

# A-51™ LED Factory Sealed Luminaires

## Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

**NEC/CEC — For Group A and B:**  
 Class I, Division 1, Groups A, B, C, D  
 Class II, Division 1, Groups F, G  
 Class III  
 Suitable for use in Wet Locations

**NEC/CEC — For Group C and D:**  
 Class I, Division 1, Groups C, D  
 Class II, Division 1, Groups E, F, G  
 Class III  
 Suitable for use in Wet Locations

### Applications

- Ideal for use in chemical and petrochemical plants, and in other heavy process areas where ignitable vapors, dust, moisture and corrosive atmospheres may be present.
- Suitable for use in wet locations.
- Model for Class I, Division 1 applications where acetylene is always present.

### Features

- All A-51™ LED fixtures are factory sealed; no external sealing fittings required.
- Fixture unit easily threads off mounting hood for convenient servicing or for immediate exchange with new fixture.
- Specially formulated two coat baked epoxy enamel provides superior protective finish to resist corrosion. Applied to all mounting hoods, fixture units and guards.
- Light outputs up to 3,200 lumens.

Nominal Lumens	Incandescent Equivalent	Model Number
1700	100 - 150W	ALL1CBU
		ALL1WBU
		AALL1CBU
		AALL1WBU
3200	200 - 300W	ALL2CBU
		ALL2WBU
		AALL2CBU
		AALL2WBU

- Globes in A-51™ fixtures are explosionproof, heat- and impact-resistant glass. Prismatic configuration on globe interior provides light control while allowing smooth exterior surface for cleaning.
- Guards to protect globe are easily mounted to globe ring with 3 screws.
- Fixture units have standardized threads to fit all A-51™ LED mounting hoods.
- Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)
- 6 kV Surge Protection.
- Choice of mountings:
  - Group A, B, C, D:
    - Pendant, ceiling and 15° short bracket
  - Group C, D:
    - Pendant, ceiling, 25° stanchion ①, long bracket and 15° short bracket.
- Single sided and Three-Way Exit signs available.

### Options

- Aluminum guards available, purchase separately
- Colored glass globes and porcelain reflectors available, purchase separately

### Standard Materials

- Fixtures and guards: copperfree (4/10 of 1% max.) aluminum
- Pendant mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Ceiling and bracket mounting hoods: malleable iron with aluminum adapters
- Reflectors: porcelain-enameled steel

Group A, B, C, D



Available Fixture Mounting Options



Group C and D



Available Fixture Mounting Options



### Standard Finishes

- Fixtures, guards and mounting hoods: welectrostatically applied for complete, uniform surface protection
- Steel reflectors: white porcelain enamel

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- CSA Standard: C22.2 No. 137; C22.2 No 250.0-08
- cULus Listed: E10444
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### Related Products

- Code•Master™ LED
- A-51™ Incandescent
- Code•Master™ Jr. LED

① Not UL Listed.

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### A-51™ LED (Groups A, B, C, D)

Pendant Mount



AAP  
(Groups A, B, C, D)

Ceiling



AAC  
(Groups B, C, D)

15° Short  
Bracket



AASB  
(Groups B, C, D)



AALL1  
AALL2

Globe Ring  
Assembly



AAGUA-15

Porcelain  
Reflectors



AARW-15xx

Aluminum Guard



AAGUA15

LED/AREA: NEC/CEC EXPLOSIONPROOF

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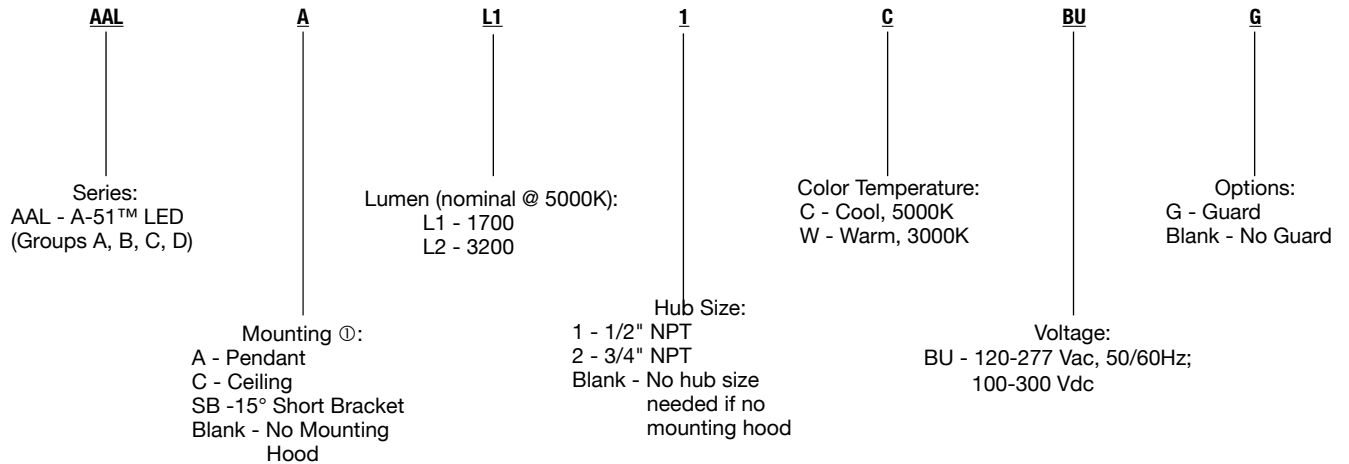
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Order using catalog numbering guides below or select catalog number from tables on following pages.

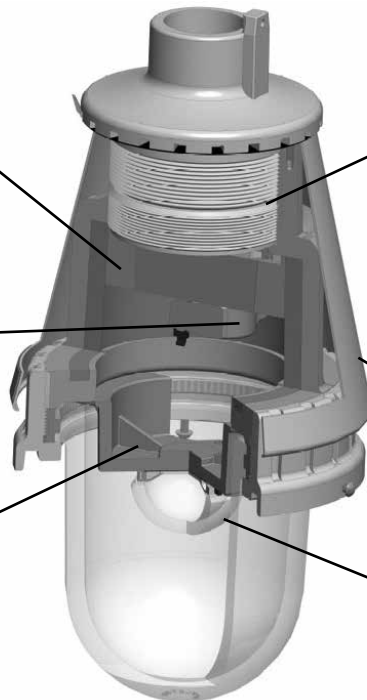


### Illustrated Features A-51™ LED Class I, Division 1, Groups A, B, C, D

Thermally conductive polymer based potting compound maintains low LED driver temperature ensuring long life

Internal 6 kV protection to prevent voltage spikes from possibly damaging the driver

Diecast Aluminum heatsink contributes to a reported L70 life of 60,000 hours; CRI > 80



Socket block with wireless connector ring and pin. As fixture is threaded onto mounting hood, connector ring and pin enter terminal recesses of connection block making electrical contact

Aluminum heatsink with gray epoxy powder coat, electrostatically applied paint that resists corrosion

Silicone optic provides a smooth light distribution with a uniform light coverage

① Only pendant is certified for Group A applications.

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### Technical Data

Max. Ambient Temperature °C (°F)	Supply Wire °C (°F)	Class I, Division 1	Class II, Division 1	Model Number
<b>Class I Division 1 and Division 2 Groups A ①, B, C and D</b>				
55 (131)	110 (230)	<b>T6</b>	<b>T6</b>	AALL1CBU or AALL1WBU
55 (131)	110 (230)	<b>T6</b>	<b>T6</b>	AALL2CBU or AALL2WBU

### “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	351-450 (664-842)	326-350 (619-662)	301-325 (574-617)	281-300 (538-572)	261-280 (502-536)	231-260 (448-500)	216-230 (421-446)	201-215 (394-419)	181-200 (358-392)	166-180 (331-356)	161-165 (322-329)	136-160 (277-320)	121-135 (250-275)	101-120 (214-248)	86-100 (187-212)	85 (185)

### Electrical Ratings

Model Number	Voltage (V)	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
AALL1	120 Vac	12.7	0.11	>.98	<20%
	277 Vac	13.6	0.05	>.91	<20%
	100 Vdc	12.7	0.13	>.99	<20%
	300 Vdc	13.9	0.05	>.99	<20%
AALL2	120 Vac	26.3	0.22	>.94	<20%
	277 Vac	26.8	0.10	>.92	<20%
	100 Vdc	26.4	0.26	>.99	<20%
	300 Vdc	27.0	0.09	>.99	<20%

① For Group A, use Pendant mount only.

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	Type	Voltage	Hub Size (Inches)	CCT/CRI	Lumen Output	Catalog Number				
Pendant	One Hub, Rigid or Flexible Mounting	120-277 Vac; 100-300 Vdc	1/2	5000/80	1700	AALAL11CBU				
					3200	AALAL21CBU				
				3000/80	1600	AALAL11WBU				
					3100	AALAL21WBU				
			3/4	5000/80	1700	AALAL12CBU				
					3200	AALAL22CBU				
				3000/80	1600	AALAL12WBU				
					3100	AALAL22WBU				
Ceiling	Four Hubs, Three Close Up Plugs	120-277 Vac; 100-300 Vdc	1/2	5000/80	1700	AALCL11CBU				
					3200	AALCL21CBU				
				3000/80	1600	AALCL11WBU				
					3100	AALCL21WBU				
			3/4	5000/80	1700	AALCL12CBU				
					3200	AALCL22CBU				
				3000/80	1600	AALCL12WBU				
					3100	AALCL22WBU				
				15° Short Bracket	Two Hubs, One Close Up Plug	120-277 Vac; 100-300 Vdc	1/2	5000/80	1700	AALSBL11CBU
									3200	AALSBL21CBU
3000/80	1600	AALSBL11WBU								
	3100	AALSBL21WBU								
3/4	5000/80	1700	AALSBL12CBU							
		3200	AALSBL22CBU							
	3000/80	1600	AALSBL12WBU							
		3100	AALSBL22WBU							

LED / AREA: NEC / CEC EXPLOSIONPROOF

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### Fixture Units (Not including mounting hoods)

	Description	Catalog Number
	1700 Lumens, 5000K, 120-277 Vac; 100-300 Vdc	<b>AALL1CBU</b>
	3200 Lumens, 5000K, 120-277 Vac; 100-300 Vdc	<b>AALL2CBU</b>
	1600 Lumens, 3000K, 120-277 Vac; 100-300 Vdc	<b>AALL1WBU</b>
	3100 Lumens, 3000K, 120-277 Vac; 100-300 Vdc	<b>AALL2WBU</b>

### Mounting Hoods

	Type	Hub Size (Inches)	Catalog Number
	One Hub, Rigid or Flexible Mounting	1/2	<b>AAP-50</b> ①
		3/4	<b>AAP-75</b> ①
	Four Hubs, Three Close-up Plugs	1/2	<b>AAC-50</b>
		3/4	<b>AAC-75</b>
	Two Hubs, One Close-up Plug	1/2	<b>AASB-50</b>
		3/4	<b>AASB-75</b>

### Accessories and Replacement Parts

Type	Description	Catalog Number
	Porcelain Standard Reflector, (Not for use with 15° short bracket)	<b>AARW-15ST</b>
	Porcelain 30° Angled Reflector	<b>AARW-15AN</b>
	Globe and Ring Assembly for use with AAL1CBU, AALL2CBU, AALL1WBU or AALL2WBU	<b>AAGLA-15</b>
	Aluminum Guard for use with (AAL1CBU, AALL2CBU, AALL1WBU or AALL2WBU)	<b>AAGUA-15</b>
	Fits all A-51™ LED mounting hoods	<b>VPT-7</b>

① Group A pendant mount only.

LED/AREA: NEC/CEC EXPLOSIONPROOF

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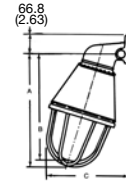
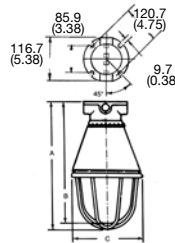
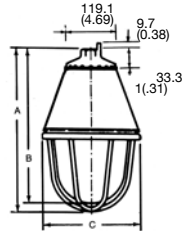
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### Dimensions in Millimeters (Inches)



Model	Pendant			Ceiling			Short Bracket		
	A	B	C	A	B	C	A	B	C
AALL1 or AALL2	347.7 (13.69)	333.5 (13.13)	179.3 (7.06)	419.1 (16.50)	404.9 (15.94)	179.3 (7.06)	381.0 (15.00)	366.8 (14.44)	241.3 (9.50)

Model	A	B	
AARW-15ST	355.6 (14.00)	111.1 (4.38)	 (ST) Standard Dome
AARW-15AN	254.0 (10.00)	193.8 (7.63)	 (AN) 30° Angle

### Weights

Fixture Units		Mounting Hoods		Guards	
Wt. kg (lbs)	Model Number	Wt. kg (lbs)	Type	Wt. kg (lbs)	Model Number
6.1 (13.4)	AALL1	0.6 (1.3)	Pendant	0.2 (0.4)	AAGUA-15
6.1 (13.4)	AALL2	2.2 (4.8)	Ceiling		
		2.2 (4.8)	15° Short Bracket		

Standard Reflectors		30° Angle Reflectors	
Wt. kg (lbs)	Model Number	Wt. kg (lbs)	Model Number
1.0 (2.1)	AARW-15ST	1.0 (2.1)	AARW-15AN

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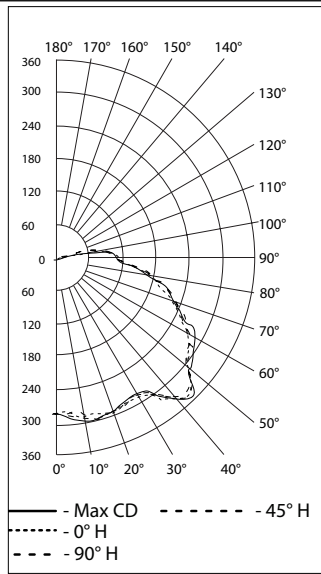
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Clear Glass, 5000K CCT

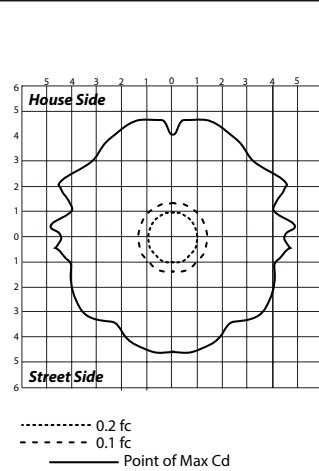
REPORT NUMBER: AALL1CBU

Luminaire Lumens 1,700

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	246.9	14.5%
0-40	439.2	25.8%
0-60	946.0	55.6%
60-90	587.7	34.6%
70-100	458.6	27%
90-120	162.4	9.5%
0-90	1,533.7	90.2%
90-180	167.0	9.8%
0-180	1,700.7	100%

#### LUMENS PER ZONE

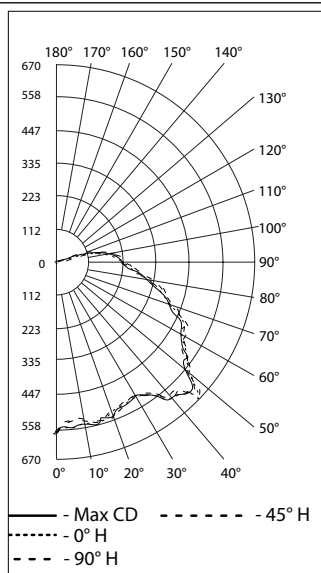
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	28.3	1.7%	90-100	108.7	6.4%
10-20	85.2	5.0%	100-110	49.7	2.9%
20-30	133.4	7.8%	110-120	4.0	0.2%
30-40	192.3	11.3%	120-130	3.3	0.2%
40-50	253.5	14.9%	130-140	1.2	0.1%
50-60	253.2	14.9%	140-150	0.1	0%
60-70	237.7	14.0%	150-160	0	0%
70-80	202.7	11.9%	160-170	0	0%
80-90	147.3	8.7%	170-180	0	0%

Clear Glass, 5000K CCT

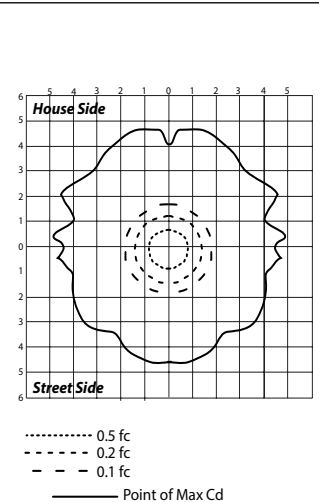
REPORT NUMBER: AALL2CBU

Luminaire Lumens 3,200

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	456.9	14.4%
0-40	802.3	25.2%
0-60	1,706.4	53.7%
60-90	1,091.4	34.3%
70-100	878.5	27.6%
90-120	372.9	11.7%
0-90	2,797.8	88%
90-180	382.7	12%
0-180	3,180.5	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	52.6	1.7%	90-100	225.5	7.1%
10-20	158.4	5.0%	100-110	132.9	4.2%
20-30	245.9	7.7%	110-120	14.5	0.5%
30-40	345.4	10.9%	120-130	6.6	0.2%
40-50	455.7	14.3%	130-140	2.3	0.1%
50-60	448.4	14.1%	140-150	0.7	0%
60-70	438.4	13.8%	150-160	0.1	0%
70-80	371.1	11.7%	160-170	0	0%
80-90	281.9	8.9%	170-180	0	0%

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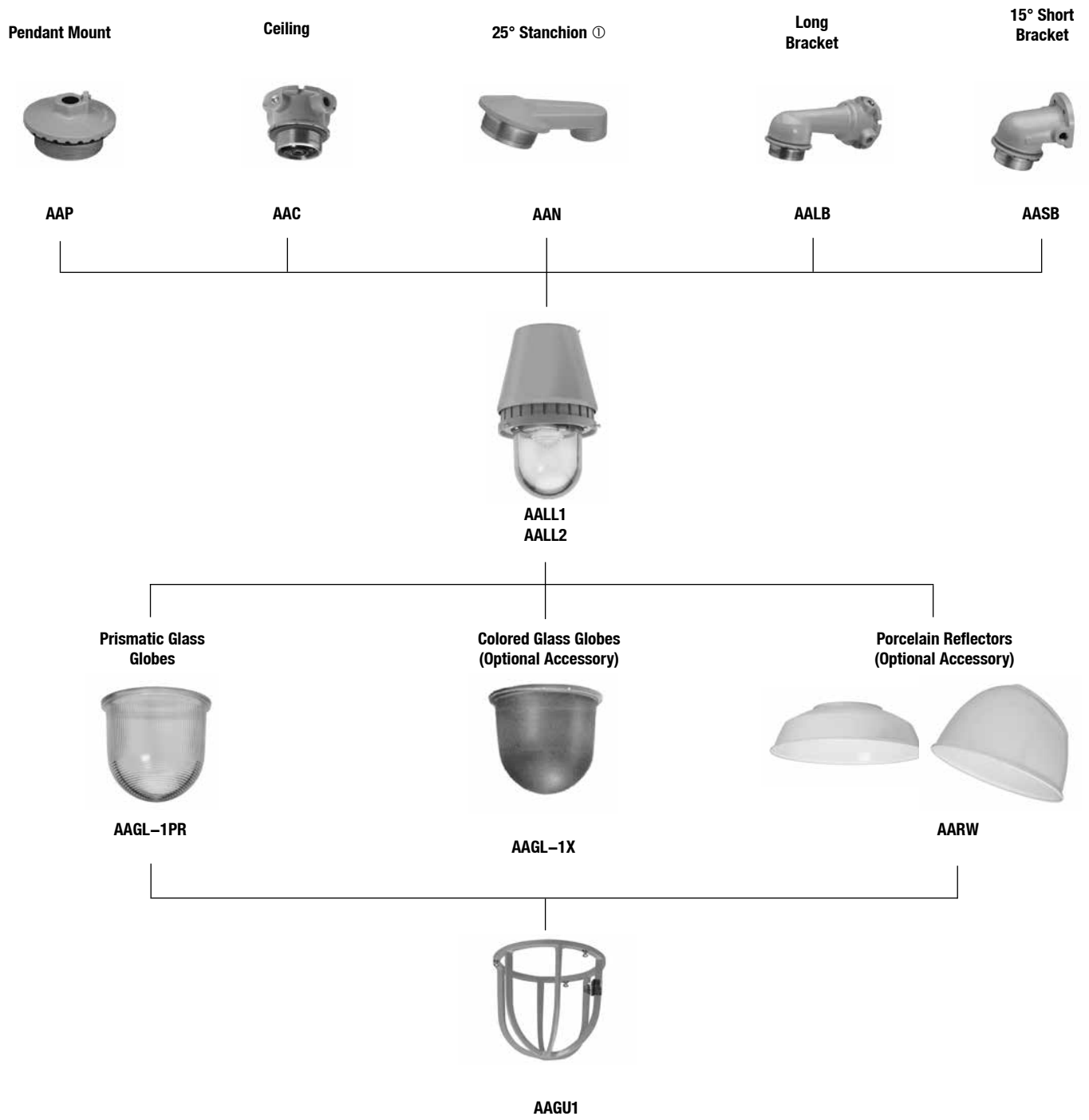
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### A-51™ LED (Groups C, D)



① Not UL Listed.

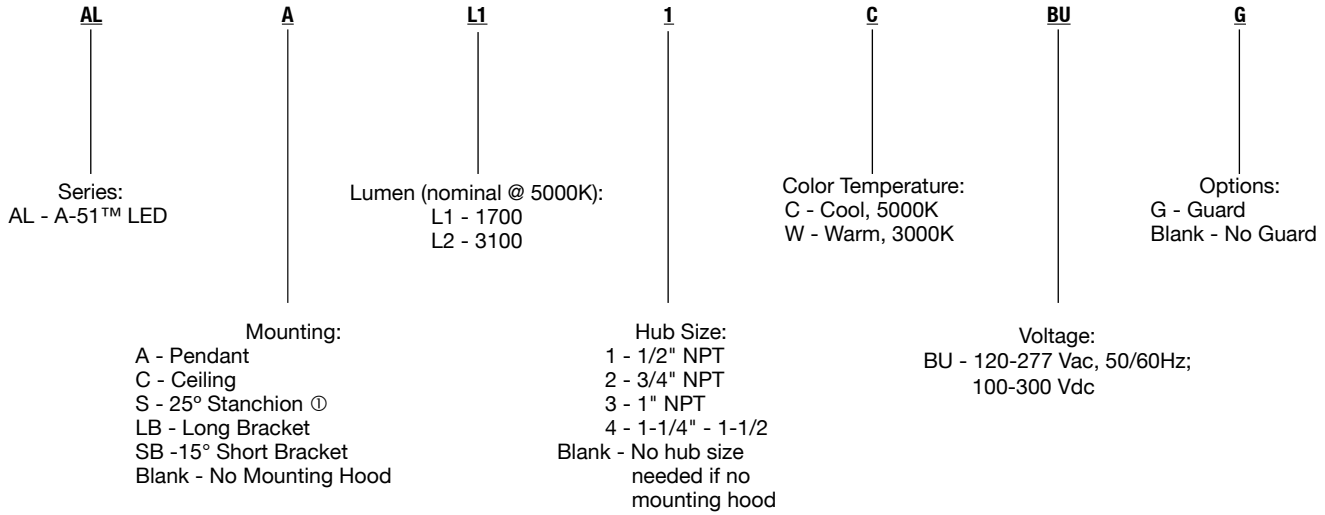
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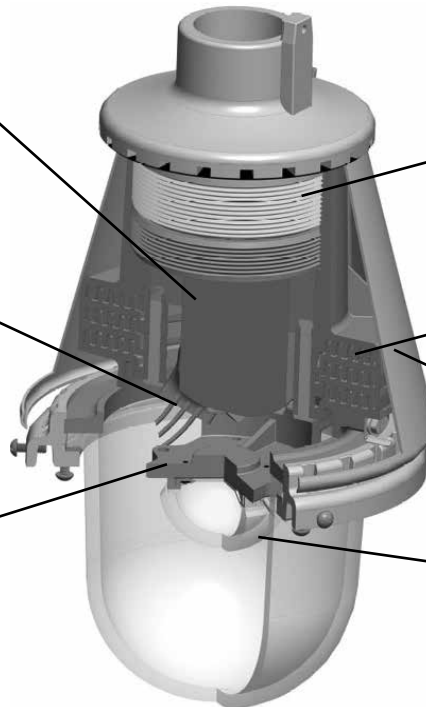


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Internal 6 Kv protection to prevent voltage spikes from possibly damaging the driver

Diecast Aluminum heatsink contributes to a reported L70 life of 60,000 hours; CRI > 80



Socket block with wireless connector ring and pin. As fixture is threaded onto mounting hood, connector ring and pin enter terminal recesses of connection block making electrical contact

Interlocking concentric rings assure controlled flame dissipation as well as heat and pressure venting

Aluminum heatsink with gray epoxy powder coat, electrostatically applied paint resists corrosion

Silicone optic provides a smooth light distribution with a uniform light coverage

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### Technical Data

Max. Ambient Temperature °C (°F)	Supply Wire °C (°F)	Class I, Division 1	Class II, Division 1	Model Number
<b>Class I Division 1 and Division 2 Groups C, D</b>				
55 (131)	125 (257)	T6	T6	ALL1CBU or ALL1WBU
55 (131)	125 (257)	T6	T6	ALL2CBU or ALL2WBU

### “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
	(664-842)	(619-662)	(574-617)	(538-572)	(502-536)	(448-500)	(421-446)	(394-419)	(358-392)	(331-356)	(322-329)	(277-320)	(250-275)	(214-248)	(187-212)	(185)

### Electrical Ratings

Model Number	Voltage (V)	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
ALL1	120 Vac	12.7	0.11	>.98	<20%
	277 Vac	13.6	0.05	>.91	<20%
	100 Vdc	12.7	0.13	>.99	<20%
	300 Vdc	13.9	0.05	>.99	<20%
ALL2	120 Vac	26.3	0.22	>.94	<20%
	277 Vac	26.8	0.10	>.92	<20%
	100 Vdc	26.4	0.26	>.99	<20%
	300 Vdc	27.0	0.09	>.99	<20%

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Type	Voltage	Hub Size (Inches)	CCT/CRI	Lumen Level	Catalog Number			
Pendant	One Hub, Rigid or Flexible Mounting	1/2	5000/80/80	1700	ALAL11CBU			
				3100	ALAL21CBU			
			3000/80/80	1600	ALAL11WBU			
				3000	ALAL21WBU			
			3/4	5000/80	1700	ALAL12CBU		
					3100	ALAL22CBU		
		3000/80		1600	ALAL12WBU			
			3000	ALAL22WBU				
		1	5000/80	1700	ALAL13CBU			
				3100	ALAL23CBU			
			3000/80	1600	ALAL13WBU			
		3000		ALAL23WBU				
Ceiling	Four Hubs, Three Close Up Plugs	1/2	5000/80	1700	ALCL11CBU			
				3100	ALCL21CBU			
			3000/80	1600	ALCL11WBU			
				3000	ALCL21WBU			
		3/4	5000/80	1700	ALCL12CBU			
				3100	ALCL22CBU			
			3000/80	1600	ALCL12WBU			
				3000	ALCL22WBU			
		1	5000/80	1700	ALCL13CBU			
				3100	ALCL23CBU			
			3000/80	1600	ALCL13WBU			
				3000	ALCL23WBU			
25° Stanchion	One Hub	1-1/4 to 1-1/2	5000/80	1700	ALSL14CBU ①			
				3100	ALSL24CBU ①			
			3000/80	1600	ALSL14WBU ①			
				3000	ALSL24WBU ①			
			Long Bracket	Four Hubs, Three Close Up Plugs	1/2	5000/80	1700	ALLBL11CBU
							3100	ALLBL21CBU
						3000/80	1600	ALLBL11WBU
							3000	ALLBL21WBU
3/4	5000/80	1700			ALLBL12CBU			
		3100			ALLBL22CBU			
	3000/80	1600			ALLBL12WBU			
		3000			ALLBL22WBU			
1	5000/80	1700	ALLBL13CBU					
		3100	ALLBL23CBU					
	3000/80	1600	ALLBL13WBU					
		3000	ALLBL23WBU					
15° Short Bracket	Two Hubs, One Close Up Plug	1/2	5000/80	1700	ALSBL11CBU			
				3100	ALSBL21CBU			
			3000/80	1600	ALSBL11WBU			
				3000	ALSBL21WBU			
		3/4	5000/80	1700	ALSBL12CBU			
				3100	ALSBL22CBU			
			3000/80	1600	ALSBL12WBU			
				3000	ALSBL22WBU			

① 25° stanchion mounting hood is not UL certified for use with A-51™ fixtures.

LED/AREA: NEC/CEC EXPLOSIONPROOF

APPLETON™


# A-51™ LED Factory Sealed Luminaires

## Explosionproof






Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

NEC/CEC — For Group C and D:  
 Class I, Division 1, Groups C, D  
 Class II, Division 1, Groups E, F, G  
 Class III  
 Suitable for use in Wet Locations

### Fixture Units (Not including mounting hoods)

	Description	Catalog Number
	1700 Lumens, 5000K, 120-277 Vac; 100-300 Vdc	ALL1CBU
	3100 Lumens, 5000K, 120-277 Vac; 100-300 Vdc	ALL2CBU
	1600 Lumens, 3000K, 120-277 Vac; 100-300 Vdc	ALL1WBU
	3000 Lumens, 3000K, 120-277 Vac; 100-300 Vdc	ALL2WBU

### Mounting Hoods

Type	Hub Size (Inches)	Catalog Number
<b>Pendant — One Hub, Rigid or Flexible Mounting</b>		
	1/2	AAP-50
	3/4	AAP-75
	1	AAP-100
<b>Ceiling — Four Hubs, Three Close-up Plugs</b>		
	1/2	AAC-50
	3/4	AAC-75
	1	AAC-100
<b>25° Stanchion — One Hub</b>		
	1-1/2	AAN-150
<b>Long Bracket — Four Hubs, Three Close-up Plugs</b>		
	1/2	AALB-50
	3/4	AALB-75
	1	AALB-100
<b>15° Short Bracket — Two Hubs, One Close-up Plug</b>		
	1/2	AASB-50
	3/4	AASB-75

① 1-1/2" tapped hub furnished with a 1-1/2" to 1-1/4" reducer. Not UL Listed.

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### Accessories and Replacement Parts

Type	Description	Catalog Number
	Three-Way Exit Sign (Not UL Listed) – Epoxy enameled steel – 152.4 mm (6 in)-high red lettering (Mounts to fixture unit in place of guard)	<b>CJEXRN</b>
	Single-Sided Exit Sign (Not UL Listed) – Epoxy enameled steel  – 152.4 mm (6 in)-high red lettering (Mounts to fixture unit in place of guard)	<b>AEXR-15R</b>
	Porcelain Standard Reflector, (Not for use with 15° short bracket)	<b>AARW-15ST</b>
	Porcelain 30° Angled Reflector	<b>AARW-15AN</b>
	Colored Glass Globe - Amber	<b>AAGL-1A</b>
	Colored Glass Globe - Green	<b>AAGL-1G</b>
	Colored Glass Globe - Red	<b>AAGL-1R</b>
	Prismatic Glass Globe with gaskets for use with (ALL1CBU, ALL2CBU, ALL1WBU, or ALL2WBU)	<b>AAGL-1PR</b>
	Aluminum Guard for use with (ALL1CBU, ALL2CBU, ALL1WBU, or ALL2WBU)	<b>AAGU-1</b>
	Connection block for all Mounting Hoods	<b>VPT-7</b>

LED/AREA: NEC/CEC EXPLOSIONPROOF

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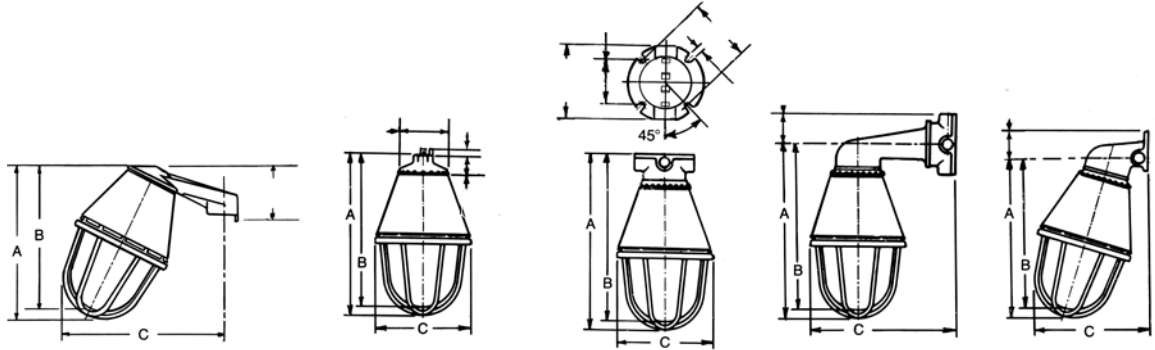
# A-51™ LED Factory Sealed Luminaires

## Explosionproof

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### Dimensions in Millimeters (Inches)



Model	Stanchion mm (in)			Pendant mm (in)			Ceiling mm (in)			Long Bracket mm (in)				Short Bracket mm (in)		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	
ALL1 or ALL2	291.3 (11.47)	275.6 (10.85)	292.1 (11.50)	311.2 (12.25)	295.4 (11.63)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	314.5 (12.38)	344.4 (13.56)	328.7 (12.94)	231.9 (9.13)	

Model	A	B
AARW-15ST	355.6 (14.00)	111.1 (4.38)
		<p>(ST) Standard Dome</p>
AARW-15AN	254.0 (10.00)	193.8 (7.63)
		<p>(AN) 30° Angle</p>

### Weights

Fixture Units		Mounting Hoods		Guards	
Wt. kg (lbs)	Model Number	Type	Wt. kg (lbs)	Wt. kg (lbs)	Model Number
3.7 (8.2)	ALL1	Pendant	0.6 (1.3)	0.2 (0.4)	AAGU-1
3.7 (8.2)	ALL2	Ceiling	2.2 (4.8)		
		Stanchion	0.7 (1.6)		
		Long Bracket	4.0 (8.9)		
		Short Bracket	2.2 (4.8)		

Standard Reflectors		30° Angle Reflectors	
Wt. kg (lbs)	Model Number	Wt. kg (lbs)	Model Number
1.0 (2.1)	AARW-15ST	1.0 (2.1)	AARW-15AN

LED/AREA: NEC/CEC EXPLOSIONPROOF

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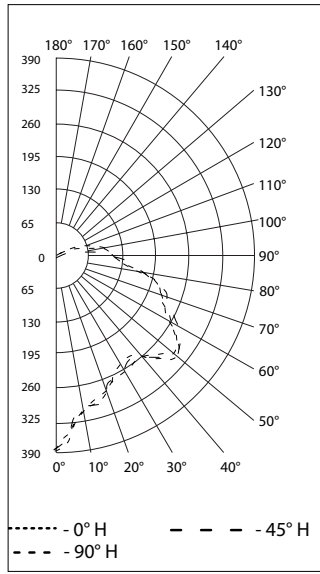
### Photometric Data — DATA SHOWN IS ABSOLUTE

Prismatic Glass, 5000K CCT

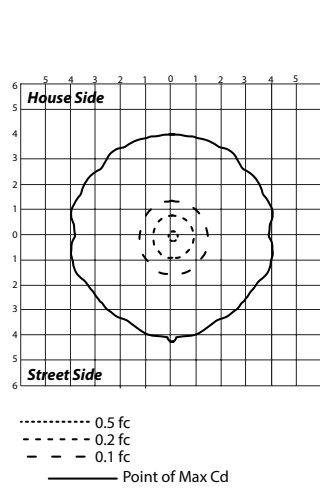
REPORT NUMBER: ALL1CUBU

Luminaire Lumens 1,700

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	239.1	14.3%
0-40	394.6	23.6%
0-60	867.3	51.8%
60-90	588.8	35.2%
70-100	475.0	28.4%
90-120	213.7	12.8%
0-90	1,456.1	87%
90-180	218.0	13%
0-180	1,674.1	100%

#### LUMENS PER ZONE

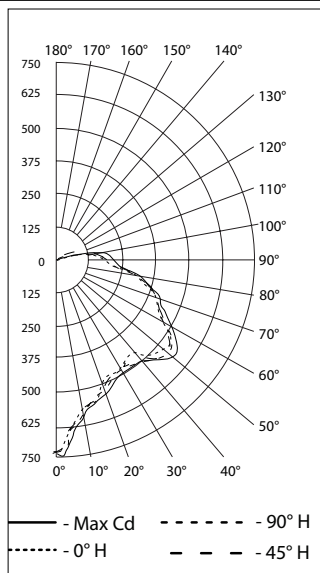
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	32.1	1.9%	90-100	120.1	7.2%
10-20	84.6	5.1%	100-110	80.0	4.8%
20-30	122.4	7.3%	110-120	13.7	0.8%
30-40	155.5	9.3%	120-130	3.5	0.2%
40-50	219.8	13.1%	130-140	0.8	0%
50-60	253.0	15.1%	140-150	0.0	0%
60-70	233.9	14.0%	150-160	0	0%
70-80	205.8	12.3%	160-170	0	0%
80-90	149.1	8.9%	170-180	0	0%

Prismatic Glass, 5000K CCT

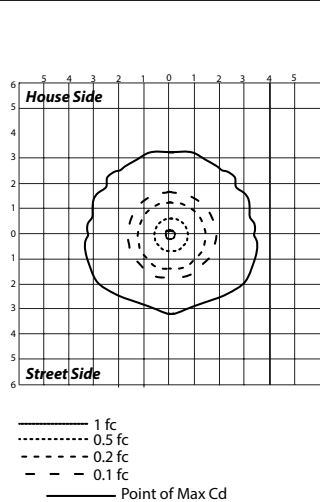
REPORT NUMBER: ALL2CUBU

Luminaire Lumens 3,100

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	453.8	14.6%
0-40	757.9	24.4%
0-60	1,625.8	52.3%
60-90	1,069.3	34.4%
70-100	862.9	27.7%
90-120	406.3	13.1%
0-90	2,695.1	86.7%
90-180	415.0	13.3%
0-180	3,110.0	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	62.2	2.0%	90-100	219.1	7%
10-20	158.9	5.1%	100-110	153.6	4.9%
20-30	232.7	7.5%	110-120	33.6	1.1%
30-40	304.1	9.8%	120-130	6.8	0.2%
40-50	406.9	13.1%	130-140	1.6	0.1%
50-60	461.1	14.8%	140-150	0.3	0%
60-70	425.5	13.7%	150-160	0	0%
70-80	371.3	11.9%	160-170	0	0%
80-90	272.5	8.8%	170-180	0	0%

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