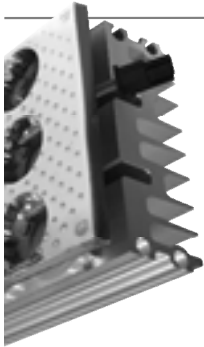


Alpine Series

The best built longest lasting low bay luminaires.

OVERVIEW



Extruded Heat Sinks
Outperform Castings



Thermally Isolated and
Heavily Ventilated
Power Supplies



Proprietary Optics
Aluminum Boards

Thermal Design determines product life.

The more dense the heat sink, the greater the thermal conductivity. Die cast heat sinks are porous and make poor thermal conductors. Using only extruded heat sinks and heavily ventilated plenum designs, the Cireon Alpine Series runs cooler to maintain output and minimize color shift greatly beyond die cast and enclosed designs.

Thermally managing the Power Supply.

Cireon power supplies never sit above the heat sink or in the midst of the LED arrays. And since they generate their own heat, power supplies should never sit in enclosed spaces to bake in their own heat. The Alpine's thermal capacity is the product of thermal isolation and a plenum design that delivers a fresh air exchange to all six sides of the power supply.

As every 10°C drop doubles power supply life, the Alpine doubles to quadruples the power supply life of poorly located and enclosed driver designs.

Proprietary Optics.

Two Alpine optics have been designed specifically for the two most common parking garage layouts. Sending as much as 64x the energy to the corners, the unmatched uniformity ensures security and safety.



Alpine 2 in Steel Grey



10 YEAR
70% Output
WARRANTY

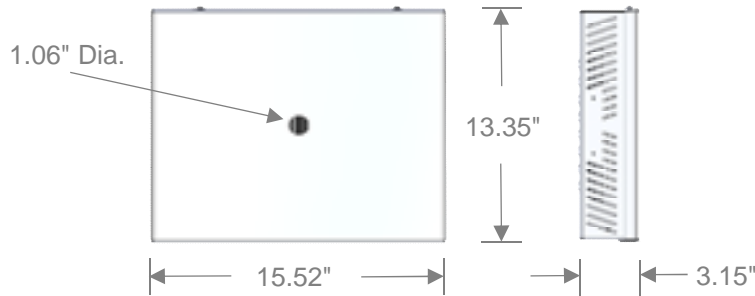


Example Part Number: AL2-048-AJ-AH-AG-WH-SF-WS

Family	CCT ⁽¹⁾	Driver	Optics	Housing	Mount	Sensor
AL1-024 24LEDs	-AG 5700K	-AH (350mA, 120-277V)	-AB 80°	-SG Steel Grey	-CC 8' Cord	-NS No Sensor
AL2-048 48LEDs	-AH 4000K	-AJ (525mA, 120-277V)	-AC 60°	-WH White	-TR Trunnion	
	-AJ 5000K	-AK (700mA, 120-277V)	-AF Type II	-CU Custom	-SF Flush, J-Box, Myers Hub	-WS With Sensor (specify sensor with Order)
	-CU Custom	-AL (700mA, 347-480V)	-AG Type V			
		-AM (530mA) 347-480V	-AL 120°		-CU Custom Mount	
		-AN (350mA, 347-480V)	-AN Type III			

For more information, contact:

MECHANICAL



Product: 3.15 x 13.35 x 15.52"
 Net Weight: 9.1 #'s
 Carton: 5.0 x 15.0 x 16.0"
 Gross Weight: 10.0 #'s

MATERIALS

All non-ferrous construction for ultimate corrosion resistance. Solid aluminum chassis, heat sinking, all stainless steel hardware.

Solid aluminum core circuit boards.

Polycarbonate reflectors and lenses provide excellent chemical resistance to maintain optical clarity over maximum life.

FINISHES

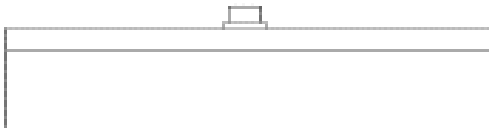
Powder Coating with triple-dip cleaning-etching process for maximum adhesion. Base pre-coat and multi-layer top coat for durability.

Anodized aluminum extrusions provide marine-grade corrosion protection.

Vacuum-metalized reflectors are highly resistant to yellowing over the product life.

MOUNTING OPTIONS

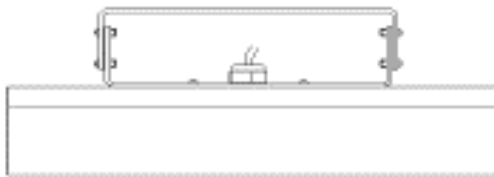
3/4" N.P.T. Myers Hub



Flush To J-Box or Ceiling



Trunnion Mount



Custom Mounts Available.

ELECTRICAL

UL/cUL Listed to UL 1598 and UL 8750.

Standard 4kVA surge suppression.
 Optional 10kVA surge suppression.

0-10V Dimming to 10%. Dim-to-off with optional sensors and wireless controls.

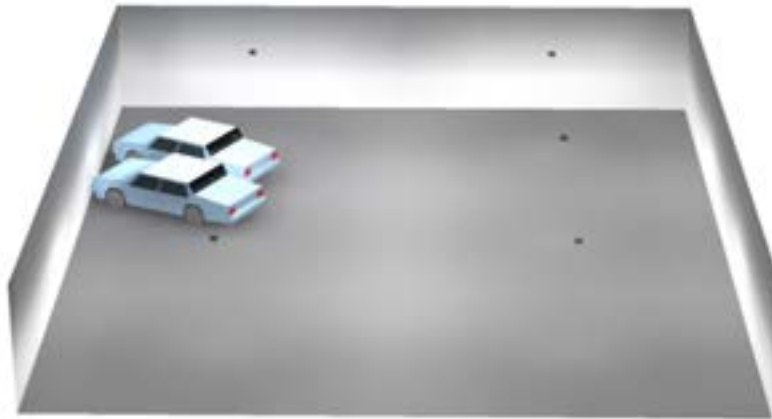
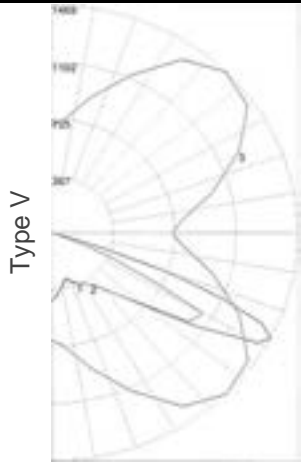
Operating temperature range:
 40°C/-40°F to 55°C/131°F
 Driver reduces power if case temperature exceeds 80°C/176°F

>0.9 power factor, <20% THD, RoHS

Class A Sound Rating.

Input Voltage: 120-277V or 347-480V

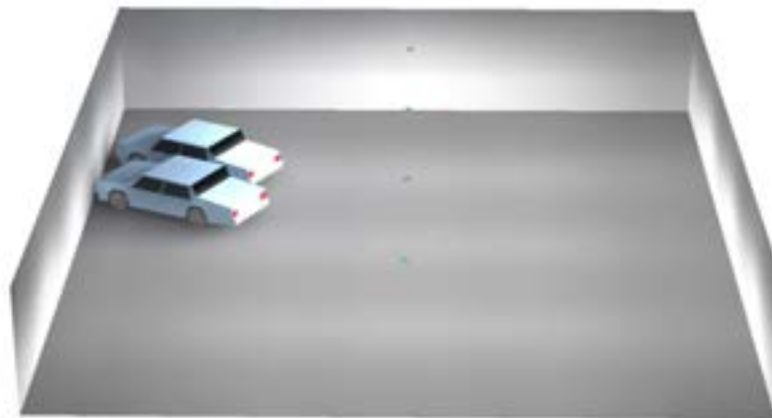
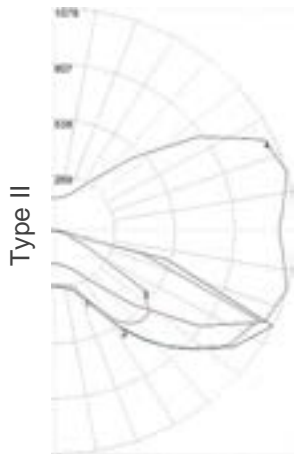
OPTICS



Common Parking Garage Layout A

Fixtures flanking drive aisle

Proprietary Type V optic delivers 64x the energy to the corners as straight down for ideal uniformity and vertical coverage to mid-wall.

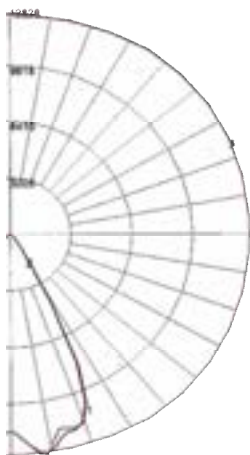


Common Parking Garage Layout B

Fixtures centered on drive aisle

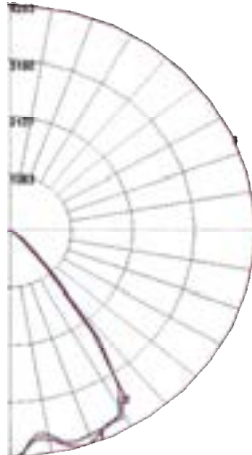
Proprietary Type II optic covers a 72' width from an 8' mounting height. Excellent uniformity and vertical/mid-wall coverage in a super wide optic.

ADDITIONAL OPTICS CHOICES



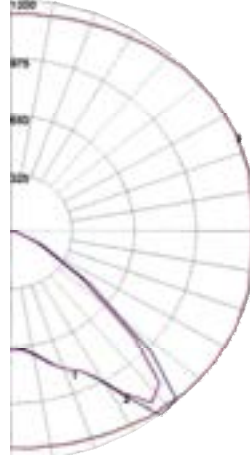
60 Degree

Tight fixture spacing, small coverage area, high mounting height.



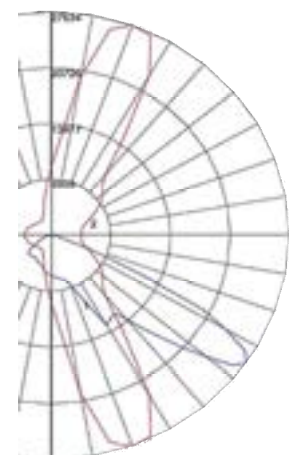
80 Degree

Replace 250W HID high bays with energy savings.



120 Degree

Low height with limited coverage requirement or Mid Bay coverage.



Type III

Forward throwing for wall mounts, highlighting and trespass prevention.

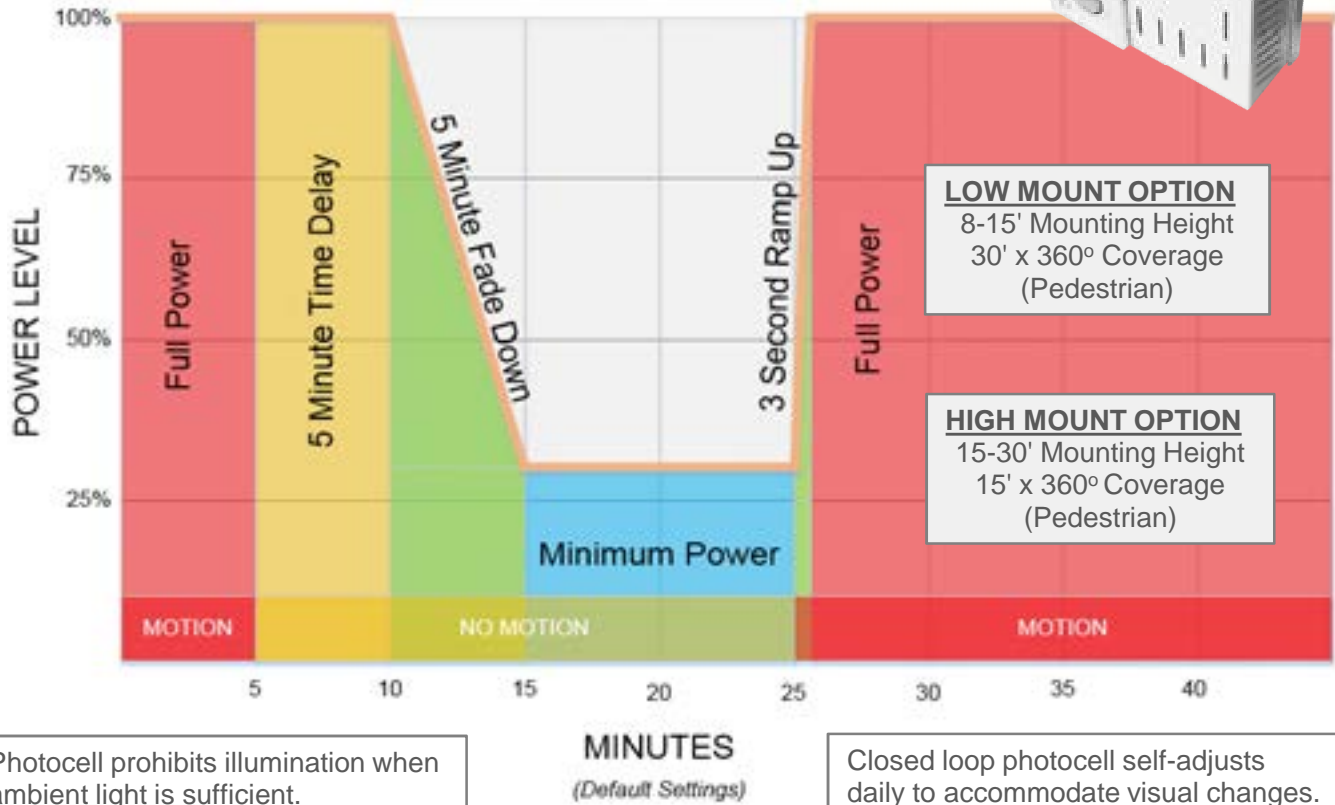
INTEGRAL SENSOR (Optional)

Alpine 1 in White

Motion and daylight based "ramping" style sensors soften the effect of changing light levels.

In the default settings, when no motion is detected in the 5 minute time delay, the unit dims over an additional 5 minutes (both times programmable) from high to low. The fade is virtually undetectable.

Ramp and Fade time and dimmed level can be changed in the field using the external pushbutton.



WIRELESS CONTROL (Optional)

- Individual and Group control from any WiFi device.
- On/Off/Dim of individual, group and multiple groups by schedule, assigned sensors and relative to astronomical clock.
- One-touch lighting scenes, customizable.
- Robust Mesh Communication on FCC-quarantined wavelength.
- No internet or subscription required.
- Easy to use, intuitive user interface.



CONFIGURATIONS

Total Watts	Model	Optic	Design Lumens			Service Load (Amps)				TM-21 Lifetime	
			4000K	5000K	5700K	120V	277V	347V	480V	L90	L70
26	1-3	-80	3,559	3,670	3,692	0.22	0.09	0.07	0.05	LED In Situ Case Temperature at these wattages is below the minimum case temperature reported for LM-80 of 55°C. Higher LED case temperatures reported below.	
		-60	3,289	3,391	3,411						
		-T2	3,168	3,266	3,286						
		-T5	3,203	3,303	3,323						
		-120	3,346	3,450	3,470						
		-T3	3,132	3,229	3,249						
40	1-5	-80	5,038	5,195	5,226	0.33	0.14	0.12	0.08		
		-60	4,655	4,800	4,829						
		-T2	4,484	4,623	4,651						
		-T5	4,534	4,675	4,703						
		-120	4,736	4,883	4,912						
		-T3	4,433	4,571	4,599						
52	1-7	-80	6,293	6,489	6,528	0.43	0.19	0.15	0.11		
		-60	5,815	5,996	6,032						
		-T2	5,601	5,775	5,810						
		-T5	5,664	5,840	5,875						
		-120	5,915	6,100	6,136						
		-T3	5,538	5,710	5,745						
52	2-3	-80	7,118	7,340	7,384	0.43	0.19	0.15	0.11	L90 at 501,974 hours L70 at 1,784,578 hours	
		-60	6,577	6,782	6,823						
		-T2	6,335	6,532	6,572						
		-T5	6,406	6,606	6,646						
		-120	6,691	6,899	6,941						
		-T3	6,264	6,459	6,498						
78	2-5	-80	10,076	10,389	10,452	0.65	0.28	0.22	0.16	L90 at 1,092,749 hours L70 at 3,880,488 hours	
		-60	9,310	9,600	9,658						
		-T2	8,967	9,246	9,302						
		-T5	9,068	9,350	9,407						
		-120	9,471	9,766	9,825						
		-T3	8,867	9,143	9,198						
102	2-7	-80	12,586	12,978	13,056	0.85	0.37	0.29	0.21	L90 at 913,111 hours L70 at 3,292,558 hours	
		-60	11,629	11,991	12,064						
		-T2	11,202	11,550	11,620						
		-T5	11,327	11,680	11,750						
		-120	11,831	12,199	12,273						
		-T3	11,076	11,420	11,489						

All reported TM-21 calculations based upon LM-80 test results at 1000mA LED drive current.

Power Supply - In Situ Measurement Test Results of Alpine 2-5 (78W) show a 62.8°C case temperature in 25°C ambient. All case temperatures below 69.5°C exhibit >100,000 hour rated power supply life.