1. Refer to manufacturer’s data sheets and installation instructions prior to installation

2. Line feed 120/230/277 VAC, 60 Hz

3. Ground not shown, ground devices per applicable national and local codes are best practices

4. For emergency power situations, illustrations assume transfer switch by others upstream of shown devices

5. Line voltage load not to exceed contact rating per device specifications

6. Power packs receiving separate feeds for switched loads and self power must have both feeds on the same phase

7. All low voltage devices consume current. Device power budget is estimated for these details—additional power sources may be required. See product literature for power specifications

8. Maximum run length for analog wiring is 1000’ @ #18 AWC

9. Sensors wired in parallel will cause line voltage relay closure when occupancy is detected by any unit

10. Devices in series requiring contact closure from a single device (clock input, demand response, emergency, etc.) must follow these wiring conventions:
    - First device in sequence provides the +V to the triggering relay
    - Signal from closure attached to all devices in sequence input
    - Com from first device in sequence attached to com on all devices in sequence

11. Ultrasonic ceiling mount sensors should be located a minimum of six (6) feet from HVAC supply/return vents

12. Trough-mounted and pendant-mounted indirect lighting sources affect the operation of locally mounted sensors. Contractor is responsible for adjusting sensor locations to allow for proper operation

13. Contractor is responsible for proper sensitivity and time delay settings for non-adaptive products, following the manufacturer’s recommended placement, and field verification of circuits with respect to power pack placement

14. Contractor is responsible for coordinating the operational options of sensors and power packs with the specific work requirements
    - Work relevant energy code requirements affect circuits to be controlled and their control characteristics
    - One power pack is required for each controlled circuit
    - Refer to power pack data sheet for power output and installation guide for maximum number of sensors connected to a power pack
    - If multiple circuits are to be controlled by a sensor, auxiliary relays may be used in conjunction with a power pack

15. Ceiling sensors mounted over doorways should be placed one (1) foot inside the threshold

16. Up to 100 Mark VII style ballasts may be controlled per daylighting zone by IRC

17. All relays shown in de-energized state

18. Individually cap off unused leads

19. One-line parenthesis use:
    - (X) Function
    - [#] Terminal

20. Plug load control—commercial receptacle P/Ns:
    STANDARD DUPLEX:
    - Split control (1 outlet) CR015-1Px, CR020-1Px
    - Full control (2 outlets) CR015-2Px, CR020-2Px

    DECORA®:
    - Split control (1 outlet) 16252-1Px, 16352-1Px
    - Full control (2 outlets) 16252-2Px, 16352-2Px

ABBREVIATIONS:

LC  LumaCAN
LV  Low voltage
HV  High voltage switch (maintained)
LVM Low voltage switch (momentary)
    Equal to Leviton 1081 (toggle) OR Leviton 56081 (Decora)
LVT Low voltage switch (maintained)
    Equal to Leviton 12021-2 (toggle) or Leviton 56021-2 (Decora)
LV2 IRC low voltage switch
UON Unless otherwise noted
BLK Black
WHT White
BLU Blue
YEL Yellow
ORG Orange
VIO Violet
BRN Brown

SYMBOLS:

- No Connection
- Connection
- Devices wired in parallel
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Note: All GreenMAX DRC Keypads can be engraved. Click [here](#) for the Engraving Form.
GREENMAX DRC 3-ZONE PLUS DAYLIGHTING, TYPICAL

NOTES:
1. SMART PACK, SENSORS, AND PHASE CONTROL DRIVER QUANTITY PER CONTROL ZONE REQUIREMENTS.
2. DEVICES TO BE WIRING AS SHOWN OR WIRE CONTROLLED, CODE DEPENDENT. DIAGRAM SHOWS WIRE CONTROLLED.
3. OSRAM-NEW USED FOR LIGHTING CONTROL, PROVIDED AS REQUIRED PER DAYLIGHTING ZONE.
4. TERMINATE EACH END OF A LUMACAN NETWORK.
5. DEVICES MOUNTED ATOP A 4x4 SQUARE BOX COVER.
6. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

WIRE RUN KEYS:
- LUMACAN
- 0-10V CONTROL VIO
- 0-10V CONTROL ORY
- LOW VOLTAGE 424VOC
- LOW VOLTAGE 424DC
- LOW VOLTAGE 424S
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEC

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #1, “3-Zone Plus Daylighting, Typical”
GREENMAX DRC 3-ZONE NO DAYLIGHTING, TYPICAL

Notes:
1. Smart packs, sensors, and phase control devices require proper control zone requirements.
2. Devices to be wired as part of whole controller; code dependent. Diagram shows whole controller.
3. OSKLVN may be used for daylighting control. Provide as required per daylighting zone.
4. Terminate each end of a LUMANSN network.
5. Devices mounted atop a 4x4 square box cover.
6. Refer to product literature (data sheets, installation manuals, etc.) for more information.

WIRE RUN KEYS:
- LUMANSN
- 0-10V MATURE CONTROL VID
- 0-10V MATURE CONTROLaster
- LOW VOLTAGE 4-24VDC
- LOW VOLTAGE DCC
- LOW VOLTAGE 5G
- LOW VOLTAGE LOAD
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, LOAD

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #3, “3-Zone No Daylighting, Typical”
GREENMAX DRC 3-ZONE PLUS WHITEBOARD NO DAYLIGHTING, TYPICAL

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #4, “3-Zone Plus Whiteboard No Daylighting, Typical”
GREENMAX DRC 2-ZONE PLUS DAYLIGHTING, TYPICAL

NOTES:
1. SMART PACK, SENSORS, AND PHASE CONTROL DRIVER QUANTITY PER CONTROL ZONE REQUIREMENTS.
2. RECEIVERS TO BE WIRING AS SHOWN OR MICRO CONTROLLER, CODE DEPENDENT, DIAGRAM SHOWS WHOLE CONTROL.
3. ORANGES-NEW USED FOR DAYLIGHTING CONTROL, PROVIDE AS REQUIRED PER DAYLIGHTING ZONE.
4. TERMINATE EACH END OF A LUMACAN NETWORK.
5. DEVICES MOUNTED ATOP A 4X4 SQUARE BOX COVER.
6. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

Wire Run Key:
- LUMACAN
- 0-10V DRIVER CONTROL VID
- 0-10V DRIVER CONTROL CPR
- 0-10V DRIVER CONTROL CUN
- LOW VOLTAGE 12VDC
- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, Neutral

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #5, “2-Zone Plus Daylighting, Typical”
GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

NOTES:
1. SMART PACK, SENSORS, AND PHASE CONTROL DRIVER QUANTITY PER CONTROL ZONE REQUIREMENTS.
2. DEVICES TO BE WIRING AS SHOWN OR WHOLE CONTROLLED, CODE DEPENDENT. DRAWING SHOWS WHOLE CONTROL.
3. OREGARD AND USB FOR DAYLIGHTING CONTROL. PROVIDE AS REQUIRED PER DAYLIGHTING ZONE.
4. TERMINATE EACH END OF A LUMACAN NETWORK.
5. DEVICES MOUNTED ATOP A 4"4 SQUARE BOX COVER.
6. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

WIRE RUN KEY:
- LUMACAN
- 0-10V MASTER CONTROL VHD
- 0-10V MASTER CONTROL MCR
- LOW VOLTAGE 4-24VDC
- LOW VOLTAGE DCC
- LOW VOLTAGE SIG
- LINE VOLTAGE, LINE
- LINE VOLTAGE, LOAD
- LINE VOLTAGE, NEUT

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
GREENMAX DRC HOSPITALITY PUBLIC AREAS, TYPICAL (CONTINUED)

NOTES:
1. SMART PACK, SENSORS, AND PHASE CONTROL DRIVER QUANTITY PER CONTROL ZONE REQUIREMENTS.
2. DEVICES MOUNTED ATOP A 4X4 SQUARE BOX COVER.
3. REFER TO PRODUCT LITERATURE (DATA SHEETS, INSTALLATION MANUALS, ETC.) FOR MORE INFORMATION.

WIRE RUN KEYS:
- LUMARCAN
- 0-10V MATURE CONTROL VIO
- 0-10V MATURE CONTROL CRY
- LOW VOLTAGE 4-24VDC
- LOW VOLTAGE 24VDC
- LOW VOLTAGE 12VDC
- LINE VOLTAGE LINE
- LINE VOLTAGE LOAD
- LINE VOLTAGE, NEUTRAL

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #7, “Hospitality Public Areas, Typical”
GREENMAX DRC 18-ZONE PHASE CONTROL DIMMING, TYPICAL

For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #9, “18-Zone Phase Control Dimming, Typical”
For DWG file, see Leviton Marketing Cookbook_Final Draft 200110.dwg, drawing #9, “18-Zone Phase Control Dimming, Typical”