

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 #
FAN ASSEMBLIES AND THERMOSTATS			
A.	7W Fan Assembly		(1)
	0058698	Fan Motor, Evaporator (MO.4410102)	
	0142780	Fan Blade (FB.0142780) embossing toward motor	
B.	12W End Compartment Fan Assembly		(2)
	0477655	Fan Motor, Standard (MO.4410546)	
	0377253	Fan Blade (FB.4780616) embossing away from motor	
C.	0398558	Standard Non-Adjustable Defrost Thermostat (CT.4481088)	(3)
D.	0144732	Optional Adjustable Refrigeration Thermostat (CT.4481085)	(4)

Item	Part #	Description	Wiring Item #
LAMPS AND BALLASTS			
E.	0466234	Ballast, Electronic 2 lamps (BA.4480823)	(5)
	0376410	Ballast, Electronic 3 lamps (BA.4480901)	(5)
F.	0135966	Ballast, Electronic 1 lamp (BA.4480883) (End Compartment)	(6)
G.	0039764	Lamp Starter (EP.4481081)	(7)
H.		Fluorescent Lamp <i>Replace with like fixtures</i>	(8)

NOTE: Revision C updates fan wattage on Page 1 and adds product data on Page 5.

Engineering Plan Views

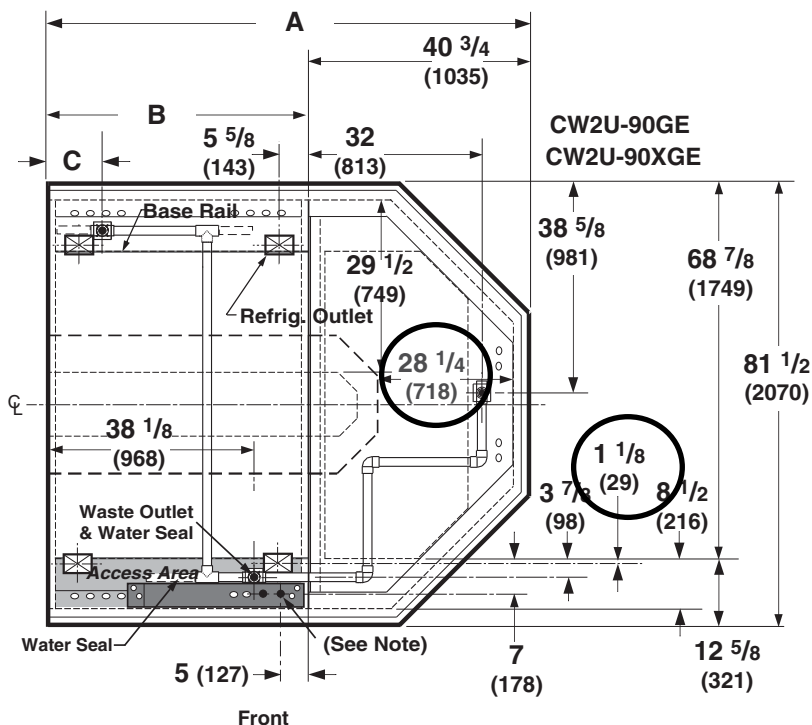
Unitized Convertible Island

05-2003

PHYSICAL DATA

Merchandiser Drip Pipe (in.)	1 1/4
Merchandiser Liquid Line (in.)	1/2
Merchandiser Suction Line (in.)	1 1/8

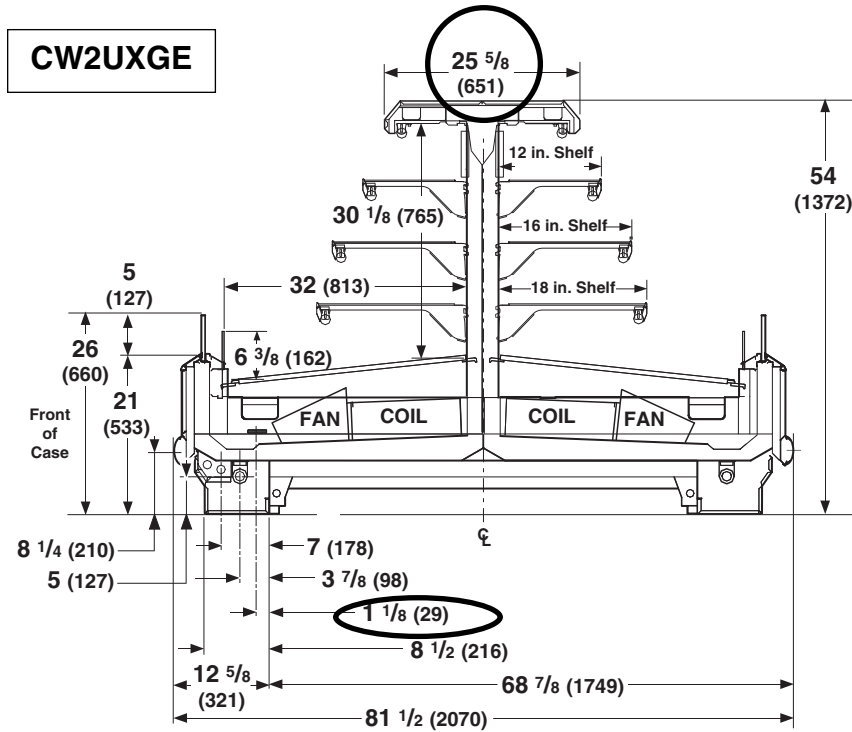
Dimensions shown as inches and (mm).



	90 in.	138 in.
General		
(A) Case Length (<i>without ends or partitions</i>)	89 (2261)	137 (3480)
Maximum O/S dimension of case front to rear (<i>includes bumper</i>)	81 1/2 (2070)	81 1/2 (2070)
(B) End of case to end of compartment	48 1/4 (1226)	96 1/4 (1478)
Length of the end compartment	40 3/4 (1035)	40 3/4 (1035)
Front of splashguard to O/S edge of base rail	8 1/2 (216)	8 1/2 (216)
Front edge of case to O/S edge of base rail	12 5/8 (321)	12 5/8 (321)
Rear of case to O/S edge of front base rail	68 7/8 (1749)	68 7/8 (1749)
Width of base rail	2 1/8 (54)	2 1/8 (54)
Stub-up area between front base rail and splashguard	7 1/4 (184)	7 1/4 (184)
Electrical Service		
Note: <i>Electrical Field Wiring connection point</i>		
Center of Electrical service to O/S edge of front base rail	7 (178)	7 (178)
Right end of case to center of knockout	5 (127)	5 (127)
Length of electrical raceway	32 5/8 (829)	32 5/8 (829)
Waste Outlet		
(C) LH end of case to the center of rear waste outlet	10 1/8 (257)	58 1/8 (1476)
Center of waste outlet to O/S edge of rear base rail	3 7/8 (98)	3 7/8 (98)
Left end of case to center of front waste outlet	38 1/8 (968)	38 1/8 (968)
Left edge of end compartment to center of waste outlet	32 (813)	32 (813)
Rear edge of end compartment to center of waste outlet	38 5/8 (981)	38 5/8 (981)
Water Seal		
Water seal length	11 (279)	11 (279)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (23)
<i>Water seal outlet must clear front skid rail.</i>		
Refrigeration Outlet		
RH & LH end of case to center of refrigeration outlets	5 5/8 (143)	5 5/8 (143)
Center of refrigeration outlet to O/S edge of front base rail	<u>1 1/8 (29)</u>	<u>1 1/8 (29)</u>

Impact CW2UXGE
Unitized Convertible Island

Dimensions shown as inches and (mm).



NSF Certification

This merchandiser model is manufactured to meet ANSI/NSF (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.

	CW2U 90XGE	CW2U 138XGE
Discharge Air (°F)	28	28
Evaporator Air (°F)	21	21
Unit Sizing (°F)	19	19
Btu/hr/case*	CW2U 90XGE	CW2U 138XGE
Parallel	12120	19440
Conventional	13500	21700

DEFROST DATA

	CW2U 90XGE	CW2U 138XGE
Frequency (hr)	6	6
Defrost Water (lb/day)	80	128

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

OFFTIME	CW2U 90XGE	CW2U 138XGE
Temp Term (°F)	48°	48°
Failsafe (minutes)	45	45
ELECTRIC OR GAS	Not Recommended	

Standard Defrost Thermostat

Close on rise: close 43°F — open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control	CW2U 90XGE	CW2U 138XGE
CI/CO (Temp °F)**	17°/7°	17°/7°

Indoor Unit Only

Pressure Defrost Termination

(Temp °F)**	48°	48°
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**Use a Temperature Pressure Chart to determine PSIG conversions.

PHYSICAL DATA

Estimated Charge (lb)***	
CW2U90GE	4.0
CW2U138GE	6.3

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

Length Added to Lineup by:

Each Flat End (in.)	1 1/2
Each Contoured End (in.)	5

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Electrical Data

		90 in.	138 in.		
Number of Fans—7W		2	4		
Number of Fans—12W		2	2		
		Amperes		Watts	
		90 in.	138 in.	90 in.	138 in.
Evaporator Fan					
120V 60Hz Standard		1.60	2.60	114	192
120V 50Hz Standard					
230V 60Hz Export		NA		NA	
230V 50Hz Export		NA		NA	
120V 60Hz Energy Efficient		0.98	1.36	64	92
230V 60Hz Energy Efficient					
Cycling Anti-sweat Heaters		None			
Minimum Circuit Ampacity					
120V 60Hz Standard		1.80	2.80		
120V 50Hz Standard		NA			
230V 60Hz Export		NA			
230V 50Hz Export		NA			
120V 60Hz Energy Efficient		1.18	1.56		
230V 60Hz Energy Efficient		NA			
Maximum Over Current Protection 120V		20	20		
Maximum Over Current Protection 230V		15	15		
208V Electric Defrost Heaters		None			
Standard Lighting (T-8 Fluorescent)					
1 Row Canopy		1.31	1.82	99	158
Optional Lighting (T-8 Fluorescent)					
Additional 1 Row Canopy					
Additional 2 Row Canopy		1.82	2.84	158	276
Optional Shelf Lighting (T-8 Fluorescent)					
1 Rows of Shelves		1.31	1.82	99	158
2 Rows of Shelves		2.62	3.64	198	316
3 Rows of Shelves		3.93	5.46	297	474

Impact CW2UXGE
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Product Data

CW2U90XGE

<i>Recommended Usable Cube</i> ¹ (Cu Ft / Case)	53.17 ft ³ /case (1.51 m ³ /case)
<i>ARI Total Display Area</i> ² (Sq Ft / Case)	46.60 ft ² /case (4.33 m ² /case)
<i>Shelf Area</i> ³ (Sq Ft / Case)	92.06 ft ² /case (8.55 m ² /case)

- ¹ ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using ARI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ 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 (2) rows of 12-inch shelves and (2) rows of 18-inch shelves.

Product Data

CW2U138XGE

<i>Recommended Usable Cube</i> ¹ (Cu Ft / Case)	82.57 ft ³ /case (2.34 m ³ /case)
<i>ARI Total Display Area</i> ² (Sq Ft / Case)	71.00 ft ² /case (6.60 m ² /case)
<i>Shelf Area</i> ³ (Sq Ft / Case)	144.06 ft ² /case (13.38 m ² /case)

- ¹ ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using ARI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ 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 (2) rows of 12-inch shelves and (2) rows of 18-inch shelves.

ESTIMATED SHIPPING WEIGHT ⁵

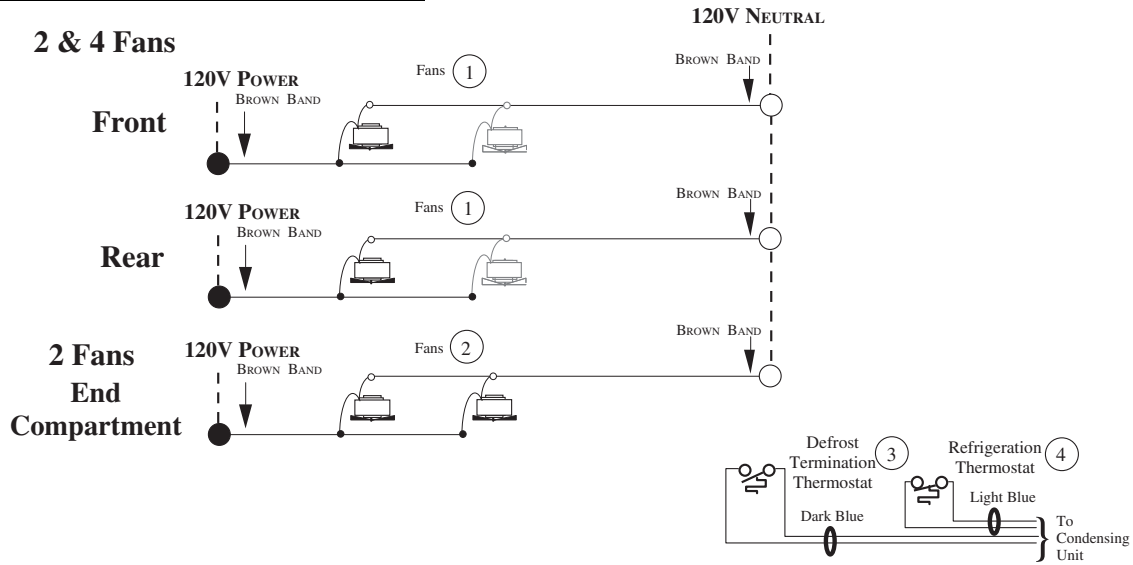
Case

CW2U-90XGE CW2U-138XGE

lb (kg)

⁵ Actual weights will vary according to optional kits included.

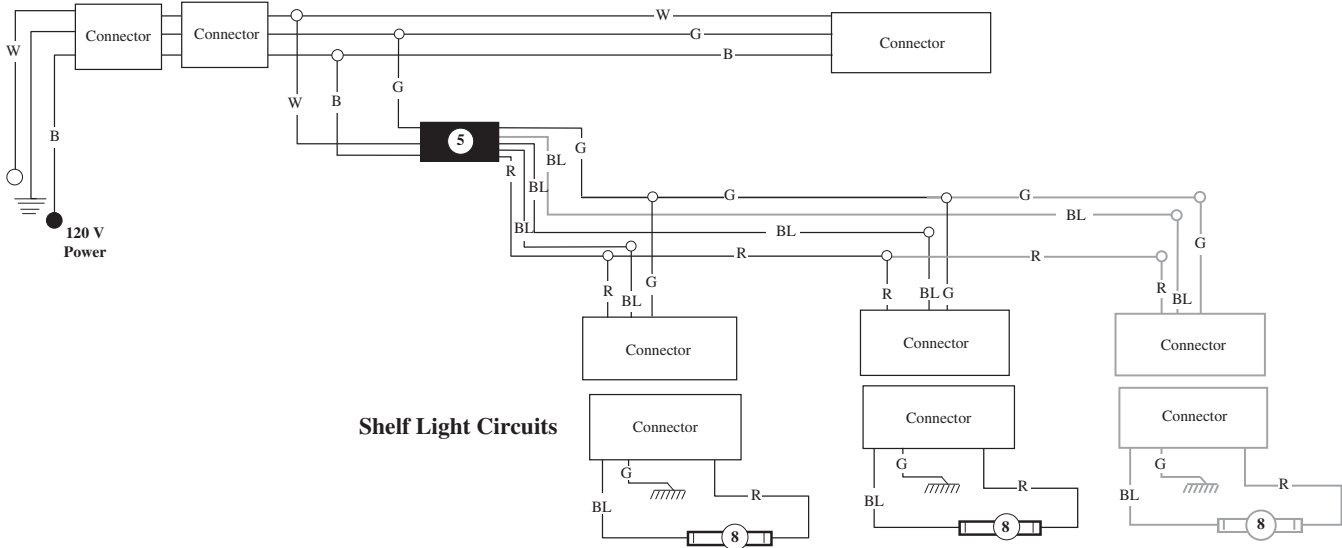
Fan Wiring Offtime Defrost



Optional 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.

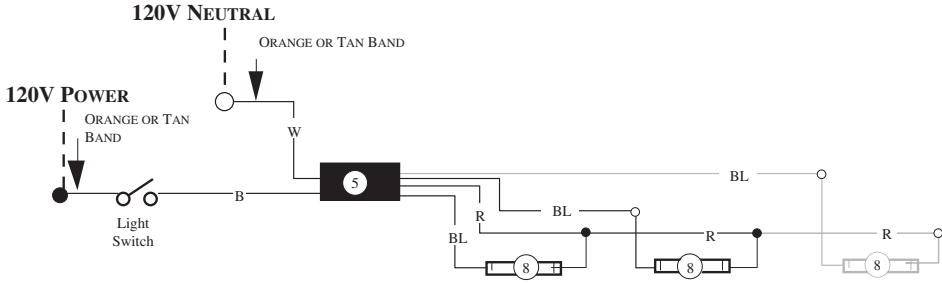
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

Grayed components in 138 models only.

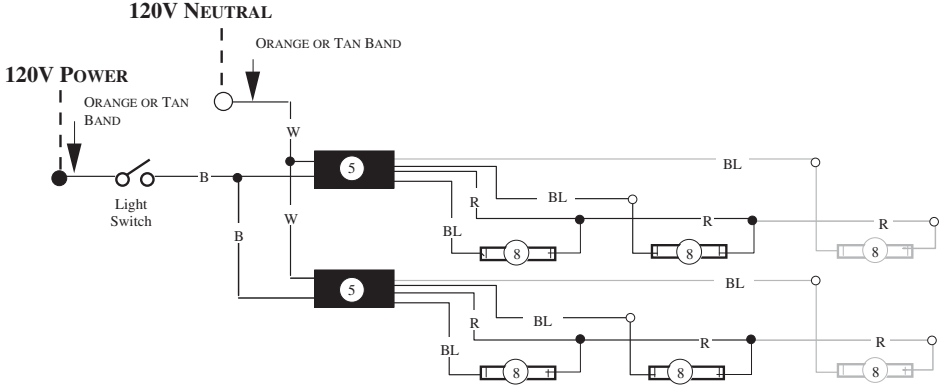
R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ≡ = Field GROUND ≡≡ = Case GROUND

Standard Lighting 1 Row Canopy or Optional 1 Row Rail



Optional Lighting 2 Rows Canopy



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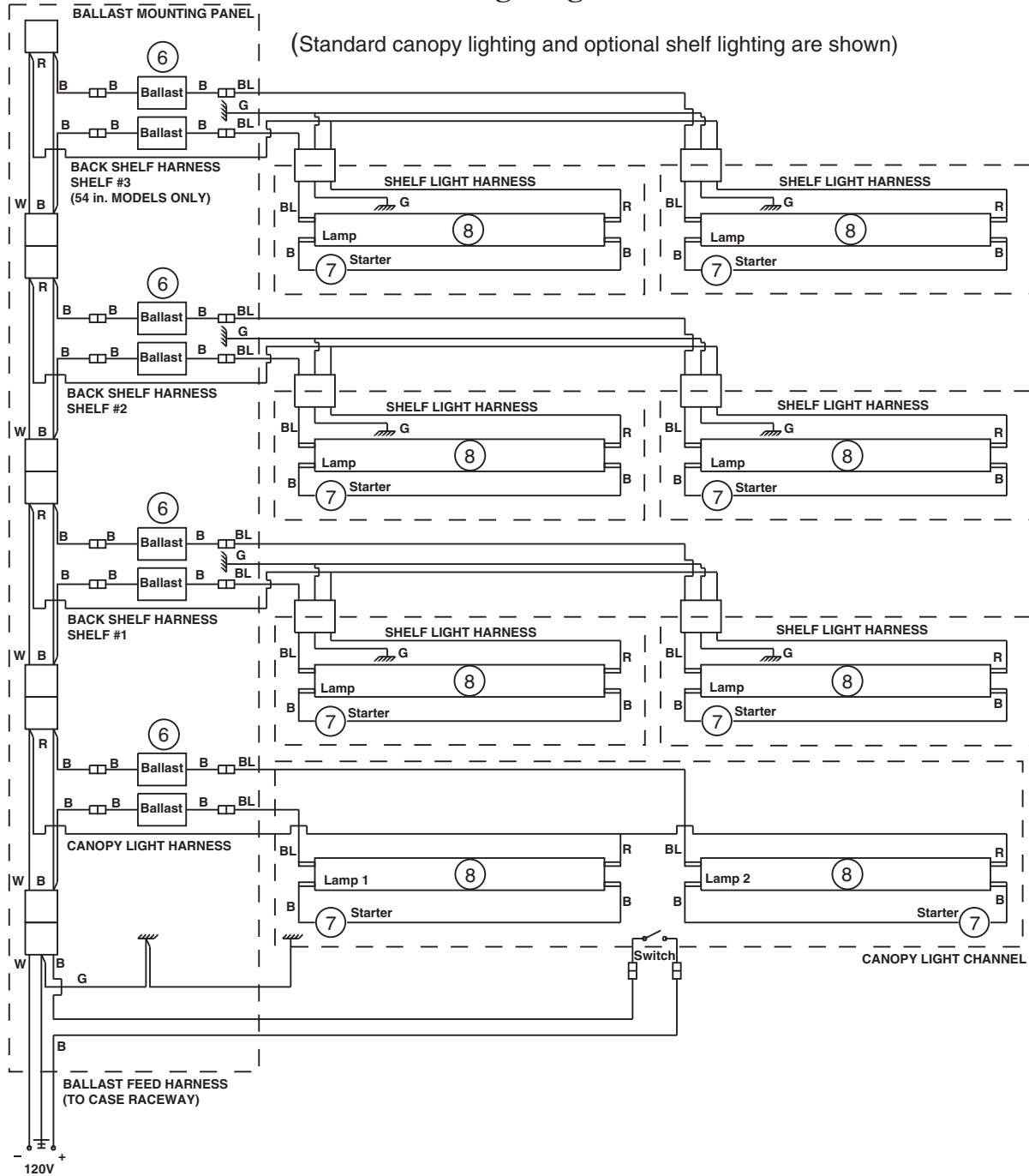
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Light Circuits

CW2U-90XGE/138XGE End Compartment Lighting Schematic



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