

RWS-Hi-Lo Controls Radius Wrap

Hi-Lo Controls aren't just for Hi-Bays. P2's Radius Wrap Hi-Lo approach will help you create projects.

- The RWS drives excellent paybacks while providing an aesthetic upgrade.
- Stairwells. A 50 floor Hi-Rise can have as many as 600 stairwell fixtures.
- Multi-Deck parking structures. Take advantage of run time reductions without putting the facility in the dark.
- A low wattage F17 lamp in each 4' section is constantly on to provide base light levels at all times.
- Primary F32 lamps are controlled by an occupancy sensor and shut off during times of inactivity.

Why P2? It's Simple, Our Relighting Experience.

- On-off controls for stairwells and multi-deck parking structures have long been overlooked due to security concerns.
- We applied Hi-Lo controls techniques developed around Hi-bay applications to create responsible new opportunities and help you deliver more savings to your customers.

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Consider

- Hi-Lo systems can enhance safety in public parking structures. It is difficult to lurk in a parking deck when motion causes sleeping fixtures to illuminate.
- Controls in stairwells were once off limits. Today most AHJ's welcome the use of Hi-Lo controls in stairwells

RWS-1x4-2L-T8-UL1-MP-IS-ST-EH-SL2

RWS	1x4	2L	T8	UL1	MP	IS	ST	EH	SL2		
Fixture Series	Fixt Size	Lamp Qty	Lamp Type	Volts	Ballast Factor	Ballast Starting	T8 Ballast Grade	Sensor Mount	Sensor Type	Cord Plug	Other

Fixture Series (1)

RWS = Hi-Lo Radial Wrap

Fixture Size

1x4 = 1x4 Nominal
1x8 = 1x8 Nominal

Lamp Qty (2)

1L = One Lamp
2L = Two Lamps
3L = Three Lamps (NCL only)
4L = Four Lamps (1x8 only)
6L = Six Lamps (NCL 1x8 only)

Lamp Type

T8 = Linear T8 Lamps

Voltage (2)

UL1 = 1 Universal 120-277 Ballast
UL2 = 2 Universal 120-277 Ballasts

Ballast Factor (2)

LP = Low Power (.75 - .78)
MP = Mid Power (.85 - .88)
HP = High Power (1.15 - 1.20)

Ballast Starting Method (2)

PS = Programmed Start
IS = Instant Start

T8 Ballast Grade (2)

ST = Standard Grade
UE = Ultra Efficient T8

Sensor Mount Options

EM = End Mount Sensor
SM = Side Mount Sensor
IM = Internal Mount Sensor (3)
EH = Extended Housing Sensor Mount

Sensor Type (4)

SLx = Standard 360 View Lo-Bay
USx = Ultra Sonic 360 View

Cord & Plug

C8 = 8' Cord, No Plug
C8/L715 = 8' Cord & Plug (L7-15P)
PQC15 = 15' Cord/Quick Connect

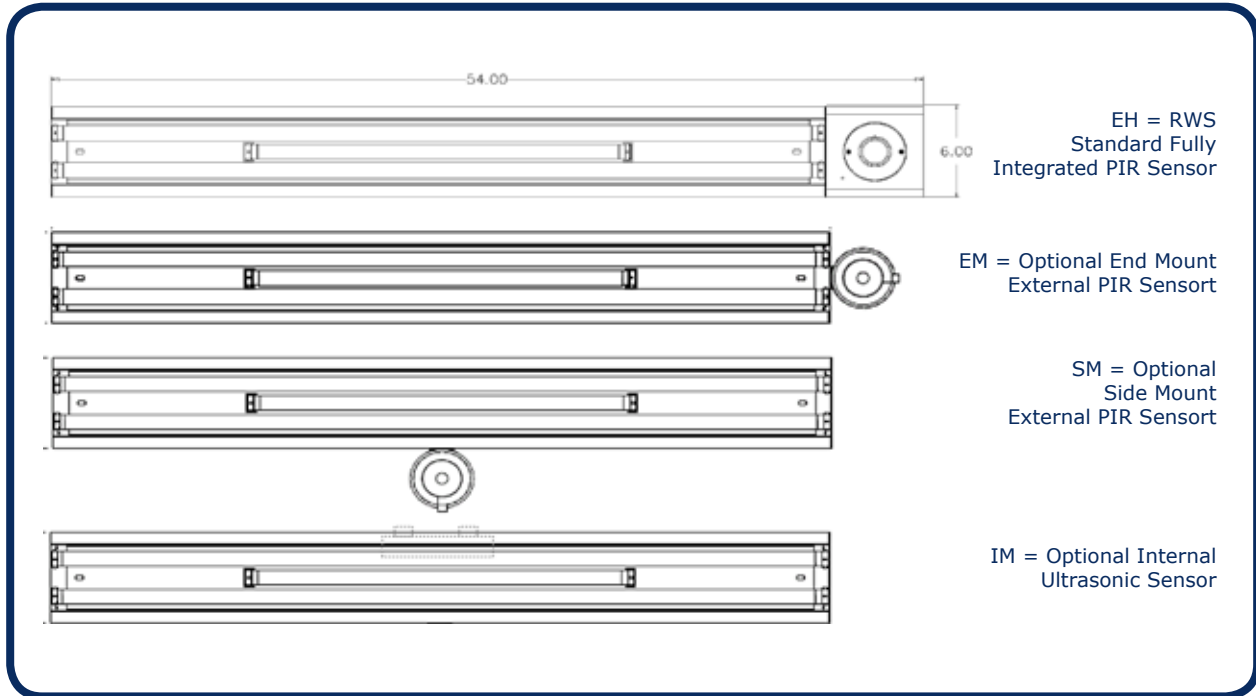
Other Options

NCL = No Center F17 Lamp (5)

Numeric Footnotes

- (1) Standard RWS configuration includes an F17 Default Center Lamp (DCL) in each 4' section driven by a T8-IS-LP Ballast.
- (2) Configurator lamp and ballast callouts refer to the 4' lamps only. The Default Center Lamp (DCL) and Ballast are automatic.
- (3) IM mounting used for USx Ultrasonic sensor option only.
- (4) Numeral (x) indicates number of lamps controlled by sensor.
- (5) NCL eliminates the constant on center lamps. Use this designation when ordering 8' RWS with Hi-Lo controlling 4' lamps.

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Existing Systems

Existing Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L32-T8-MP Elec	2 F32T8/741	2,660	5,320	0.87	4,628	58	80
2L40-T12 Mag	2 F40/T12/WM	2,280	4,560	0.88	4,013	72	56
3L40-T12 Mag	3 F40/T12/WM	2,280	6,840	0.88	6,019	115	52

Re-Lighting Options

Proposed Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
1L17-T8-LP Elec - Constant On	1 F32T8/841	1,300	1,300	0.80	1,040	16	65
2L32-T8-LP Elec - Controlled	2 F32T8/841	2,800	5,600	0.77	4,312	48	90
2L32-T8-MP Elec - Controlled	2 F32T8/841	2,800	5,600	0.87	4,872	53	92

Hi-Lo Energy Savings Illustration

Existing Fixture

- A) 2LF32 T8/MP Elec Ballast
- B) 2LF40 T12/WM Magnetic Ballast
- C) 3LF40 T12/WM Magnetic Ballast

System Watts

58
72
115

Annual Hours

8760
8760
8760

Annual kWh

508
631
1007

RWS Hi-Lo Wrap

- 1LF17 T8 - LP Electronic Ballast
- Plus

System Watts

16

Annual Hours

8760

Annual kWh

140

2LF32 T8 - MP Electronic Ballast

- RWS) Average Hi-Lo System Watts

53

260

14

18

8760

154

Annual Savings

Hi-Lo Energy Savings Recap

- RWS Savings Relative to System-A
- RWS Savings Relative to System-B
- RWS Savings Relative to System-C

Annual kWh Saved

354
477
853

kWh Cost

0.095
0.115
0.135
0.155

System A

\$33.64
\$40.73
\$47.81
\$54.89

System B

\$45.29
\$54.83
\$64.37
\$73.90

System C

\$81.08
\$98.15
\$115.22
\$132.29

