3L0 is designed to IES Type III.

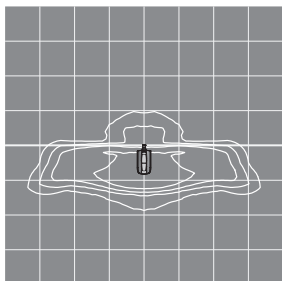


**4L0**  
4L0 is designed to IES Type IV.

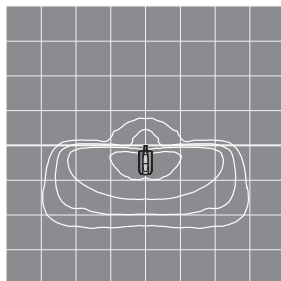


**5L**  
5L is designed to IES Type V.

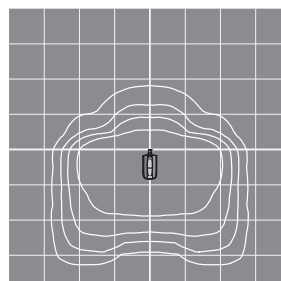
### House side shield<sup>1</sup>



**2L - HSS<sup>1</sup>**

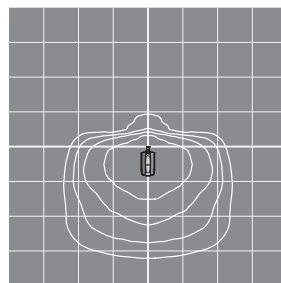


**3L - HSS<sup>1</sup>**



**4L - HSS<sup>1</sup>**

### Extreme house side shield<sup>2</sup>

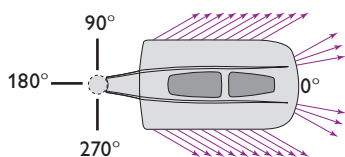


**4L - HSSX<sup>2</sup>**

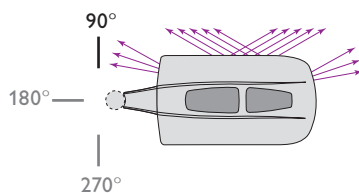
#### Notes:

- 1) 'HSS' factory installed options and field installed accessories will produce the same distribution results.
- 2) 'HSSX' factory installed option and field installed accessory will produce the same distribution results.

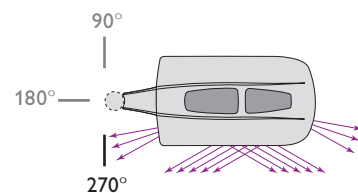
### Factory Set Rotatable Optics



**Type 2L0, Type 3L0, and Type 4L0<sup>1</sup>**



**Type 2L90, Type 3L90, and Type 4L90<sup>2</sup>**



**Type 2L270, Type 3L270, and Type 4L270<sup>3</sup>**

#### Notes:

- 1) Typical for single unit perimeter installation
- 2) Twin perimeter units typically require one 90° and one 270° optic.
- 3) Optics can be factory rotated.

# ASA-128G1 and 160G1 Series

## AeroScape LED Large Housing Area and Site Series

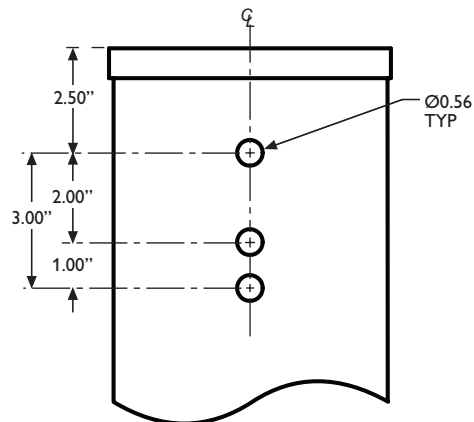
Type:

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### Arm Mount Details

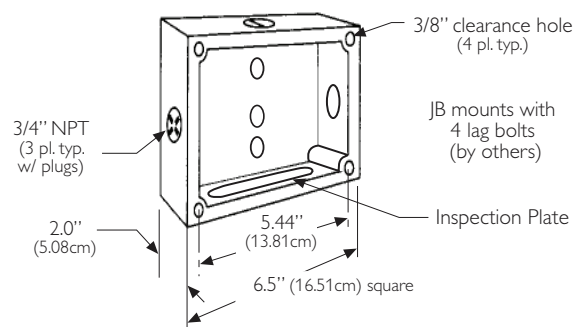
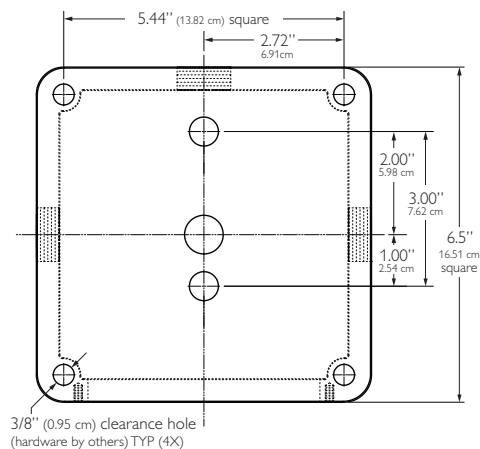
Straight and Upswept Arm Mount  
Drill Template # 13 (NTS)



DRILL TEMPLATE NO. 13

Straight and Upswept Arm Mount to 4" - 5" round or square pole

### Wall Mount Details (straight arm only)



Thru-Wire junction box allows wall mounting using standard surface arms.

### Mounting Accessory Details

#### Round Pole Tenon Adapters

Round Pole Tenon adapter allows mounting of AeroScape with upswept and straight arm mount to round pole with 2-3/8" O.D. X 4" tall pole top tenon.

- RPTA-190-DT13** 1 @ 90°
- RPTA-290-DT13** 2 @ 90°
- RPTA-2180-DT13** 2 @ 180°
- RPTA-390-DT13** 3 @ 90°
- RPTA-3120-DT13** 3 @ 120°
- RPTA-490-DT13** 4 @ 90°



#### Round Pole Adapter

Required for mounting to 3.0-3.9" O.D. pole

**RPA339-ASA**

(one 'RPA339-ASA' required for each luminaire)



#### Square Pole Tenon Adapters

Square Pole Tenon adapter allows mounting of AeroScape with upswept and straight arm mount to round pole with 2-3/8" O.D. X 4" tall pole top tenon.

- SPTA-190-DT13** 1 @ 90°
- SPTA-290-DT13** 2 @ 90°
- SPTA-2180-DT13** 2 @ 180°
- SPTA-390-DT13** 3 @ 90°
- SPTA-490-DT13** 4 @ 90°



# ASA-128G1 and 160G1 Series

## AeroScape LED Large Housing Area and Site Series

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### Photometric Data

Cat No.	Optic (distribution)	System Wattage	Fixture Lumens	Efficacy	B (backlight)	U (uplight)	G (glare)	CCT	IES File #
ASA-128G1-700	Type II (2L)*	277	26,655	96	4	0	4	4000 K +/- 250 K	ASA-128G1-700-2L.IES
	Type III (3L)	278	27,608	99	4	0	4	4000 K +/- 250 K	ASA-128G1-700-3L.IES
	Type IV (4L)	278	27,255	98	4	0	4	4000 K +/- 250 K	ASA-128G1-700-4L.IES
	Type V (5L)	278	26,584	96	5	0	3	4000 K +/- 250 K	ASA-128G1-700-5L.IES
ASA-160G1-350	Type II (2L)*	172	19,950	110	3	0	3	4000 K +/- 250 K	ASA-160G1-350-2L.IES
	Type III (3L)	181	20,132	111	3	0	3	4000 K +/- 250 K	ASA-160G1-350-3L.IES
	Type IV (4L)	181	20,441	113	3	0	3	4000 K +/- 250 K	ASA-160G1-350-4L.IES
	Type V (5L)	181	20,134	111	4	0	2	4000 K +/- 250 K	ASA-160G1-350-5L.IES
ASA-160G1-530	Type II (2L)	254	27,180	107	4	0	4	4000 K +/- 250 K	ASA-160G1-530-2L.IES
	Type III (3L)	254	27,895	110	4	0	4	4000 K +/- 250 K	ASA-160G1-530-3L.IES
	Type IV (4L)	254	27,563	109	4	0	4	4000 K +/- 250 K	ASA-160G1-530-4L.IES
	Type V (5L)	254	27,131	107	5	0	3	4000 K +/- 250 K	ASA-160G1-530-5L.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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Job:

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### LED Lumen Maintenance Data

		ASA-128G1 @ 700 mA								ASA-160G1 @ 350 mA								ASA-160G1 @ 530 mA							
Outdoor Ambient Temp (°C) <sup>1</sup>		5	10	15	20	25	30	35	40	5	10	15	20	25	30	35	40	5	10	15	20	25	30	35	40
Junction Temperature <sup>2</sup>		60.7	65.7	70.7	75.7	80.7	85.7	90.7	-	39.6	44.6	49.6	54.6	59.6	64.6	69.6	74.6	56.1	61.1	66.1	71.1	76.1	81.1	86.1	91.1
Thermal Factor <sup>3</sup>		1.04	1.03	1.02	1.01	1.00	0.99	0.98	-	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	1.04	1.03	1.02	1.01	1.00	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	1.00	0.99	0.98	-	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97
	8,000 / 2.2	1.03	1.02	1.01	1.00	0.99	0.98	0.97	-	1.04	1.03	1.02	1.01	0.99	0.98	0.97	0.96	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96
	16,000 / 4.4	1.02	1.01	1.00	0.99	0.97	0.96	0.95	-	1.03	1.02	1.01	1.00	0.99	0.97	0.96	0.95	1.02	1.01	1.00	0.99	0.98	0.97	0.95	0.94
	24,000 / 6.6	1.01	1.00	0.98	0.97	0.96	0.94	0.93	-	1.02	1.01	1.00	0.99	0.98	0.96	0.95	0.94	1.01	1.00	0.99	0.98	0.96	0.95	0.94	0.92
	32,000 / 8.8	1.00	0.98	0.97	0.96	0.94	0.93	0.91	-	1.01	1.00	0.99	0.98	0.97	0.95	0.94	0.93	1.00	0.99	0.98	0.97	0.95	0.94	0.92	0.90
	40,000 / 11.0	0.99	0.97	0.96	0.94	0.93	0.91	0.89	-	1.01	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.99	0.98	0.97	0.95	0.94	0.92	0.91	0.89
	48,000 / 13.2	0.97	0.96	0.94	0.93	0.91	0.89	0.87	-	1.00	0.99	0.97	0.96	0.95	0.93	0.92	0.91	0.98	0.97	0.96	0.94	0.93	0.91	0.89	0.87
	56,000 / 15.3	0.96	0.95	0.93	0.91	0.89	0.87	0.84	-	0.99	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.97	0.96	0.94	0.93	0.91	0.89	0.87	0.85
	64,000 / 17.5	0.95	0.94	0.92	0.89	0.87	0.84	0.82	-	0.98	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.96	0.95	0.93	0.92	0.90	0.87	0.85	0.82
	72,000 / 19.7	0.94	0.92	0.90	0.87	0.85	0.82	0.79	-	0.98	0.96	0.95	0.93	0.92	0.90	0.89	0.87	0.95	0.94	0.92	0.90	0.88	0.85	0.83	0.80
	80,000 / 21.9	0.92	0.90	0.87	0.85	0.82	0.80	0.77	-	0.97	0.95	0.94	0.93	0.91	0.89	0.87	0.85	0.94	0.93	0.91	0.88	0.86	0.83	0.81	0.78
	88,000 / 24.1	0.90	0.87	0.85	0.82	0.80	0.77	0.75	-	0.96	0.95	0.93	0.92	0.90	0.88	0.86	0.83	0.93	0.91	0.89	0.86	0.84	0.81	0.79	0.76
	96,000 / 26.3	0.88	0.85	0.83	0.80	0.77	0.75	0.73	-	0.95	0.94	0.92	0.91	0.88	0.86	0.84	0.81	0.91	0.89	0.86	0.84	0.82	0.79	0.76	0.74
	104,000 / 28.5	0.85	0.83	0.80	0.77	0.75	0.72	0.70	-	0.95	0.93	0.91	0.89	0.87	0.84	0.82	0.80	0.89	0.87	0.84	0.82	0.79	0.76	0.74	0.72
	112,000 / 30.7	0.83	0.80	0.77	0.74	0.72	0.70	-	-	0.94	0.92	0.90	0.87	0.85	0.83	0.80	0.78	0.87	0.85	0.82	0.80	0.77	0.74	0.72	0.70
	120,000 / 32.9	0.79	0.76	0.73	0.71	0.69	-	-	-	0.92	0.90	0.88	0.85	0.83	0.81	0.78	0.75	0.85	0.83	0.80	0.77	0.74	0.72	0.70	-
	128,000 / 35.1	0.75	0.73	0.70	0.68	-	-	-	-	0.91	0.88	0.86	0.84	0.81	0.79	0.76	0.73	0.83	0.80	0.76	0.74	0.71	0.69	-	-
	136,000 / 37.3	0.71	0.69	-	-	-	-	-	-	0.89	0.87	0.84	0.82	0.79	0.76	0.73	0.70	0.79	0.76	0.73	0.71	0.69	-	-	-
	144,000 / 39.5	0.67	-	-	-	-	-	-	-	0.87	0.85	0.83	0.80	0.76	0.73	0.70	-	0.75	0.72	0.70	0.68	-	-	-	-
	152,000 / 41.6	-	-	-	-	-	-	-	-	0.86	0.83	0.80	0.76	0.72	0.70	-	-	0.71	0.69	-	-	-	-	-	-
	160,000 / 43.8	-	-	-	-	-	-	-	-	0.84	0.80	0.75	0.72	0.69	-	-	-	0.67	-	-	-	-	-	-	-
	168,000 / 46.0	-	-	-	-	-	-	-	-	0.79	0.74	0.71	0.68	-	-	-	-	-	-	-	-	-	-	-	-
	176,000 / 48.2	-	-	-	-	-	-	-	-	0.73	0.69	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-
	184,000 / 50.4	-	-	-	-	-	-	-	-	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

#### Notes:

- Outdoor ambient temperature** is based on annual average operating air temperature as seen by the fixture within its environmental conditions.
- 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.
- 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.
- LED Lumen Maintenance Data chart** is actual lumen adjustment per the operating ambient. No additional prorate or derate required.

Notes:



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