

**FIFTH
LIGHT**
25 YEAR
LIFE CYCLE
MAINTENANCE & ENERGY COSTS



fifthlight
technology

WITH TUBES THAT SEND
EMAILS WHEN THEY NEED
TO BE REPLACED & DALI
DIMMABLE BALLASTS
THAT HAVE THE LONGEST
WARRANTY IN THE BUSINESS,
FIFTH LIGHT'S SOLUTIONS
MINIMIZE YOUR ENERGY,
OPERATIONAL & MAINTENANCE COSTS OVER

25 YEARS

LIFE CYCLE COST 25 YEAR MAINTENANCE & ENERGY DATA

THIS ANALYSIS COMPARES THE FIFTH LIGHT ADVANCED DALI DIMMING LIGHTING SOLUTION TO A NON-DIMMABLE SYSTEM WITH ON/OFF BREAKER CONTROL. THE ANALYSIS ASSUMES THAT THE AVERAGE ACTUAL LIFE OF THE BALLASTS IS 50% LONGER THAN THE WARRANTY PERIOD.

KEY PARAMETERS

Number of Fixtures: 5,000
 Fixture Type: 2-Lamp 32W T8
 Electricity Rate: \$ 0.12/kWh

POWER CONSUMPTION/FIXTURE

DALI Dimmable Ballast (Avg.): 40 W
 Non Dimmable Ballast: 60 W

ANNUAL OPERATING HOURS

DALI Dimmable Ballast (70 hrs/wk): 3,640 hrs
 Non Dimmable Ballast (126 hrs/wk): 6,570 hrs
 Lamp Life: 32,000 hrs

WARRANTY PERIOD

Fifth Light DALI Dimmable Ballast: 6 Years
 Non Dimmable Ballast: 5 Years

REPLACEMENT FREQUENCY

Fifth Light DALI Dimmable Ballast: Every 9.0 Years
 Non Dimmable Ballast: Every 7.5 Years
 Tubes (with Fifth Light DALI Dimmable Ballast): Every 9.0 Years
 Tubes (with Non Dimmable Ballasts): Every 4.7 Years

REPLACEMENT COST/FIXTURE (PARTS & LABOUR)

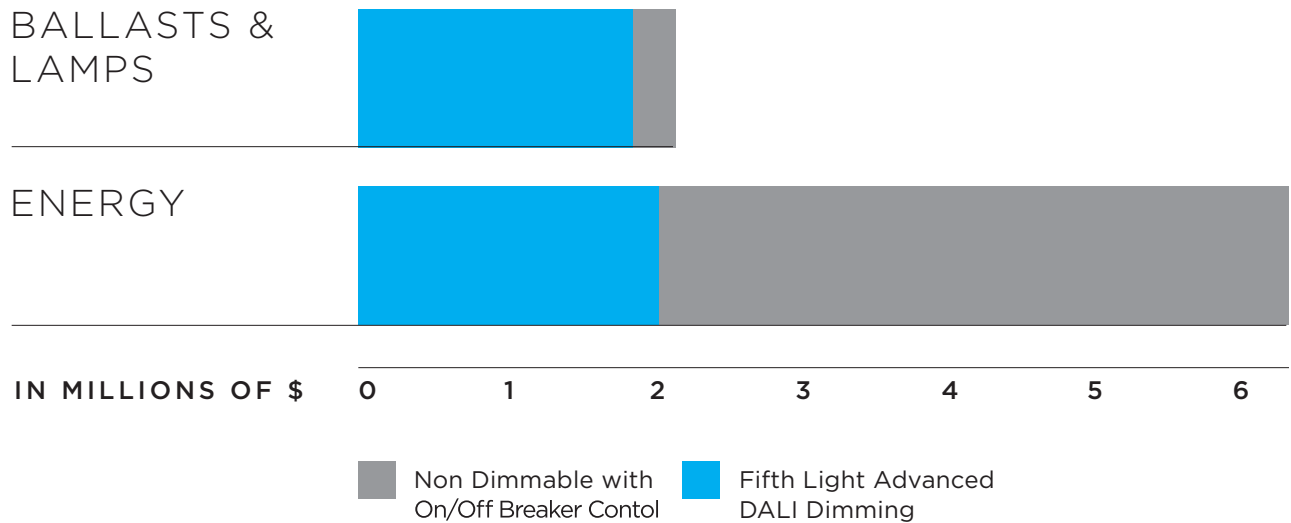
DALI Dimmable Ballast & Tubes: \$ 100
 Non Dimmable Ballast & Tubes: \$ 75
 Tubes Only: \$ 25

25 YEAR LIFE CYCLE COST

THE FIGURES PRESENTED BELOW INCLUDE ALL OF THE INITIAL INSTALLATION COSTS, ALL LAMP AND BALLAST REPLACEMENT COSTS AND THE PROJECTED ENERGY COSTS OVER 25 YEARS.

	A FIFTH LIGHT ADVANCED DALI DIMMING	B NON DIMMABLE WITH ON/OFF BREAKER CONTROL
Ballast & Lamps	\$ 1,875,000	\$ 2,000,000
Energy	\$ 2,184,000	\$ 6,149,000
Total	\$ 4,059,000	\$ 8,149,520

25 YEAR LIFE CYCLE COST



BALLAST WARRANTY

With an industry leading warranty of 6 years, and extended warranties available, Fifth Light's DALI dimmable ballasts are built for the long term.

Over a 25 year life cycle, Fifth Light DALI dimmable ballasts will reduce the total number of ballast replacements.

ENERGY SAVINGS

By employing effective energy management strategies, such as daylight harvesting, occupancy detection, smart scheduling and dynamic off hour access, Fifth Light's Solutions can minimize the total annual operating hours of the lighting system. This results in significant energy conservation and in the reduction of the frequency of re-lamping.

TUBE REPLACEMENT

Effective management of the operating hours of the lighting system reduces the rate of lamp replacement and minimizes 25 year maintenance costs.

Fifth Light DALI dimmable ballasts are equipped with sophisticated lamp start technology that ensures lamps are operated in the ideal temperature range during pre-heat, ignition and dimming operation. Lamps running with Fifth Light ballasts can be switched on and off 200,000 times with no deterioration.

With Fifth Light's automatic tube fault detection technology, service personnel are automatically notified when tubes need to be replaced. This technology guarantees that the response time is immediate and there is minimal disruption to the workplace.