



2-54 Adelaide Street Winnipeg Manitoba R3A 0V7
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PROPOSED CHANGE NOTICE

2445-55

No work is to be done before this matter is finalized and a "Change Order" is issued. This copy to remain with your office. Do not return. Contractor to submit signed letter with price including cost breakdown and change (if any) to construction schedule. Authority having Jurisdiction shall advise of any objections.

TO: QUOREX CONSTRUCTION SERVICES LTD.
1630A 8th Avenue,
Regina, SK S4R 1E5

RE: AURORA FOOD STORE
2000 ANAQUOD ROAD
REGINA, SK
Commission No. 2445

DATE: November 28, 2025

PAGES: 46 (including cover)

RE: Illuminated Department Letters

1.0 ELECTRICAL

- .1 Refer to attached Electrical PCN #27, dated November 26, 2025 (3 pages).
- .2 Refer to attached signage cut sheets (42 pages).
Connection details for MEAT and SEAFOOD signage to follow from TC (details typical/similar to other signs).

Distribution:

Sobeys Inc. – Jeff Craig
Sobeys Inc. – Shanwen Hsu
Quorex Construction Services Ltd. – Chris Walbaum
Quorex Construction Services Ltd. – Dustin Williamson
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Principal
Kevin Fawley, SAA MRAIC

Project: Aurora Grocery Store
2000 Anaquod Road, Regina, Saskatchewan
Subject: Interior Illuminated Signage
Date: 2025.11.26

Subject: Interior Illuminated Signage
References: Electrical Drawing E0.2 – Schedules
Electrical Drawing E1.0 – Lighting

1. Refer to attached drawing E0.2 - Schedules for revisions in Panel '2L'. Nine(9) 15A-1P breakers are added for illuminated signage circuits.
2. Refer to attached drawing E1.0 – lighting for locations of interior illuminated signage. Refer to manufacturer's literature for exact requirements. Coordinate final location for signage on site.

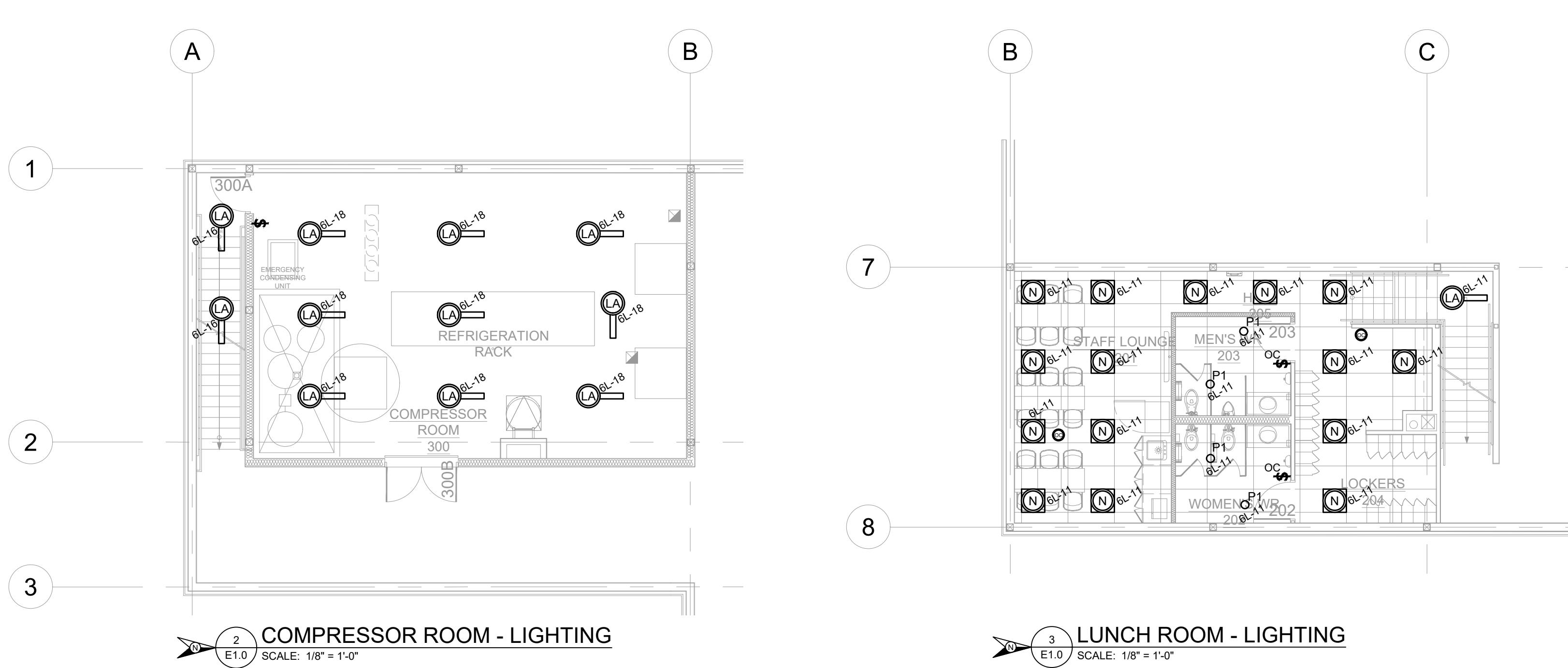

PANEL '100A'					
400A-347600V-3PH-4W PANEL SURFACE MOUNTED IN COMPRESSOR ROOM 300					
DESCRIPTION	CIRCUIT BREAKER	PHASE A - B - C	CIRCUIT BREAKER	PHASE A - B - C	DESCRIPTION
PANEL 'R1'	100	1 0 2	25	GAS COOLER #10 WIRE	
		3 0 4			
		5 0 6			
TVSS #10 WIRE	30	9 0 10	30	COMPACTOR #10 WIRE	
		11 0 12			
SPACE	-	13 0 14			
SPACE	-	15 0 16	30	BALER #10 WIRE	
SPACE	-	17 0 18			
SPACE	-	19 0 20	-	SPACE	
SPACE	-	21 0 22	-	SPACE	
SPACE	-	23 0 24	-	SPACE	
SPACE	-	25 0 26	-	SPACE	
SPACE	-	27 0 28	-	SPACE	
SPACE	-	29 0 30	-	SPACE	
SPACE	-	31 0 32	-	SPACE	
SPACE	-	33 0 34	-	SPACE	
SPACE	-	35 0 36	-	SPACE	
SPACE	-	37 0 38	-	SPACE	
SPACE	-	39 0 40	-	SPACE	
SPACE	-	41 0 42	-	SPACE	

PANEL 'SD-2'					
1200A-120208V-3PH-4W PANEL SURFACE MOUNTED IN COMPRESSOR ROOM 300					
DESCRIPTION	CIRCUIT BREAKER	PHASE A - B - C	CIRCUIT BREAKER	PHASE A - B - C	DESCRIPTION
PANEL 'O'	100	1 0 2	200	PANEL 'R1L'	
		3 0 4			
		5 0 6			
PANEL 'C1'	100	9 0 10	400	PANEL 'R2L'	
		13 0 14			
	200	15 0 16	400	PANEL 'R3L'	
PANEL 'Z'	100	19 0 20			
		21 0 22	400	PANEL 'R4L'	
SPACE	-	23 0 24			
SPACE	-	25 0 26	-	SPACE	
SPACE	-	27 0 28	-	SPACE	
SPACE	-	29 0 30	-	SPACE	
SPACE	-	31 0 32	-	SPACE	
SPACE	-	33 0 34	-	SPACE	
SPACE	-	35 0 36	-	SPACE	
SPACE	-	37 0 38	-	SPACE	
SPACE	-	39 0 40	-	SPACE	
SPACE	-	41 0 42	-	SPACE	

PANEL 'O'					
100A-120208V-3PH-4W PANEL RECESS MOUNTED IN OFFICE CORRIDOR					
DESCRIPTION	CIRCUIT BREAKER	PHASE A - B - C	CIRCUIT BREAKER	PHASE A - B - C	DESCRIPTION
MAIN - HOUSEKEEPING	15	1 0 2	15	MAIN - HANDDRYER	
MAIN - IT RACK	20	3 0 4	15	MAIN - HANDDRYER	
MAIN - IT RACK	20	5 0 6	15	MAIN - HANDDRYER	
MAIN - IT RACK	20	7 0 8	15	SECOND - WASHROOM RECEPTACLES	
MAIN - IT RACK	20	9 0 10	15	SECOND - HANDDRYER	
MAIN - CASH OFFICE - SAFE	15	1 0 12	15	SECOND - HANDDRYER	
MAIN - CASH OFFICE - RECEPTACLES	15	1 0 14	15	SECOND - HANDDRYER	
MAIN - FILE MANAGER - PRINTER	15	17 0 18	15	SECOND - HOUSEKEEPING	
MAIN - FILE MANAGER - RECEPTACLES	15	19 0 20	15	SECOND - HOUSEKEEPING	
MAIN - TELECOM BACKBOARD	20	21 0 22	15	SECOND - COUNTER RECEPTACLES	
MAIN - DEPARTMENT MANAGER - RECEPTACLES	15	23 0 24	15	SECOND - FRIDGE	
MAIN - SECURITY PANEL	15	25 0 26	15	SECOND - COUNTER RECEPTACLES	
MAIN - SECURITY PANEL	15	27 0 28	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	29 0 30	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	31 0 32	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	33 0 34	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	35 0 36	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	37 0 38	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	39 0 40	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	41 0 42	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	43 0 44	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	45 0 46	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	47 0 48	15	SECOND - MICROWAVE	
MAIN - SECURITY PANEL	15	49 0 50	15	SECOND - EXHAUST FAN	
MAIN - SECURITY PANEL	15	51 0 52	15	SECOND - EXHAUST FAN	
MAIN - SECURITY PANEL	15	53 0 54	15	SECOND - EXHAUST FAN	
MAIN - SECURITY PANEL	15	55 0 56	15	SECOND - EXHAUST FAN	
MAIN - SECURITY PANEL	15	57 0 58	15	SECOND - EXHAUST FAN	
MAIN - SECURITY PANEL	15	59 0 60	15	SECOND - EXHAUST FAN	

PANEL 'P'					
100A-120208V-3PH-4W PANEL SURFACE MOUNTED IN WEST STAFF CORRIDOR					
DESCRIPTION	CIRCUIT BREAKER	PHASE A - B - C	CIRCUIT BREAKER	PHASE A - B - C	DESCRIPTION
BLOOD PRESSURE MACHINE	15	1 0 2	20	COUNTER RECEPTACLES	
TV RECEPTACLE	15	3 0 4	15	COMPUTER DESKS	
FRIIDGE	15	5 0 6	15	HOUSEKEEPING	
FRIIDGE	15	7 0 8	15	FRONT COUNTER RECEPTACLES	
AUTOMATIC ROLLING SHUTTER	15	9 0 10	15	FRONT COUNTER RECEPTACLES	
AUTOMATIC ROLLING SHUTTER	15	11 0 12	15	FRONT COUNTER RECEPTACLES	
MICROWAVE	20	13 0 14	15	FRONT COUNTER RECEPTACLES	
COMPUTER DESKS	15	15 0 16	15	FRONT COUNTER RECEPTACLES	
SPACE	-	19 0 20	-	SPACE	
SPACE	-	21 0 22	-	SPACE	
SPACE	-	23 0 24	-	SPACE	
SPACE	-	25 0 26	-	SPACE	
SPACE	-	27 0 28	-	SPACE	
SPACE	-	29 0 30	-	SPACE	
SPACE	-	31 0 32	-	SPACE	
SPACE	-	33 0 34	-	SPACE	
SPACE	-	35 0 36	-	SPACE	
SPACE	-	37 0 38	-	SPACE	
SPACE	-	39 0 40	-	SPACE	
SPACE	-	41 0 42	-	SPACE	

PANEL 'B'					
200A-120208V-3PH-4W PANEL SURFACE MOUNTED IN WEST STAFF CORRIDOR					
DESCRIPTION	CIRCUIT BREAKER	PHASE A - B - C	CIRCUIT BREAKER	PHASE A - B - C	DESCRIPTION
DOUBLE RACK OVEN (GAS)	15	1 0 2	15	80 QT MIXER	
		3 0 4			
		5 0 6			
DOUBLE RACK OVEN (GAS)	15	7 0 8	20	SPRAL MIXER	
		9 0 10			
RETARDER / PROOFER #6 WIRE	15	11 0 12	15	POT WASHER #6 WIRE	
		13 0 14			
ROUNDER	15	15 0 16	22	DOUGH DIVIDER	
		23 0 24			
FIRMWARE SCALE	15	25 0 26	15	SHEETER	
BREAD SLICER	15	27 0 28	15		
REFRIGERATIVE	20	29 0 30	15		
CREAMER	15	31 0 32	15	OVEN CONTROLS	
CHOCOLATE WARMER	15	33 0 34	15	OVEN CONTROLS	
FLOOR SCALE	15	35 0 36	15	FIRMWARE SCALE	
TV RECEPTACLE	15	37 0 38	15	SPACE	
SPACE	-	39 0 40	-	SPACE	
SPACE	-	41 0 42	-	SPACE	
SPACE					



DRAWING NOTES - LIGHTING

- ① ALL TURK LIGHTING TO BE SUSPENDED ON THREADED ROD. PROVIDE MANUFACTURER'S INSTRUCTIONS FOR QUANTITIES OF SUSPENSION POINTS, TYPICAL.
- ② PRIOR TO ROUGH-IN OF ALL COOLER/FREEZER LUMINAIRES, COORDINATE WITH THE REFRIGERATION CONTRACTOR TO AVOID CONFLICTS. REFRIGERATION COILS SEAL CONDUIT TO LUMINAIRES, TYPICAL.
- ③ PROVIDE CEILING MOUNT LOW TEMPERATURE OCCUPANCY SENSOR. COORDINATE WITH REFRIGERATION CONTRACTOR SO SENSOR IS NOT IN DIRECT LINE OF COOL AIR FLOW. TYPICAL OF ALL COOLERS.
- ④ DUAL-TECH OCCUPANCY SENSOR. PROVIDE VOLTAGE TO SUIT. SENSOR TO PROVIDE LOCAL CONTROL OF THE LIGHTS IN THE AREA.
- ⑤ LIGHT FIXTURE TYPE 'S' TO BE SUSPENDED WITH AIRCRAFT CABLE FROM UNISTRUT SUPPORT BETWEEN JOISTS, TYPICAL.
- ⑥ CONFIRM EXACT ILLUMINATION AND POWER SUPPLY REQUIREMENTS WITH ILLUMINATED SIGNAGE SUPPLIER.

LIGHTING ZONE SCHEDULE			
ZONE	LIGHTING CONTROL	AREA DESCRIPTION	CONTROL SCHEME
1	6L-22	VESTIBULE	EMS TIMELOCK
2	6L-2, 6L-4	SALES AREA HIGH BAYS - WEST	EMS TIMELOCK
3	6L-6, 6L-8	SALES AREA HIGH BAYS - EAST	EMS TIMELOCK
4	6L-14		EMS TIMELOCK
5	6L-5, 6L-7	347V SALES AREA POT LIGHTS	EMS TIMELOCK
6	2L-2, 2L-4	120V SALES AREA TRACK AND BULKHEAD LIGHTING	EMS TIMELOCK
7	2L-6, 2L-8, 2L-10		EMS TIMELOCK
8	6L-11	WAREHOUSE / RECEIVING	EMS TIMELOCK
9	6L-17	COMPRESSOR ROOM	EMS TIMELOCK
10	6L-15	BAKERY	EMS TIMELOCK / OCCUPANCY SENSORS
11	6L-21	PHARMACY	EMS TIMELOCK / OCCUPANCY SENSORS
12	6L-19	SEAFOOD / MEATS / PRODUCE	EMS TIMELOCK / OCCUPANCY SENSORS
13	6L-20	H.M.R	EMS TIMELOCK / OCCUPANCY SENSORS
14	6L-22	LARGE COOLERS	OCCUPANCY SENSOR
15	6L-11	SEATING	EMS TIMELOCK
16	6L-11	OFFICE	OCCUPANCY SENSOR
17	6L-24	EXTERIOR LIGHTS	EMS TIMELOCK

NOTES:
1. ZONE SCHEDULE SHOWN FOR INFORMATION ONLY. WIRING, COMPONENT AND PROGRAMMING REQUIREMENTS TO BE COORDINATED WITH THE SUPPLIER FOR THE SYSTEM USED.

CGM
200-698 CORDON AVE
WINNIPEG, MB R3M 0X9
(204) 272-3255
ENGINEERING LTD.
PROJECT NO: 24258

NEJMARK
254 Adelaide Street Winnipeg Manitoba R3A 0V7
P 204 947 3775 F 204 947 3789 www.nejmark.mb.ca
Drawings and specifications, as instruments of service are the property of the Architect, the Engineer or the Owner. They are to be returned to the Architect or Owner upon written permission of the Architects and when made, must bear their names. All prints to be returned. The contractor is to verify dimensions and date noted herein with conditions on the site and is held responsible for reporting discrepancy to the Architect for adjustment.

AURORA GROCERY STORE
2000 ANAQUD ROAD
REGINA, SASKATCHEWAN

FLOOR PLAN - LIGHTING
COMMISSION NUMBER: 2445
SHEET NUMBER: E1.0

Gemini Canada- Quality Inspection Document

Order Number: _____								
Warehouse: _____								
Item	Inspection Detail	Pick Ticket Assy	Program	Cutting	MH/PK/SS	Painter	Shipper	Indep Checker
1	Confirm number of sets required(write number)	J						
2	Confirm the layout instructions match the Pick ticket -Yes or QL	YES				N/A	N/A	N/A
3	Confirm artwork matches the Pick ticket- Yes or QL	N/A			N/A	N/A	N/A	N/A
4	Confirm the mounting option (Write in mounting option)	N/A	N/A			N/A	N/A	N/A
5	Confirm Mounting Quality- Pad Diameter / Tapped holes - size and thread count on last hole completed - before removing sheet from Mill Rest check 1st middle and last character	N/A	N/A			N/A	N/A	N/A
6	Confirm Perfect pattern alignment- Cutters use Coupons or check characters at 4 corners of sheet -- Rest of team check 1st , middle and last character	N/A	N/A			N/A	N/A	N/A
7	Confirm the template option and quality used perfect pattern, rigid or paper stencil(write template option)	N/A				N/A	N/A	N/A
8	Confirm Sheet Color (s)/Thickness(s) (Cutters to write in colour cut from and thickness)- confirm mold depth and profile	N/A				N/A	N/A	N/A
9	Please write in which Machine # the order was cut on	N/A	N/A		N/A	N/A	N/A	N/A
10	Confirm cut quality - burning/chipping /scratches(face and back)	N/A	N/A			✓		
11	Cutters confirm character size with measuring tape/ quantity by counting or spelling out -- Rest to lay in pattern/stencil	N/A	N/A			N/A		
12	Visually inspect for defects/finish quality/Grain Direction- along with confirming paint color match to fan deck	N/A	N/A	N/A	N/A	Paint		
	Operator Initials	J.D				A		
Hardware Verification								
13	Inspection Completed by	Qty	Length	Size	Initial			
	Programming -Haas -Mill		N/A					
	Material Handler							
	Shipper (Or Independent Checker if shipper is material Handler)							
Hardware/Distributed Product Check								
14	Inspection Completed by	Qty	Type and Size	Colour	Verify Address	Initial		
	Shipper							
	Independent Checker							
Comments:								
Shipping Verification- (to be completed while shipping at computer)								
15	Inspection completed by:	Verify Packing Slip	Confirm shipping address	Confirm printed label	Initial			
	Shipper							
	Independent Checker							
Signature Shipper: _____				Date: _____				

UL Listed documents enclosed



Wiring Diagram
Wiring & Install Instructions
Power Supply Electrical Req.
Master Compliance Record

Manufactured by:
 **GEMINI**
Neustadt, Ont. CND

LUXE LED Lit Letters
UL File No. E319118
12VDC LED system
(Total amps req., per power supply, listed on mfg. label)
All Sign Sections contain UL Listed (Certified) Labels

Made in Canada
2020

LUXE Letters - Lit with LEDs - **60 WATT(12 VDC), 60W (24 VDC), 96W (24 VDC)**

Warnings in English & French for Canada

F9-ULAB-A2

Rev.7/5/2024

S. Carnesi

Customer Installation/Tips/Troubleshooting Guide

Enclosed is your LUXE lit letter/logo order.

Each individual letter/logo has been custom designed and manufactured to provide a consistent Lumen output.

**Components Used**

All letters/logos have been manufactured using only UL Listed and/or Recognized components.

Gemini's UL EFILE #E319118 - UL & CSA approved.

LEDs (letters) to Power Supply Connections

It is recommended that all electrical connections be performed by a licensed electrical contractor.

Each letter/logo is equipped with LEDs and a 2-conductor cable.

Maximum 5.0 amps, at 12VDC (60 W), to LEDs. Maximum 2.5 amps, at 24VDC (60W), to LEDs.**Maximum 4.0 amps, at 24VDC (96W), to LEDs.****Standard wire connections from letter cable wires to power supply:**

Wire used between the power supply and letters may have RED/BLACK OR GRAY/WHITE wires



Pictures and drawings just show RED/BLACK

Power Supply (to LEDs)**Letters**

White or Red (+)	RED (or GRAY) coated 18AWG wire (+)
Black (-)	BLACK (or WHITE) coated 18AWG wire (-)

When Class 2 wiring circuits pass through any wall, NEC code requires use of a conduit, or a UL Certified Class 2 cable.

When these circuits run through concealed spaces, such as a drop ceilings, many codes require use of Plenum rated cable.

Power Supply (PS) to Power Source Connection

Power Supplies provided are Class 2, 12 or 24 VDC output, wet location rated, max. 277VAC input.

Do NOT mount power supply directly into letters. Amperage ratings are listed on the power supply labels.

It is recommended that lead cables not exceed 10 feet long, for proper LED performance.

Each power supply has 3 wires for input from power source.

Black is the LINE, White is NEUTRAL, and green is the GROUND.

Connect power supply to appropriate sized breaker or power cord, in accordance with National Electric Code (NEC), Article 600, UL 48 and all local electric codes. All field wiring shall be 14 AWG stranded wire.

All orders will be supplied with a wiring diagram that details letter groupings to Power Supply channels.

Power Supply Wiring - Example

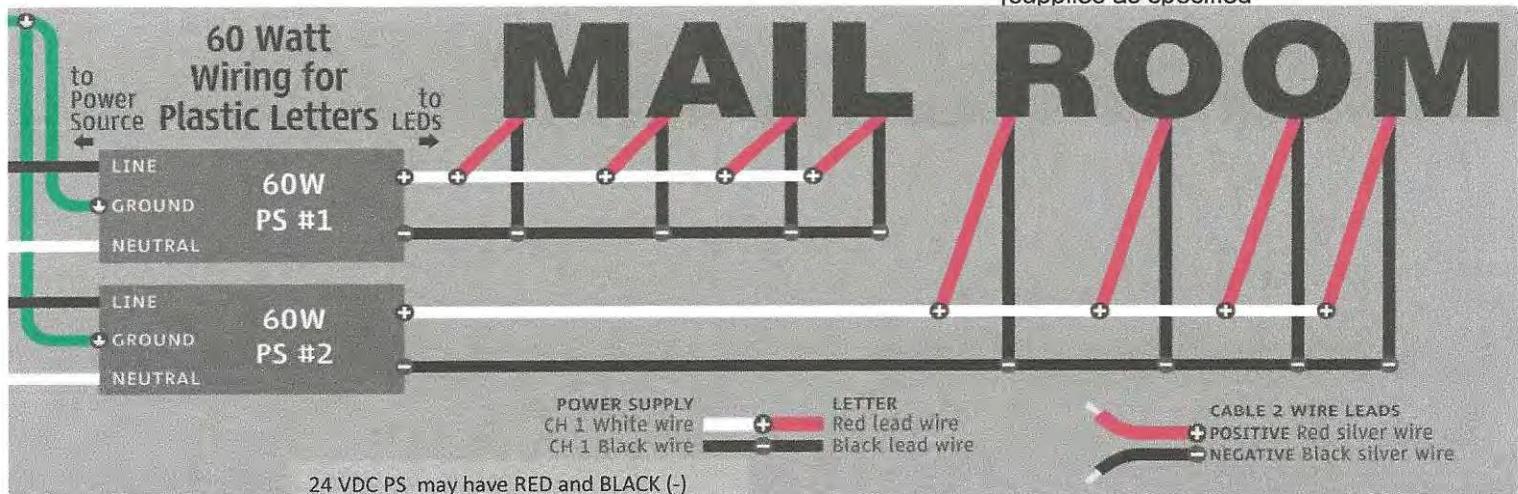
"MAIL" are powered by power supply #1.

"ROOM" are powered by power supply #2.

Caution: Plugging LEDs direct into

110VAC will destroy them.

Use ONLY Class 2,12 or 24 VDC power supplies as specified

**NOTE: The drawing above is a generic representation and can be used for****60 W (12 VDC), 60 W (24 VDC) and 96 W (24 VDC)**

Notes:

If more than one power supply is being used, disconnect ALL power supplies before servicing.

LUXE letters are designed for interior use, but are approved for exterior in certain applications.

Letter Sign Bodies/Faces

LUXE sign bodies have been filled with LEDs for illumination. Translucent faces are glued to sign bodies.

Mounting Letters to Wall

Letters backs (sign bodies) are pre-drilled and tapped to receive threaded studs.

Drill holes into mounting surface by using a Mounting Pattern (drill guide).

Fill holes with adhesive/anchors (based on mounting surface), screw studs into letters, then press into drilled holes.

Perform all wiring per local, NEC or UL requirements.

LED Modules

Each LED module has been secured inside acrylic backs with double faced tape.

LUXE letter faces are glued to sign bodies, therefore not allowing LED module service.

Use care to not get any silicone on the letter faces as this will create dark spots when the letters are lit.

LED Troubleshooting Guide

Blinking LEDs:

Blinking LEDs: Too many LEDs connected to a given power supply.

Reduce the number of letters or modules attached to your power supply.

Caution: Plugging LEDs direct into

110VAC will destroy them.

Use ONLY Class 2, 12 or 24 VDC power supplies , as specified

LEDs in one or more letters will not light:

LEDs will not light: Too many LED modules are connected to a given power supply.

Reduce the number of letters or modules attached to your power supply.

Check letter connections. Make sure lead cables are properly wired to power supply line.

Make sure all wires are connected per wiring diagram.

Reduce length of lead cables to 10ft. Maximum lengths.

Check AC input connection and/or check circuit breaker.

Some LEDs appear dim:

Ensure that the overall length of the LED system does not exceed the maximum load.

Ensure that the length of supply wire is equal to or below the recommended remote distance. LEDs used are rated for damp location use by UL, but should still be protected from exposure to moisture.

Electrical Contractor Required

It is recommended that all electrical connections be performed by a licensed electrical contractor.

Always follow proper OSHA LOTO (Lockout/Tagout) and NEC practices and procedures.

RISK OF ELECTRIC SHOCK:

Turn power OFF before inspection, installation or removal.

• Properly ground any Power Supply enclosures.

• Shut off power at fuse box or circuit breaker before install.

Prepare Electrical Wiring (Electrical Requirements)

WARNINGS!



RISK OF FIRE:

• Use only UL approved supply wires.

Field wiring must be min.14 AWG stranded wire.

• Follow all NEC and Local Electrical Codes.

• Use only UL approved wire for input connection.

Min. 1.02mm.

• The grounding and bonding of the LED Driver shall be done in accordance with NEC Article 600.

Always understand and follow all National Electric Codes (NEC) and local electrical codes.

All power supplies must be wet location rated, Class 2 rated with UL listed letters.

Entrepreneur en électricité AVERTISSEMENTS obligatoires!

Il est recommandé que toutes les connexions électriques doivent être faites par un maître électricien.

Toujours suivre OSHA LOTO (verrouillage/étiquetage) et NEC pratiques et procédures appropriées.

RISQUE DE CHOC ÉLECTRIQUE : RISQUES D'INCENDIE :

Coupez l'alimentation avant l'inspection, l'installation ou la suppression.

• Utilisez uniquement UL approuvé fils d'alimentation,

• Terre correctement tous les boîtiers alimentation minimum de 18 AWG.

• Coupez l'alimentation de la boîte à fusible ou le disjoncteur avant d'installer.

• Suivez toutes NEC et les codes électriques locaux.

• Utilisez uniquement UL fil pour l'entrée approuvé

Préparer le câblage électrique (Spécifications électriques) de connexion. Taille minimale 1,02 mm

• La mise à la terre et la liaison du conducteur de LED doivent être

effectués en conformité avec l'article NEC 600.

Toujours comprendre et suivre toutes les codes NEC (National Electric) et les codes électriques locaux.

Toutes les alimentations doivent être classé endroit humide, classe 2 avec UL lettres.



Record and maintain this record for every UL Listed shipment.

S. Carnesi

The products identified below were reviewed for compliance with applicable requirements in current version of UL48 standard, UL follow-up inspection instructions, SAM, applicable bulletins & items noted.

Customer Name: Transcontinental PLM
Order Number: # 73319le8

UL File # and ID: E319118 - LUXE Plastic Letters

Construction Type: Indoor and Outdoor rated. Sign bodies routed from cast traceable Acrylic sheet.

Illumination Source: Lit with 12 or 24 VDC LEDs

Construction Review: The Letters and/or logos were evaluated using this criteria and found to comply with UL48 requirements:

1. ✓ Sign Body with traceable cast Acrylic sheet used
 2. ✓ Enclosure (part with LEDs) with a minimum .060 wall thickness
 3. ✓ LEDs secured to sign body with DFTape. + glued
 4. ✓ Bitro Warm White Type of UL approved LEDs
 5. ✓ UL components used in this order.
 - ✓ Wire Connectors
 - ✓ End Caps glued
 6. ✓ Lead wire/cable knotted and properly connected to end LED module
 7. ✓ Line drawing with sub-assembly to power supply requirements marked
 8. ✓ LUXE wiring & installation instruction sheet copy
 9. ✓ UL components used: sub-assembly listing
 10. ✓ UL rated Class 2 power supply(s) provided
 - Qty 3 - 60x12
 - 14 - 120x12 Power Supply used

Qty 3- 60x12
14 - 120x12

Power Supply used

Performance Review: The parts were evaluated using the following critical requirements and found to comply.

- a. order tracking log for Acrylic sheet used
 - b. minimum sign body wall thickness of .060.
 - c. test light individual letters with LEDs wired to Leads.
 - d. UL labels affixed to sign bodies-location per order.
 - e. UL Labels logged and recorded
 - f. UL paperwork prepared-office copy retained.
 - g. Power supply continuity check successfully completed



Review sign-off: All of the above criteria were met satisfactorily in compliance of UL48.

YES NO

MTB Signature

Date: Oct. 24 | 25 -

~~For any boxes checked as NO, what action was taken?~~

If NO-parts re-inspected and re-tested and found to comply with requirements?

YES **NO**

MTR Signature: _____ Date: _____

note 1: If results do not comply, product must be re-worked and brought back into compliance or NOT labeled with a UL Mark. If re-worked, product must be re-inspected or re-tested to verify compliance.

note 2: Record details of results of back of this document, if non-conformances are identified, including

(see back of page) disposition and rework details. Record corrective actions taken to bring product into compliance.

note 3: Signs bearing the C-UL Mark indicate compliance with Paragraphs L42-L45 and L50-L52

Rework Documentation

If re-work was performed, note what was done to correct non-compliance.

Notes:

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number.

The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit.

Put data using drop down or using keyboard in **BLUE** cells only. All else will result in an error.

Use dropdowns for Mfg Location, Product and Project. See the Help tab for more information.

Choose Mfg Location

8

Choose Product

LIVE

Choose Power Supply Used

H120W SD 12

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ XXXXXX
SECTION OF

Enclosure # T 81654 850
120W
Channel #1
 $426 \times 0.086 = 36.636 \div 12 = 3.06$
Channel #2
 $438 \times 0.086 = 37.668 \div 12 = 3.14$
60W
 $384 \times 0.086 = 33.024 \div 12 = 2.75$

Choose LED from drop down

Bitter Karam White

LED Count	Watts per LED
1248	0.084

Total Watts	Volt DC system	PS (Watts/Vc Total)
107.325	12	8.95
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

ORDER# 7331968

P0/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1 8/6/2025 3108150

Power Enclosure T81654

Power Supply # 1

Channel # 1
Channel # 2

B **A** **K** **E** **R** **Y**

120 WATT

The diagram consists of four parallel horizontal lines representing power rails. Red lines connect the top and bottom lines to the letters B, A, K, E, R, and Y from left to right. A vertical red line connects the middle two lines to the word "WATT" at the far right.

ORDER# **7331968**

PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1 | 8/6/2025 | 3108150

Power Enclosure

T 81654

Power Supply #2
60 W

BRAKKE **ERRY**
60 WATT

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number.

The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit.

Put data using drop downs or using keyboard in **BLUE** cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box

Choose Mfg Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H120W-SD-12

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ X X X X X
SECTION OF

Enclosure #T81654 850
170W
Channel #1
 $426 \times 0.086 = 36.636 \div 12 = 3.06$
Channel #2
 $438 \times 0.086 = 37.668 \div 12 = 3.14$
60W
 $384 \times 0.086 = 33.024 \div 12 = 2.75$

Choose LED from drop down

Bitro Warm White

LED Watts
Count per LED

Total Watts	Volt DC system	PS (Watts/Vc)
107.325	12	8.95
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC
MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

ORDER# **7331968**

PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1 8/6/2025 3108150

Power Enclosure T81654

Power supply # 1

Channel # 1
Channel # 2

B **A** **K** **E** **R** **Y** **120 WATT**

ORDER# **7331968** | PO/REF#: 74-143231

| SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1 | 8/6/2025 | 3108150

Power Enclosure T 81654

Power Supply #2
60 W

B A K E R Y
60 WATT

UL ELECTRICAL RATING WORKSHEET

12VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

The supplied wiring diagram will detail the Sign Section Assembly requirements. A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure to identify it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info

Choose Mfg Location: Canada Choose Product: LUXE

Choose My Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H120W-SD-12

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ X X X X X
SECTION OF

Enclosure. Power supply
#1

$$\text{Channel 1} = 351 \times 0.086 = 30.186 \div 12 \\ = 2.52$$

Channel #2 - $426 \times 0.086 = 36.636 \div 12 = 3.05$
Power Supply #2

Channel #1 - 441x 608637.97 L/D = 3 1/

$$\text{Channel } \#2 = 426 \times 0.0865 / 36 \cdot 636 \div 12 \\ = 3.05$$

Choose LED from drop down

B. tro. Worm White.

LED Watts
Count per LED
1644 0.086

Total Watts	Volt DC <u>system</u>	PS (Watts/Vc) Total
141.384	12	11.78
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

UL ELECTRICAL RATING WORKSHEET

12 /DC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in **BLUE** cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H120W-SD-12

Sample Label



ELECTRIC
SIGN
SECTION

No. HJ XXXXXX
SECTION ____ OF

Enclosure
Power supply #1 120W

$$\text{Channel } \#1, \\ 396 \times 0.086 = 34.056 \div 12 = 2.84$$

Channel #2

$$394 \times 0.086 = 33.884 \div 12 = 2.82$$

Power supply #2 60W.

$$408 \times 0.086 = 35.088 \div 12 = 2.92$$

Choose LED from drop down

Bitco klem klite

LED Watts
Count per LED

Total Watts	Volt DC system	PS (Watts/Vc Total)
103.028	12	8.59
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC
MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

ORDER# **7331968**

P0/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025

3108150

120 WATT



ORDER# **7331968**

P0/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025

3108150

D D D O O
P R O D U C T
120WATT

Floral #1 Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total ampere rating of the circuit, identifying it as a sign section.

Put data using drop downs or using keyboard in **BLUE** cells only. All else will auto calculate.

USE DROPPDOWNS for Mfg Location, Product and P.R. See How To Use dropdowns

USE DROPPDOWNS for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location

Canada
H120W-SD-12

Choose Product

LUXE

Choose Power Supply Used

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ X X X X X
SECTION ____ OF ____

1) Power Enclosure
 $1514 \times 0.086 = 130.20 \div 12 =$
 10.85
 amps

Choose LED from drop down

Bitro Warm
white

<u>LED Count</u>	<u>Watts per LED</u>
154	0.081

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

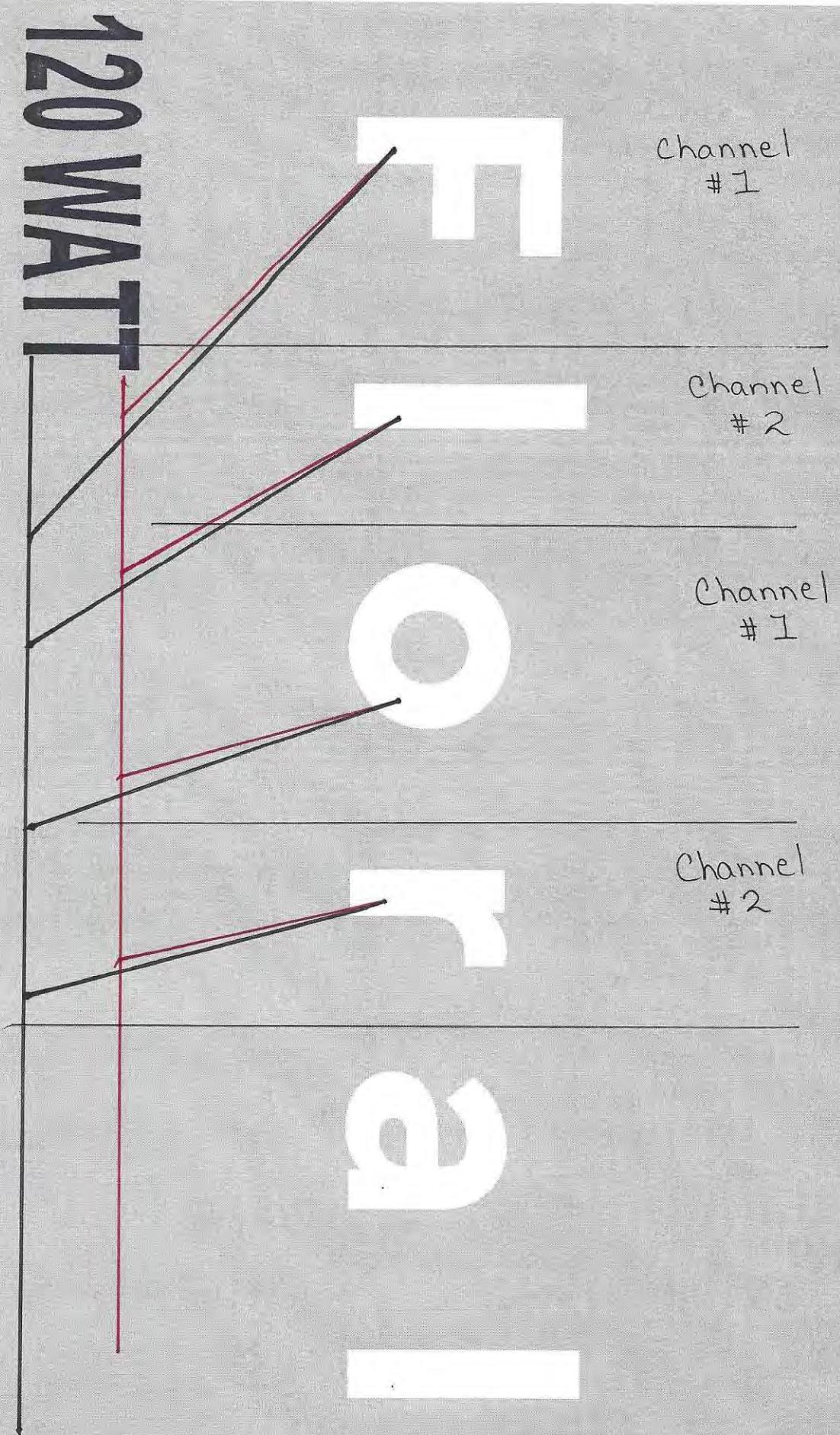
ORDER# **7331968**

PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025 3108150



Floral # 6- Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H120W-SD-12

Choose LED from drop down

Bitro Warm White

LED Watts
Count per LED

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

ORDER# **7331968**

PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

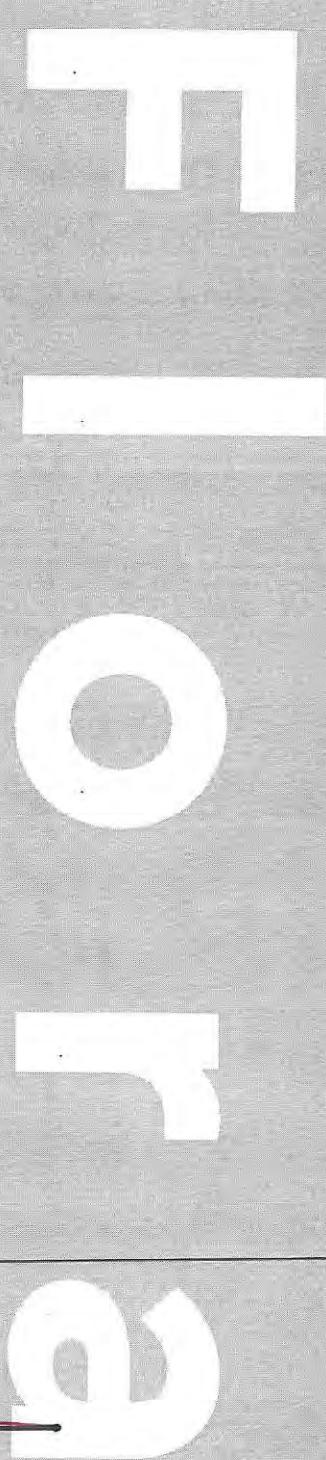
VERSION 1

8/6/2025

3108150

6) Power Enclosure

120WATT



ORDER# **7331968**

P0/REF#: 74-143231

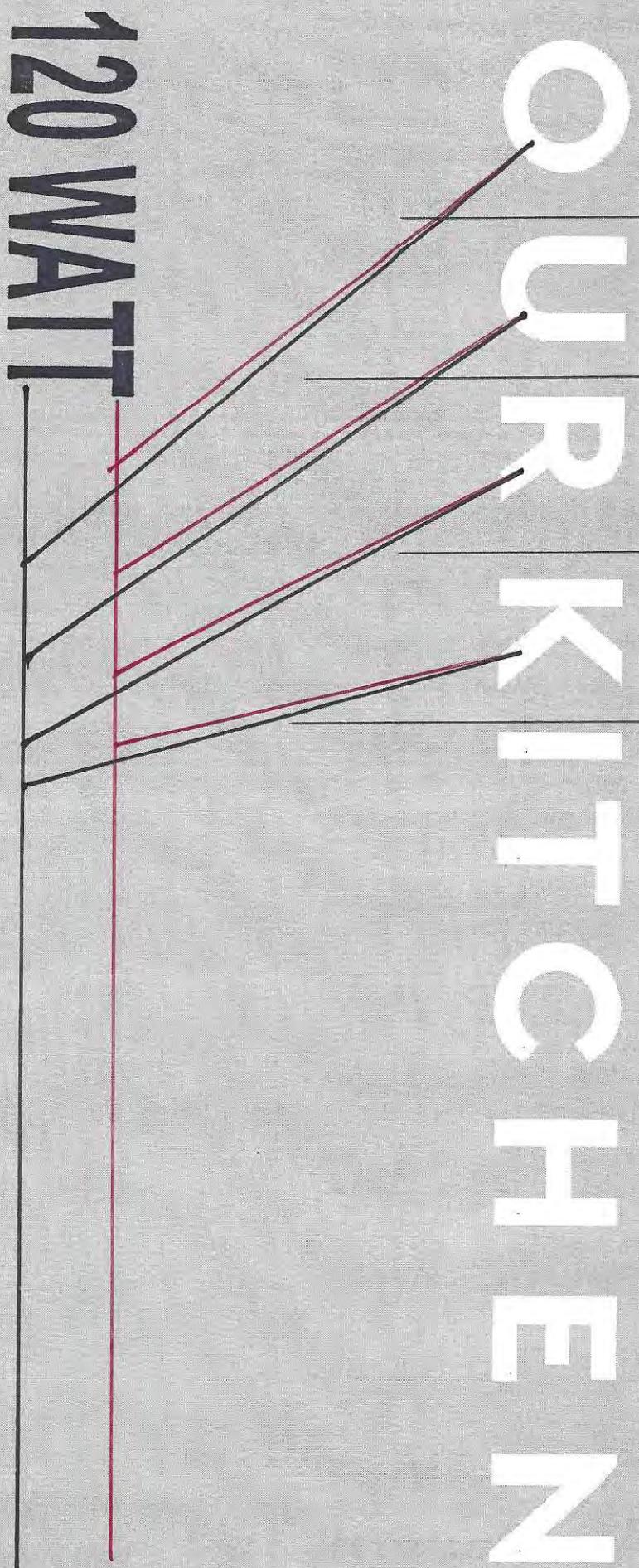
SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025 ✓

3108150

1 - Power Enclosure



1 - Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amount

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location **Canada** **Choose Product**

Choose Power Supply

Canada
H120W-SD-12

Choose Product

LUXE

Sample Label



ELECTRIC
SIGN
SECTION

No. HJ XXXXXX
SECTION ____ OF ____

$$1) \text{ Power Enclosure} \\ 2127 \times 0.086 = 182.92 \div 12 = \\ 15.24 \text{ amps}$$

Choose LED from drop down

Bitro Warm white

LED Count	Watts per LED
3137	0.0816

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

ORDER# **7331968**

PO/REF#: 74-143231

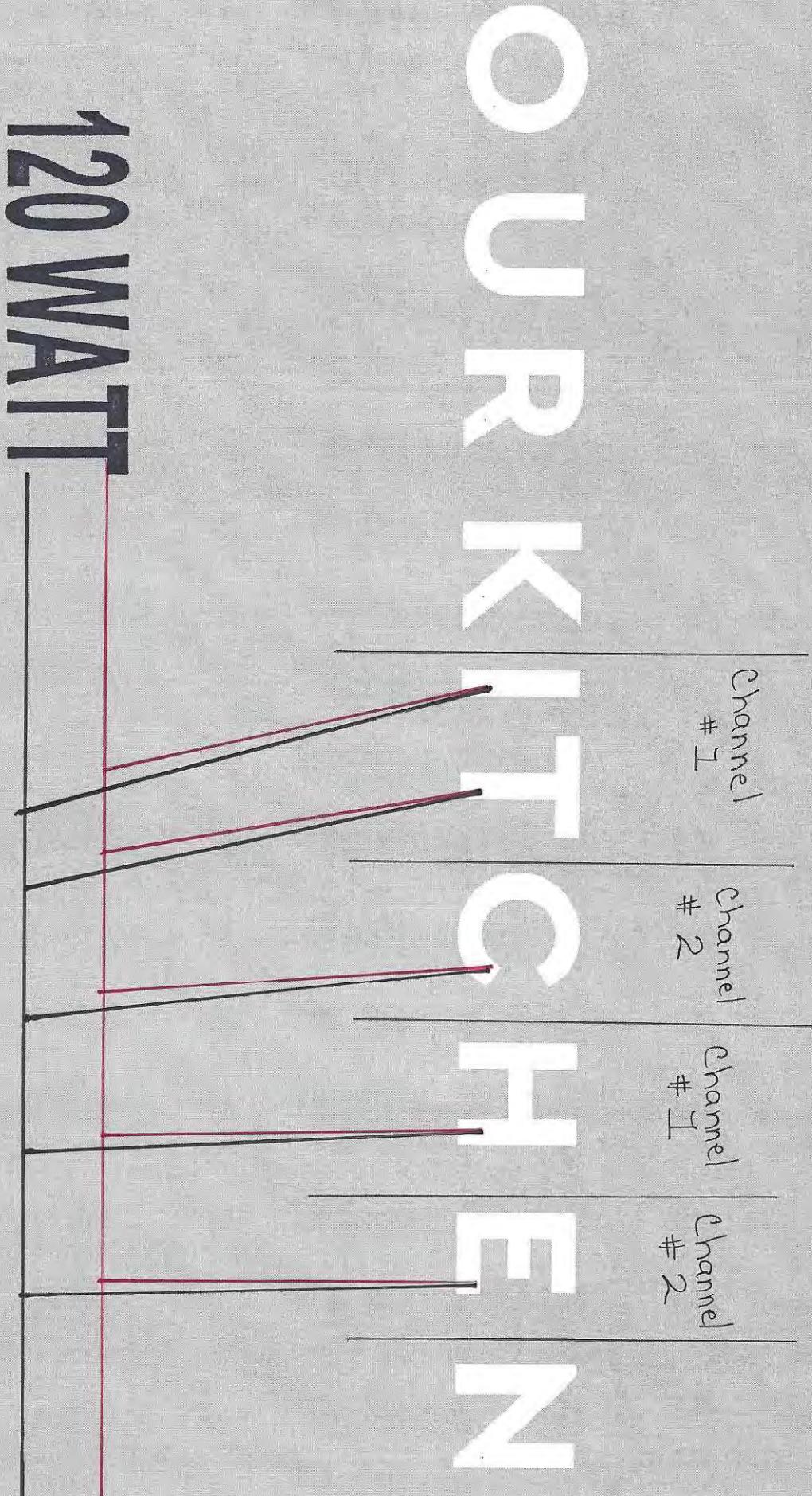
SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025

3108150

#6 Power Enclosure



6 - Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

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A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPDOWNS for Mfg Location, Product and Power Supply Used to load correct info into the box

Choose Mfg Location Canada **Choose Product**

Choose My Location

Canada

Choose Product

LUXE

Sample Label



ELECTRIC
SIGN
SECTION

No. HJ XXXXXX
SECTION ____ OF

b) Power Enclosure
 $2115 \times 0.086 = 181.89 \div 12 =$
 15.15
 amps

Choose LED from drop down

LED Count Watts per LED

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

Bitro Warm white

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

ORDER# **7331968** | PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

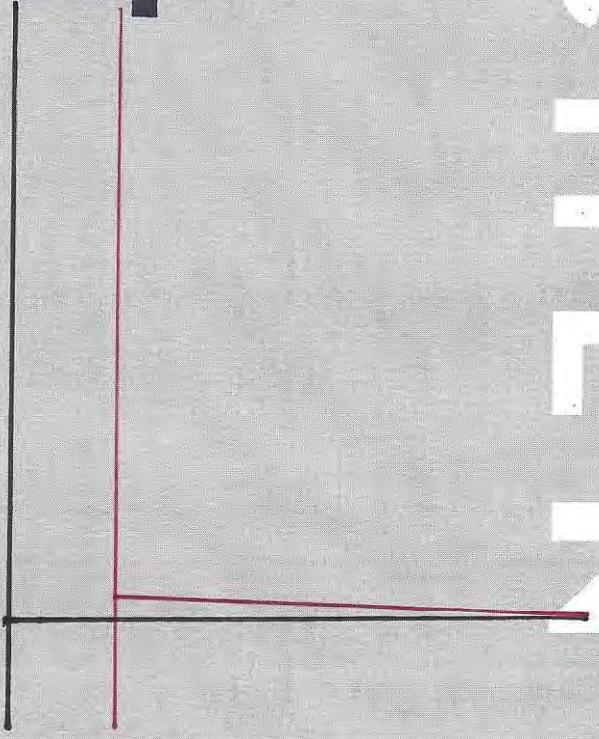
VERSION 1

8/6/2025 | 3108150

12 - Power Enclosure

OUR KITCHEN

120WATT



12 - Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H60W-SD-12



**ELECTRIC
SIGN
SECTION**

No. HJ X X X X X
SECTION _____ OF _____

12) Power Enclosure
 $580 \times 0.086 = 49.88 \div 12 =$
 4.15
 amps.

Choose LED from drop down

LED Count Watts per LED

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

Bitro Warm White

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

UL Listed documents enclosed



Wiring Diagram
Wiring & Install Instructions
Power Supply Electrical Req.
Master Compliance Record

Manufactured by:



LUXE LED Lit Letters
UL File No. E319118
12VDC LED system

(Total amps req., per power supply, listed on mfg. label)
All Sign Sections contain UL Listed (Certified) Labels

Made in Canada
2020

LUXE Letters - Lit with LEDs - **60 WATT**(12 VDC), 60W (24 VDC), 96W (24 VDC)

Warnings in English & French for Canada

F9-ULAB-A2

Rev.7/5/2024

S. Carnesi

Customer Installation/Tips/Troubleshooting Guide

Enclosed is your LUXE lit letter/logo order.

Each individual letter/logo has been custom designed and manufactured to provide a consistent Lumen output.

**Components Used**

All letters/logos have been manufactured using only UL Listed and/or Recognized components. Gemini's UL EFILE #E319118 - UL & CSA approved.

LEDs (letters) to Power Supply Connections

It is recommended that all electrical connections be performed by a licensed electrical contractor.

Each letter/logo is equipped with LEDs and a 2-conductor cable.

Maximum 5.0 amps, at 12VDC (60 W), to LEDs. Maximum 2.5 amps, at 24VDC (60W), to LEDs.**Maximum 4.0 amps, at 24VDC (96W), to LEDs.****Standard wire connections from letter cable wires to power supply:**

Wire used between the power supply and letters may have RED/BLACK OR GRAY/WHITE wires

Pictures and drawings just show RED/BLACK

Power Supply (to LEDs)**Letters**

White or Red (+)	RED (or GRAY) coated 18AWG wire (+)
Black (-)	BLACK (or WHITE) coated 18AWG wire (-)



When Class 2 wiring circuits pass through any wall, NEC code requires use of a conduit, or a UL Certified Class 2 cable.

When these circuits run through concealed spaces, such as a drop ceilings, many codes require use of Plenum rated cable.

Power Supply (PS) to Power Source Connection

Power Supplies provided are Class 2, 12 or 24 VDC output, wet location rated, max. 277VAC input.

Do NOT mount power supply directly into letters. Amperage ratings are listed on the power supply labels.

It is recommended that lead cables not exceed 10 feet long, for proper LED performance.

Each power supply has 3 wires for input from power source.

Black is the LINE, White is NEUTRAL, and green is the GROUND.

Connect power supply to appropriate sized breaker or power cord, in accordance with National Electric Code (NEC), Article 600, UL 48 and all local electric codes. All field wiring shall be 14 AWG stranded wire.

All orders will be supplied with a wiring diagram that details letter groupings to Power Supply channels.

Power Supply Wiring - Example

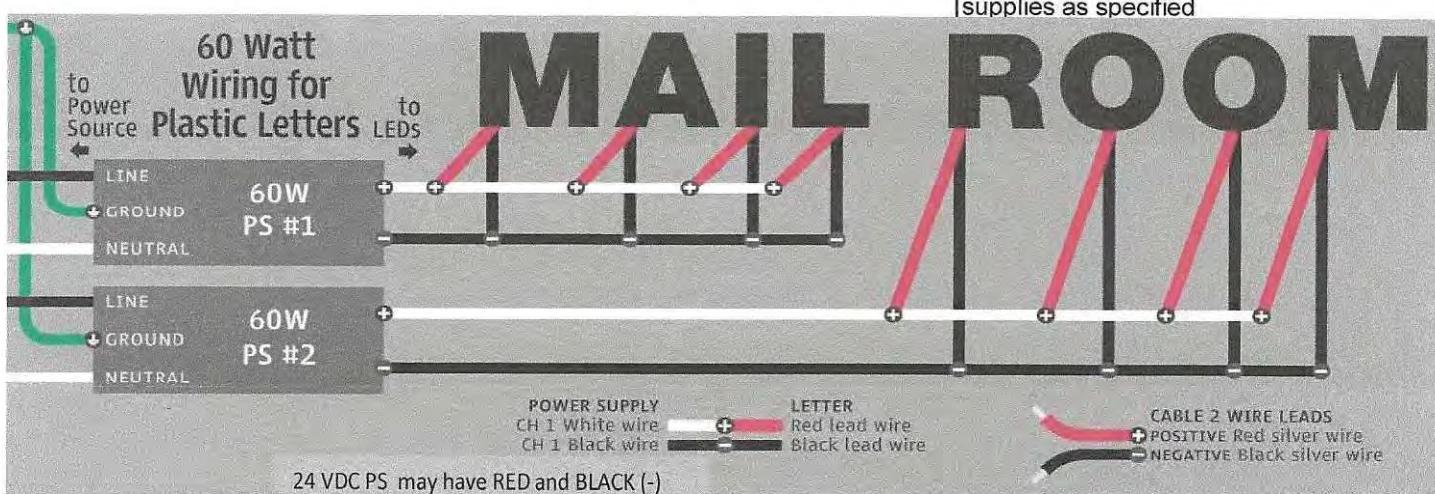
"MAIL" are powered by power supply #1.

"ROOM" are powered by power supply #2.

Caution: Plugging LEDs direct into

110VAC will destroy them.

Use ONLY Class 2,12 or 24 VDC power supplies as specified

**NOTE: The drawing above is a generic representation and can be used for****60 W (12 VDC), 60 W (24 VDC) and 96 W (24 VDC)**

Notes:

If more than one power supply is being used, disconnect ALL power supplies before servicing.

LUXE letters are designed for interior use, but are approved for exterior in certain applications.

Letter Sign Bodies/Faces

LUXE sign bodies have been filled with LEDs for illumination. Translucent faces are glued to sign bodies.

Mounting Letters to Wall

Letters backs (sign bodies) are pre-drilled and tapped to receive threaded studs.

Drill holes into mounting surface by using a Mounting Pattern (drill guide).

Fill holes with adhesive/anchors (based on mounting surface), screw studs into letters, then press into drilled holes.

Perform all wiring per local, NEC or UL requirements.

LED Modules

Each LED module has been secured inside acrylic backs with double faced tape.

LUXE letter faces are glued to sign bodies, therefore not allowing LED module service.

Use care to not get any silicone on the letter faces as this will create dark spots when the letters are lit.

LED Troubleshooting Guide**Blinking LEDs:**

Blinking LEDs: Too many LEDs connected to a given power supply.

Reduce the number of letters or modules attached to your power supply.

Caution: Plugging LEDs direct into

110VAC will destroy them.

Use ONLY Class 2,12 or 24 VDC power supplies , as specified

LEDs in one or more letters will not light:

LEDs will not light: Too many LED modules are connected to a given power supply.

Reduce the number of letters or modules attached to your power supply.

Check letter connections. Make sure lead cables are properly wired to power supply line.

Make sure all wires are connected per wiring diagram.

Reduce length of lead cables to 10ft. Maximum lengths.

Check AC input connection and/or check circuit breaker.

Some LEDs appear dim:

Ensure that the overall length of the LED system does not exceed the maximum load.

Ensure that the length of supply wire is equal to or below the recommended remote distance. LEDs used are rated for damp location use by UL, but should still be protected from exposure to moisture.

Electrical Contractor Required**WARNINGS!**

It is recommended that all electrical connections be performed by a licensed electrical contractor.

Always follow proper OSHA LOTO (Lockout/Tagout) and NEC practices and procedures.

RISK OF ELECTRIC SHOCK:

Turn power OFF before inspection, installation or removal.

- Properly ground any Power Supply enclosures.

- Shut off power at fuse box or circuit breaker before install.

Prepare Electrical Wiring (Electrical Requirements)**RISK OF FIRE:**

- Use only UL approved supply wires.

Field wiring must be min.14 AWG stranded wire.

- Follow all NEC and Local Electrical Codes.

- Use only UL approved wire for input connection.

Min. 1.02mm.

- The grounding and bonding of the LED Driver shall be done in accordance with NEC Article 600.

Always understand and follow all National Electric Codes (NEC) and local electrical codes.

All power supplies must be wet location rated, Class 2 rated with UL listed letters.

Entrepreneur en électricité AVERTISSEMENTS obligatoires!

Il est recommandé que toutes les connexions électriques doivent être faites par un maître électricien.

Toujours suivre OSHA LOTO (verrouillage/étiquetage) et NEC pratiques et procédures appropriées.

RISQUE DE CHOC ÉLECTRIQUE : RISQUES D'INCENDIE :

Coupez l'alimentation avant l'inspection, l'installation ou la suppression.

- Utilisez uniquement UL approuvé fils d'alimentation,

- Terre correctement tous les boîtiers alimentation minimum de 18 AWG.

- Coupez l'alimentation de la boîte à fusible ou le disjoncteur avant d'installer.

- Suivez toutes NEC et les codes électriques locaux.

- Utilisez uniquement UL fil pour l'entrée approuvé

Préparer le câblage électrique (Spécifications électriques) de connexion. Taille minimale 1,02 mm

- La mise à la terre et la liaison du conducteur de LED doivent être

effectués en conformité avec l'article NEC 600.

Toujours comprendre et suivre toutes les codes NEC (National Electric) et les codes électriques locaux.

Toutes les alimentations doivent être classé endroit humide, classe 2 avec UL lettres.



#1 Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

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When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number.

The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit.

Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box

Choose Mfg Location

Canada

Cheese Product

114

Choose Power Supply Used

H120W-SD-12

Sample Label



ELECTRIC
SIGN
SECTION

No. HJ XXXXXX
SECTION ____ OF

Power Enclosure
 $220.5 \times 0.086 = 189.63 \div 12 =$
15.79
amps

Choose LED from drop down

Warm white

Flex

LED Count	Watts per LED
2305	0.086

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

ORDER# **7331968**

PO/REF#: 74-143231

SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025

3108150

#1 Power Enclosure

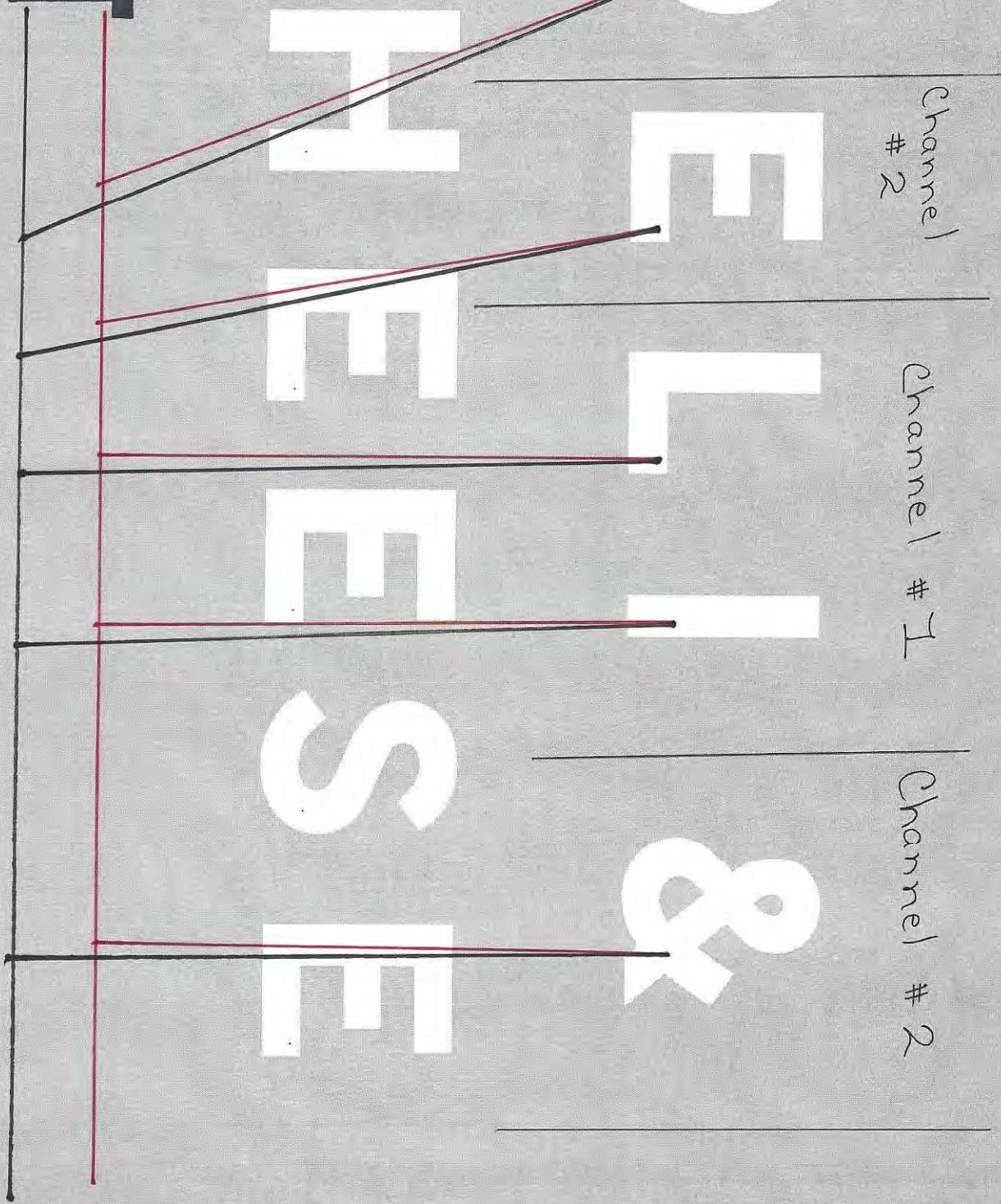
Channel
#1

Channel
#2

Channel #1

Channel #2

120WATT



M - Power Enclosure

UL ELECTRICAL RATING WORKSHEET

VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

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A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit. Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box

Choose Mfg Location

Canada

Choose Product

114

Choose Power Supply Used

H120W-SD-12

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ XXXXXX
SECTION OF

7) Power Enclosure

$$2028 \times 0.086 = 174.40 \div 12 = \\ 14.53 \\ \text{amps.}$$

Choose LED from drop down

Warm white

Flex

<u>LED Count</u>	<u>Watts per LED</u>
2028	0.0812

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

ORDER# **7331968**

PO/REF#: 74-143231

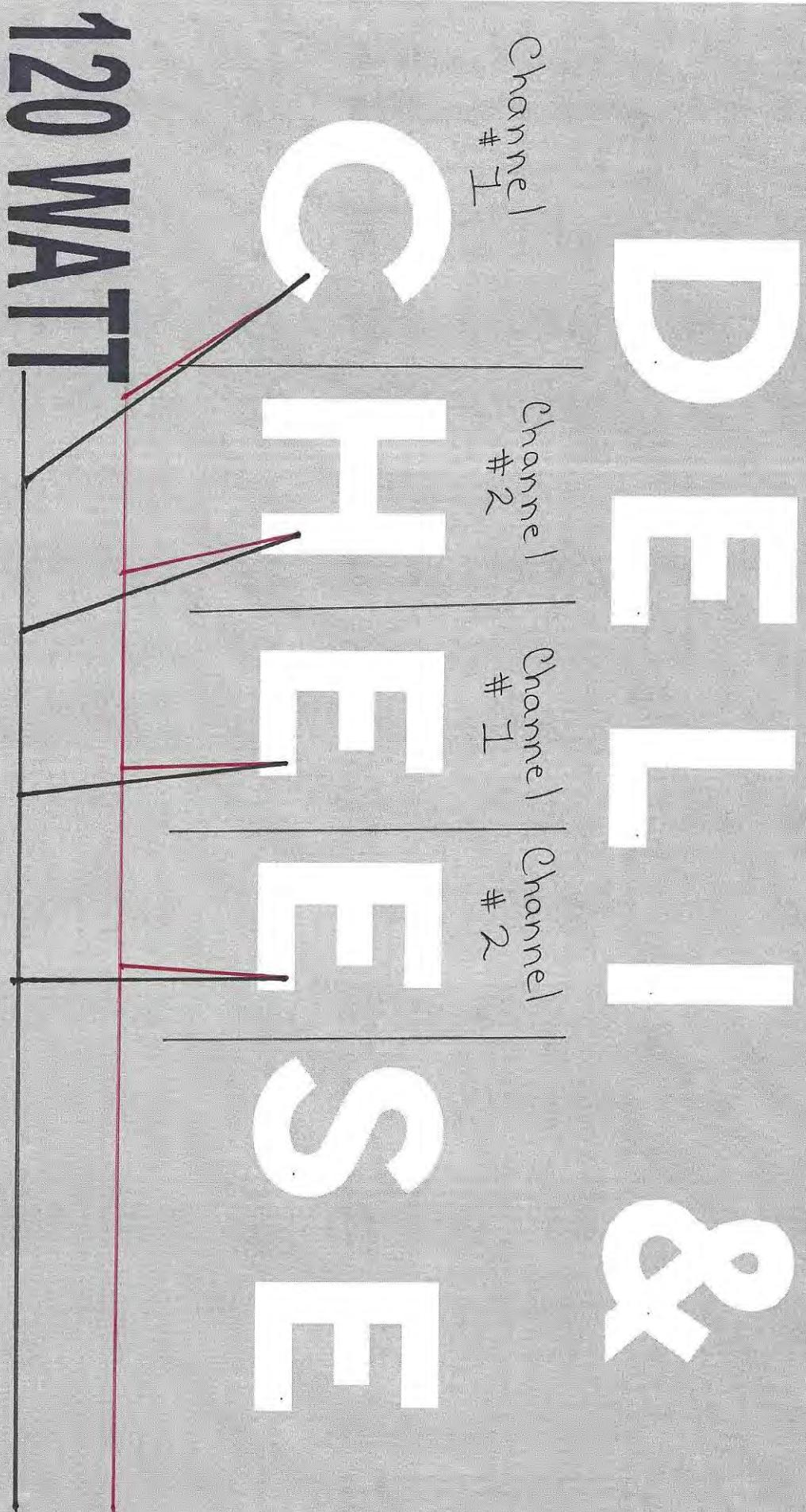
SALESPERSON: AIRENE G.@ EXT.3243

VERSION 1

8/6/2025

3108150

T-Power Enclosure



12 - Power Enclosure

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number. The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total ampere rating.

Put data using drop downs or using keyboard in **BLUE** cells only. All else will auto calculate.

USE DROPPDOWNS for Mfg Location, Product and Power Supply

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box.

Choose Mfg Location

Canada
H120W-SD-12

Choose Product

LUXE

Choose Power Supply Used

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ X X X X X
SECTION ____ OF ____

#12) Power Enclosure
 $94.9 \times 0.086 = 81.61 \div 12 =$
6.80
amps.

Choose LED from drop down

Warm white
Flex

LED Count	Watts per LED
949	0.086

Total Watts	Volt DC system	PS (Watts/Vc) Total
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

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UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number.

The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit.

Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNS for Mfg Location, Product and Power Supply Used to load correct info into the box.

USE DROPPDOWNs for Mfg Location, Product and Power Supply used to load correct info into the box.

Choose Mfg Location

Canada

Choose Product

LUXE

Choose Power Supply Used

H120W-SD-12

Sample Label



ELECTRIC
SIGN
SECTION

No. HJ XXXXXX
SECTION ____ OF ____

$$1) \text{ Power Enclosure} \\ 1759 \times 0.086 = 151.27 \div 12 = \\ 12.60 \text{ amps}$$

T 81654966.

Choose LED from drop down

Bitro Warm White

<u>LED Count</u>	<u>Watts per LED</u>
159	0.086

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC
MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

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VERSION 1 8/6/2025 3108150

1 - Power Enclosure

Channel
#1

Channel
#2

Channel
#1

Channel
#2

Power
Supply
Module

120WATT

UL ELECTRICAL RATING WORKSHEET

12 VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections or Electric Sign, and provides a total module, watts, and amperage requirement by power supply.

Rev.2/2/25

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number else it is just a single Iednic sign (sign section will be NA).

The supplied wiring diagram will detail the Sign Assembly requirements and sign sections as applicable.

A UI-Label will also be affixed to each enclosure, identifying it as a sign section or complete Electric Sign.

A manufacturer label will be placed on each enclosure identifying it as a sign section or complete Electric Sign.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the unit.

USE PROBABILITY for Max Location, Rank 1, 10%, or 20% of Max Location

SEE BROJ BROWNS IS

ation, P

ed to load correctly

1

Choose My Location

Canada



⑥ Power Enclosure
 $1489 \times 0.086 = 128.05 \div 12 =$
10.67 amps

Choose LED from drop down

Bitro Flex

warm white

LED Count	Watts per LED
1429	0.086

Total <u>Watts</u>	Volt DC <u>system</u>	S (Watts/Volts) <u>Total</u>
0.00	12	0.00
90% max amps		4.5

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC

MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

MAXIMUM 5.0 Amps - per 60 watt Power Supply - at 12VDC

Note: H120W-SD-12 is just two channels, each 60 W. A separate sheet should be completed for each channel. Plan for no more than 90% of maximum to be loaded on the power supply. "AMPS Total" will turn RED if over.

Plan for no more than 90% of maximum to be loaded on the power supply. "AMPS Total" will turn RED if over the 90% threshold for 60 W or 96W.

Watts per LED will autofill based on LED choice

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#6 - Power Supply

Channel #1

#2

Channel #1

#2

Channel #1

#2

B
h
a
r
m
a
g
c
y

120WATT

UL ELECTRICAL RATING WORKSHEET

12VDC SYSTEM

This worksheet details the module count of UL Listed Sign Sections, and provides a total module, watts, and amperage requirement, by power supply.

When UL Listing a set of sub-assemblies, each component will be labeled with a sign section number.

The supplied wiring diagram will detail the Sign Section Assembly requirements.

A UL label will also be affixed to each enclosure, identifying it as a sign section.

A manufacturer label will be placed on each enclosure, identifying the total amperage draw for the Sign Sections being lit.

Put data using drop downs or using keyboard in BLUE cells only. All else will auto calculate.

USE DROPPDOWNs for Mfg Location, Product and Power Supply Used to load correct info into the box

Choose Mfg Location

Canada

Cheese Product

1145

Choose Power Supply Used

H60W-SD-12

Sample Label



**ELECTRIC
SIGN
SECTION**

No. HJ XXXXXX
SECTION OF

10) Power Enclosure

$$404 \times 0.086 = 34.74 \div 12 = \\ 2.89 \\ \text{amps.}$$

Choose LED from drop down

<u>LED</u>	<u>Watts</u>
<u>Count</u>	<u>per LED</u>
404	0.086

Total Watts	Volt DC system	PS (Watts/Vc Total)
0.00	12	0.00
90% max amps		4.5

Bitro Warm white
Flex

MAXIMUM 2.5 Amps - per 60 watt Power Supply - at 24VDC
MAXIMUM 4.0 Amps - per 96 watt Power Supply - at 24VDC

re $E_8 \times U(1) \oplus U(3) \times S_3$ with S_3 generated by

Maximum 5 Amp-60 watt Power Supply - at 12VDC

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#10 - Power Enclosure

Pharmacy

60WATT

