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Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
<b>FAN ASSEMBLIES</b>				<b>LAMPS, BALLASTS, LED FIXTURES AND POWER SUPPLY</b>			
<b>8 Ft &amp; 12 Ft</b>				D.	Ballast, Electronic		(4)
A.	<b>7W Standard</b>	Fan Assembly	(1)	0480130	2 lamps (BA.4481676)		
	0058698	Fan Motor, Evaporator (MO.4410102)		0480131	3 lamps (BA.4481654)		
	0142780	Fan Blade (FB.0142780)		0480132	4 lamps (BA.4481677)		
	<b>7W Energy Efficient</b>	Fan Assembly	(1)	E.	Fluorescent Lamp		(5)
	0477654	Fan Motor, Evaporator (MO.4410545)			<i>Replace with like fixtures</i>		
	0142780	Fan Blade (FB.0142780)		F.	0501213	Power Supply (EP.4481861)	(6)
<b>6 Ft Only</b>				G.	LED Shelf Fixture		(7)
A.	<b>4W Standard</b>	Fan Assembly	(1)		<i>Replace with like fixtures</i>		
	0392457	Fan Motor, Evaporator (MO.4410101)		H.	LED Canopy Fixture		(8)
	0382383	Fan Blade (FB.4780617)		0504422	3 foot <b>2900K</b> Front (BU.4441053)		
	<b>4W Energy Efficient</b>	Fan Assembly	(1)	0504424	3 foot <b>3500K</b> Front (BU.4441055)		
	0477653	Fan Motor, Evaporator (MO.4410544)		0504426	3 foot <b>4100K</b> Front (BU.4441057)		
	0382383	Fan Blade (FB.4780617)		0504423	3 foot <b>2900K</b> Rear (BU.4441054)		
				0504425	3 foot <b>3500K</b> Rear (BU.4441056)		
				0504427	3 foot <b>4100K</b> Rear (BU.4441058)		
				0504428	4 foot <b>2900K</b> Front (BU.4441059)		
				0504430	4 foot <b>3500K</b> Front (BU.4441061)		
				0504432	4 foot <b>4100K</b> Front (BU.4441063)		
				0504429	4 foot <b>2900K</b> Rear (BU.444.1060)		
				0504431	4 foot <b>3500K</b> Rear (BU.4441062)		
				0504433	4 foot <b>4100K</b> Rear (BU.4441064)		
<b>THERMOSTATS</b>							
B.	Optional Adjustable Refrigeration Thermostat		(2)				
<b>HEATERS</b>							
C.	Canopy Anti-Sweat Heater		(3)				
	0488621	4 ft (HE.4850616)					
	0488622	6 ft (HE.4850617)					
	0488623	8 ft (HE.4850618)					
	0488624	12 ft (HE.4850619)					

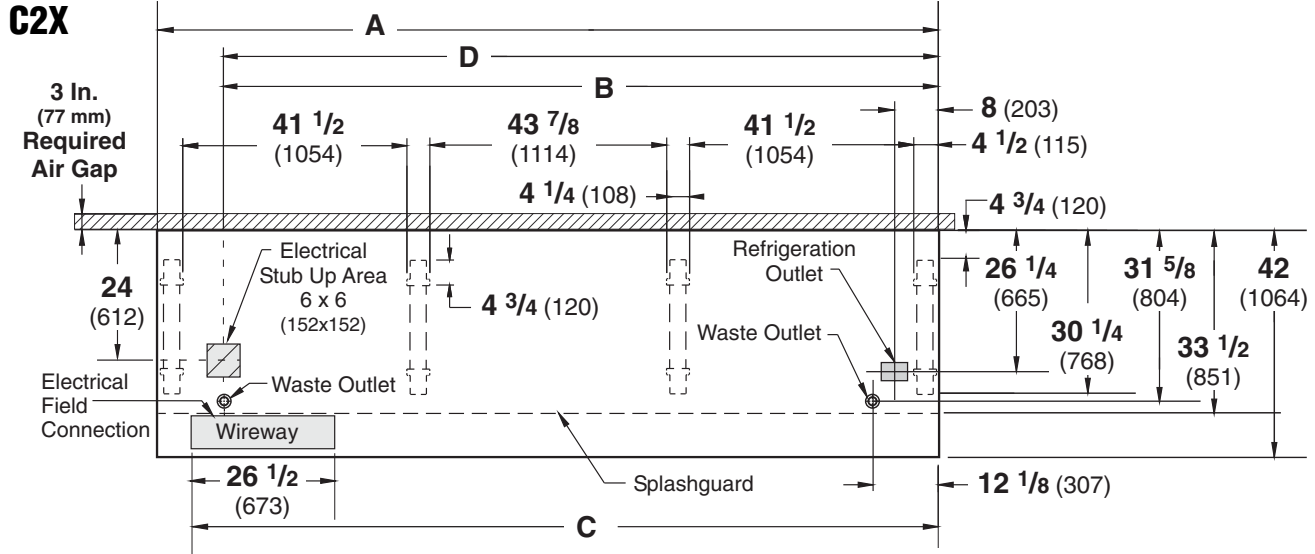
Note: Revision H removes 4 Ft and 10 Ft data and adds optional LED canopy lighting (Pages 1, 4, 9).

# Engineering Plan Views

PHYSICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	3/8
Merchandiser Suction Line (in.)	7/8





**Dairy/Delicatessen**  
**Precut & Packaged Produce**  
05-2006

Dimensions shown as inches and (mm).



**NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.**

**FRONT**

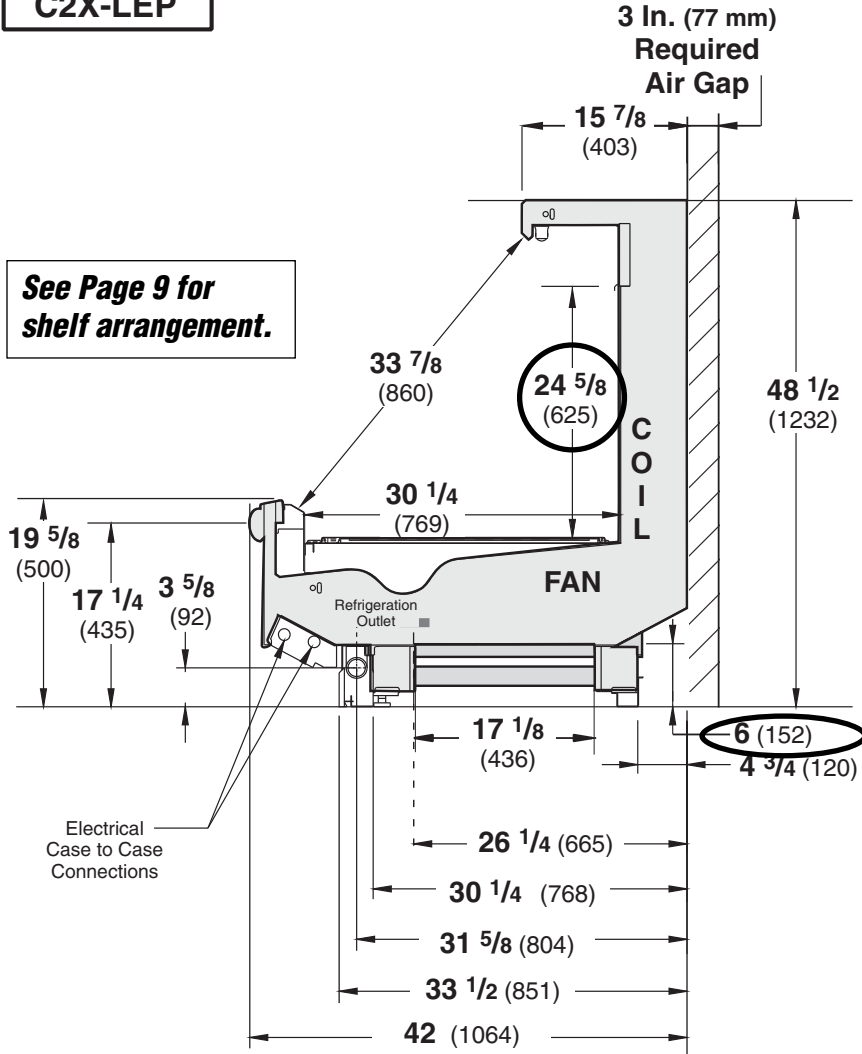
	6 ft	8 ft	12 ft
<b>General</b>			
<b>(A) Case Length (without ends or partitions)</b> <i>(Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)</i> Maximum O/S dimension of case back to front <i>(includes bumper)</i>	72 3/8 (1838)	96 3/8 (2448)	144 1/2 (3670)
Back of case to front of splashguard	42 (1064)	42 (1064)	42 (1064)
Back of case to O/S edge of front leg	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
Distance between edges of external legs and center legs	30 1/4 (768)	30 1/4 (768)	30 1/4 (768)
Distance between edges of center legs	29 1/2 (750)	41 1/2 (1054)	41 1/2 (1054)
Distance between front legs and splashguard	NA	NA	43 7/8 (1114)
	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)
<b>Electrical Service</b>  <i>(Electrical Field Wiring connection point)</i>			
<b>(B) RH End of case to center of stub up area</b>	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	24 (612)	24 (612)	24 (612)
Length of electrical wireway 	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
<b>(C) RH End of case to LH end of wireway</b>	66 1/8 (1680)	90 1/8 (2289)	138 1/4 (3511)
<b>Waste Outlets (One each end)</b> 			
<b>(D) RH End of case to the center of LH waste outlet</b>	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	31 5/8 (804)	31 5/8 (804)	31 5/8 (804)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
<b>Refrigeration Outlet</b> 			
Back of case to center of refrigeration outlet	26 1/4 (665)	26 1/4 (665)	26 1/4 (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)

Multi-deck, 3 Display Levels, Low Front, 48 In. Back

Dimensions shown as inches and (mm).

**C2X-LEP**

See Page 9 for shelf arrangement.



**Impact Excel C2X-LEP**  
**Dairy/Delicatessen**  
**Precut & Packaged Produce**

**REFRIGERATION DATA**

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

C2X-LEP	Dairy/Deli/Produce†	
	UNLIT	LIT
Discharge Air °F	33	31
Evaporator °F	28	26
Unit Sizing °F	26	24

†For red meat application, lower evaporator temperature and unit sizing 3°F, increase Btu 5%.

*Btu/hr/ft — Unlit Shelves*

C2X-LEP‡‡	Parallel	Conventional
UNLIT	655	680

‡‡ Add 10 Btu/hr/ft per shelf row for LED fixtures.  
 Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

**DEFROST DATA**

	C2X-LEP
Frequency (hr)	12
Defrost Water (lb/ft/day)	6

(±15% based on case configuration and product loading.)

	C2X-LEP
OFFTIME	
Time (minutes)	30

ELECTRIC OR GAS Not Recommended

**CONVENTIONAL CONTROLS**

**Low Pressure Backup Control**

C2X-LEP	Dairy/Deli/Produce††
CI/CO*	19/9°F

**Indoor Unit Only, Pressure Defrost**

Termination\* 48°F

\*Use a Temperature Pressure Chart to determine PSIG conversions.

††For red meat application, reduce low pressure backup control by 3°F.

Estimated Charge (lb)**	C2X-LEP
6 ft	1.9
8 ft	2.7
12 ft	3.9

\*\*This is an average for all refrigerant types.  
 Actual refrigerant charge may vary by approximately half a pound.

**NSF Certification**

This merchandiser model is manufactured to meet ANSI/NSF (National Sanitation Foundation) Standard #7 requirements for construction, materials & cleanability.

**Impact Excel C2X-LEP**  
**Dairy/Delicatessen**  
**Precut & Packaged Produce**

**Electrical Data**

			<b>6 ft</b>	<b>8 ft</b>	<b>12 ft</b>			
<b>Number of Fans—7W</b>			—	2	3			
<b>Number of Fans—4W</b>			2	—	—			
			<b>Amperes</b>			<b>Watts</b>		
			<b>6 ft</b>	<b>8 ft</b>	<b>12 ft</b>	<b>6 ft</b>	<b>8 ft</b>	<b>12 ft</b>
<b>Evaporator Fan</b>								
120V	60Hz	Standard	0.62	1.00	1.50	48	78	117
120V	50Hz	Standard	0.76	1.10	1.65	54	84	126
230V	60Hz	Export	0.30	0.50	0.75	48	78	117
230V	50Hz	Export	0.36	0.56	0.84	54	84	126
120V	60Hz	Energy Efficient	0.24	0.38	0.57	16	28	42
230V	60Hz	Energy Efficient	0.12	0.20	0.30	16	28	42
<b>Minimum Circuit Ampacity</b>								
120V	60Hz	Standard	0.82	1.20	1.70			
120V	50Hz	Standard	0.96	1.30	1.85			
230V	60Hz	Export	0.50	0.70	0.95			
230V	50Hz	Export	0.56	0.76	1.04			
120V	60Hz	Energy Efficient	0.44	0.58	0.77			
230V	60Hz	Energy Efficient	0.32	0.40	0.50			
<b>Maximum Over Current Protection 120V</b>			<b>20</b>	<b>20</b>	<b>20</b>			
<b>Maximum Over Current Protection 230V</b>			<b>15</b>	<b>15</b>	<b>15</b>			
<b>Anti-sweat Heaters</b>								
120V	50/60Hz	Standard	0.15	0.20	0.30	18	24	36
<b>Standard Lighting (T-8 Fluorescent)</b>								
1 Row Canopy			0.51	0.51	0.77	59	59	85
<b>Optional Lighting (T-8 Fluorescent)</b>								
Additional 1 Row Canopy			0.51	0.51	0.77	59	59	85
1 Row Rail Light			0.51	0.51	0.77	59	59	85
<b>Optional Shelf Lighting (T-8 Fluorescent)</b>								
2 Rows of Shelves			1.02	1.02	1.54	118	118	170
<b>Optional Always*Bright LED Canopy Lighting</b>								
2 Row Canopy			0.55	0.71	1.08	66	85	130
<b>Optional Always*Bright LED Shelf Lighting</b>								
2 Row of Shelves			0.34	0.47	0.67	41	56	80

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

**Product Data**

<i>Recommended Usable Cube</i> <sup>1</sup> (Cu Ft/Ft)	3.08 ft <sup>3</sup> /ft (0.29 m <sup>3</sup> /m)
<i>ARI Total Display Area</i> <sup>2</sup> (Sq Ft/Ft)	3.11 ft <sup>2</sup> /ft (0.95 m <sup>2</sup> /m)
<i>Shelf Area</i> <sup>3</sup> (Sq Ft/Ft)	5.04 ft <sup>2</sup> /ft (1.54 m <sup>2</sup> /m)

- <sup>1</sup> ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft<sup>3</sup>/ft [m<sup>3</sup>/m]
- <sup>2</sup> Computed using ARI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- <sup>3</sup> Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (1) row of 12-inch shelf and (1) row of 18-inch shelf.

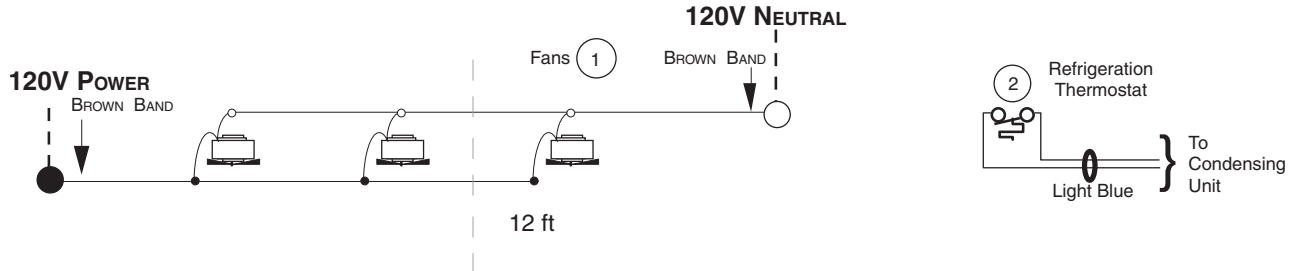
<b>ESTIMATED SHIPPING WEIGHT <sup>4</sup></b>				
<b>Case</b>	<i>6 ft</i>	<i>8 ft</i>	<i>12 ft</i>	<b>Solid End</b>
				<i>(each)</i>
<b>lb (kg)</b>	800 (363)	1000 (454)	1200 (544)	75 (34)

<sup>4</sup> Actual weights will vary according to optional kits included.

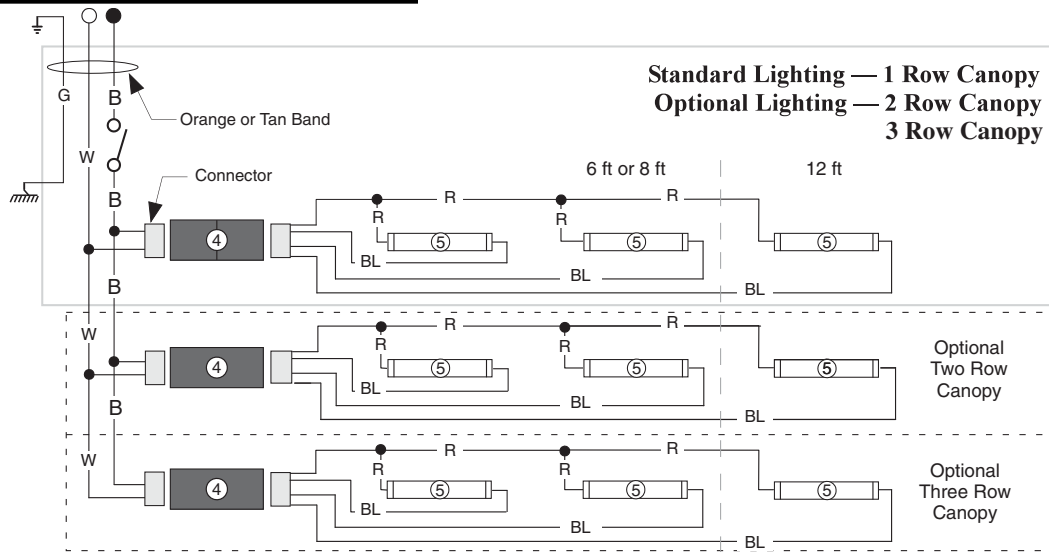
# Fan Wiring Offtime Defrost

## 2 & 3 Fans

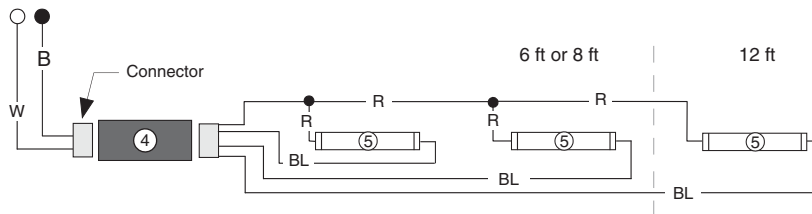
6 ft — 2 Fans  
8 ft — 2 Fans  
12 ft — 3 Fans



# Light Circuits



## Optional Lighting — 1 Row Rail



### WARNING

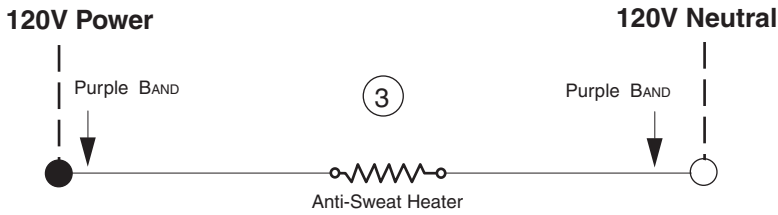
All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue B = Black W = White

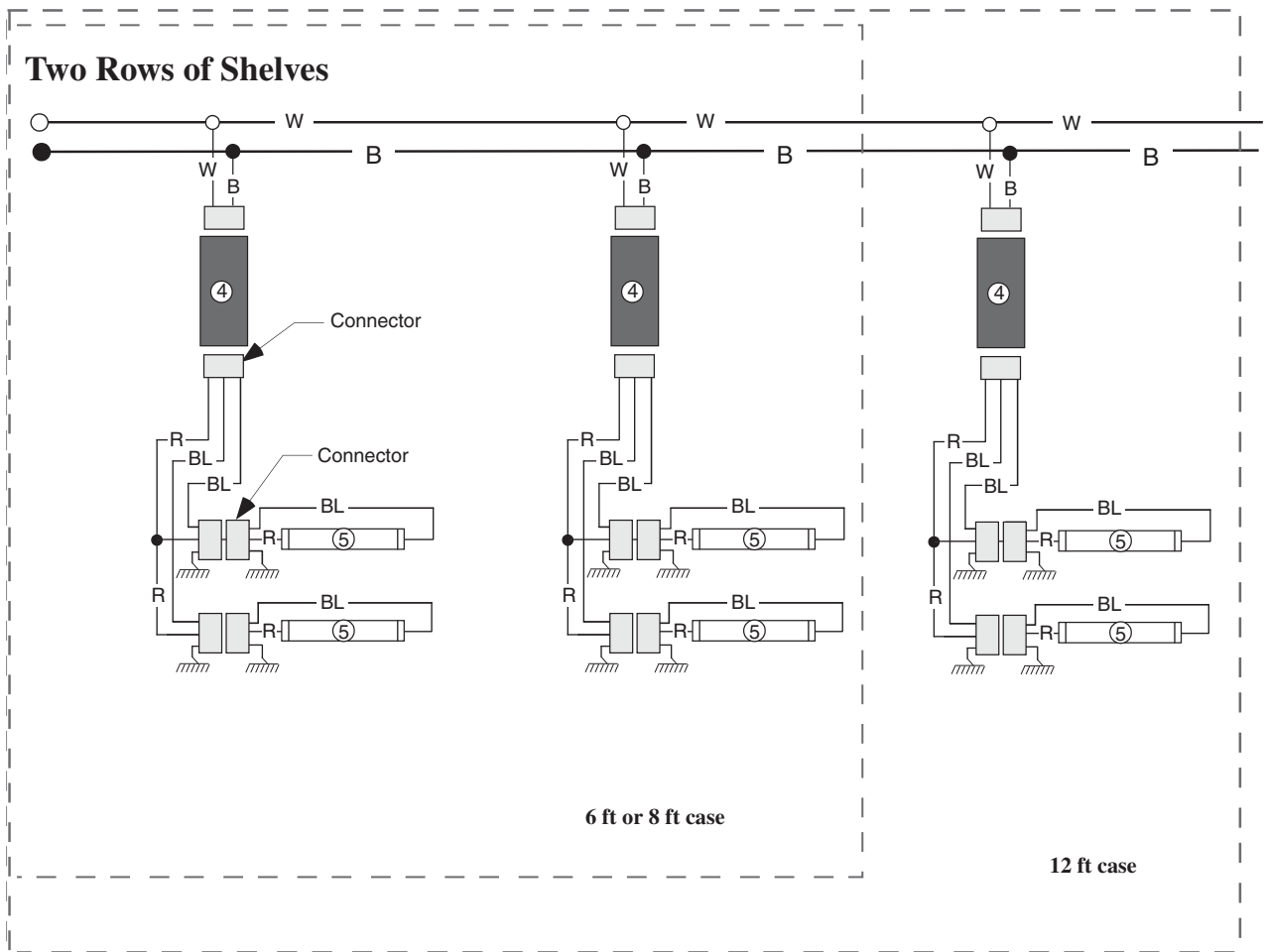
● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

# Canopy Anti-Sweat Heater



# Optional Shelf Lighting Fluorescent Fixtures

## Optional Shelf Harness and Light Circuits for



### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

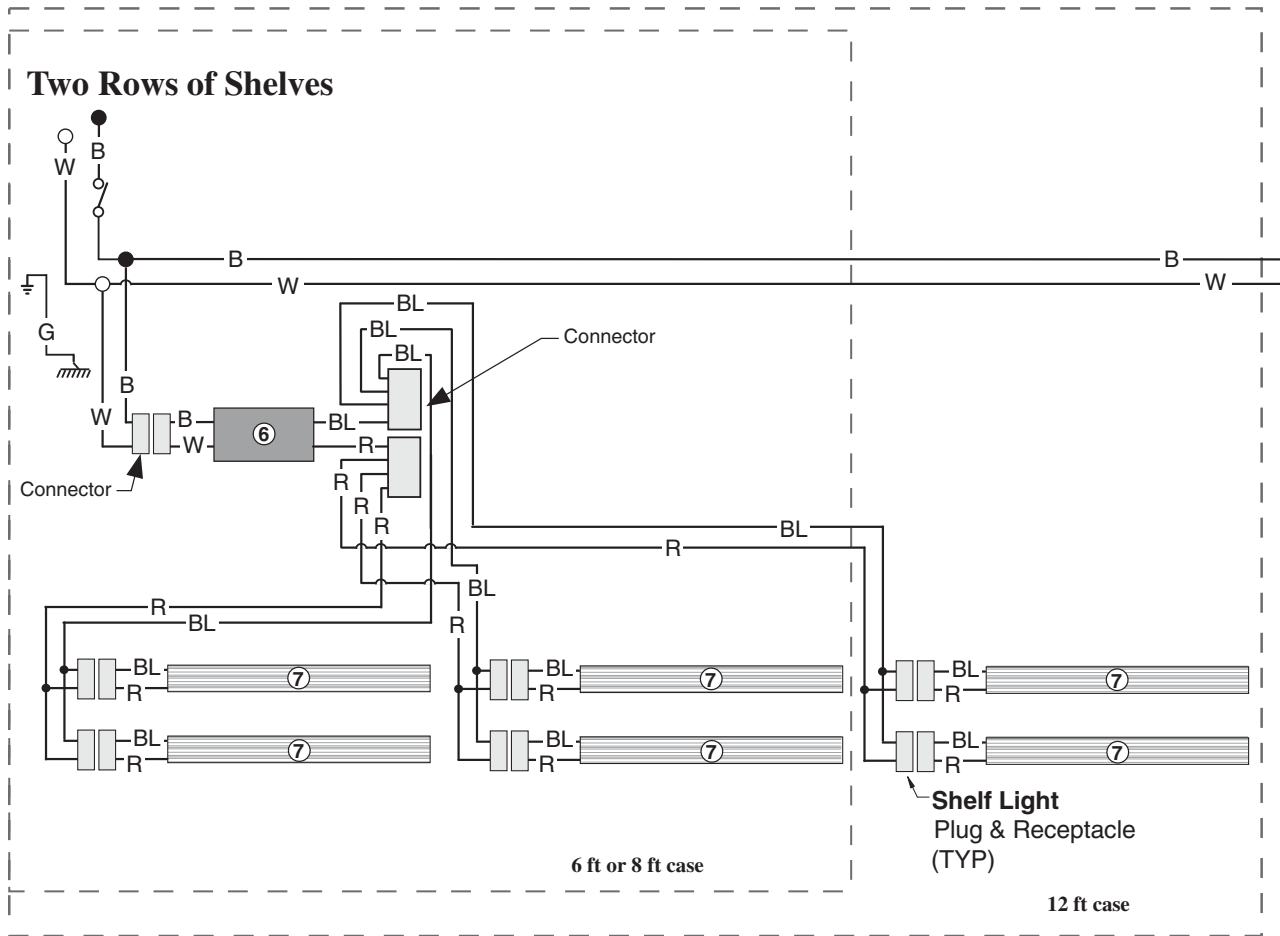
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ⊥ = FIELD GROUND ≡ = CASE GROUND

# Optional Shelf Lighting LED Fixtures

## Optional Shelf Harness and LED Light Circuits for



### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

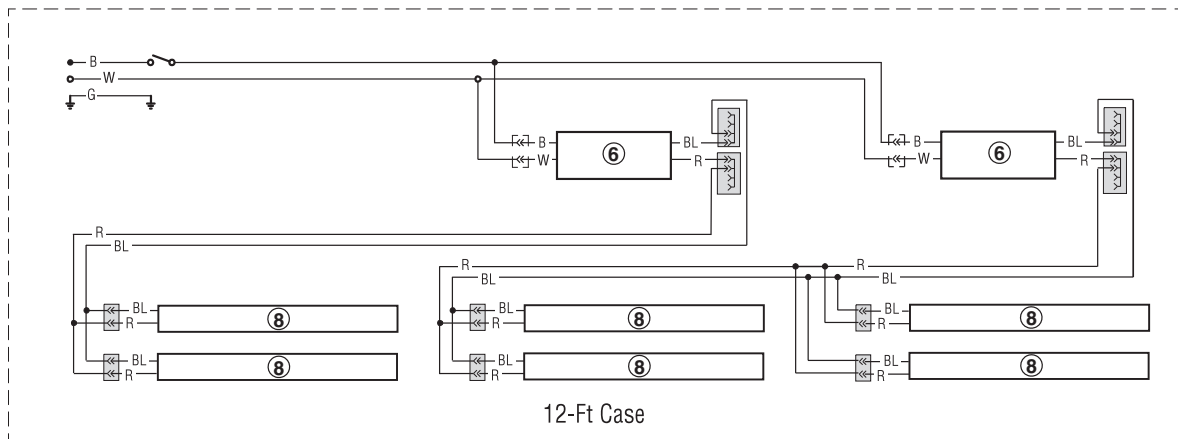
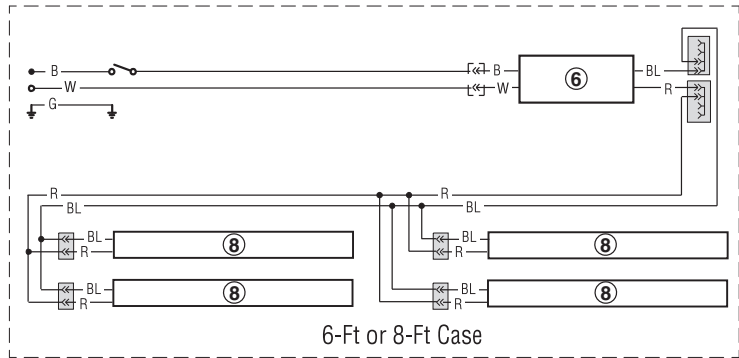
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red      G = Green      BL = Blue      B = Black      W = White

● = 120V POWER      ○ = 120V NEUTRAL      ⊥ = FIELD GROUND      *mm* = CASE GROUND

# Optional Canopy Lighting LED Fixtures

## Standard LED Canopy Lighting — 2 Row Canopy



### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red   Y = Yellow   G = Green   BL = Blue   B = Black   W = White

● = 120V POWER   ○ = 120V NEUTRAL   ⚡ = FIELD GROUND   ≡ = CASE GROUND

**Impact Excel C2X-LEP**  
**Dairy/Delicatessen**  
**Precut & Packaged Produce**

**SHELF CONFIGURATION**

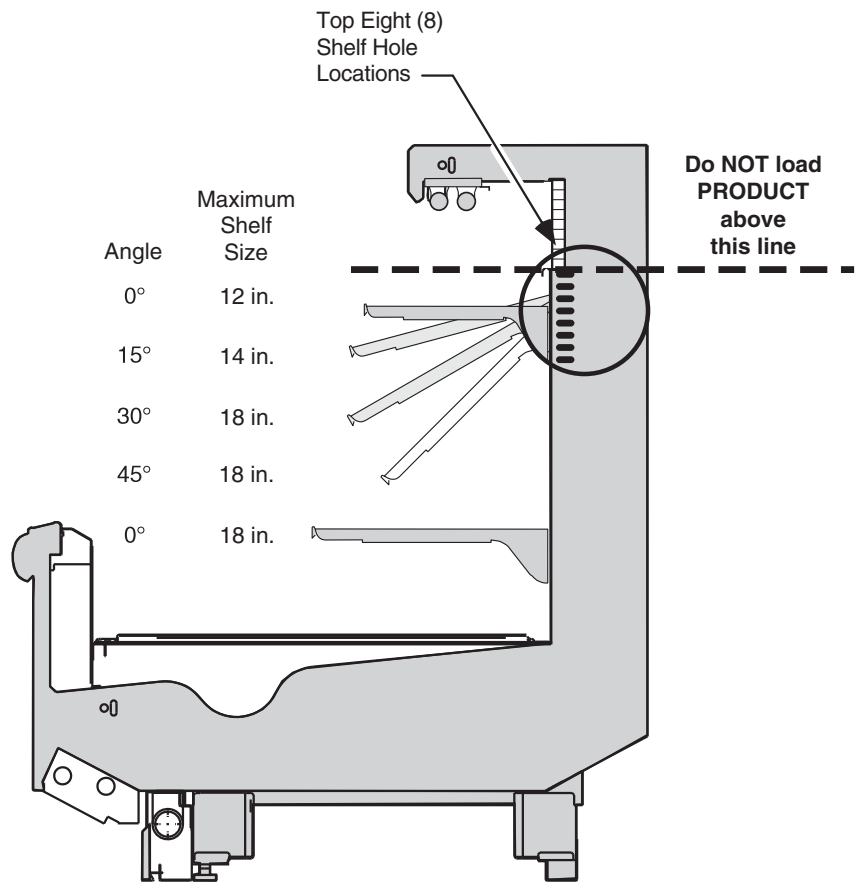
This merchandiser is designed for one or two shelves.

The depth of the shelf used in the top eight (8) shelf hole locations is critical to case performance.

If a shelf is placed in one of the top eight (8) locations it must comply with the angle/depth requirements listed below.

<b>Shelf Angle</b>	<b>Maximum Shelf Depth</b>
0 °	12 in.
15 °	14 in. or less
30 °	18 in. or less
45 °	18 in. or less

**NOTE:** Shelves placed in the lower positions may be up to 18 in. deep when positioned at a 0 ° angle.



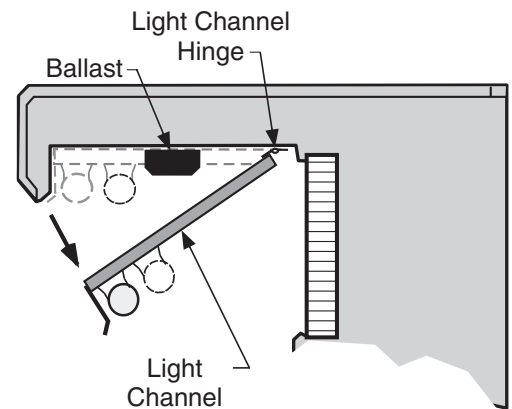
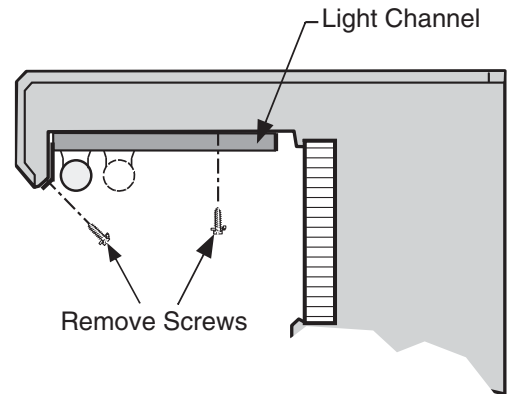
**Impact Excel C2X-LEP**  
**Dairy/Delicatessen**  
**Precut & Packaged Produce**

The ballast for the canopy and shelf lamps is located behind the canopy on the left-hand end (when facing case) of the merchandiser.

To access the ballast:

1. Remove screws at bottom edge of canopy and rear of light channel.
2. Lower light channel which will pivot on hinge.
3. Service or replace ballasts as required.
4. Reassemble items as they were originally installed.

**NOTE:** Rail lamp ballast is located in the electrical raceway.



**CANOPY ANTI-SWEAT HEATER**

The canopy anti-sweat heater location is shown below. Connections are in the electrical wireway.

