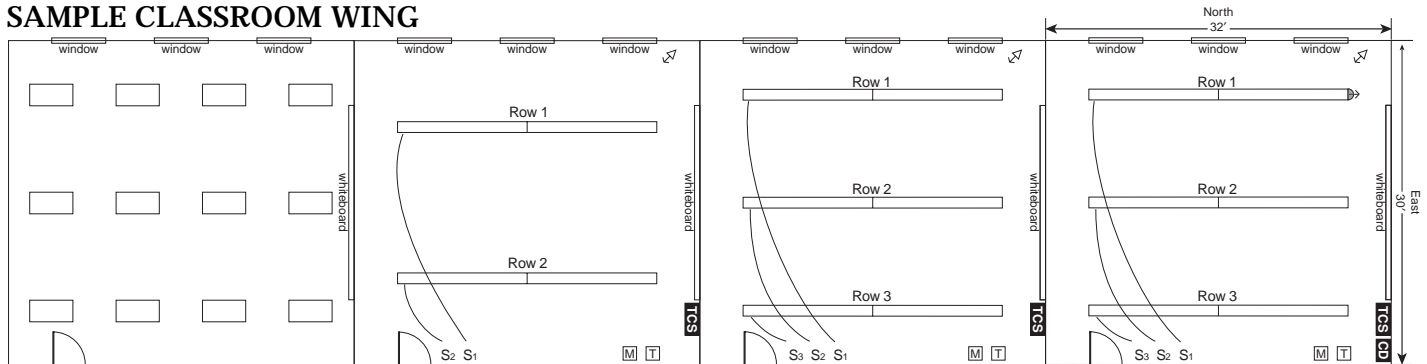


SAMPLE CLASSROOM WING



Base Classroom

- 12-2x4 Parabolics
- 3T8 Cross Section

“Good” Classroom

- 2-24’ Rows
- S10 3T8 direct/indirect fixtures
- Parabolic Louvers (PLV)
- CCO (Controlled Center Optics) option
- Dual Control Technology Occupancy Sensor
- Two year system warranty including lamps
- Teacher Control Switch to change fixture operation from a 2-light Direct/Indirect fixture optimized for general illumination to a 1-light direct fixture for note-taking during A/V presentations.
- **High ballast factor ballasts**
.70 w/sq ft - 2 light operation
.35 w/sq ft - 1 light operation

“Better” Classroom

- 3-24’ Rows
- S10 3T8 direct/indirect fixtures
- Parabolic Louvers (PLV)
- CCO (Controlled Center Optics) option
- Dual Control Technology Occupancy Sensor
- Two year system warranty including lamps
- Teacher Control Switch to change fixture operation from a 2-light Direct/Indirect fixture optimized for general illumination to a 1-light direct fixture for note-taking during A/V presentations.
- **Low ballast factor ballasts**
.92 w/sq ft - 2 light operation
.46 w/sq ft - 1 light operation

“Best” Classroom

- 3-24’ Rows
- S10 3T8 direct/indirect fixtures
- Parabolic Louvers (PLV)
- CCO (Controlled Center Optics) option
- Dual Control Technology Occupancy Sensor
- Two year system warranty including lamps
- Teacher Control Switch to change fixture operation from a 2-light Direct/Indirect fixture optimized for general illumination to a 1-light direct fixture for note-taking during A/V presentations.
- **Low ballast factor ballasts**
.92 w/sq ft - 2 light operation
.46 w/sq ft - 1 light operation

PLUS

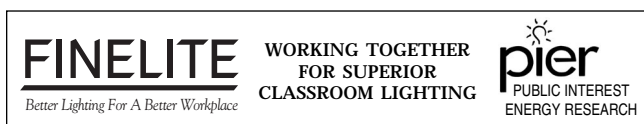
- Automatic ON/OFF switching of one or more rows based upon daylight levels.

PLUS

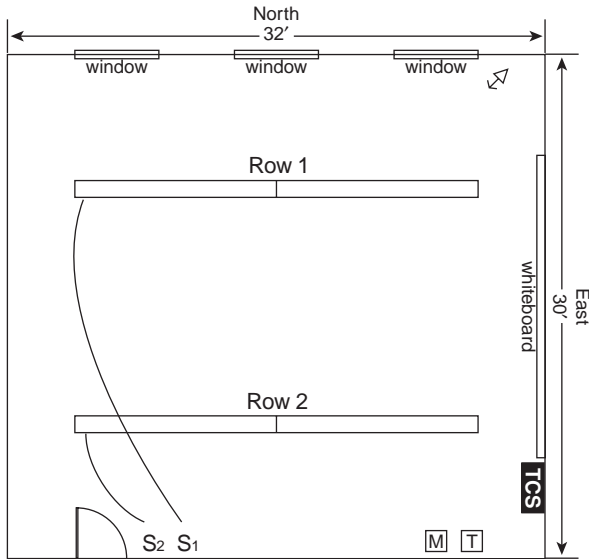
- Teacher controlled dimming of center lamp.

OBJECTIVES

1. Install three classrooms at 4-6 school sites.
2. Develop and implement pre- and post-installation study.
3. Monitor energy usage at each installation.



Finelite Classroom Lighting Alternative Good



DIRECT-INDIRECT LIGHTING SYSTEM* WITH OCCUPANCY CONTROL

2 - 24' Rows, 14' Row Centers

*S10-PLV - Direct/Indirect 3T8 CCO option with High Ballast factor electronic T8 ballasts.

LEGEND

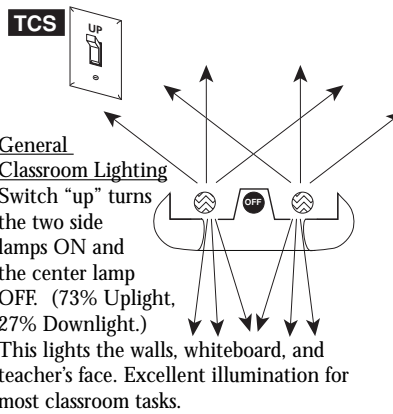
OCCUPANCY CONTROL

Automatically cuts power to all rows when room is vacated. Factory pre-set so that after 12* minutes of non-occupancy all rows automatically turn OFF.

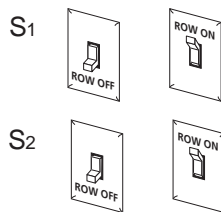
When room is re-occupied power is re-connected. Lights resume last settings used by Row Switches and TCS switch.

*Can be re-set for 2-60 minutes.

TEACHER CONTROL SWITCH

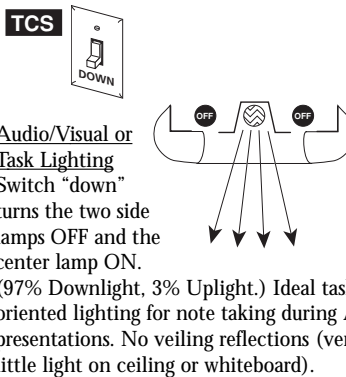


ROW SWITCHING



Manual Off/On control turns each row of lights OFF or ON independently.

- Use when vacating room.
- Use for manual daylight switching.



NOTE: For energy management purposes the 3T8 lamps CANNOT be all-ON at the same time.

T TEACHER CARE AND USE BOOK

M MAINTENANCE MANUAL

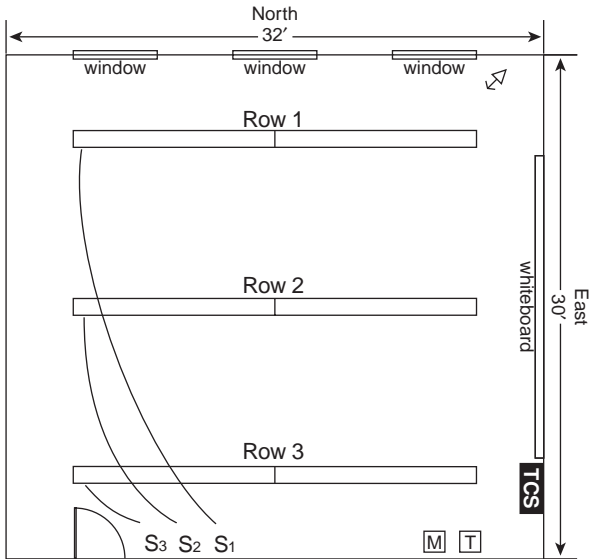
FINELITE
Better Lighting For A Better Workplace

WORKING TOGETHER
FOR SUPERIOR
CLASSROOM LIGHTING

PIER
PUBLIC INTEREST
ENERGY RESEARCH

Finelite Classroom Lighting Alternative

Better



DIRECT-INDIRECT LIGHTING SYSTEM* WITH OCCUPANCY CONTROL

3 - 24' Rows, 10' Row Centers

*S10-PLV - Direct/Indirect 3T8 CCO option
with Low Ballast factor electronic T8 ballasts.

LEGEND

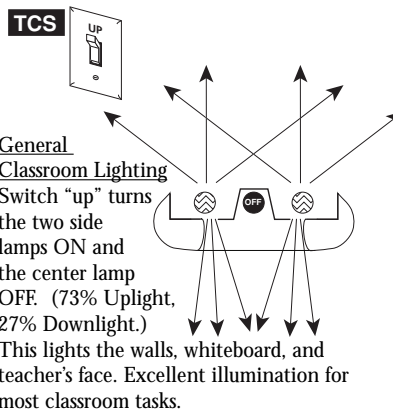
OCCUPANCY CONTROL

Automatically cuts power to all rows when room is vacated. Factory pre-set so that after 12* minutes of non-occupancy all rows automatically turn OFF.

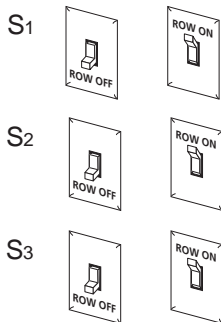
When room is re-occupied power is re-connected. Lights resume last settings used by Row Switches and TCS switch.

*Can be re-set for 2-60 minutes.

TEACHER CONTROL SWITCH

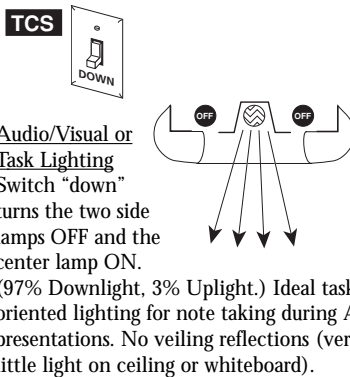


ROW SWITCHING



Manual Off/On control turns each row of lights OFF or ON independently.

- Use when vacating room.
- Use for manual daylight switching.



NOTE: For energy management purposes the 3T8 lamps CANNOT be all-ON at the same time.

T TEACHER CARE AND USE BOOK

M MAINTENANCE MANUAL

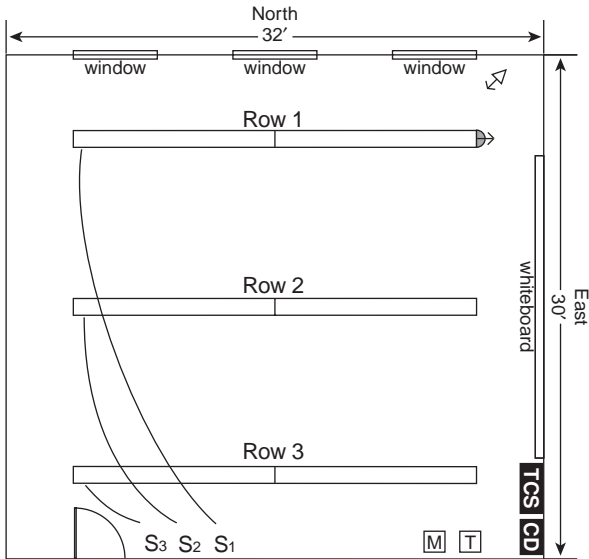
FINELITE
Better Lighting For A Better Workplace

WORKING TOGETHER
FOR SUPERIOR
CLASSROOM LIGHTING

PIER
PUBLIC INTEREST
ENERGY RESEARCH

Finelite Classroom Lighting Alternative

Best 3 Row



DIRECT-INDIRECT LIGHTING SYSTEM* WITH OCCUPANCY CONTROL DAYLIGHT CONTROL DIMMING

3 - 24' Rows, 10' Row Centers

*S10-PLV - Direct/Indirect 3T8 CCO option with Low Ballast factor electronic T8 ballasts.

LEGEND

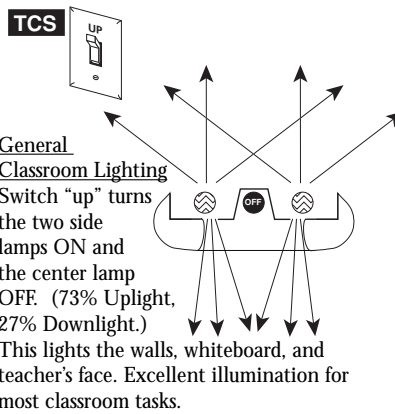
OCCUPANCY CONTROL

Automatically cuts power to all rows when room is vacated. Factory pre-set so that after 12* minutes of non-occupancy all rows automatically turn OFF.

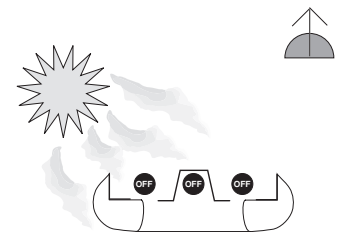
When room is re-occupied power is re-connected. Lights resume last settings used by Row Switches and TCS switch.

*Can be re-set for 2-60 minutes.

TEACHER CONTROL SWITCH

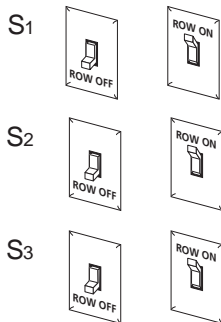


DAYLIGHT CONTROL



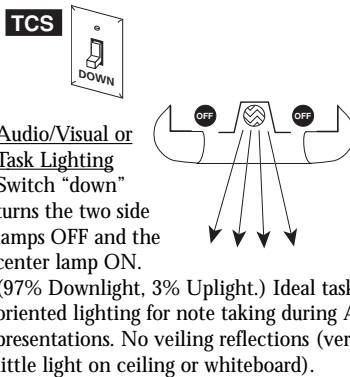
Daylight sensor turns one or more rows OFF when daylight coming into the room is sufficient to maintain desired light levels.

ROW SWITCHING



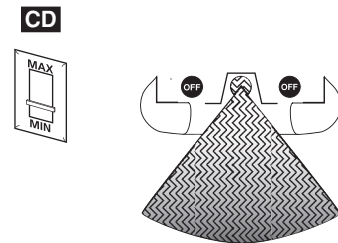
Manual Off/On control turns each row of lights OFF or ON independently.

- Use when vacating room.
- Use for manual daylight switching.



NOTE: For energy management purposes the 3T8 lamps CANNOT be all-ON at the same time.

CENTER LAMP DIMMING



Switch slides "up" and "down" dimming light from center lamp. (5% dimming ballasts are controlled by a 0-10 volt signal.)

T TEACHER CARE AND USE BOOK

M MAINTENANCE MANUAL

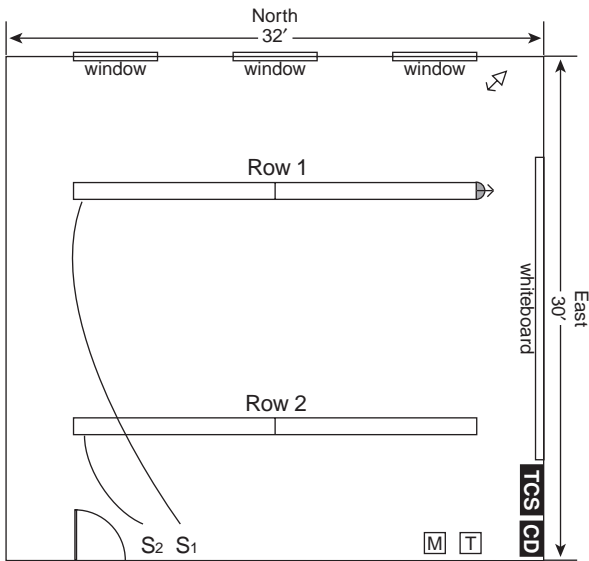
FINELITE
Better Lighting For A Better Workplace

WORKING TOGETHER
FOR SUPERIOR
CLASSROOM LIGHTING

PIER
PUBLIC INTEREST
ENERGY RESEARCH

Finelite Classroom Lighting Alternative

Best 2 Row



DIRECT-INDIRECT LIGHTING SYSTEM* WITH OCCUPANCY CONTROL DAYLIGHT CONTROL DIMMING

2 - 24' Rows, 14' Row Centers

*S10-PLV - Direct/Indirect 3T8 CCO option with Low Ballast factor electronic T8 ballasts.

LEGEND

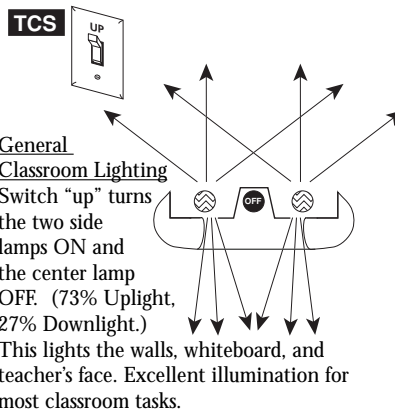
OCCUPANCY CONTROL

Automatically cuts power to all rows when room is vacated. Factory pre-set so that after 12* minutes of non-occupancy all rows automatically turn OFF.

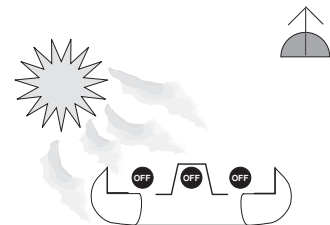
When room is re-occupied power is re-connected. Lights resume last settings used by Row Switches and TCS switch.

*Can be re-set for 2-60 minutes.

TEACHER CONTROL SWITCH

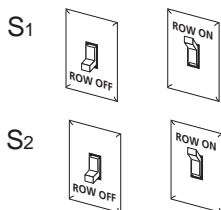


DAYLIGHT CONTROL



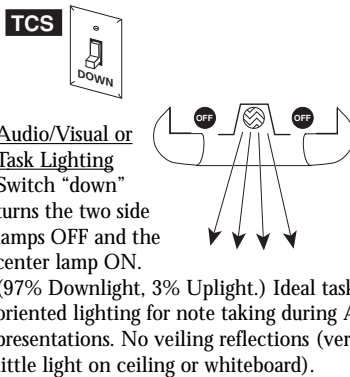
Daylight sensor turns one or more rows OFF when daylight coming into the room is sufficient to maintain desired light levels.

ROW SWITCHING



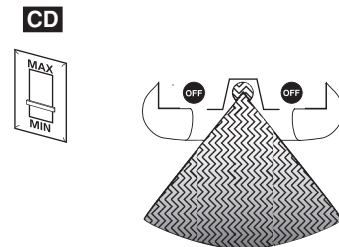
Manual Off/On control turns each row of lights OFF or ON independently.

- Use when vacating room.
- Use for manual daylight switching.



NOTE: For energy management purposes the 3T8 lamps CANNOT be all-ON at the same time.

CENTER LAMP DIMMING



Switch slides "up" and "down" dimming light from center lamp. (5% dimming ballasts are controlled by a 0-10 volt signal.)

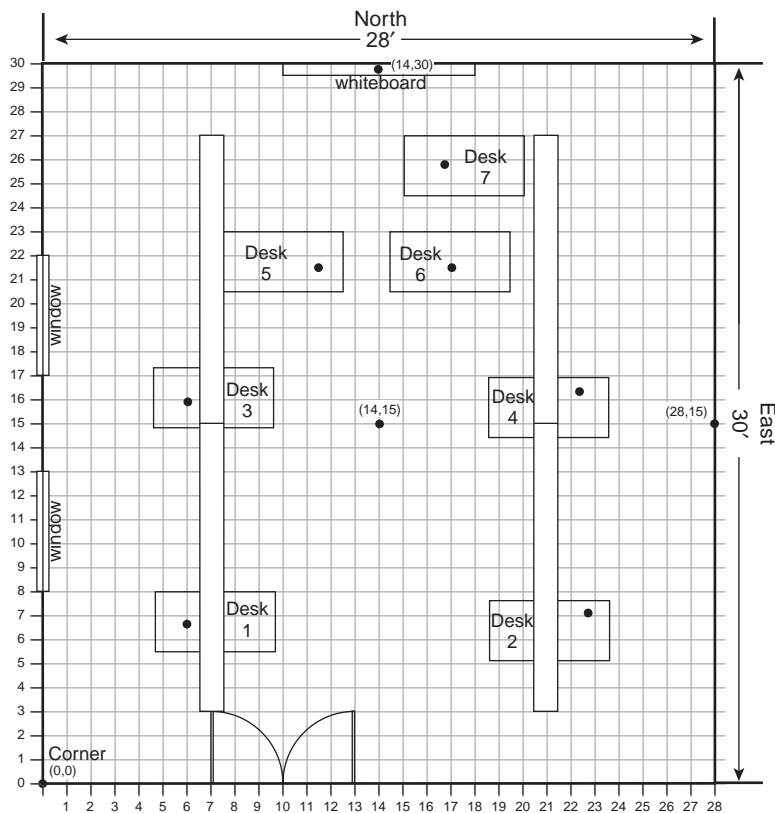
T TEACHER CARE AND USE BOOK

M MAINTENANCE MANUAL

FINELITE
Better Lighting For A Better Workplace

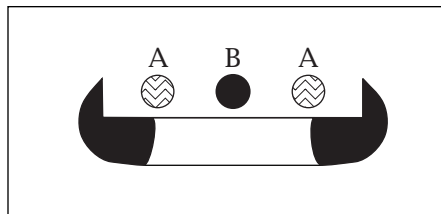
WORKING TOGETHER
FOR SUPERIOR
CLASSROOM LIGHTING

PIER
PUBLIC INTEREST
ENERGY RESEARCH



FINELITE EXAMPLE CLASSROOM LIGHT LEVELS

S10-PLV - Direct/Indirect 3T8



SWITCHES	TCS "UP" 2T8 73% ↑ 27% ↓	TCS "DOWN" 1T8 Dim Max	TCS "DOWN" 1T8 Dim Min
HORIZONTAL FC			
Center of Room	45.1fc	2.35fc	19.6fc
Desk 1	65.0fc	5.67fc	43.6fc
Desk 2	65.2fc	5.07fc	43.1fc
Desk 3	63.1fc	4.50fc	40.7fc
Desk 4	70.2fc	5.06fc	45.1fc
Desk 5	55.6fc	3.56fc	32.0fc
Desk 6	55.3fc	3.55fc	32.0fc
Desk 7 (Teacher)	50.3fc	3.03fc	29.2fc
Corner	24.7fc	<1fc	5.0fc
VERTICAL FC			
White Board	23.7fc	<1fc	5.0fc
East Wall	24.7fc	<1fc	6.52fc

ROOM SPECIFICATIONS

Dimension: 28'w, 30'l
 Ceiling Height: 9'11"
 Fixture Spacing: 14' On Center
 Fixtures: Two 24' rows
 Fixture: S10-PLV-3T8-CCO96

ENERGY USAGE


A ON 0.81 w/sqft
 B ON 0.41 w/sqft



FINELITE

Better Lighting For A Better Workplace

WORKING TOGETHER
FOR SUPERIOR
CLASSROOM LIGHTING



PUBLIC INTEREST
ENERGY RESEARCH