



## BOM 1 - Assembly of God

Oct 17 2024

Sitka, AK, USA

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**Job Name :** Assembly of God  
**Manufacturer :** GM LIGHTING  
**Model Number :** LTR-P-WP-24V-1.5W-30K-16

**Type :**

# LTR-P Professional Series

## Wet Location, 24VDC 1.5W / 3.0W / 5.8W LED Tape Specification Sheet



Project Name	Type
Catalog #	Date



### PRODUCT OVERVIEW

GM's Professional Outdoor Series Flexible LED Tape combines style and technology with reliability for wet location. Designed for professional installations that demand a high level of quality, the LTR-P Series boasts a wide array of key features and is available in 16'-4" (5M), 98'-6" (30M) reels or custom cuts. Do not submerge in water.

### FEATURES

- 24VDC
- 2400K, 2700K, 3000K, 3500K, 4000K and 5000K as well as Amber, Red, Green, Blue color temps
- Remote control with GM's LUXcontrol™ App and controllers (requires NEMA box - by others)
- LM80 / IP65
- 120 LEDs per meter
- Cuttable every 2"
- Wet location
- Optical clear UV protected silicone sheath
- Premium diodes
- 120° viewing angle
- Dimmable
- Maximum run on a given lead is 60' (1.5W), 32'-8" (3.0W), 16'-4" (5.8W)



LTR-P-WP Wet Location Connector

Install Sheet



### SPECIFICATIONS

#### ELECTRICAL

- 24V
- 1.5W, 3W and 5.8 watts per foot

#### OPTICS

- 90+ CRI

#### OPERATING TEMP

- -4°F to 122°F

#### CERTIFICATION

- UL
- May comply with Title 24 with select power supplies
- Class 2
- Closet Rated. Compliant with NFPA 70, NEC section 410.16 (A)(3) and 410.16 (C)(5), excluding colors -AM, -BL, -RD, -GR and LTR-P-WP-24V-1.5W

#### WARRANTY

- 5-year warranty when paired with GM power supply

### ORDERING INFORMATION

Example: LTR-P-WP-24V-3W-24K-16

Model	Series	Location	Voltage	Wattage	Color Temp	Reel Length
LTR	P	WP	24V	1.5W	24K	16
				3W	27K	100
				5.8W	30K	*FT
					35K	
					40K	
					50K	
LTR	P	WP	24V	1.5W	AM	*FT
					RD	100
					GR	
					BL	

Reel Length: 16 = 16'-4"; 100=98'-6"  
 \* Custom cuts available, consult factory



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LTRPWP-0341422  
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**Job Name :** Assembly of God  
**Manufacturer :** GM LIGHTING  
**Model Number :** LTR-P-WP-24V-1.5W-30K-16

**Type :**

# LTR-P Professional Series

## Wet Location, 24VDC 1.5W / 3.0W / 5.8W

### LED Tape Specification Sheet



Catalog No.	Length	Lumens	CRI	Color Temp.	Max. Run
LTR-P-WP-24V-1.5W-24K-16 /-100 /-FT	16'-4" / 5M or, 98'-6" / 30M or, CUSTOM CUT FEET-INCHES (CUTS MADE IN 2" INCREMENTS)	102	90+	2400K	60'
LTR-P-WP-24V-1.5W-27K-16 /-100 /-FT		109	90+	2700K	60'
LTR-P-WP-24V-1.5W-30K-16 /-100 /-FT		121	90+	3000K	60'
LTR-P-WP-24V-1.5W-35K-16 /-100 /-FT		121	90+	3500K	60'
LTR-P-WP-24V-1.5W-40K-16 /-100 /-FT		136	90+	4000K	60'
LTR-P-WP-24V-1.5W-50K-16 /-100 /-FT		144	90+	5000K	60'
LTR-P-WP-24V-1.5W-AM-100 / -FT	98'-6" / 30M or, CUSTOM CUT FEET-INCHES (CUTS MADE IN 2" INCREMENTS)	N/A	N/A	Amber	60'
LTR-P-WP-24V-1.5W-RD-100 / -FT		N/A	N/A	Red	60'
LTR-P-WP-24V-1.5W-GR-100 / -FT		N/A	N/A	Green	60'
LTR-P-WP-24V-1.5W-BL-100 / -FT		N/A	N/A	Blue	60'
LTR-P-WP-24V-3.0W-24K-16 /-100 /-FT	16'-4" / 5M or, 98'-6" / 30M or, CUSTOM CUT FEET-INCHES (CUTS MADE IN 2" INCREMENTS)	210	90+	2400K	32'-8"
LTR-P-WP-24V-3.0W-27K-16 /-100 /-FT		225	90+	2700K	32'-8"
LTR-P-WP-24V-3.0W-30K-16 /-100 /-FT		242	90+	3000K	32'-8"
LTR-P-WP-24V-3.0W-35K-16 /-100 /-FT		246	90+	3500K	32'-8"
LTR-P-WP-24V-3.0W-40K-16 /-100 /-FT		254	90+	4000K	32'-8"
LTR-P-WP-24V-3.0W-50K-16 /-100 /-FT		265	90+	5000K	32'-8"
LTR-P-WP-24V-5.8W-24K-16 /-100 /-FT	16'-4" / 5M or, 98'-6" / 30M or, CUSTOM CUT FEET-INCHES (CUTS MADE IN 2" INCREMENTS)	390	90+	2400K	16'-4"
LTR-P-WP-24V-5.8W-27K-16 /-100 /-FT		404	90+	2700K	16'-4"
LTR-P-WP-24V-5.8W-30K-16 /-100 /-FT		423	90+	3000K	16'-4"
LTR-P-WP-24V-5.8W-35K-16 /-100 /-FT		462	90+	3500K	16'-4"
LTR-P-WP-24V-5.8W-40K-16 /-100 /-FT		473	90+	4000K	16'-4"
LTR-P-WP-24V-5.8W-50K-16 /-100 /-FT		493	90+	5000K	16'-4"

Includes (20) silicon mounting clips and screws, (2) silicon end caps.  
Kelvin temperature (color) ±100K.

**DO NOT SUBMERGE DIRECTLY IN WATER.**  
**WE RECOMMEND A 25% TO 80% LOAD FOR OPTIMAL PERFORMANCE.**  
**SEE WEBSITE FOR COMPLETE LIST OF POWER SUPPLIES AND COMPATIBLE DIMMERS.**

#### ACCESSORIES

Model	Description
LTR-P-WP-TPC-12	Tape to power supply wet location connector (end cap included)
LTR-P-WP-TTC-3	3" tape to tape wet location connector
LTR-P-WP-TTC-6	6" tape to tape wet location connector
LTR-P-WP-TTC-12	12" tape to tape wet location connector
LTR-P-WP-TTC-24	24" tape to tape wet location connector

#### CONTROLLERS

Model	Description
SHWC	Smart 2.4 GHz WiFi Controller, Standard 12V/24V Low Voltage, 1-Channel / 2-Wire
SHWC-RGBW-RPT	Universal Smart Power Repeater

Note: For wet location applications, use NEMA box (by others)

#### COMPATIBLE CHANNELS

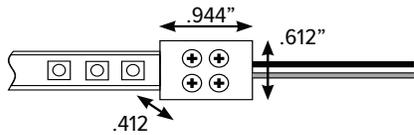
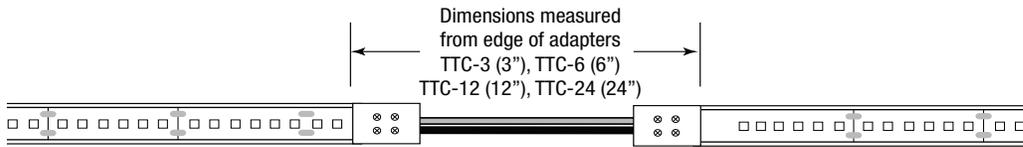
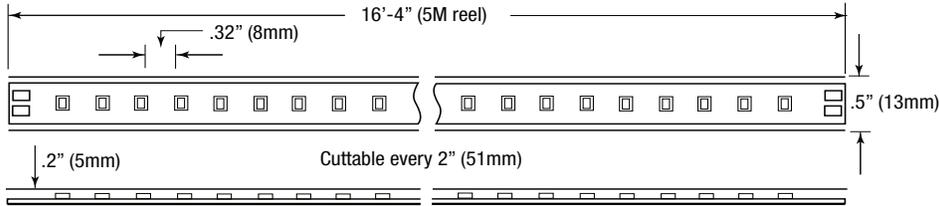
Product No.	Description
LED-CHL-45-1200	Extruded angled (45°) channel. Includes snap-on frosted lens with mounting clips and screws. 4ft.
LED-CHL-XD	Extra deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. 4ft.
LED-CHL-XD-8	Extra deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws. 8ft.
LED-CHL-XD-F	Extra deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws. 4ft.
LED-CHL-XD-F-8	Extra deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws. 8ft.

# LTR-P Professional Series

## Wet Location, 24VDC 1.5W / 3.0W / 5.8W LED Tape Specification Sheet



### DIMENSION



**Job Name :** Assembly of God  
**Manufacturer :** GM LIGHTING  
**Model Number :** LD-MD-UNV96-24

**Type :**

# Magnetic Dimmable

## 12/24VDC LineDRIVE Power Supply

### Specification Sheet



Project Name	Type
Catalog #	Date



#### PRODUCT OVERVIEW

LED dimming magnetic power supply that works with conventional low voltage magnetic wall mount dimmer with on/off switch. 12 or 24 VDC output. 120 or 277 VAC input. Highest efficiency with auto reset. Compatible with standard low voltage magnetic dimmers. Not recommended for digital control systems.

#### FEATURES

- Multi-tap Class 2
- 120VAC and 277VAC dual input
- Auto-reset protection for short circuit
- NEMA 3R enclosure with built-in junction box
- Fanless design, cooling by free air convection
- Dimmable with compatible MLV dimmers
- Suitable indoor/outdoor wet locations when mounted vertically
- ETL Listed. Conf. to UL2108. Cert. CSA C22.2 No. 250.2
- 5-Year warranty



#### SPECIFICATIONS

##### ELECTRICAL

- 12V/24VDC
- 120/277VAC / 60Hz input
- Load: min. 20% to max. 80% for optimal performance

##### HOUSING

- Black powder coated steel enclosure
- Cooling by free-air convection

##### ENVIRONMENT

- Outdoor / wet location NEMA 3R enclosure. For vertical mounting only.

##### OPERATING TEMP

- 0 to 104°F (-18 to +40°C)

##### CERTIFICATION

- ETL compliant
- Cert. CSA C22.2 No. 250.2
- Class 2

##### WARRANTY

- 5-year warranty

#### ORDERING INFORMATION

Example: LD-MD-UNV60

Model	Series	Type	Watts	Voltage
LD	MD	UNV	30	*(Blank)
			60	*(Blank)
			96	24
			150	12
			200	24
			300	24

\*LD-MD-UNV30 and LD-MD-UNV60 are dual voltage (12/24VDC)



# Magnetic Dimmable

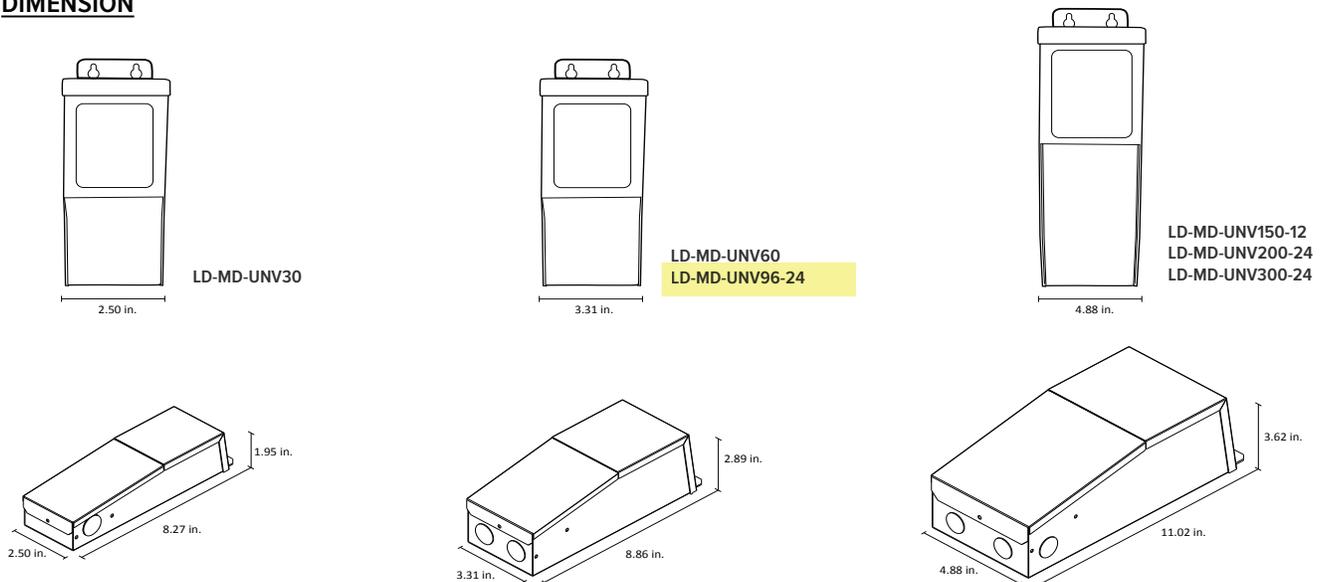
## 12/24VDC LineDRIVE Power Supply

### Specification Sheet



	LD-MD-UNV30	LD-MD-UNV60	LD-MD-UNV96-24	LD-MD-UNV150-12	LD-MD-UNV200-24	LD-MD-UNV300-24
<b>Specs</b>	30W / 2.5A@12VDC 1.25A@24VDC	60W / 5A@12VDC 2.50A@24VDC	96W / 4.00A@24VDC	Multi-tap 150W (50W x 3) 4.16A@12VDC	Multi-tap 192W (96W x 2) 4.00A@24VDC	Multi-tap 288W (96W x 3) 4.00A@24VDC
<b>Derated Watts</b>	25.5W	51W	81.6W	127.5W	170W	255W
<b>Class 2 / Non Class 2</b>	Yes / Yes					
<b>Recommended Load</b>	Recommended load: 40% to 85% for optimal performance					
<b>Input Current Full Load</b>	120VAC: 342mA 277VAC: 146mA	120VAC: 663mA 277VAC: 290mA	120VAC: 0.89A 277VAC: 0.39A	120VAC: 1.33A 277VAC: 0.57A	120VAC: 1.71A 277VAC: 0.73A	120VAC: 2.63A 277VAC: 1.15A
<b>Output Full Load</b>	11.8VDC or 23.5VDC	11.3VDC or 23.2VDC	22.6VDC	12.5VDC	22.8VDC	23.8VDC
<b>Open Circuit Output Voltage</b>	14.5VDC & 27.5VDC	12.9VDC & 25.4VDC	25.2VDC	12.9VDC	25.3VDC	26.0VDC
<b>Circuit Protection</b>	Primary auto reset thermal fuse and secondary auto reset	Primary auto reset thermal fuse and secondary auto reset	Primary auto reset thermal fuse and secondary auto reset	Primary auto reset thermal fuse and secondary auto reset	Primary auto reset thermal fuse and secondary auto reset	Primary auto reset thermal fuse and secondary auto reset
<b>Efficiency / Power Factor</b>	82% / 0.92	85% / 0.87	86% / 0.98	93% / 0.98	91% / 0.99	91% / 0.99
<b>Dimensions</b>	8.27 x 2.5 x 1.95 in.	8.86 x 3.31 x 2.89 in.	8.86 x 3.31 x 2.89 in.	11.02 x 4.88 x 3.62 in.	11.02 x 4.88 x 3.62 in.	11.02 x 4.88 x 3.62 in.
<b>Weight</b>	2.4 lbs. (38 oz.)	4.4 lbs. (71 oz.)	5.2 lbs. (82 oz.)	9.1 lbs. (146 oz.)	9.9 lbs. (159 oz.)	10.6 lbs. (169 oz.)

### DIMENSION

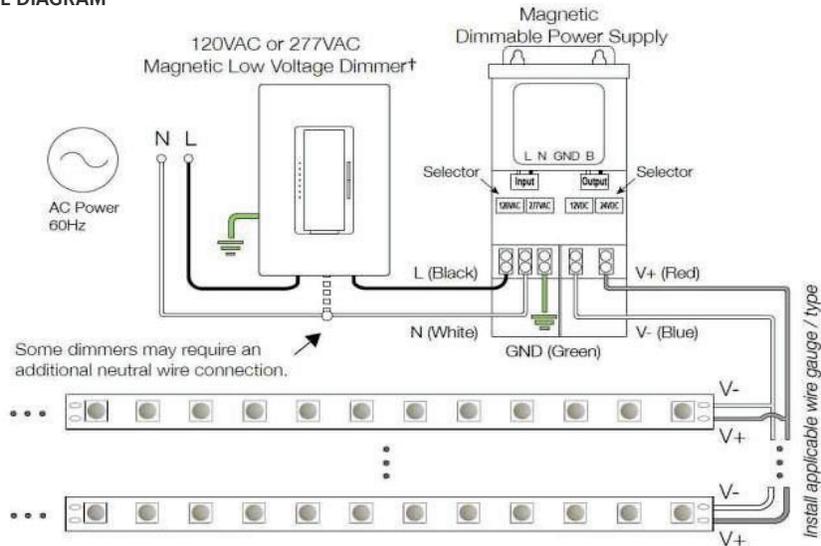


# Magnetic Dimmable 12/24VDC LineDRIVE Power Supply Specification Sheet



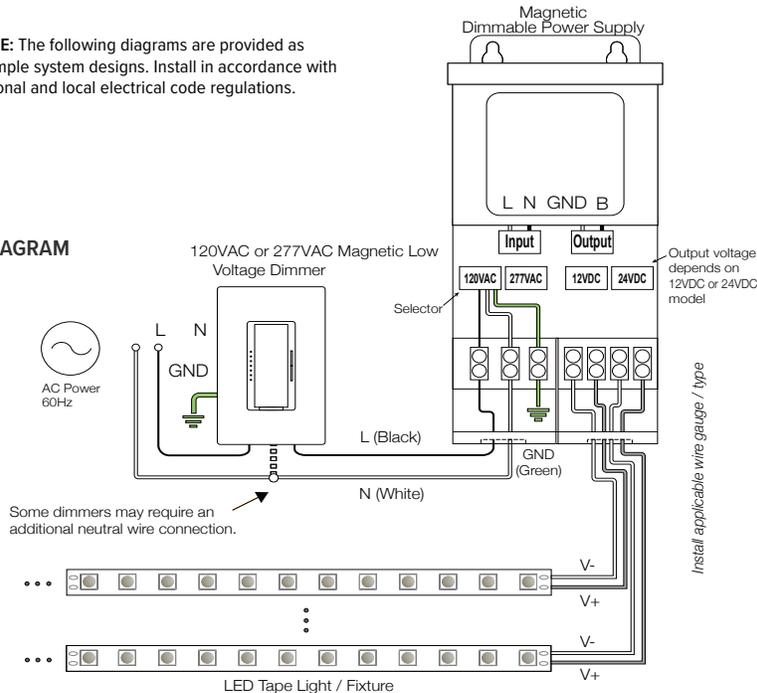
## WIRING DIAGRAMS

SINGLE CHANNEL DIAGRAM  
 30W, 60W, 96W



**NOTE:** The following diagrams are provided as example system designs. Install in accordance with national and local electrical code regulations.

MULTI CHANNEL DIAGRAM  
 150W, 200W, 300W



\*Connect the male DC plug to either the 12V or 24V female plug depending on your output voltage.  
 \*\*Connect the male AC plug to either 120VAC or 277VAC female plug depending on your input voltage.

**Job Name :** Assembly of God  
**Manufacturer :** GM LIGHTING  
**Model Number :** LED-CHL-W

**Type :**

# ALUMINUM MOUNTING CHANNEL

## 4' / 8' WIDE FORMAT



Project Name	Type
Catalog #	Date



### PRODUCT OVERVIEW

GM Lighting's LED-CHL-W channel accepts all low voltage GM Lighting LED tape. Available in 48" and 96" lengths, these wide format mounting channels are the perfect vessel that not only insures an architectural quality installation, but also minimizes diode imaging due to the frosted lens that is included with each channel.

### FEATURES

- Available in 4ft (48in) and 8ft (96in)
- Silver Anodized finish
- Includes 2 mounting clips and screws with 4ft, 4 mounting clips and screws with 8ft
- Includes acrylic frosted lens
- End caps sold separately
- For LTR Series Tape - LTR-P, LTR-S and LTR-E
- Custom lengths available - consult factory
- Dry location only

**Note: For Vision120, use V120-CHL channels.**



### SPECIFICATIONS

#### ELECTRICAL

- Fits 12V/24V LEDtask LED tape

#### WARRANTY

- 5-year warranty

### ORDERING INFORMATION

Example: LED -CHL-W

Model	Type	Length
LED-CHL	W	Blank (4 ft.)
		8 (8 ft.)

### Accessories

Model	Description
LED-CHL-W-AMC	(2) Adjustable mounting clips
LED-CHL-W-EC	(2) End caps - one solid, one with wiring hole
LED-CHL-W-MC	(2) Additional mounting clips



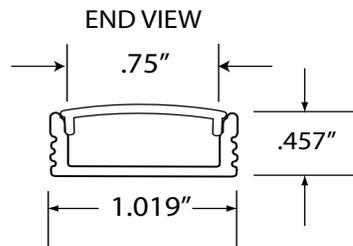
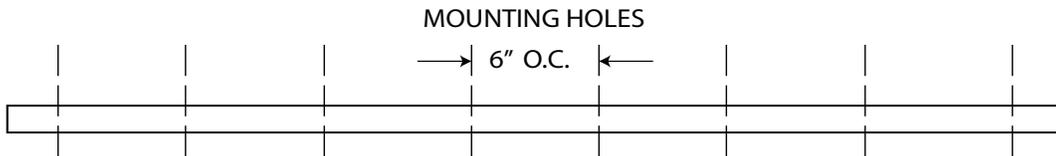
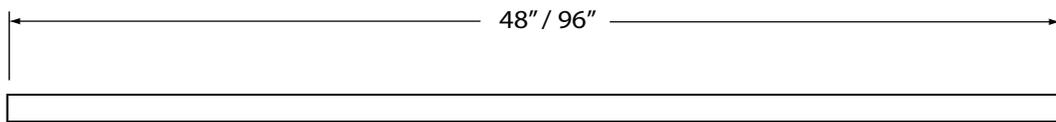
# ALUMINUM MOUNTING CHANNEL

## 4' / 8' WIDE FORMAT



Model	Dimensions	Connectors	Compatibility	Finish
LED-CHL-W	L48" or 96" x W 1.019" x D.457"	Sure-Tite and EZ Connectors	LTR-P, LTR-S, LTR-E Series Dry and Wet Location	Blank (Silver Anodized)
LED-CHL-W-8				

**DIAGRAM**



**DIMENSIONS**

---

**RE: schematic**

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**From** Planning Department <planning@cityofsitka.org>

**Date** Thu 2/20/2025 4:07 PM

**To** Ryan Gluth <ryan@sitkaag.org>

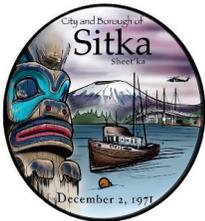
 1 attachment (176 KB)

Gluth\_Invoice.pdf;

Hey Ryan,

Thank you for this information. I'm reattaching the invoice sent a couple weeks ago—once the utilities office confirms payment with the planning department, we'll get your variance item scheduled for hearing at the planning commission.

Best,  
Ariadne



**Ariadne Will**

Planner I  
Planning and Community Development  
Department  
City and Borough of Sitka

**Phone:** 907-747-1814

**Email:** [ariadne.will@cityofsitka.org](mailto:ariadne.will@cityofsitka.org)

100 Lincoln Street  
Sitka, AK 99835

*Messages to and from this email address may be available to the public under the Alaska Public Records Law.*

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**From:** Ryan Gluth <ryan@sitkaag.org>

**Sent:** Thursday, February 20, 2025 12:04 PM

**To:** Planning Department <planning@cityofsitka.org>

**Subject:** Fwd: schematic

You don't often get email from [ryan@sitkaag.org](mailto:ryan@sitkaag.org). [Learn why this is important](#)

Here is a description of the lighting for our sign and the variance. Simply, it equals to 1075 lumens that will be reflected to the exterior of the sign per side of the sign. That is pretty minimal.

This is from Sitka Electric and Mike Vierra who built the sign for us.

Thank you,

Ryan



**Ryan Gluth** Lead Pastor

214 Kimsham Street,  
Sitka, AK 99835

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e [ryan@sitkaag.org](mailto:ryan@sitkaag.org) | w [www.sitkaag.org](http://www.sitkaag.org)



Begin forwarded message:

**From:** Mike Vieira <[mike@saltysitkan.com](mailto:mike@saltysitkan.com)>

**Subject:** schematic

**Date:** February 20, 2025 at 11:44:22 AM AKST

**To:** Ryan Gluth <[ryan@sitkaag.org](mailto:ryan@sitkaag.org)>

Hi Ryan -

Met with Doug this morning - attached is the schematic.

It's not entirely straightforward but I think here is a summary:

It comes out to roughly 181 Lumens/foot of light tape.

I estimate we will have 3 strips of tape approximately 4' long on each side of the sign

24 feet x 181 lumens = 4,344 lumens

Of this the light designer estimated that 50% of those would be absorbed by the sign so the net lumen reflecting out towards the street would be approximately 2150 lumens or 1075 lumens per side.

It is a 3000k light - which will be a warm yellowish glow

Let me know if you need anything further. Doug estimated \$1600 in supplies.