

ARCHITECTURAL EGRESS

Vandal Resistant

AEL Full Cut-Off LED



Fixture Type	Date
Job Name	Approved By
Catalog Number	

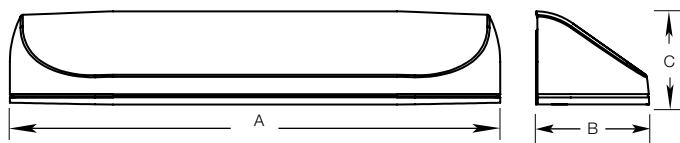
SPECIFICATIONS



Description	The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Wall Mount	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
Lens Frame	Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.
Lens	UV stabilized diffused extruded polycarbonate.
End Caps	Die cast marine grade aluminum continuously welded to housing. All welds ground smooth.
Reflector	Electrostatically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.
Drivers	Dimming to 1%, 10% or Programmable Lumen Output driver options. Non-Dimming Driver is also available.
Gaskets	Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.
LED	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L ₇₀ projected life of over 130,000 hours at 50°C.
UL Listing	U.L., C.UL. Wet Location Listing standard.
Government Procurement	BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	Lifetime warranty against vandalism. Luminaire LED will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
AEL 12IN	20.79	5.40	3.60
AEL 24IN	32.04	5.40	3.60
AEL 36IN	43.29	5.40	3.60
AEL 48IN	54.75	5.40	3.60
AEL 72IN	78.75	5.40	3.60



ORDERING INFORMATION

Example: AEL 12IN NODIM 30W 27K 120 DP BKH

Series*	Size (Nominal)* ¹	Drivers*	Dual Drivers (Optional)	Wattage (Nominal) ¹	Lumens (For PRD Only)
AEL Vandal Resistant Architectural Full Cut-off Path of Egress Luminaire	12IN ^{2,3} 24IN 36IN ⁴ 48IN 72IN	MIN1 ⁵ Dimming to 1% MIN10 Dimming to 10% NODIM Non-Dimming Driver PRD Driver Programmed to Specific Lumen Output. To specify lumens, see size and lumen chart, Consult Factory <i>PRD not available with Wattage. PRD standard 0-10V dimming to 1%</i>	2DRV ^{6,7,8} Two LED drivers for independent LED board operations	10W 30W 15W 35W 20W 55W <i>Required for all drivers except PRD driver To specify wattage, see size and wattage chart</i>	300LM - 6400LM - Lumens available in 100LM increments <i>Lumens required if PRD driver chosen</i>

CCT*	Voltage*	Lens*	Finish*
27K 2700K	120 120 Volt	DP Diffused Polycarbonate	BKH Black Hammertone
30K 3000K	277 277 Volt		WOP White Orange Peel/Textured White
35K 3500K	MVOLT 120-277 Volt		BZH Bronze Hammertone
40K 4000K	347 ⁹ 347 Volt		SVH Silver Hammertone
50K 5000K			CUST Custom Color, Consult Factory RALTBD Ral Paint finishes RALTBD for pricing only. Replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options

*Required

OPTIONS

Emergency ¹⁰	
EMB310 ¹¹	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). 1000 lumens
EMB310ST ¹¹	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens
EMB10ST ¹¹	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 Standards. 1000 lumens
EMB310T20 ¹¹	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 standards. 1000 lumens
EMBDA ¹²	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes. 0°C to +55°C (32°F to 131°F)
EMB20R ^{13,15}	Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0°C (32°F) to 45°C (113°F)
EMB125R ¹⁴	Remote inverter that will operate a maximum 125W load for 90 minutes. 20°C (68°F) to 30°C (86°F)
EMB250R ¹⁴	Remote inverter that will operate a 250W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F)

Back Box	Fusing	Photocell	Sensors ¹⁹	Hardware
AB Aluminum surface back box	GLR ¹⁵ Fuse and Fuse Holder	PC ¹⁵ Photoelectric Switch	PIR ^{16,17} Occupancy sensor. Maximum coverage of 10' radius from 8' height PIR50 ^{16,17,18} Passive infrared sensor mounted in machine hole in end cap. 50% of LED's constantly on and 50% sensed on/off	PHSC Phillips Head screws instead of TORX® head

Ordering Notes

- See Size and Wattage Chart.
- 12IN with 347; Not available with MIN1.
- Not available with EMB10ST, EMB310, EMB310ST, EMB310T20.
- 36IN with 2DRV; Not available with PRD.
- Not available in 36IN with 2DRV and EMB10ST, EMB310, EMB310ST, and EMB310T20.
- Not available with 12IN.
- 24IN with 2DRV option; EMB10ST, EMB310, EMB310ST, or EMB310T20 cannot be used.
- 24IN with 2DRV; Only available with NODIM or MIN10.
- Not available with MIN10 in 24IN, 24IN, 36IN, or 72IN.
- Not available with 347.
- 24IN with EMB10ST, EMB310, EMB310ST, or EMB310T20; Not available with MIN1 or PRD.
- Only available in 72IN.
- Not available with wattage over 25W or PRD.
- Not available with MVOLT.
- Not available with MVOLT or 347.
- Not available with EMB20R, EMB125R, EMB250R.
- Not available with 12IN.
- PIR50 must include 2DRV.
- 24IN or 36IN with PIR or PIR50, Not available with Emergency.

Accessories: Order as separate catalog number

TXSD TORX® Screwdriver Bit
Initial shipment includes one (1) TXSD per fixture.

SIZE & WATTAGE CHART

Size	Wattage
12IN	10W
24IN	10W 20W
36IN	15W 30W
48IN	20W 35W
72IN	30W 55W

SIZE & LUMEN CHART (For PRD)

Size	Lumen Range
12IN	300LM - 800LM
24IN	300LM - 1700LM
36IN	500LM - 3200LM
48IN	800LM - 3900LM
72IN	1200LM - 6400LM

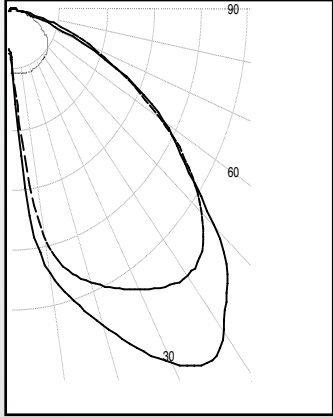
PHOTOMETRIC DATA

Model	Watts	Input Watts	Delivered Lumens				
			2700K	3000K	3500K	4000K	5000K
AEL 12IN	10W	10.8W	736	747	760	784	807
AEL 24IN	10W	9.4W	820	832	847	873	899
AEL 24IN	20W	17.6W	1535	1557	1585	1634	1682
AEL 36IN	15W	14.9W	1231	1248	1271	1310	1348
AEL 36IN	30W	26.3W	2954	2995	3049	3143	3237
AEL 48IN	20W	18.8W	1908	1935	1969	2030	2090
AEL 48IN	35W	35.2W	3568	3616	3682	3796	3909
AEL 72IN	30W	27.9W	3117	3162	3217	3317	3417
AEL 72IN	55W	52.2W	5830	5911	6017	6203	6389
AEL xx	PRD		Programmable Driver. Specify Lumens in Ordering Information, see Chart above.				

PHOTOMETRIC DATA

MODEL AEL 12IN 10W 40K DP

Delivered Lumens: 726 Lumens



Total Power: 10.8W

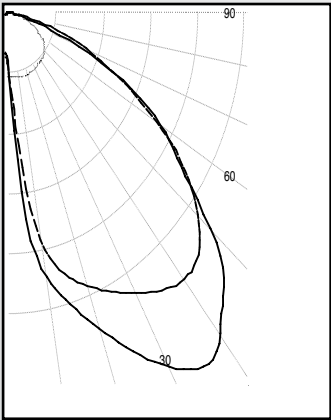
Zone	Lumens	% Lamps
0 - 30	153	21.1
0 - 40	287	39.5
0 - 60	585	80.6
60 - 90	726	100.0
0 - 90	439	60.5
90 -180	0	0.0
0 - 180	726	100.0

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

Bug Rating: B0U0G0

MODEL AEL 36IN 15W 40K DP

Delivered Lumens: 1652 Lumens



Total Power: 15.01W

Zone	Lumens	% Lamps
0 - 30	427	25.8
0 - 40	724	43.9
0 - 60	1350	81.7
60 - 90	302	18.3
0 - 90	1652	100.0
90 -180	0	0.0
0 - 180	1652	100.0

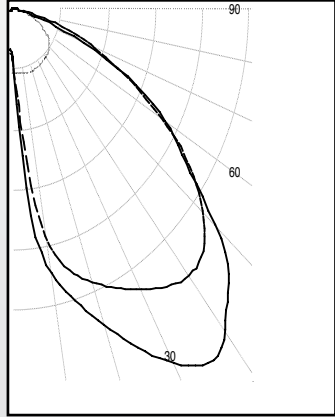
Testing was performed in accordance with IES LM-79-08

Bug Rating: B1U0G0

PHOTOMETRIC DATA

MODEL AEL 36IN 30W 40K DP

Delivered Lumens: 3141 Lumens



Total Power: 29.7W

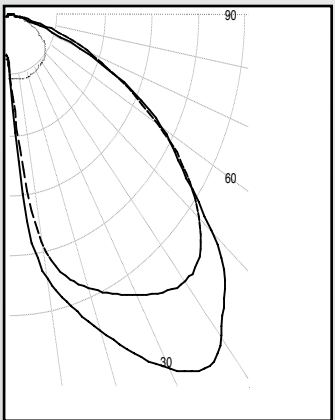
Testing was performed in accordance with IES LM-79-08

Bug Rating: B1U0G1

Zone	Lumens	% Lamps
0 - 30	821	26.1
0 - 40	1388	44.2
0 - 60	2575	88.0
60 - 90	566	18.0
0 - 90	3141	100.0
90 -180	0	0.0
0 - 180	3141	100.0

MODEL AEL 72IN 30W 40K DP

Delivered Lumens: 3072 Lumens



Total Power: 27.09W

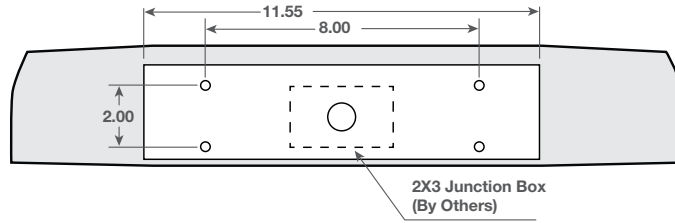
Testing was performed in accordance with IES LM-79-08

Bug Rating: B1U0G1

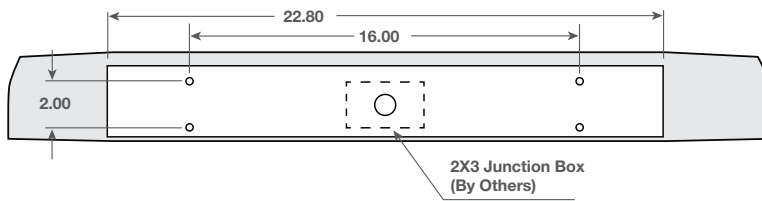
Zone	Lumens	% Lamps
0 - 30	771	25.1
0 - 40	1353	44.1
0 - 60	2529	82.3
60 - 90	3072	100.0
0 - 90	1718	17.7
90 -180	542	0.0
0 - 180	3072	100.0

MOUNTING PLATE DETAILS

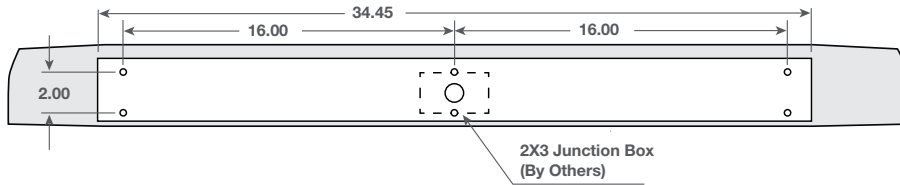
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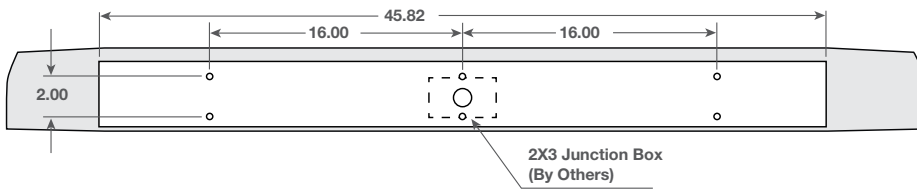
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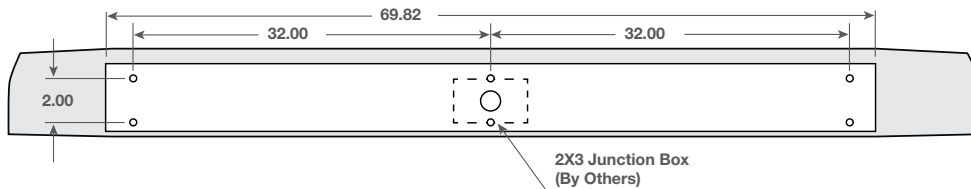
AEL 36



AEL 48



AEL 72



MOUNTING PLATE DETAILS

A/B Detail

	A	B	C
AEL 12 Back Box	20.80	5.20	1.50
AEL 24 Back Box	31.48	5.20	1.50
AEL 36 Back Box	43.30	5.20	1.50
AEL 48 Back Box	54.75	5.20	1.50
AEL 72 Back Box	78.75	5.20	1.50

