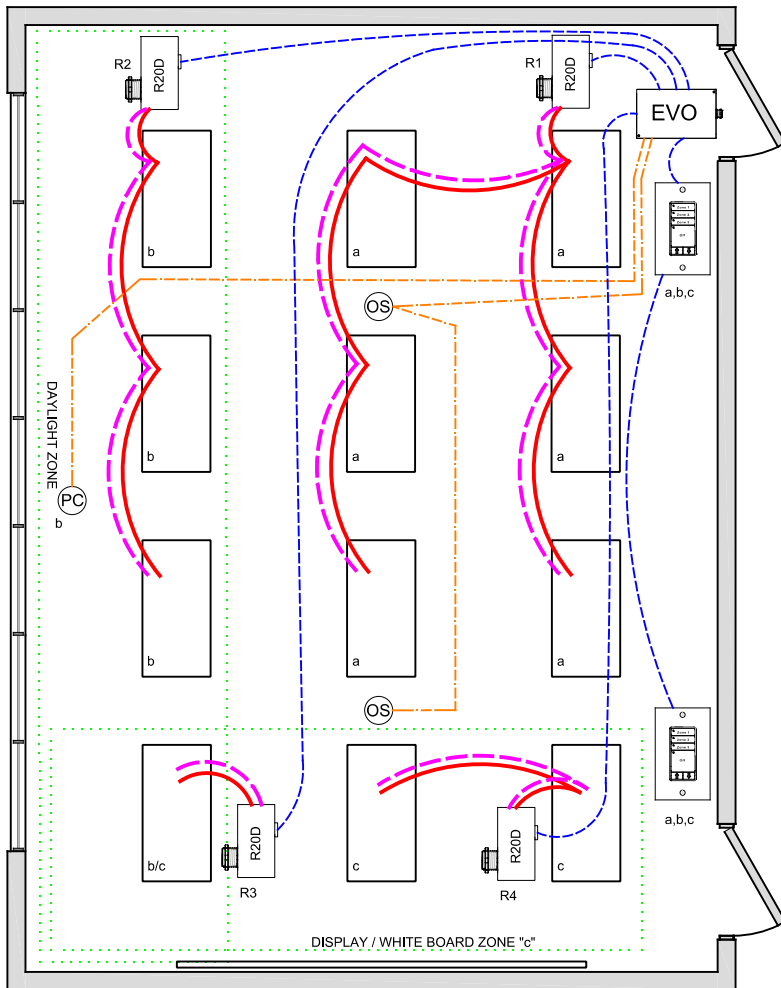


# CLASSROOM ASHRAE DESIGN GUIDE 90.1 - 2010



WIRE LEGEND	
	Line voltage
	0-10V Dimming
	CAT-5e Data cable
	3-Wire Occupancy Sensor or Photo Cell

Bill Of Material:		
Qt:	Product:	Description:
1	LL-EVO	EVO Controller
4	R20D	Remote 20Amp Dimming relay
2	LSG3-WH-3-MZD	LightSync G3 3-Zone dimming digital switch station.
1	PC-IND	Photo Cell - Indoor.
2	ILC-SWX-221-1	Occupancy sensor Ceiling Dual Tech - 500sf

LL-EVO Lighting Application: FA

### OVERVIEW:

Lighting zones are individually controlled with 0-10V dimming, programmable max/min levels, vacancy off, local digital control stations.

### SEQUENCE OF OPERATION:

Lights turn on at digital switch station.

Occupancy sensor input set for Vacancy-off control, can be changed to on/off with adjustable dimer start level per zone. Dimmer outputs provide smooth full range control.

Digital switch station provides individual zone on/off control and selectable zone dimming, plus dimming for all zones as one.

Photo cell monitors daylight and limits the maximum light level in the daylight zone, multiple zones can be controlled from one sensor with independent level settings for each.

### ADDITIONAL OPTIONS:

Up to 4-zones with single LL-EVO panel, additional EVO-4X, EVO-8X expansion panels available for up to 16 zones.

Additional LightSync switch stations as needed up to 32. Optional LightSync Touch Screen station with multi-zone relay and dimming control. LL-EVO control panel can connect to ILC network for building control.

Plug-load control from occupancy sensor relay or R20 relay from time clock for computer lab rooms.

Emergency lighting control bypass relay for UL-924 can be added as needed.

### CODE REQUIREMENTS SUPPORTED:

Auto-Off from Occupancy sensor  
Multi-Level Dimming control  
Multi-Level Daylight control  
Local Switch control w/dimming