

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

| Item                                  | Part #                       | Description                                | Wiring Item # | Item                                 | Part #  | Description                       | Wiring Item # |
|---------------------------------------|------------------------------|--|---------------|--------------------------------------|---------|-----------------------------------|---------------|
| <b>FAN ASSEMBLIES AND THERMOSTATS</b> |                              |  |               | <b>LED FIXTURES AND POWER SUPPLY</b> |         |                                   |               |
| A.                                    | <b>7W Standard Efficient</b> | Fan Assembly                               | (1)           | F.                                   | 0501213 | Power Supply                      | (6)           |
|                                       | 0477654                      | Fan Motor, Evaporator                      |               | G.                                   |         | LED Canopy Fixture                | (7)           |
|                                       | 0142780                      | Fan Blade                                  |               |                                      |         | <i>Replace with like fixtures</i> |               |
| B.                                    | 0411744                      | Standard Non-adjustable Defrost Thermostat | (2)           | H.                                   |         | LED Shelf Fixture                 | (8)           |
|                                       |                              |  |               |                                      |         | <i>Replace with like fixtures</i> |               |
| C.                                    |                              | Optional Adj. Refrigeration Thermostat     | (3)           |                                      |         |                                   |               |
| <b>LAMPS AND BALLASTS</b>             |                              |  |               |                                      |         |                                   |               |
| D.                                    |                              | Ballast, Electronic                        | (4)           |                                      |         |                                   |               |
|                                       | 0466234                      | 2 lamps                                    |               |                                      |         |                                   |               |
|                                       | 0466235                      | 3 lamps                                    |               |                                      |         |                                   |               |
|                                       | 0466236                      | 4 lamps                                    | 1             |                                      |         |                                   |               |
| E.                                    |                              | Fluorescent Lamp                           | (5)           |                                      |         |                                   |               |
|                                       |                              | <i>Replace with like fixtures</i>          |               |                                      |         |                                   |               |

Data sheet-Elite-E2V

Note: Revision G: June 2017. Updated LED energy values. Other changes marked with a bar, circle or underline.

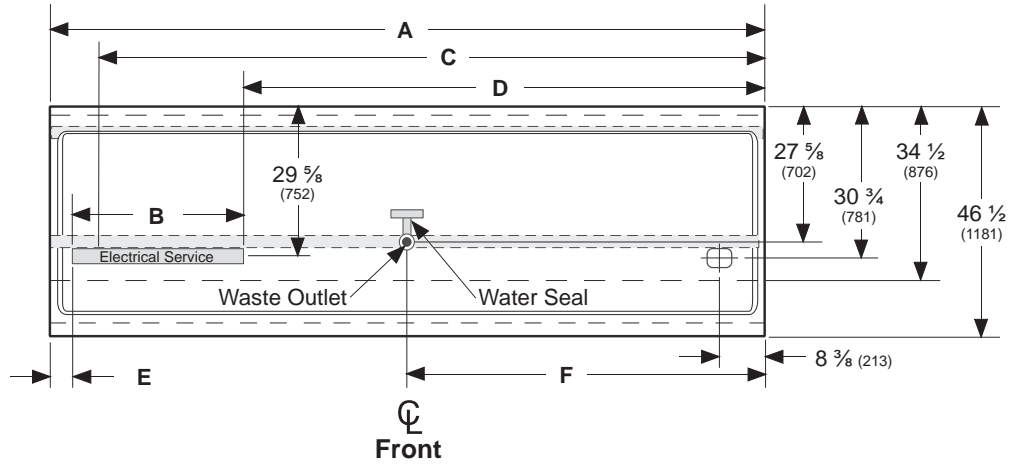
# Engineering Plan Views





**E2V  
Delicatessen  
Precut & Packaged  
Produce**

01-2004

Dimensions shown as inches and (mm).

| PHYSICAL DATA                   |       |
|---------------------------------|-------|
| Merchandiser Drip Pipe (in.)    | 1 1/2 |
| Merchandiser Liquid Line (in.)  | 3/8   |
| Merchandiser Suction Line (in.) | 7/8   |



|   | 4 ft          | 6 ft          | 8 ft          | 12 ft          |
|---|---------------|---------------|---------------|----------------|
| <b>General</b>  |               |               |               |                |
| <b>(A)</b> Case Length ( <i>without ends or partitions</i> )  | 48 1/8 (1222) | 72 1/8 (1832) | 96 1/4 (2445) | 144 3/8 (3667) |
| <i>NOTE: Each end or insulated partition adds 1 inch to lineup.</i>   |               |               |               |                |
| Maximum O/S dimension back to front ( <i>with bumper</i> )  | 46 1/2 (1181) | 46 1/2 (1181) | 46 1/2 (1181) | 46 1/2 (1181)  |
| Back of case to front of front panel  | 34 1/2 (876)  | 34 1/2 (876)  | 34 1/2 (876)  | 34 1/2 (876)   |
| Back of case to O/S edge of front skid rail   | 29 3/8 (746)  | 29 3/8 (746)  | 29 3/8 (746)  | 29 3/8 (746)   |
| Width of skid rail  | 4 1/2 (114)   | 4 1/2 (114)   | 4 1/2 (114)   | 4 1/2 (114)    |
| RH end of case to outside edge of external support  | 1 3/8 (34)    | 1 3/8 (34)    | 1 3/8 (34)    | 1 3/8 (34)     |
| Distance between edges of external support and center support   | NA            | 28 1/2 (724)  | 40 1/2 (1029) | 40 1/2 (1029)  |
| Distance between edges of center supports   | NA            | NA            | NA            | 44 (1118)      |
| Stub-up area between front skid rail and front panel  | 5 3/4 (146)   | 5 3/4 (146)   | 5 3/4 (146)   | 5 3/4 (146)    |
| <b>Electrical Service</b>  ( <i>Electrical Field Wiring connection point</i> ) |               |               |               |                |
| <b>(B)</b> Length of electrical raceway   | 18 3/8 (467)  | 18 3/8 (467)  | 37 (940)      | 37 (940)       |
| <b>(C)</b> RH End of case to center of farthest knockout  | 36 5/8 (930)  | 60 3/4 (1543) | 84 3/4 (2153) | 132 3/4 (3372) |
| Back of case to center of end knockout  | 29 5/8 (752)  | 29 5/8 (752)  | 29 5/8 (752)  | 29 5/8 (752)   |
| <b>(D)</b> RH End of case to RH end of raceway  | 27 5/8 (702)  | 51 5/8 (1311) | 57 1/4 (1454) | 105 1/8 (2670) |
| <b>(E)</b> LH End of case to LH end of raceway  | 2 1/8 (54)    | 2 1/8 (54)    | 2 (51)        | 2 1/4 (57)     |
| <b>Waste Outlet</b>    |               |               |               |                |
| <b>(F)</b> RH End of case to the center of waste outlet   | 24 1/4 (616)  | 24 1/4 (616)  | 24 1/2 (622)  | 72 1/4 (1834)  |
| LH End of case to the center of waste outlet  | 23 7/8 (606)  | 47 7/8 (1216) | 71 3/4 (1822) | 72 1/8 (1832)  |
| Back O/S of case to center of waste outlet  | 27 5/8 (702)  | 27 5/8 (702)  | 27 5/8 (702)  | 27 5/8 (702)   |
| <b>Water Seal</b>    |               |               |               |                |
| Edge of water seal to center of waste outlet  | 4 (102)       | 4 (102)       | 4 (102)       | 4 (102)        |
| Outside diameter of the drip pipe   | 1 1/2 (38)    | 1 1/2 (38)    | 1 1/2 (38)    | 1 1/2 (38)     |
| <i>NOTE: Water seal outlet must clear front skid rail; water seal rotation in forward direction only due to low base.</i>   |               |               |               |                |
| <b>Refrigeration Outlet</b>    |               |               |               |                |
| Back of case to center of refrigeration outlet  | 30 3/4 (781)  | 30 3/4 (781)  | 30 3/4 (781)  | 30 3/4 (781)   |
| RH end of case to center of refrigeration outlet  | 8 3/8 (213)   | 8 3/8 (213)   | 8 3/8 (213)   | 8 3/8 (213)    |

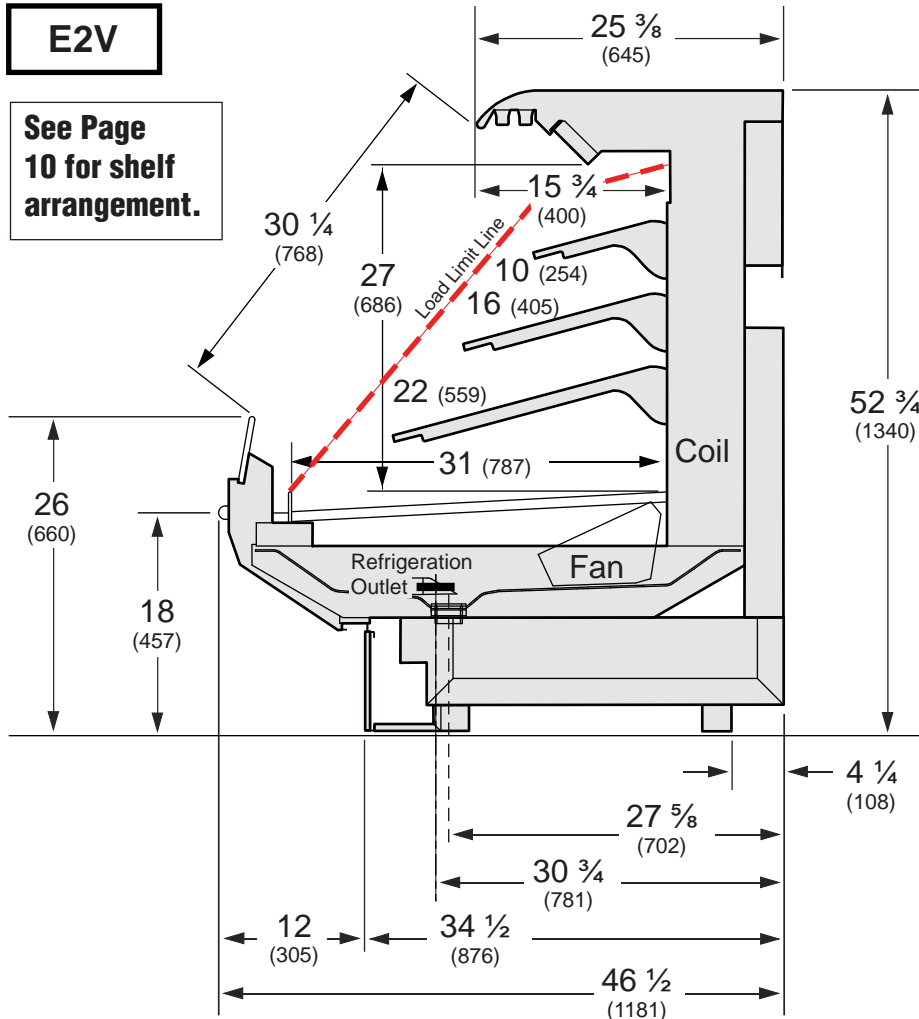
Elite Specialty Merchandiser Multi-deck, up to 3 Display Levels



Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.



Dimensions shown as inches and (mm).



| Estimated Charge ** |              | E2V    |  |
|---------------------|--------------|--------|--|
| 4 ft                | 0.9 lb 14 oz | 0.4 kg |  |
| 6 ft                | 1.8 lb 29 oz | 0.8 kg |  |
| 8 ft                | 1.9 lb 30 oz | 0.9 kg |  |
| 12 ft               | 2.9 lb 46 oz | 1.3 kg |  |

\*\*This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately 0.5 lb (8 oz / 0.2 kg).

**NSF Certification**

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

**REFRIGERATION DATA**

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

|                    | E2V§ |      |
|--------------------|------|------|
|                    | MEAT | DELI |
| Discharge Air (°F) | 25   | 27   |
| Evaporator (°F)    | 18   | 21   |
| Unit Sizing (°F)   | 16   | 19   |

§ Average evaporator temperature shown. Use dew point for high glide refrigerants for unit sizing. Care should be taken to use the dew point in PT tables for measuring and adjusting superheat. Adjust evaporator pressure as needed to maintain discharge air temperature shown.

**Btu/hr/ft**

|              |      |     |
|--------------|------|-----|
| Parallel     | 924  | 899 |
| Conventional | 1009 | 979 |

**DEFROST DATA**

|                           |   |
|---------------------------|---|
| Frequency (hr)            | 6 |
| Defrost Water (lb/ft/day) | 8 |

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

**OFFTIME**

|                    | E2V |
|--------------------|-----|
| Temp Term (°F)     | 48  |
| Failsafe (minutes) | 40  |

**ELECTRIC OR GAS** Not Recommended

**Standard Defrost Thermostat**

Close on rise: close 48°F – open 33°F

**CONVENTIONAL CONTROLS**

**Low Pressure Backup Control CI/CO\***

| E2V       | Meat   | Deli   |
|-----------|--------|--------|
| Temp (°F) | 11 / 6 | 14 / 4 |

**Indoor Unit Only, Pressure Defrost**

Termination (Temp °F)\* 48°F

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

|   |
|---|
| <b>Elite E2V</b><br><b>Delicatessen</b><br><b>Precut &amp; Packaged Produce</b> |
|---|

## Electrical Data

|   | 4 ft | 6 ft | 8 ft | 12 ft |         |      |       |       |
|---|------|------|------|-------|---------|------|-------|-------|
| <b>Number of Fans — 7W</b>  | 1    | 2    | 2    | 3     |         |      |       |       |
|   |      |      |      |       | Amperes |      | Watts |       |
| Merchandiser  | 4 ft | 6 ft | 8 ft | 12 ft | 4 ft    | 6 ft | 8 ft  | 12 ft |
| <b>Fans</b>   |      |      |      |       |         |      |       |       |
| 120V 50/60 Hz Standard Energy Efficient   | 0.19 | 0.38 | 0.38 | 0.57  | 14      | 28   | 28    | 42    |
| 230V 50/60 Hz Standard Energy Efficient   | NA   |      |      |       |         |      |       |       |
| 230V 60Hz Export  | NA   |      |      |       |         |      |       |       |
| 230V 50Hz Export  | NA   |      |      |       |         |      |       |       |
| <b>Cycling Anti-sweat Heaters</b>   | NA   |      |      |       |         |      |       |       |
| <b>Minimum Circuit Ampacity</b>   |      |      |      |       |         |      |       |       |
| 120V 50/60 Hz Standard Energy Efficient   | 0.39 | 0.58 | 0.58 | 0.77  |         |      |       |       |
| 230V 50/60 Hz Standard Energy Efficient   | NA   |      |      |       |         |      |       |       |
| 230V 60Hz Export  | NA   |      |      |       |         |      |       |       |
| 230V 50Hz Export  | NA   |      |      |       |         |      |       |       |
| <b>Maximum Over Current Protection 120V</b>   | 20   | 20   | 20   | 20    |         |      |       |       |
| <b>Maximum Over Current Protection 230V</b>   | NA   |      |      |       |         |      |       |       |
| <b>Electric Defrost Heaters (208V 1Ph)</b>  | NA   |      |      |       |         |      |       |       |
| <b>Standard Lighting (T-8 fluorescent)</b>  |      |      |      |       |         |      |       |       |
| 2 Rows Canopy   | 0.51 | 1.01 | 1.01 | 1.52  | 66      | 122  | 122   | 183   |
| <b>ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.</b> |      |      |      |       |         |      |       |       |
| <b>Optional Lighting (T-8 fluorescent)</b>  |      |      |      |       |         |      |       |       |
| 1 Row Rail Lights   | 0.51 | 0.51 | 0.51 | 0.76  | 62      | 62   | 62    | 96    |
| 1 Row Ledge Lights  | 0.51 | 0.51 | 0.51 | 0.76  | 62      | 62   | 62    | 96    |
| <b>Optional Shelf Lighting (T-8 fluorescent)</b>  |      |      |      |       |         |      |       |       |
| 1 Row of Shelves  | 0.51 | 0.51 | 0.51 | 0.76  | 62      | 62   | 62    | 96    |
| 2 Rows of Shelves   | 0.51 | 1.01 | 1.01 | 1.52  | 66      | 122  | 122   | 183   |
| 3 Rows of Shelves   | 0.76 | 1.53 | 1.53 | 2.28  | 92      | 184  | 184   | 274   |

Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.

(Continued)

## Product Data

|  |   |
|--|---|
| <b>Recommended Usable Cube</b> <sup>1</sup> (Cu Ft/Ft) | 3.30 ft <sup>3</sup> /ft (0.31 m <sup>3</sup> /m) |
| <b>AHRI Total Display Area</b> <sup>2</sup> (Sq Ft/Ft) | 2.75 ft <sup>2</sup> /ft (0.84 m <sup>2</sup> /m) |
| <b>Shelf Area</b> <sup>3</sup> (Sq Ft/Ft)              | 6.58 ft <sup>2</sup> /ft (2.01 m <sup>2</sup> /m) |

<sup>1</sup> AHRI 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 AHRI 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 Husmann **Product Reference Guide**. The standard shelf complement for this model is (1) row of 10-inch shelves, (1) row of 16-inch shelves and (1) row of 22-inch shelves.

### ESTIMATED SHIPPING WEIGHT <sup>4</sup>

| Case           |           |           |           |            | Solid End<br>(each) |
|----------------|-----------|-----------|-----------|------------|---------------------|
|                | 4 ft      | 6 ft      | 8 ft      | 12 ft      |                     |
| <b>lb (kg)</b> | 400 (181) | 600 (272) | 800 (363) | 1000 (454) | 100 (45)            |

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

## Electrical Data (Concluded)

|                                      | Amperes |      |      |       | Watts |      |      |       |
|--------------------------------------|---------|------|------|-------|-------|------|------|-------|
|                                      | 4 ft    | 6 ft | 8 ft | 12 ft | 4 ft  | 6 ft | 8 ft | 12 ft |
| <b>EcoShine II Canopy</b>            |         |      |      |       |       |      |      |       |
| EcoShine II                          | 0.16    | 0.26 | 0.32 | 0.48  | 19.3  | 31.6 | 38.6 | 58.0  |
| EcoShine II HO                       | 0.22    | 0.33 | 0.44 | 0.66  | 26.5  | 39.5 | 53.0 | 79.4  |
| <b>EcoShine II Rail Light</b> —1 Row | 0.08    | 0.12 | 0.16 | 0.25  | 9.9   | 14.1 | 19.8 | 29.7  |
| <b>EcoShine II Shelves</b>           |         |      |      |       |       |      |      |       |
| 1 Row of Shelves                     | 0.08    | 0.12 | 0.16 | 0.25  | 9.9   | 14.1 | 19.8 | 29.7  |
| 2 Rows of Shelves                    | 0.16    | 0.23 | 0.33 | 0.49  | 19.8  | 28.2 | 39.5 | 59.3  |

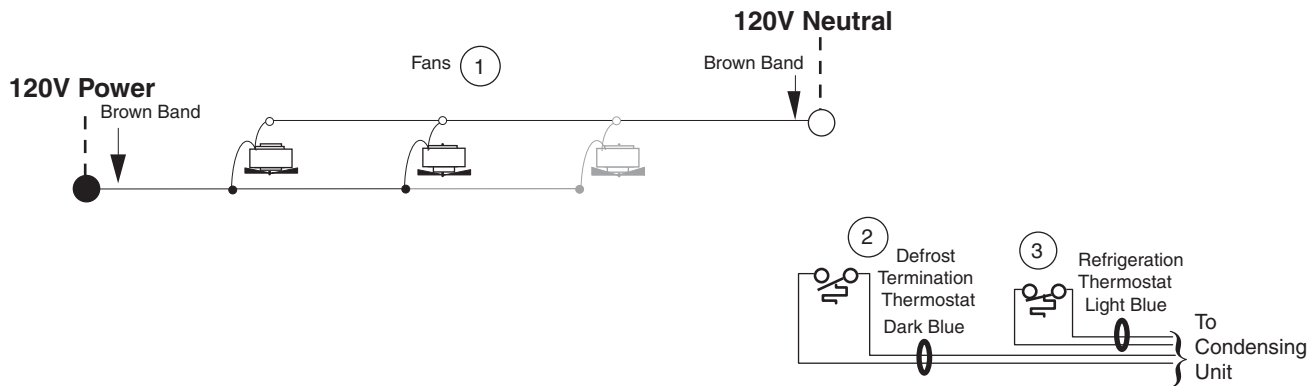
120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

120V LED Lighting Circuit Total = Canopy Lighting + Shelf Lighting + Optional Rail Lighting

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

# Fan Wiring Offtime Defrost

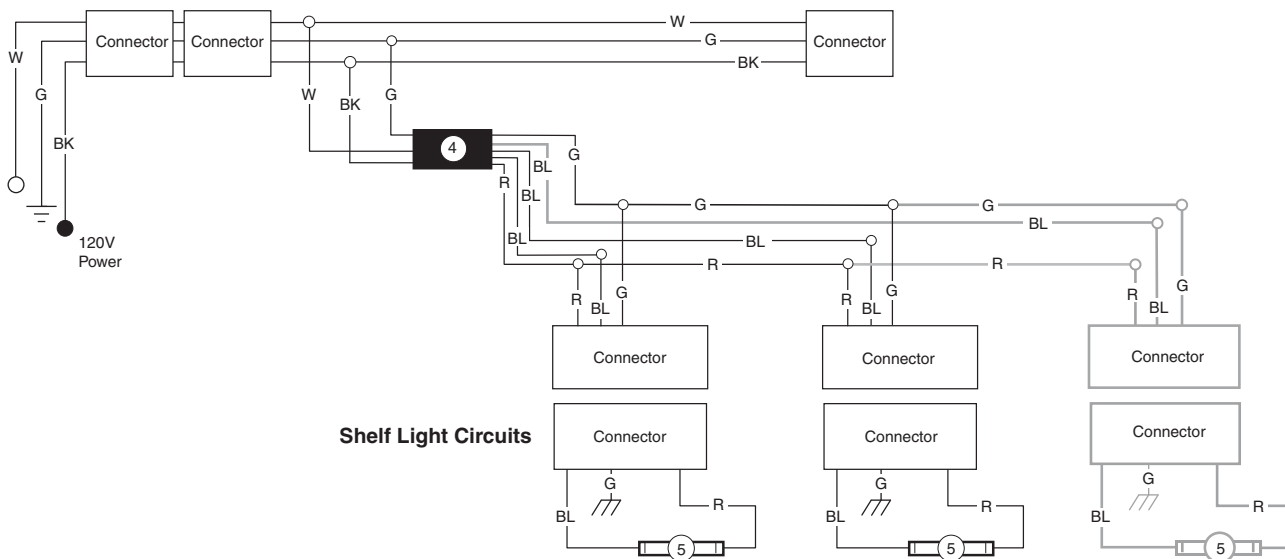
## 2 & 3 Fans



# Shelf Lighting

## Optional Shelf Harness and Light Circuits for One Row of Shelves

### Shelf Harness



### WARNING

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

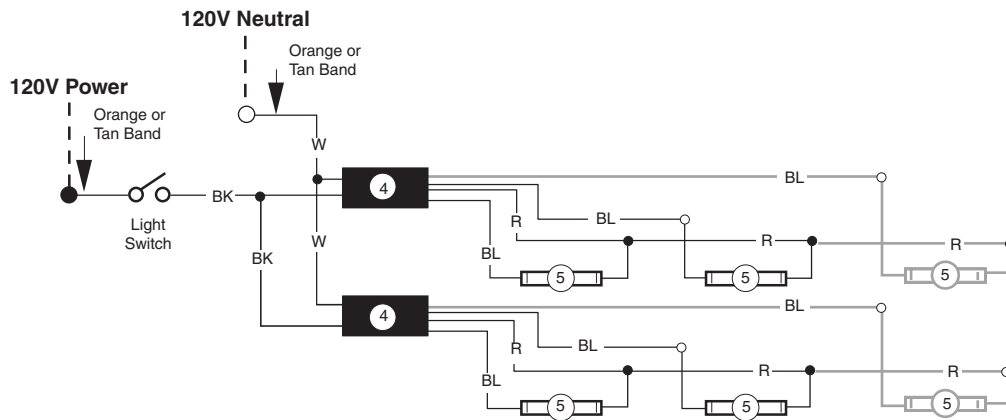
Circled Numbers = Parts List Item Numbers

Grayed components in 12 foot models only.

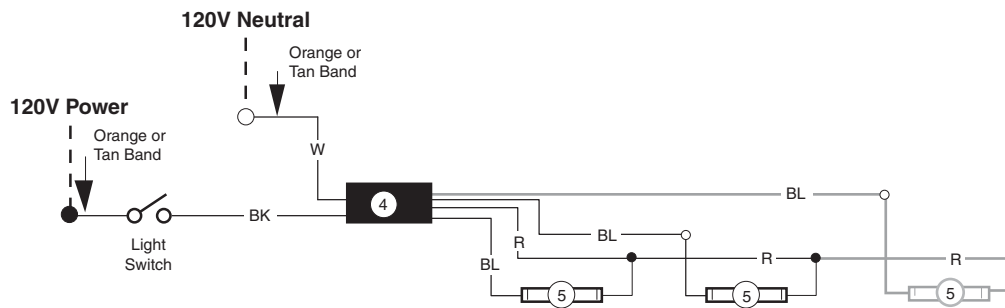
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

● = 120V Power ○ = 120V Neutral ⊥ = Field Ground ≡ = Case Ground

## Standard Lighting 2 Rows Canopy



## Optional Lighting: 1 Row Ledge or 1 Row Rail



### WARNING

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

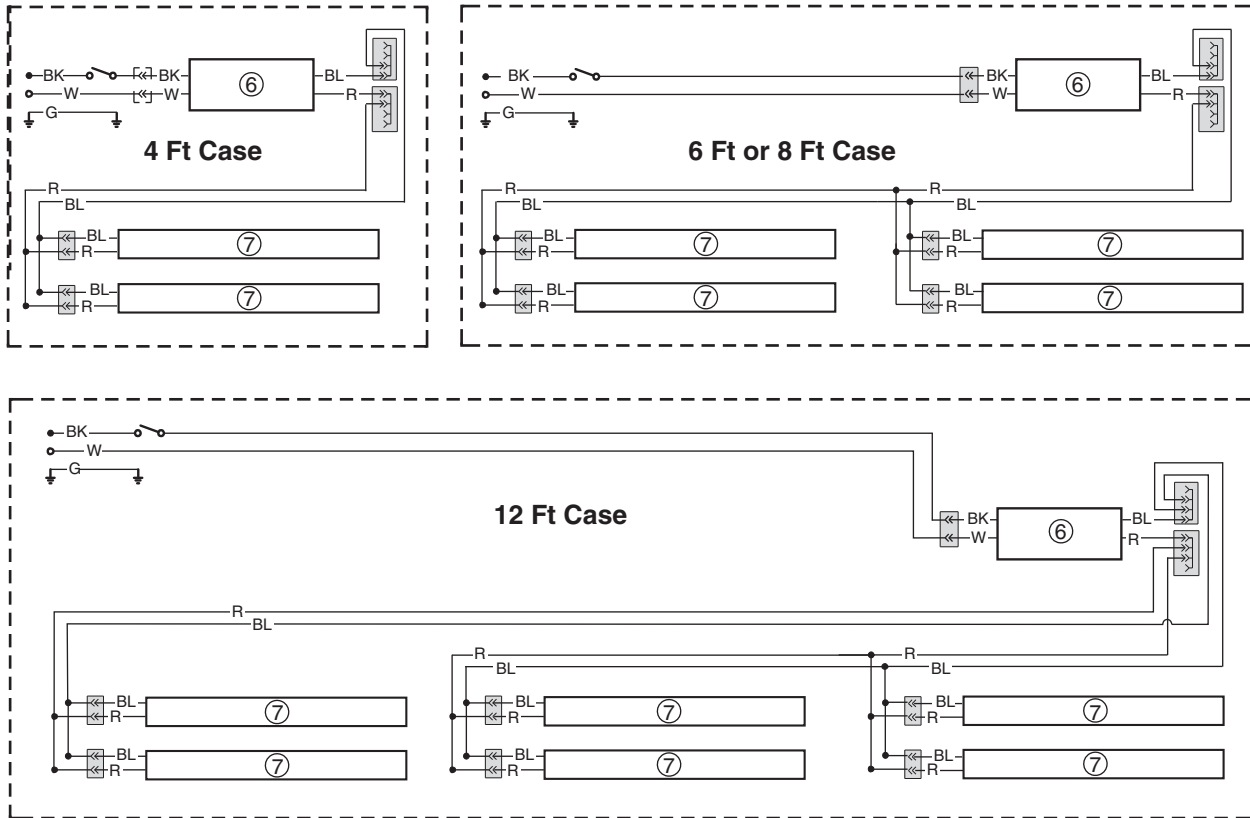
Circled Numbers = Parts List Item Numbers

Grayed components in 12 foot models only.

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

● = 120V Power   ○ = 120V Neutral

**EcoShine II LED Canopy Lighting – 2 Row**



**WARNING**

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

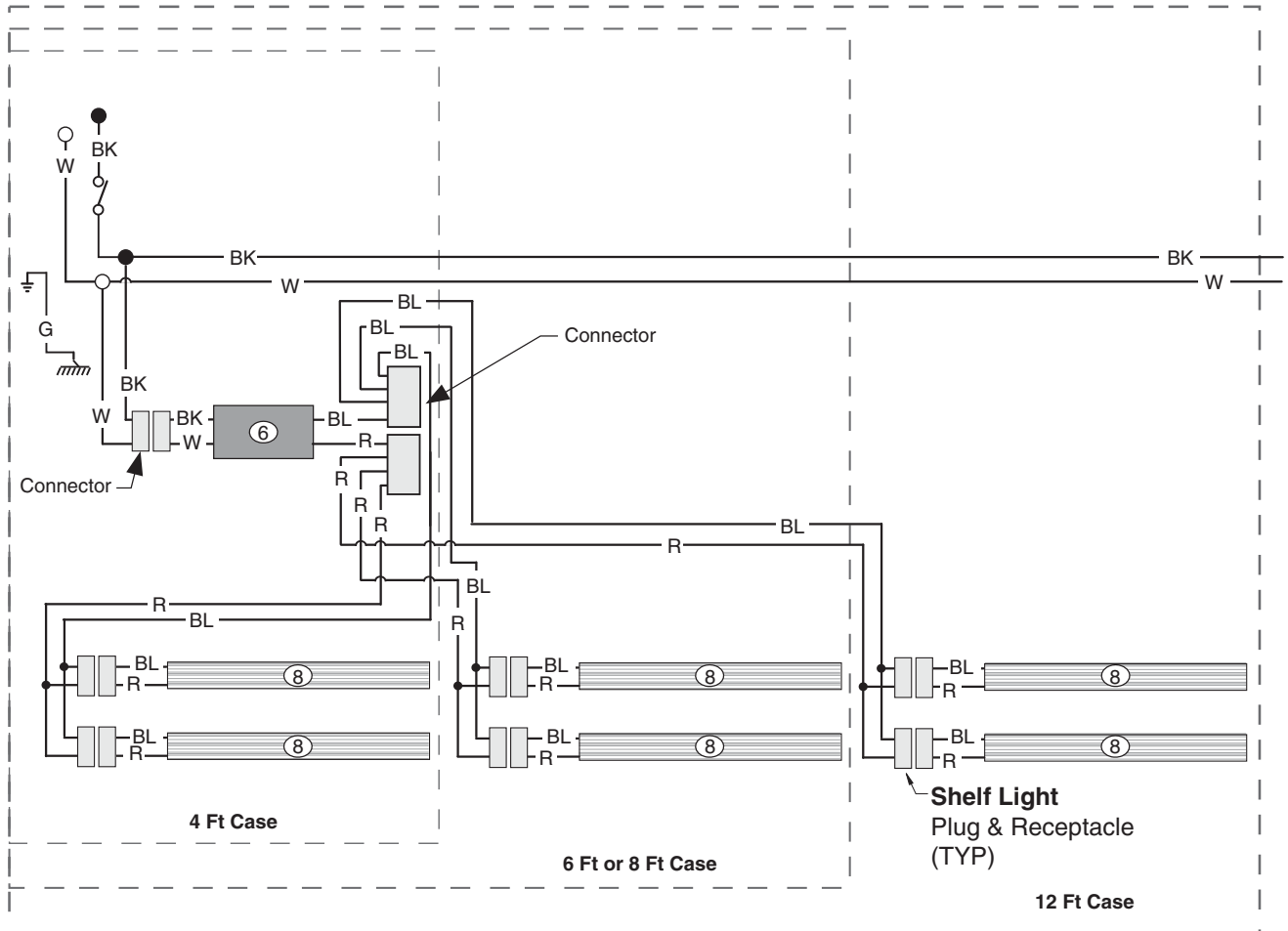
Circled Numbers = Parts List Item Numbers

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

● = 120V Power ○ = 120V Neutral ⊥ = Field Ground ≡ = Case Ground



Optional Shelf Harness and LED Light Circuits for Two Rows of Shelves



**WARNING**

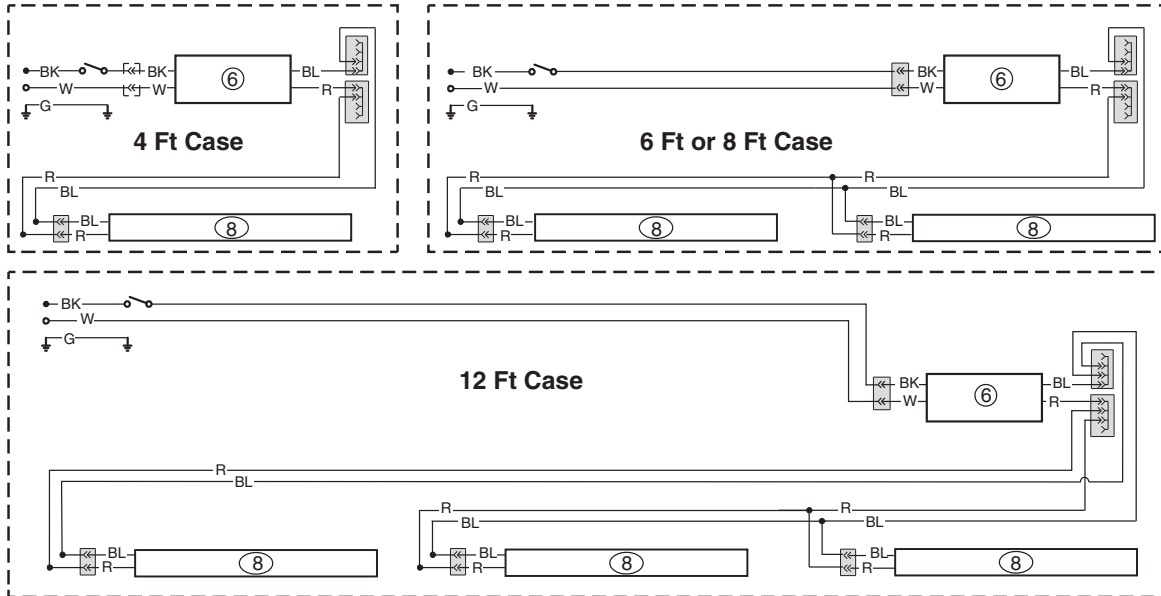
All components must have mechanical ground, and the merchandiser must be grounded.

Circled Numbers = Parts List Item Numbers

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

● = 120V Power ○ = 120V Neutral ⊥ = Field Ground ≡ = Case Ground

## EcoShine II LED Rail Lighting – 1 Row



### 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 BK = Black W = White

● = 120V Power ○ = 120V Neutral ⊥ = Field Ground ≡ = Case Ground

### SHELF CONFIGURATION

This merchandiser is designed for three shelves.

This illustration shows recommended shelf depth and shelf angle for the three locations.

It is critical to case performance that no product, shelf or stop extend beyond the load limit, as shown in this illustration. This configuration supports the air curtain and provides optimal case performance.

Check with Hussmann engineering before using a different configuration.

