

## Installation Instructions for the Appleton™ IHC LED Luminaire Series

FOR PROPER AND SAFE INSTALLATION OF THIS PRODUCT, PLEASE READ THE FOLLOWING INSTRUCTIONS.

### Product Safety

#### Signal Words Defined

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury. **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury. **CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. **NOTICE** is used to address practices not related to physical injury.

#### Safety Instructions for Luminaire

##### ▲ WARNING:

- Do not open or remove luminaire when supply is ON.
- Do not use luminaire on ungrounded systems. Failure to ground this luminaire can result in an electric shock, which may be fatal.
- Disconnect the luminaire from the supply circuit before opening to reduce the risk of electric shock. Keep tightly closed when in operation.
- Do not mount near gas or electric heaters.
- De-energize the unit five (5) minutes before opening.
- Use two safety cables for installations experiencing high vibrations.
- Supply wires are to be rated for minimum 90°C.
- Supply wires with daisy chaining are to be rated for minimum 100°C

##### ▲ CAUTION:

- Do not look directly at the LEDs when energized.
- Lens cleaning instructions: Wipe/clean from the outside only with a moist cloth. (Beware of electrostatic charges.)
- When installing, it is necessary that the lens, and all certified conduit plugs be in place and tightened securely to the housing.

##### ▲ NOTICE:

- Do not touch the LEDs; touching could leave oily deposits, causing hot spots and potential premature failure.
- The LED lens should be cleaned periodically from the outside only with a moist cloth to maintain lighting efficiency.
- This luminaire is designed for and should be installed with wiring method required in accordance with the National Electrical Code® (NEC®)/Canadian Electrical Code and all applicable local codes.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.
- Shown all product views are presentation only and not as per scale.

### Applications/Intended Use

- Marine and wet locations; apply a corrosion-inhibiting grease, such as petroleum or soap thickened mineral oils, in 3 lines, spaced approximately 120 degrees apart, perpendicular to the threads. Tighten all unused close-up plugs.
- Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmospheres, and high ambient temperatures are encountered.
- Where flexible cord is used, it should be approved for extra hard, wet location usage and shall have a separate ground conductor.
- Powerful, efficient weatherproof lighting for applications such as:
  - Steel Production Plants
  - Power Generation Facilities
  - Foundries
  - Cement, Stone and Sand Plants
  - Pulp and Paper Mills
  - Ship Building and Shipping Ports
  - Other areas where corrosive, wet, dirty, and tough environments are a problem.
- High ceilings of 50 feet (15 meters) to greater than 100 feet (30 meters).
- Indented for wall and ground/floor mounting.

## Agency Ratings<sup>①</sup>: (NEC/CEC)

- Wet Locations
- Type 3R, 4 & 4X
- IP66
- Marine Outside Type (Salt Water) (For installations in USA only)

### NOTES:

① Refer to the product nameplate located on the product for details.

## Dimensions/Details

### LUMINAIRE DIMENSIONS

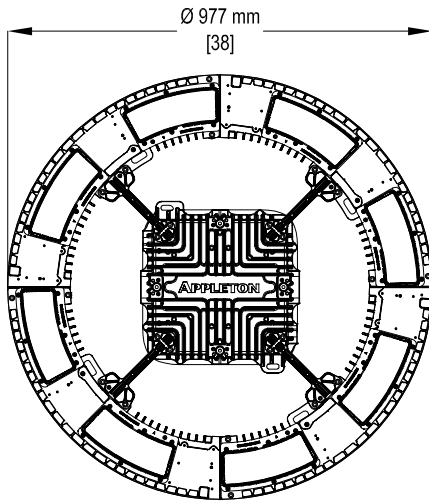


FIGURE 1(A) : IHC 50K  
LUMEN LUMINAIRE

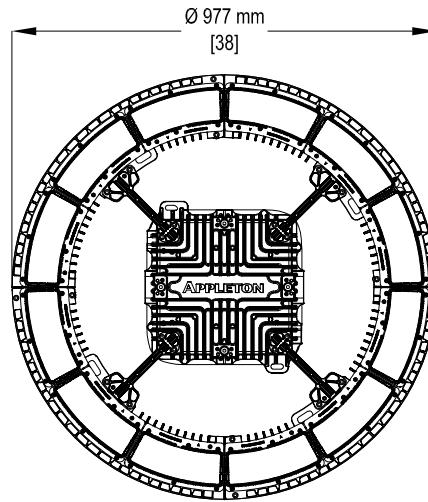


FIGURE 1(B) : IHC 60K/75K  
LUMEN LUMINAIRE

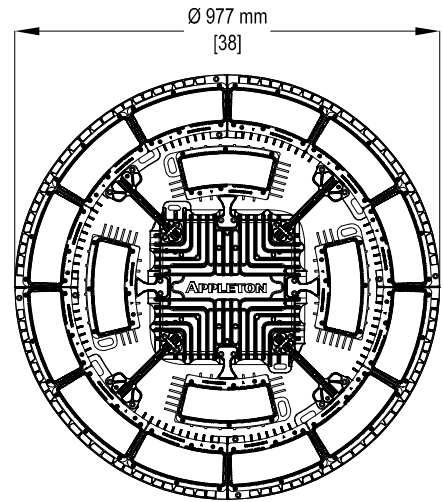


FIGURE 1(C) : IHC 90K  
LUMEN LUMINAIRE

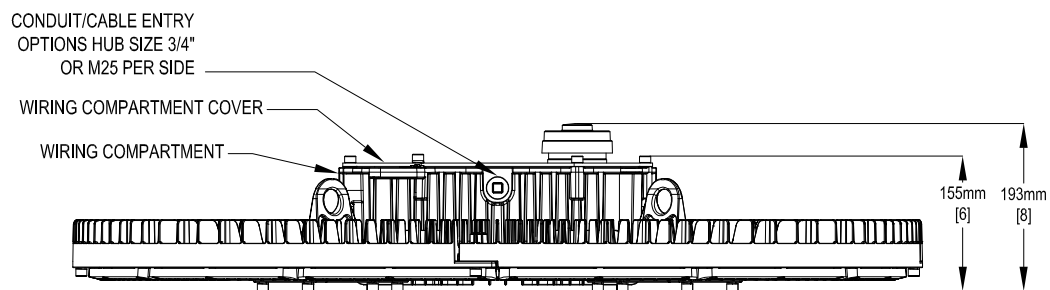


FIGURE 1(D): IHC LUMEN LUMINAIRE

### FIGURE 1: IHC LUMINAIRE DIMENSIONS

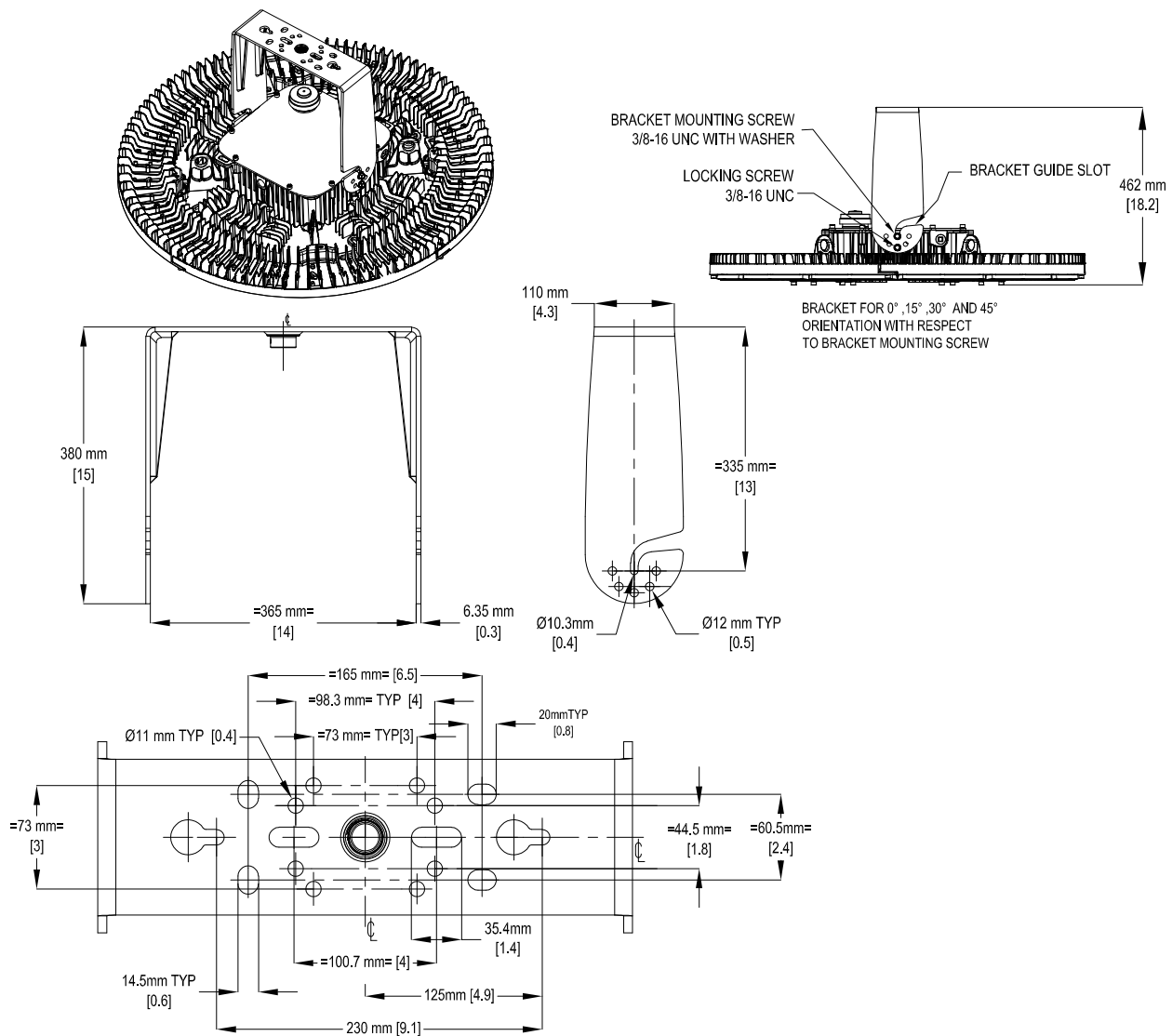
## Luminaire Mounting Instructions

1. Make sure power is disconnected before installing the luminaire.
2. Secure luminaire to structural support element that can handle the weight of the luminaire in accordance with local building code and all other applicable code requirements.

# Luminaire Mountings

## BRACKET MOUNTING (IHCBRKTL & IHCBRKTM)

1. Make sure power is disconnected & circuit is de-energized before installing the bracket.
2. Determine appropriate mounting distance between holes on the brackets for your application. Refer to Figure 2.
3. Luminaire can be installed to wall or ceiling or ground/floor.
4. Secure bracket to structural support member with appropriate bolts (not supplied) that can handle the weight of luminaire in accordance with local building code and all other applicable code requirements.
5. Ensure the complete top surface of bracket is in contact with the structural support.
6. Preassemble the bracket mounting screw 3/8 – 16 UNC screw and washer supplied with the bracket kit on luminaire at both sides, engage four to five threads in respective hole refer Figure 2 for hole locations.
7. Assemble luminaire into the bracket with the help of bracket guide slot and preassembled bracket mounting screw.
8. Align the luminaire to the desired aiming position with your free hand and use 3/8 – 16 UNC Locking screw and washer supplied with the bracket kit to fix the luminaire at that position. Refer to Figure 2.
9. Wall mount luminaire can be rotated 15°, 30°, 45° orientation with respect to bracket mounting screw.
10. Ceiling or ground/floor mount luminaire can be rotated 0°, 15°, 30°, 45° orientation with respect to bracket mounting screw.
11. Tighten all the screws to secure the luminaire in place with a torque of 25 N.m (221 Lb.in).



**FIGURE 2: MOUNTING OPTIONS – BRACKET MOUNTING**

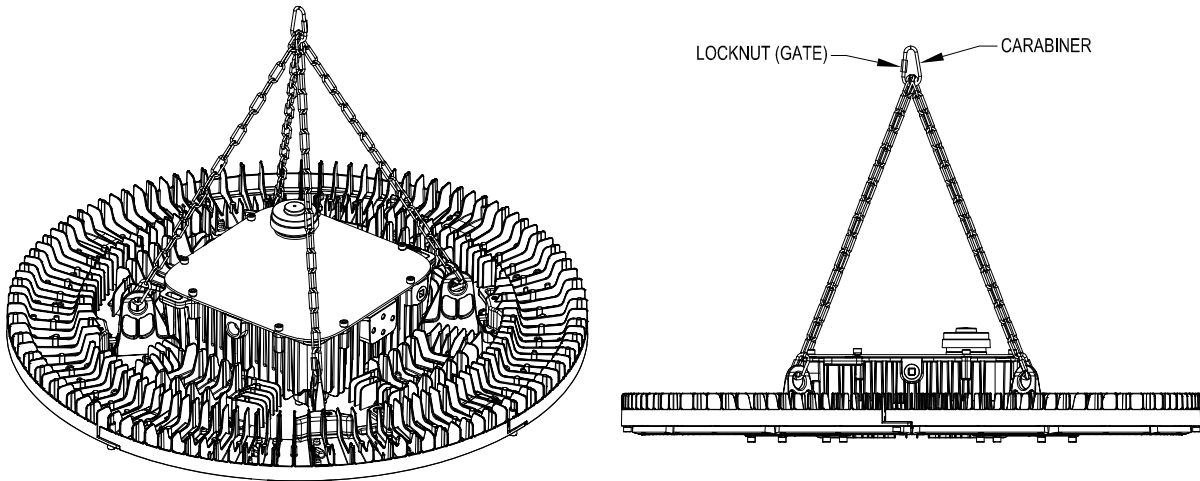
## BRACKET MOUNTING RETROFIT

Appleton mounting brackets are compatible with this list of manufacturers' products:

1. Holophane® PhuzionL™ Large LED High Bay
2. Dialight® Vigilant® LED High Bay
3. Dialight® Vigilant® LED Dual Floodlight
4. Appleton™ Areamaster™

## CHAIN MOUNTING (IHCCHAIN)

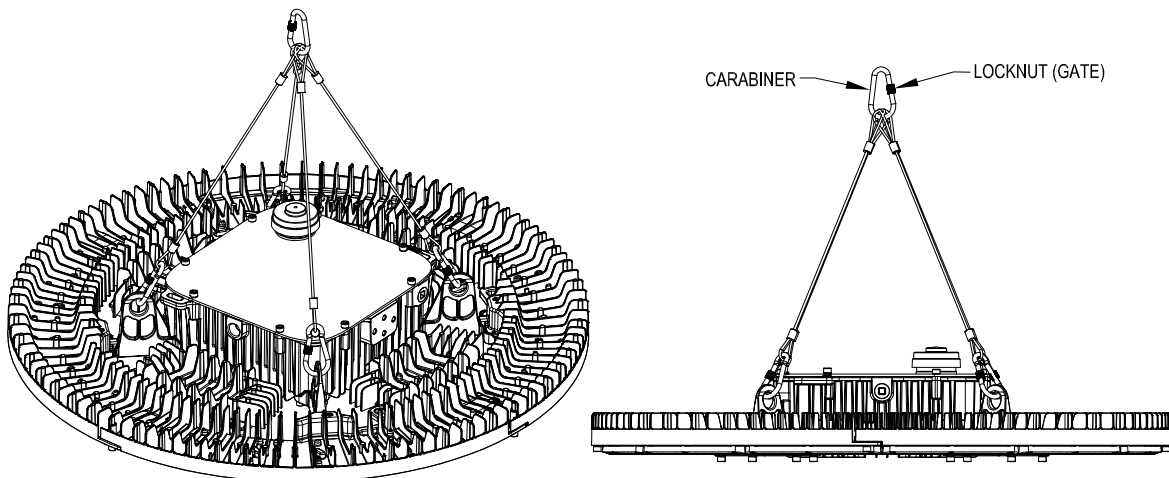
1. Make sure power is disconnected & circuit is de-energized before installing the luminaire.
2. Determine appropriate mounting distance from structural support element that can handle the weight of the luminaire in accordance with local building code and all other applicable code requirements.
3. Hang the chain mounted luminaire on the structural support and ensure that the carabiner locknut (gate) is properly tightened.



**FIGURE 3: MOUNTING OPTIONS – CHAIN MOUNTING**

## CABLE MOUNTING (IHCCABLE)

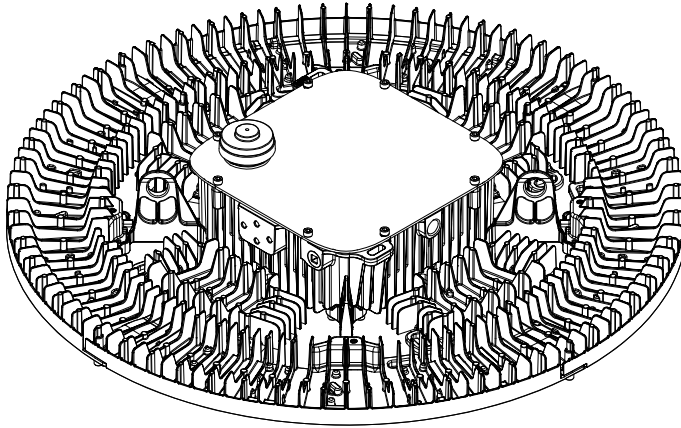
1. Make sure power is disconnected and circuit is de-energized before installing the luminaire.
2. Determine appropriate mounting distance from structural support element that can handle the weight of the luminaire in accordance with local building code and all other applicable code requirements.
3. Hang the cable mounted luminaire on the structural support and ensure that the carabiner locknut (gate) is properly tightened.



**FIGURE 4: MOUNTING OPTIONS – CABLE MOUNTING**

## NO MOUNT OPTION

1. Make sure power is disconnected and circuit is de-energized before installing the luminaire.
2. Determine appropriate mounting distance from structural support element that can handle the weight of the luminaire in accordance with local building code and all other applicable code requirements.
3. Use Appleton tested and certified “Mounting Bracket” OR “Cable Kit” OR “Chain Kit” OR “any UL Listed cable hangers or chain hangers with safe working load of minimum 35 kg.”



**FIGURE 5: MOUNTING OPTIONS – NO MOUNT**

## Wiring

**▲ WARNING:** The luminaire must be grounded as required by the National Electrical Code (Article 410.21 and Article 250) or Canadian Electrical Code (Rule 30-300 and Rule 30-400). Verify that ground continuity has been established by using an Ohm meter or other suitable testing equipment before energizing the luminaire. Failure to properly ground the luminaire will create an electric shock hazard, which can cause serious injury or death.

## Wiring the IHC LED Luminaire Series with Fixed Screw Terminal Option

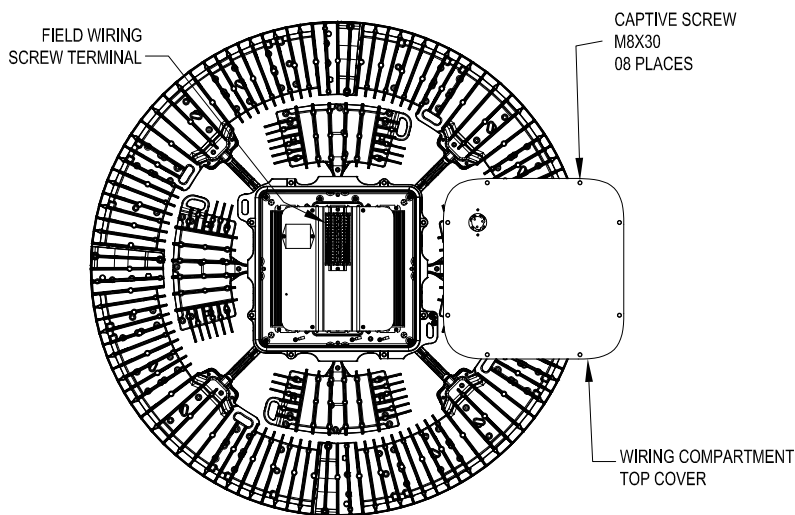
**Note:** See the product nameplate for supply wire requirements. The terminal block can accept 10-26 AWG wire. Use the appropriate wire gauge based on the application. Refer to Table 1 below for power system application.

TABLE 1: POWER SYSTEM APPLICATION			
POWER SYSTEM	L	N	G
L-N AC POWER SYSTEM	HOT / LINE	NEUTRAL	GROUND
L-L AC POWER SYSTEM	HOT 1 / LINE 1	HOT 2 / LINE 2	GROUND
DC POWER SYSTEM	+VE	-VE	GROUND

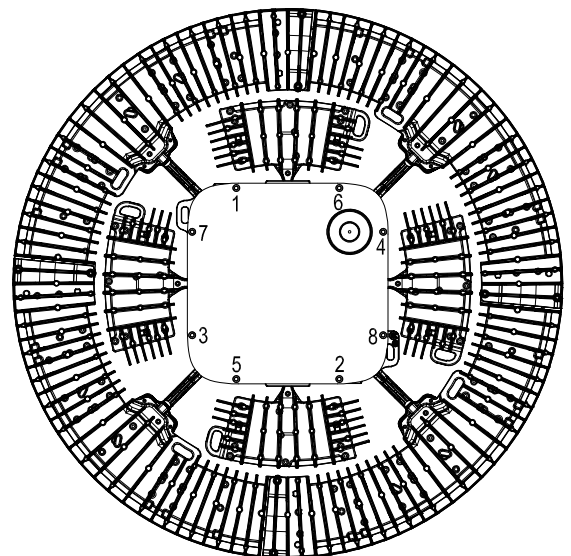
1. Make sure power is disconnected before wiring the luminaire.
2. Open the luminaire wiring compartment by loosening the eight captive screws. Open the cover to get access to the wiring compartment see Figure 6.
3. **A. Wiring with Cable**
  1. Strip the cable outer jacket as required.
  2. Insert the cable through the conduit entry (with appropriate cable fitting attached) to the luminaire wiring compartment.
- B. Wiring with Individual Wires**
  1. Run conductors through the conduit to the luminaire wiring compartment.
4. Strip the individual wires by approximately 9 mm (0.35 in) and insert them into the proper terminal block connections. The connection points are identified on the terminal block as: “L” = Line, “N” = Neutral, and “G” = Ground. Tighten down the terminal block screws onto the wire with torque of 0.8 N.m (7 Lb.in) See Figure 6.

5. Check all connections for continuity and ground integrity.
6. Once the terminal block is wired to incoming power, close the luminaire wiring compartment cover.
7. Tighten the eight captive screws by applying a torque of 10 N.m (88.5 Lb.in) using the sequence shown as in Figure 7. Make sure wires do not pinch between cover and wiring compartment when closing.
8. Apply TLNC4 grease on plugs (3 supplied) in 3 lines, spaced approximately 120 degrees apart, perpendicular to the threads. After applying TLNC4 grease close all unused conduit entries with plugs. Apply torque of 45 N.m (400 Lb.in.) for 3/4" NPT plug, 30 N.m (265 Lb. in.) for M25 plug or Adapter and 25 N.m (225Lb. in.) for M20 Adapter.
9. For continuous row or feed through wiring, use Table 2 to determine the number of luminaires that can be connected together.
10. Power can now be applied to the luminaire.

<b>TABLE 2: FOR CONTINUOUS ROW MOUNTING</b>					
Wire Gauge (AWG)	18	16	14	12	10
Cable Ampacity(A)@30C Ambient temp	10	13	18	25	30
Cable Ampacity(A) with 0.8 Correction factor@90C Rated Cable	8	10.4	14.4	20	24
90K Fixture Measured Input Current(A)@120V Input Voltage	5.52				
75K Fixture Measured Input Current(A)@120V Input Voltage	4.71				
60K Fixture Measured Input Current(A)@120V Input Voltage	3.61				
50K Fixture Measured Input Current(A)@120V Input Voltage	3.15				
Total Fixture 90K Fixture (Nos)	1.0	2.0	2.0	3.0	4.0
Total Fixture 75K Fixture (Nos)	1.0	2.0	3.0	4.0	5.0
Total Fixture 60K Fixture (Nos)	2.0	3.0	4.0	5.0	6.0
Total Fixture 50K Fixture (Nos)	2.0	3.0	4.0	6.0	7.0



**FIGURE 6: IHC LUMINAIRE**

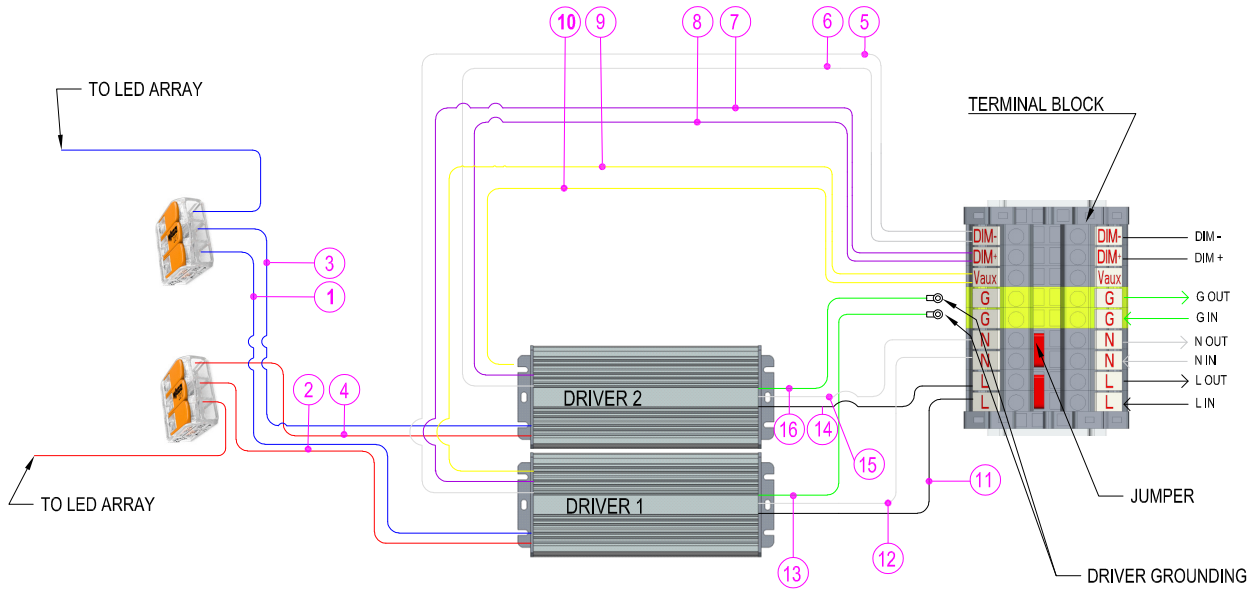


**FIGURE 7: SCREW TIGHTENING SEQUENCE**

# Wiring Diagrams

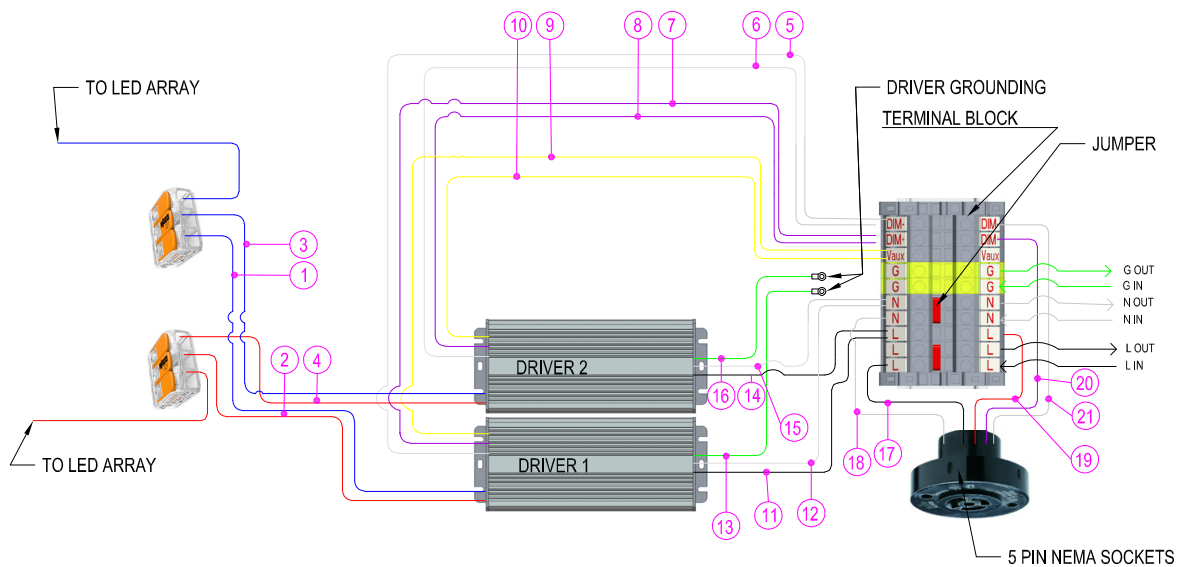
## ▲ CAUTION:

- Do not insert main supply line / neutral wires into dimming terminals.
- Dimming option is available for 0-10V dimming, insert wires into DIM+ and DIM- dimming terminals.
- If dimming is not required, then do not insert the wires in dimming terminals.



CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
6	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
7	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
8	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
9	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
10	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
11	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
12	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
13	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
14	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
15	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
16	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN

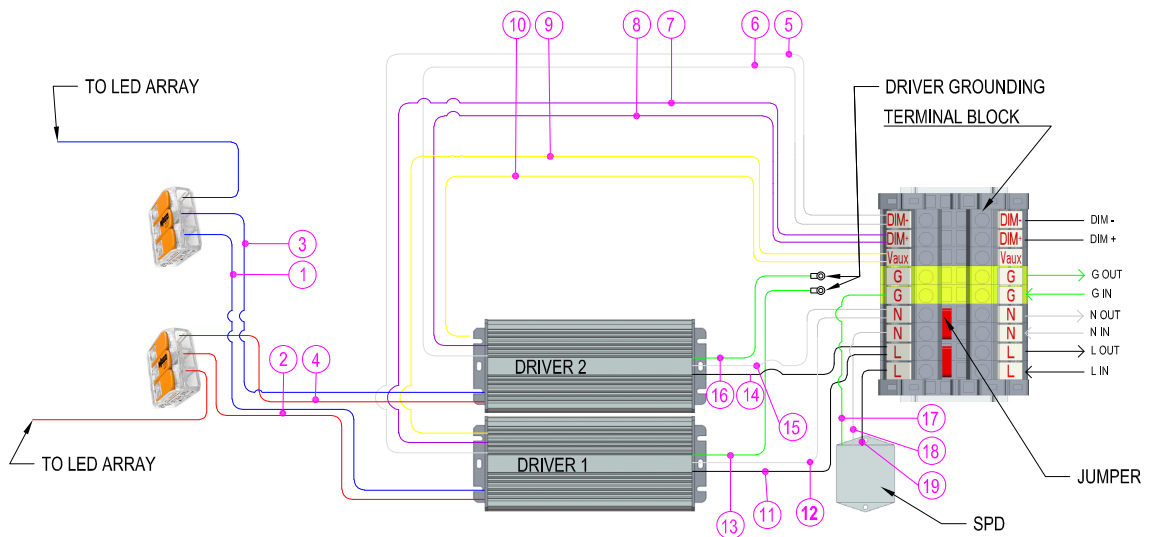
**FIGURE 8: IHC 50K & 60K LUMEN FOR CUSTOMER WIRING**



CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
6	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
7	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
8	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
9	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
10	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
11	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
12	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
13	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
14	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
15	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
16	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
17	5 PIN NEMA SOCKETS "1" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	BLACK
18	5 PIN NEMA SOCKETS "2" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(N)	WHITE
19	5 PIN NEMA SOCKETS "3" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	RED
20	5 PIN NEMA SOCKETS "4" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM+)	VIOLET
21	5 PIN NEMA SOCKETS "5" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM-)	GRAY

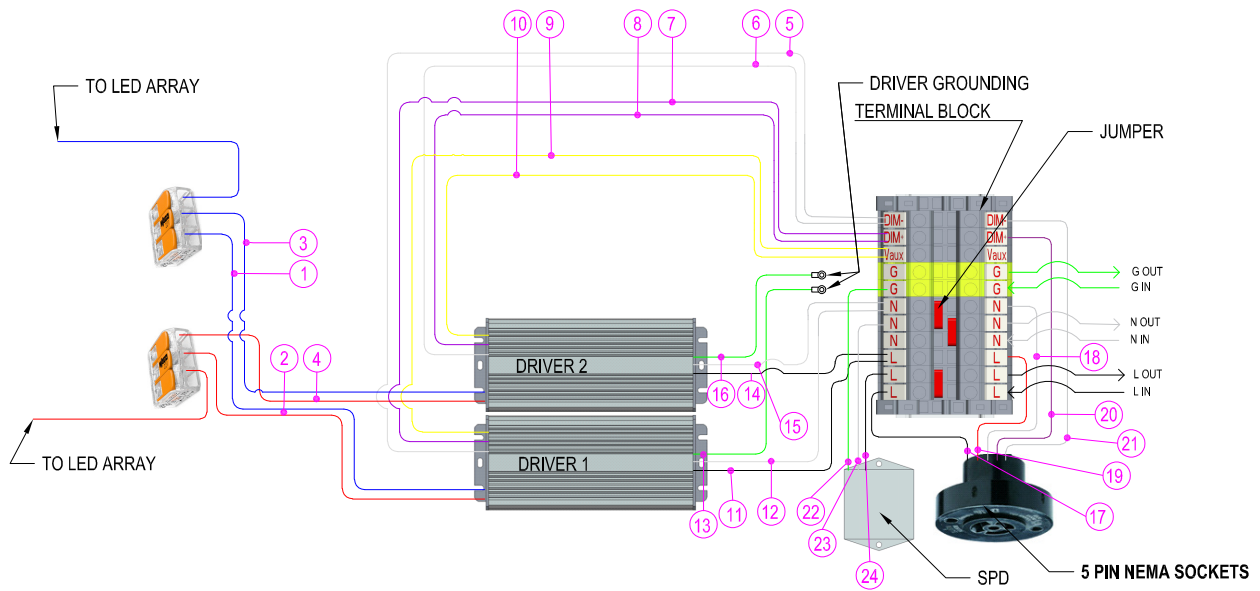
**FIGURE 9: IHC 50K & 60K LUMEN WITH NEMA SOCKET FOR CUSTOMER WIRING**





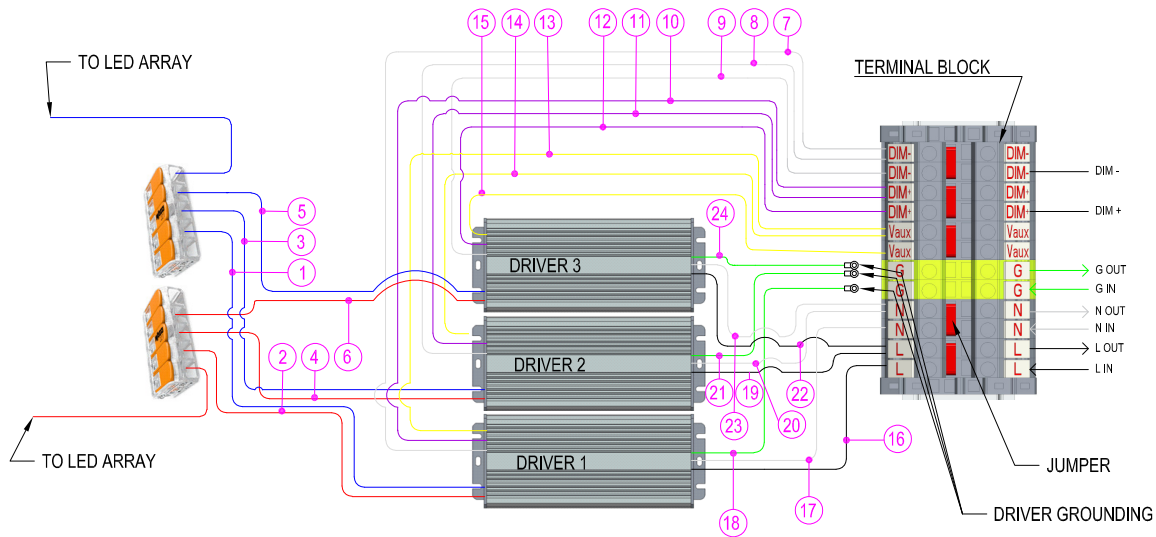
CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
6	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
7	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
8	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
9	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
10	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
11	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
12	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
13	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
14	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
15	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
16	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
17	SPD "GND" WIRE	SPD	TERMINAL BLOCK(G)	GREEN
18	SPD "N" WIRE	SPD	TERMINAL BLOCK(N)	WHITE
19	SPD "L" WIRE	SPD	TERMINAL BLOCK(L)	BLACK

**FIGURE 10: IHC 50K & 60K LUMEN WITH SPD FOR CUSTOMER WIRING**



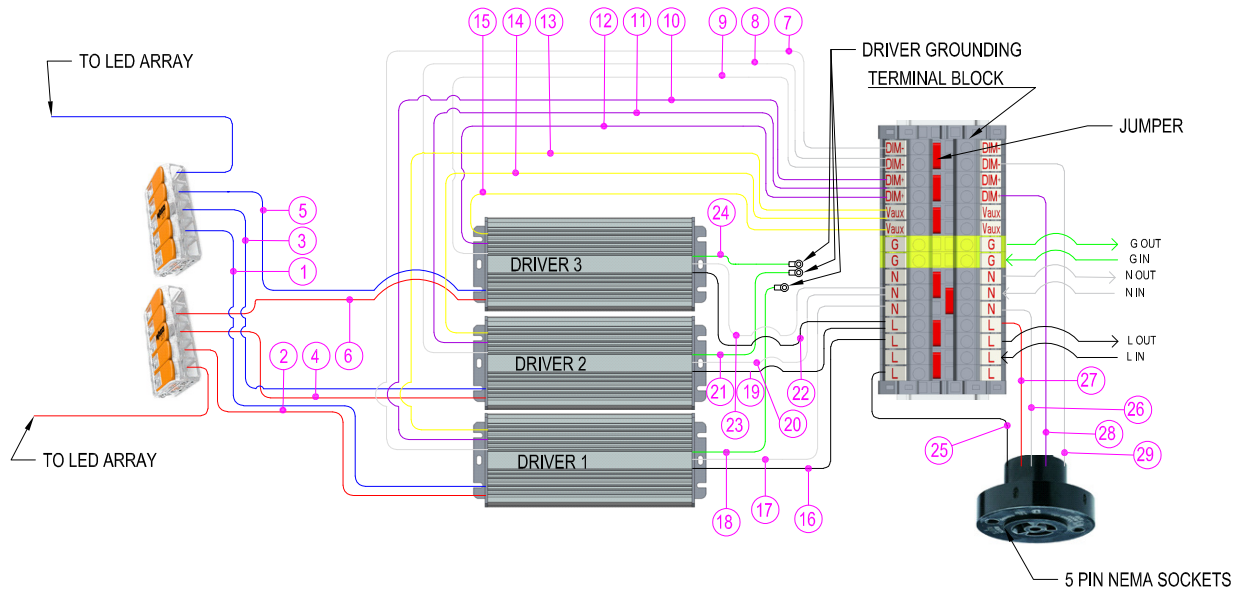
CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
6	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
7	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
8	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
9	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
10	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
11	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
12	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
13	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
14	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
15	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
16	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
17	5 PIN NEMA SOCKETS "1" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	BLACK
18	5 PIN NEMA SOCKETS "2" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(N)	WHITE
19	5 PIN NEMA SOCKETS "3" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	RED
20	5 PIN NEMA SOCKETS "4" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM+)	VIOLET
21	5 PIN NEMA SOCKETS "5" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM-)	GRAY
22	SPD "GND" WIRE	SPD	TERMINAL BLOCK(G)	GREEN
23	SPD "N" WIRE	SPD	TERMINAL BLOCK(N)	WHITE
24	SPD "L" WIRE	SPD	TERMINAL BLOCK(L)	BLACK

**FIGURE 11: IHC 50K & 60K LUMEN WITH SPD & NEMA SOCKET FOR CUSTOMER WIRING**



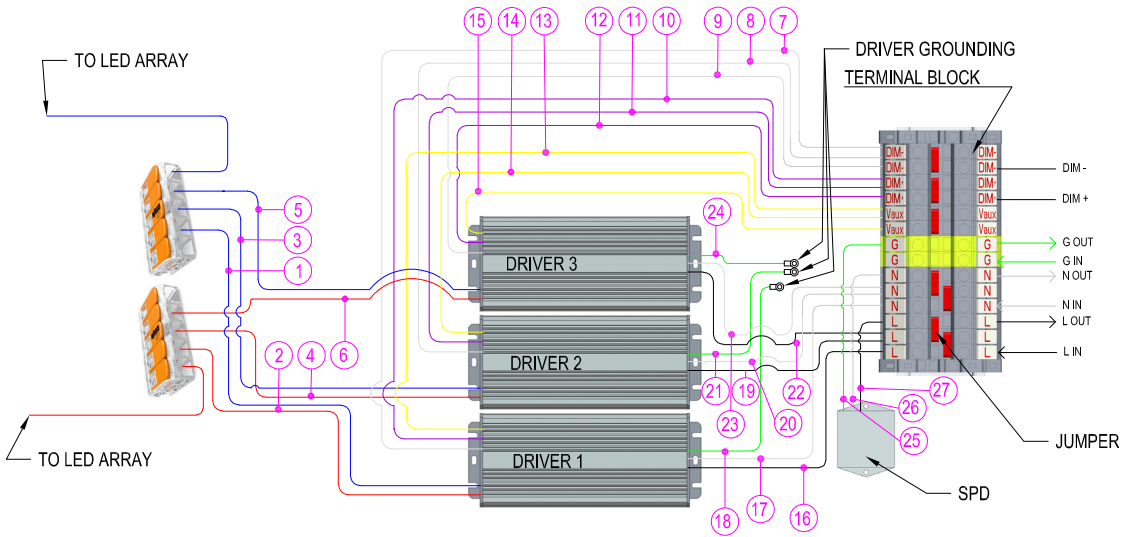
CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPlicing CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPlicing CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPlicing CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPlicing CONNECTOR-L	RED
5	DRIVER OUTPUT WIRE -VE	DRIVER 3	SPlicing CONNECTOR-K	BLUE
6	DRIVER OUTPUT WIRE +VE	DRIVER 3	SPlicing CONNECTOR-L	RED
7	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
8	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
9	DIMMING CONTROL WIRE(-DIM)	DRIVER 3	TERMINAL BLOCK(-DIM)	GREY
10	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
11	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
12	DIMMING CONTROL WIRE(+DIM)	DRIVER 3	TERMINAL BLOCK(+DIM)	PURPLE
13	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
14	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
15	DIMMING CONTROL WIRE(Vaux)	DRIVER 3	TERMINAL BLOCK(Vac)	YELLOW
16	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
17	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
18	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
19	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
20	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
21	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
22	DIVER-3 INPUT WIRE(L)	DRIVER 3	TERMINAL BLOCK(L)	BLACK
23	DIVER-3 INPUT WIRE(N)	DRIVER 3	TERMINAL BLOCK(N)	WHITE
24	DIVER-3 INPUT WIRE(G)	DRIVER 3	WIRING COMPARTMENT	GREEN

**FIGURE 12: IHC 75K & 90K LUMEN FOR CUSTOMER WIRING**



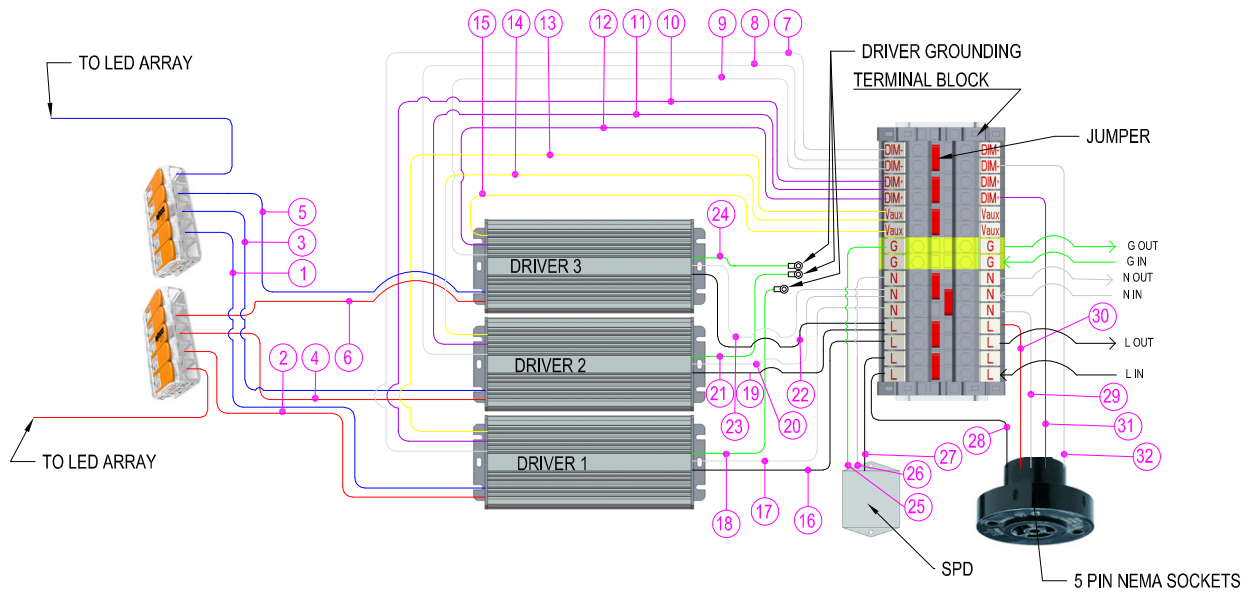
CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DRIVER OUTPUT WIRE -VE	DRIVER 3	SPLICING CONNECTOR-K	BLUE
6	DRIVER OUTPUT WIRE +VE	DRIVER 3	SPLICING CONNECTOR-L	RED
7	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
8	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
9	DIMMING CONTROL WIRE(-DIM)	DRIVER 3	TERMINAL BLOCK(-DIM)	GREY
10	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
11	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
12	DIMMING CONTROL WIRE(+DIM)	DRIVER 3	TERMINAL BLOCK(+DIM)	PURPLE
13	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
14	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
15	DIMMING CONTROL WIRE(Vaux)	DRIVER 3	TERMINAL BLOCK(Vac)	YELLOW
16	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
17	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
18	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
19	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
20	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
21	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
22	DIVER-3 INPUT WIRE(L)	DRIVER 3	TERMINAL BLOCK(L)	BLACK
23	DIVER-3 INPUT WIRE(N)	DRIVER 3	TERMINAL BLOCK(N)	WHITE
24	DIVER-3 INPUT WIRE(G)	DRIVER 3	WIRING COMPARTMENT	GREEN
25	5 PIN NEMA SOCKETS "1" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	BLACK
26	5 PIN NEMA SOCKETS "2" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(N)	WHITE
27	5 PIN NEMA SOCKETS "3" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	RED
28	5 PIN NEMA SOCKETS "4" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM+)	VIOLET
29	5 PIN NEMA SOCKETS "5" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM-)	GRAY

**FIGURE 13: IHC 75K & 90K LUMEN WITH NEMA SOCKET FOR CUSTOMER WIRING**



CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DRIVER OUTPUT WIRE -VE	DRIVER 3	SPLICING CONNECTOR-K	BLUE
6	DRIVER OUTPUT WIRE +VE	DRIVER 3	SPLICING CONNECTOR-L	RED
7	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
8	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
9	DIMMING CONTROL WIRE(-DIM)	DRIVER 3	TERMINAL BLOCK(-DIM)	GREY
10	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
11	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
12	DIMMING CONTROL WIRE(+DIM)	DRIVER 3	TERMINAL BLOCK(+DIM)	PURPLE
13	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
14	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
15	DIMMING CONTROL WIRE(Vaux)	DRIVER 3	TERMINAL BLOCK(Vac)	YELLOW
16	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
17	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
18	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
19	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
20	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
21	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
22	DIVER-3 INPUT WIRE(L)	DRIVER 3	TERMINAL BLOCK(L)	BLACK
23	DIVER-3 INPUT WIRE(N)	DRIVER 3	TERMINAL BLOCK(N)	WHITE
24	DIVER-3 INPUT WIRE(G)	DRIVER 3	WIRING COMPARTMENT	GREEN
25	SPD "GND" WIRE	SPD	TERMINAL BLOCK(G)	GREEN
26	SPD "N" WIRE	SPD	TERMINAL BLOCK(N)	WHITE
27	SPD "L" WIRE	SPD	TERMINAL BLOCK(L)	BLACK

**FIGURE 14: IHC 75K & 90K LUMEN WITH SPD FOR CUSTOMER WIRING**



CABLE NO.	WIRE DESCRIPTION	FROM	TO	COLOR
1	DRIVER OUTPUT WIRE -VE	DRIVER 1	SPLICING CONNECTOR-K	BLUE
2	DRIVER OUTPUT WIRE +VE	DRIVER 1	SPLICING CONNECTOR-L	RED
3	DRIVER OUTPUT WIRE -VE	DRIVER 2	SPLICING CONNECTOR-K	BLUE
4	DRIVER OUTPUT WIRE +VE	DRIVER 2	SPLICING CONNECTOR-L	RED
5	DRIVER OUTPUT WIRE -VE	DRIVER 3	SPLICING CONNECTOR-K	BLUE
6	DRIVER OUTPUT WIRE +VE	DRIVER 3	SPLICING CONNECTOR-L	RED
7	DIMMING CONTROL WIRE(-DIM)	DRIVER 1	TERMINAL BLOCK(-DIM)	GREY
8	DIMMING CONTROL WIRE(-DIM)	DRIVER 2	TERMINAL BLOCK(-DIM)	GREY
9	DIMMING CONTROL WIRE(-DIM)	DRIVER 3	TERMINAL BLOCK(-DIM)	GREY
10	DIMMING CONTROL WIRE(+DIM)	DRIVER 1	TERMINAL BLOCK(+DIM)	PURPLE
11	DIMMING CONTROL WIRE(+DIM)	DRIVER 2	TERMINAL BLOCK(+DIM)	PURPLE
12	DIMMING CONTROL WIRE(+DIM)	DRIVER 3	TERMINAL BLOCK(+DIM)	PURPLE
13	DIMMING CONTROL WIRE(Vaux)	DRIVER 1	TERMINAL BLOCK(Vac)	YELLOW
14	DIMMING CONTROL WIRE(Vaux)	DRIVER 2	TERMINAL BLOCK(Vac)	YELLOW
15	DIMMING CONTROL WIRE(Vaux)	DRIVER 3	TERMINAL BLOCK(Vac)	YELLOW
16	DIVER-1 INPUT WIRE(L)	DRIVER 1	TERMINAL BLOCK(L)	BLACK
17	DIVER-1 INPUT WIRE(N)	DRIVER 1	TERMINAL BLOCK(N)	WHITE
18	DIVER-1 INPUT WIRE(G)	DRIVER 1	WIRING COMPARTMENT	GREEN
19	DIVER-2 INPUT WIRE(L)	DRIVER 2	TERMINAL BLOCK(L)	BLACK
20	DIVER-2 INPUT WIRE(N)	DRIVER 2	TERMINAL BLOCK(N)	WHITE
21	DIVER-2 INPUT WIRE(G)	DRIVER 2	WIRING COMPARTMENT	GREEN
22	DIVER-3 INPUT WIRE(L)	DRIVER 3	TERMINAL BLOCK(L)	BLACK
23	DIVER-3 INPUT WIRE(N)	DRIVER 3	TERMINAL BLOCK(N)	WHITE
24	DIVER-3 INPUT WIRE(G)	DRIVER 3	WIRING COMPARTMENT	GREEN
25	SPD "GND" WIRE	SPD	TERMINAL BLOCK(G)	GREEN
26	SPD "N" WIRE	SPD	TERMINAL BLOCK(N)	WHITE
27	SPD "L" WIRE	SPD	TERMINAL BLOCK(L)	BLACK
28	5 PIN NEMA SOCKETS "1" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	BLACK
29	5 PIN NEMA SOCKETS "2" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(N)	WHITE
30	5 PIN NEMA SOCKETS "3" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(L)	RED
31	5 PIN NEMA SOCKETS "4" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM+)	VIOLET
32	5 PIN NEMA SOCKETS "5" WIRE	5 PIN NEMA SOCKETS	TERMINAL BLOCK(DIM-)	GRAY

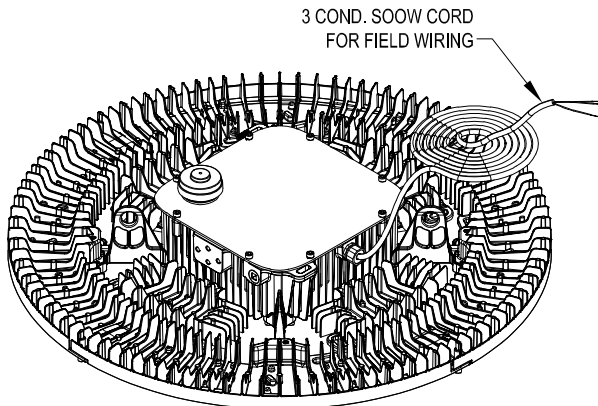
**FIGURE 15: IHC 75K & 90K LUMEN WITH SPD & NEMA SOCKET FOR CUSTOMER WIRING**

# Wiring the IHC LED Luminaire Series with Prewired Option

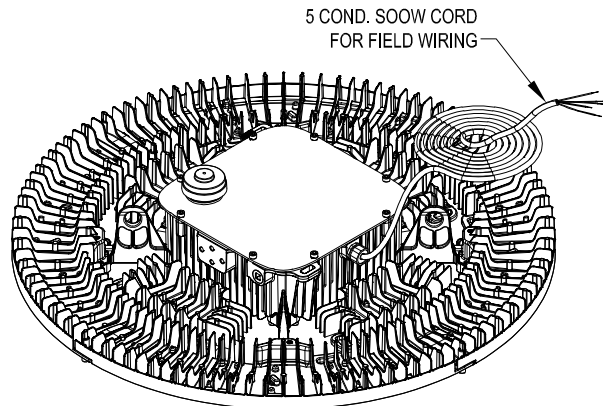
**Note:** See the product nameplate for supply wire requirements. The terminal block can accept 10-26 AWG wire. Use the appropriate wire gauge based on the application. Refer to the table below for power system application.

TABLE 3: POWER SYSTEM APPLICATION (PREWIRED OPTION)					
POWER SYSTEM	L (Black)	N (White)	G (Green)	DIM+ (Purple)	DIM- (Grey)
L-N AC POWER SYSTEM	HOT / LINE	NEUTRAL	GROUND	DIM+	DIM-
L-L AC POWER SYSTEM	HOT 1 / LINE 1	HOT 2 / LINE 2	GROUND	DIM+	DIM-
DC POWER SYSTEM	+VE	-VE	GROUND	DIM+	DIM-

1. Make sure power is disconnected before wiring the luminaire (connecting the prewired cord to the facility supply wiring or circuit conductors).
2. Connect electrical power supply leads to the #16 AWG 3-conductor SOOW cord coming out of wiring compartment with appropriate wiring connection method (wire nuts, splicing connector, screw terminal). See Figure 16(A).
3. Connect electrical power supply leads to the #16 AWG 5-conductor SOOW cord coming out of wiring compartment with appropriate wiring connection method (wire nuts, splicing connector, screw terminal). See Figure 16(B).
4. Power can now be applied to the luminaire.
5. Pre-wired version applicable for cULus and NOM only.



**FIGURE 16(A): IHC PREWIRED LUMINAIRE**



**FIGURE 16(B): IHC PREWIRED LUMINAIRE**

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