



Success Story

Professional Baseball Stadium (Norfolk Virginia-United States)

Client background

Harbor Park located in Norfolk, Virginia is the home of the Norfolk Tides, AAA Professional Baseball team, and affiliate of the Major League team Baltimore Orioles.

The stadium requires exceptional lighting to enhance the fan experience and to provide players with clear, natural lighting.

SONARAY™ 60 watt low bay lights have been installed in both the stadium's concourse area and batting cage to provide the stadium ownership with excellent energy savings. Fans and players enjoy better lighting, making for an even better ballpark experience for all involved.

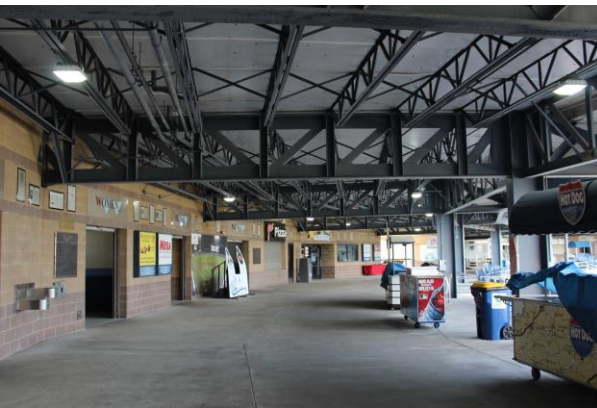
SONARAY Applicable Products:



Low Bay DELTA series



Client Requirement	Success
Energy Saving	✓
Excellent lighting for batting cages and concourse area	✓

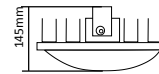
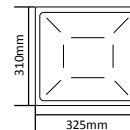


SONARAY Lighting Solution

Old Luminaire	Luminaire installed
 <p>Traditional Low Bay 175W Metal Halide Qty: 110 units</p>	 <p>Low Bay DELTA series 60W LED Qty: 110 units</p>

Low Bay DELTA series

Material: Aluminum
 Appearance Color: White
 Driver: Built-in
 Input Voltage: 100-277V ~ 50Hz
 Power Factor: ≥ 0.9
 Operating Temperature: -25°C~+45°C, -13°F~+113°F
 Lifetime: ≥50,000hrs






IP65 IK07

Model	Power	Luminous Flux	Luminous Efficacy	CCT	CRI	Beam Angle	Weight
	(W)	(lm)	(lm/W)	(K)	(Ra)	(°)	(kg/lb)
LW-1060	60	5400	90	6000	80	120	3.2/7.05

Client Benefits

1. More than 65% in Energy Savings and long lifetime

Compared to traditional metal halide luminaires, SONARAY™ low bay lights are projected to enhance performance and deliver approximately 6.5 times the life of the metal halides, while maintaining 70% of original lumen performance. The low bay lights consume approximately 1/3 of the energy of the metal halides, resulting in exceptional cost savings.

2. Improvement of the Average Lighting Level for fans and players

Since more than 5,000 fans typically frequent Harbor Park at each game, safety is a prime reason for great lighting. SONARAY™ lighting in the concourse area gives fans clear and ample light to navigate to concessions and within the stadium.

Exceptional lighting is extremely important to players who take practice swings in preparation for games. The 60 watt SONARAY™ low bays give players unmatched clarity and allow them to see the baseball well as they hone their skills and seek to prepare for live pitching in the batting cage area.

3. Instant On and Restrike keeps players and fans safe with no downtime for warm up

Last season the Norfolk Tides entertained 358,000 people at their games – so far this year they have had 110,000 fans and are averaging just over 5,000 fans per game. Harbor Park opened in 1993 and is owned by the City of Norfolk, Virginia. The stadium seats just under 12,000 people, and was recognized in 1995 by Baseball America as the finest minor league park in America. The Norfolk Tides play in the International League, which is a AAA professional baseball league.