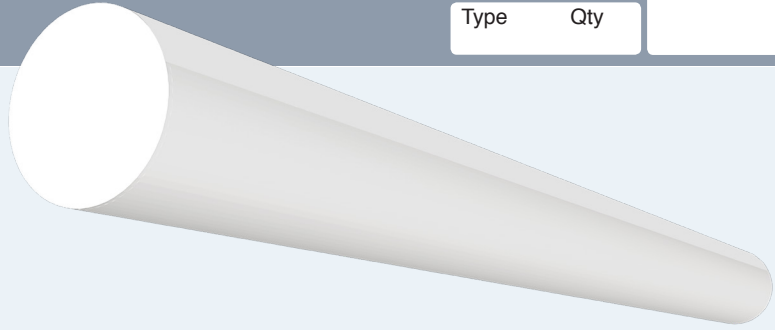
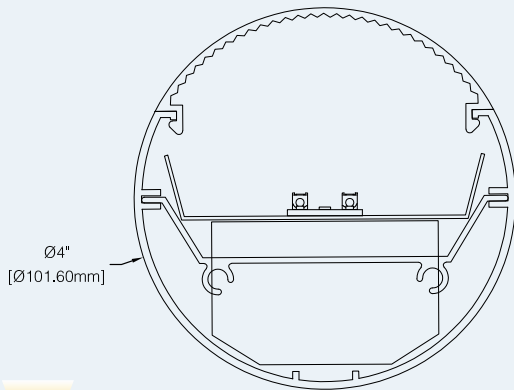




# Round Series | ADL-RO4-I

Date		Notes
Project		
Type	Qty	



## Features

- Extruded aluminum housing w/welded end-plates.
- LED optimized optics for smooth illumination end-to-end.
- Suspension or surface mount for individual fixtures, continuous runs or custom patterns.
- High efficiency programmable driver for custom lumen packages. 0-10V dimming to 1% standard.
- High efficacy LEDs in 80 or 90 CRI; two or three channel tunable white; five channel tunable color.

## Ordering Guide

MODEL	OPTICS	CCT <sup>1</sup>	LUMENS <sup>2</sup>	LENGTH <sup>3</sup>	MOUNTING <sup>4</sup>	FINISH	OPTIONS
<b>ADL-RO4-I</b>	<b>WRA</b>						
ADL-RO4 Indirect	WRA = White Acrylic Ribbed Lens	27 = 2700K 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI  For 90 CRI add "9" prefix. Ex: 940 = 4000K @ 90 CRI  <b>TUNABLE WHITE<sup>1</sup></b> (2-Channel) 2DIM10 = for 0-10V 2DMX = for DMX 2DLM = for DLM  <b>TUNABLE WHITE<sup>1</sup></b> (3-Channel) 3DMX = for DMX 3DML = for DLM  <b>TUNABLE COLOR<sup>1</sup></b> (Lumenetix araya5) LX10 = for 0-10V LXDX = for DMX LXDL = for DLM LXDA = for DALI LXLT = for EcoSystem  For RGB and RGB/W options please consult factory.	LO = 600/ft (5W/ft, 114LPW)  SO = 800/ft (7W/ft, 114LPW)  HO = 950/ft (9W/ft, 106LPW)  Consult factory for additional lumen packages.  All values nominal.	4 = 4 ft 6 = 6 ft 8 = 8 ft  For other enter row length (e.g. 48 = 48 ft)	AC = Aircraft Cable  PD = Pendant Stem	W = White CC = Custom Color AMW = Anti-Microbial White	<b>DIMMING DRIVERS</b> DIM10 = 0-10V (1.0%) DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%)  <b>LUTRON™ DIMMING DRIVERS</b> LDE1 = Hi-Lume™ 1%-H EcoSystem™ LDE5 = 5-Series 5% EcoSystem™ L3DAE = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire LTEA2W = Hi-Lume™ 1% 2-Wire FFC  <b>SENSORS &amp; CONTROLS</b> ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor LVC = 2-Channel LV Controller  <b>EMERGENCY</b> EPC4 = (4W) 350 Delivered Lumens EPC7 = (7W) 615 Delivered Lumens EPC10 = (10) 880 Delivered Lumens EPC12 = (12W) 1050 Delivered Lumens GTD = Generator Transfer Device EMC = Emergency Circuit

<sup>1</sup>Tunable white, tunable color and RGB/W options detailed on page 4.

<sup>2</sup>Delivered Lumens are Standard Output (SO) and Low Output (LO) at 80+CRI 4000K CCT. Use the following multiplier to estimate delivered lumens at other CCTs: 2700K = 0.94, 3000K = 0.96, 3500K = 0.98, 5000K = 1.02. All values nominal. See page 3 for photometry.

<sup>3</sup>See page 2 for actual fixture lengths and suspension locations.

<sup>4</sup>See page 3 for mounting details and full specifications.

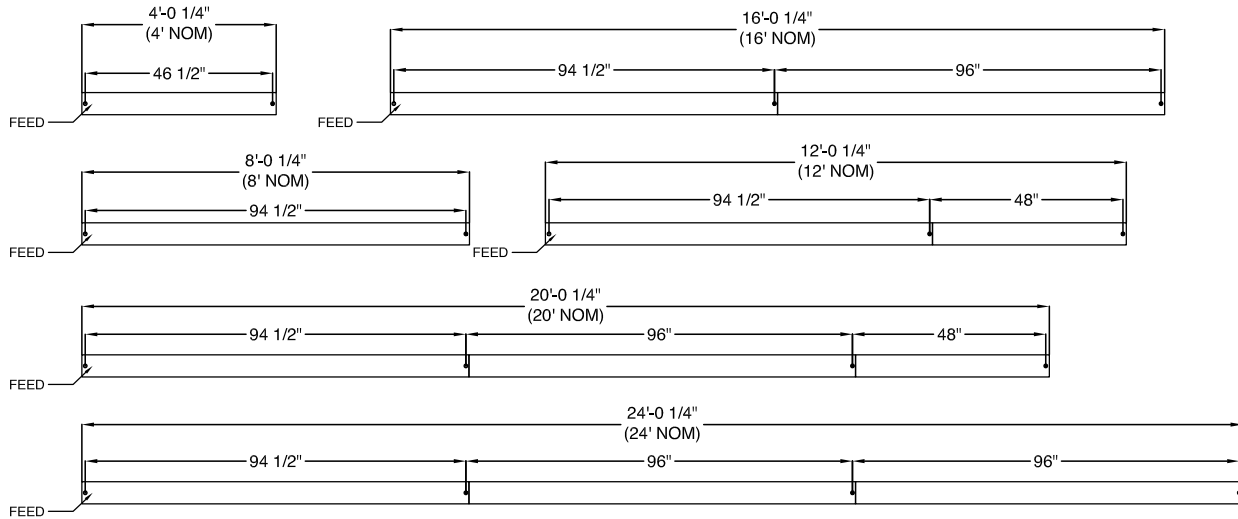


### Individual Fixtures & Continuous Rows

NOMINAL LENGTH	ACTUAL LENGTH	SUSP. 1 O.C.	SUSP. 2 O.C.	SUSP. 3 O.C.
4'	4' 1/4"	46 1/2"		
8'	8' 1/4"	94 1/2"	48"	
12'	12' 1/4"	94 1/2"	96"	
16'	16' 1/4"	94 1/2"	96"	48"
20'	20' 1/4"	94 1/2"	96"	96"
24'	24' 1/4"	94 1/2"	96"	96"

Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Power feed locations and mounting locations are shown below.

Individual fixtures up to 8' nominal and continuous rows up to 24' nominal are dimensioned as shown below. Continuous rows longer than 8' and patterns, including EPC/EMC and sensor locations must be approved prior to manufacturing.

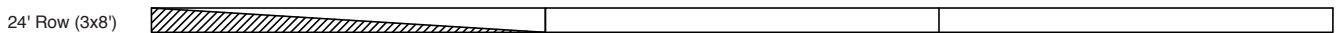


### Emergency & Sensor Locations

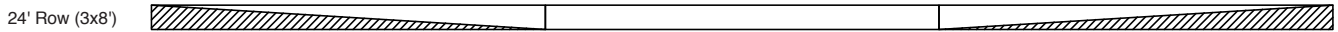
EPC will control entire length of individual fixtures. Individual fixtures of differing lengths will deliver the same lumens under EPC power (a 4' fixture will deliver the same total lumens over half the length of an 8' fixture). EMC controlled individual fixtures will deliver lumens per foot as originally specified, unless dimmed at time of power loss. Consult factory for EMC dimming override device.



For continuous rows longer than 8' one EPC/EMC will be located in the feed section (end-left) of the row as shown below.



If two EPC/EMC's are required their default locations will be in the feed section (end-left) and last section (end-right) as below.



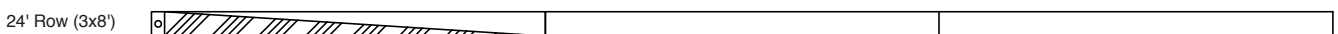
Custom placement of one or more EPC/EMC's must be clearly identified during ordering.



SENSORS (Integral) for individual fixtures will control entire length of fixture and will be located on feed end of fixture.



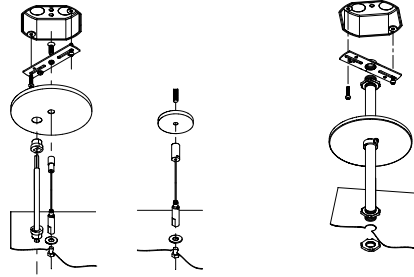
SENSORS for rows by default will control the feed section (end-left) of the row. Sensors can control more than an 8' section within a row. Consult factory for sensor/section options, or for multiple sensors in a continuous row.



## Standard Suspension Options

Standard suspension options include adjustable self-locking aircraft cables (AC) and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 60" 18 gauge power and 22 gauge dimming control SJT feed.

PD assemblies are 5/8" dia. (or 3/8" IP) hollow stem for power feed by others, 24" is standard. Consult factory for longer suspension lengths and other mounting options.

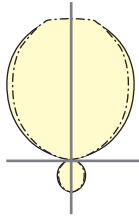


**AC** = Aircraft Cable

**PD** = Pendant Stem

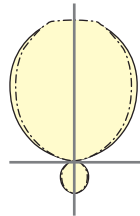
## Photometry

ADL-RO4-I-WRA-40-LO-4



4000K CCT  
WATTS: 21  
LUMENS: 2398  
LPW: 114  
Distribution:  
92% Indirect  
8% Direct

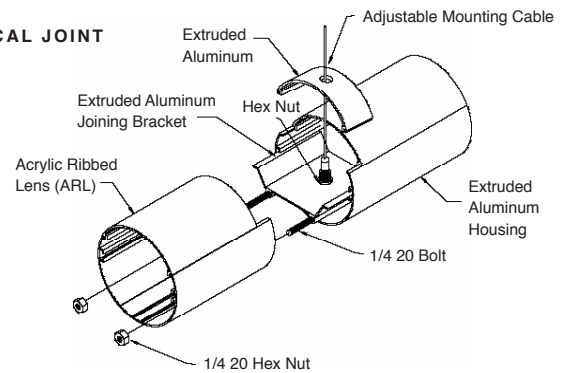
ADL-RO4-I-WRA-40-SO-4



4000K CCT  
WATTS: 28  
LUMENS: 3198  
LPW: 114  
Distribution:  
92% Indirect  
8% Direct

## Installation Detail

### TYPICAL JOINT



## Specifications

**HOUSING:** Extruded aluminum housing. Joiner ends are notched for continuous appearance in row-mounted applications. Machined end-caps.

**REFLECTOR:** Die-formed steel finished in highly reflective baked white enamel.

**OPTICS:** LED optimized white ribbed acrylic lens (WRA) is standard.

**LEDS:** LED modules in 27/30/35/40 & 50K CCT, 80 CRI (90CRI available). Lumen maintenance minimum  $L_{70} = 50,000$  hours. 3 SDCM color consistency. Zhaga™ compliant (Book 7). Field replaceable.

**ELECTRICAL:** Pre-wired Class 2 AOC electronic driver, 120/277V input, PF > 90%, THD < 20 @ 120V. 0-10V dimming to 1%. -20C to +50C operating range. <24dB Class A sound rating.

**MOUNTING** Standard options include adjustable self-locking aircraft cables (AC), and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 18 gauge power and 22 gauge dimming control SJT feed.

**FINISH:** Aluminum fixture housing and steel components are finished in baked white enamel applied over a five-stage pretreatment process. Canopies and pendant stems are white enamel unless otherwise specified.

**CERTIFICATION:** Luminaires are cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America. I.B.E.W. RoHS compliant.

Day-O-Lite offers a variety of tunable white and tunable color options for a range of human centric applications and budgets. It is recommended that a recognized authority on the benefits and best practices of tunable white be consulted prior to specification. As a rule, fewer channels will provide a basic level of performance for budget conscious applications. Conversely, an increased number of channels, a wider CCT range, higher CRI and more precise color consistency may be more appropriate depending on the application and desired results.

### HOW TO SPECIFY

Select from the various channel/control options below and insert desired **Ordering Code** into the **COLOR TEMP** column of the Ordering Guide on page 1. No need to add a dimming option as the codes include the chosen protocol.

### 2-CHANNEL TUNABLE WHITE OPTIONS

2700K - 6500K CCT range  
1000L/ft LED modules @ 4000K  
80+ CRI w/3SDCM color accuracy  
10W/ft. nominal power

#### Ordering Codes

**2DIM10** for 0-10V control  
**2DALI** for DALI control  
**2DMX** for DMX control  
**2LTQ** for Lutron Quantum control  
**2SNS** for control via Signify SNS sensors  
(requires wireless control by others)

### LEGRAND BLANCO MULTI-CHANNEL OPTIONS

#### Blanco-2

Blanco-2 mixes two channels of white LEDs to approximate the blackbody curve for tunable white applications. CCT and intensity may be adjusted with controls by others.

3000K-5000K CCT range  
1000L/ft LED modules @ 4000K  
90+ CRI w/2SDCM color accuracy  
10W/ft. nominal power

#### Ordering Codes

**B2DLM** for DLM control  
**B2DIM10** for 0-10V control  
**B2DMX** for DMX control

#### Blanco-3

Blanco-3 mixes three channels of white LEDs across a wider range of color temperatures for more demanding tunable white applications. CCT and intensity may be adjusted with controls by others.

2700K-6500K CCT range  
1000L/ft. LED modules @ 4000K  
90+ CRI w/SDCM color accuracy  
10W/ft. nominal power

#### Ordering Codes

**B3DLM** for DLM control  
**B3DIM10** for 0-10V control  
**B3DMX** for DMX control

### LUMENETIX ARAYA5 TUNABLE COLOR

araya5 by Lumenetix mixes five colors of LEDs for advanced tunable color that closely matches the black body locus for the most demanding human centric applications. CCT and intensity may be controlled via 0-10V, DALI, DLM and Lutron EcoSystem controls. CCT, intensity, hue and saturation may be controlled via DMX controls. Ideal for use in hospitals, therapy and recovery centers, and assisted living facilities.

On board Bluetooth low energy (BLE)  
1650K-8000K CCT range w/90+ CRI  
Dimming from 100% to 1% or 0.1%  
Gradients of saturated color and hue from 1-100%  
2SDCM - thermal/optical feedback for color accuracy

#### Ordering Codes

**LX10** for 0-10V control  
**LXDX** for DMX controls  
**LXDL** for DLM controls  
**LXLT** for Lutron EcoSystem controls  
**LXDA** for DALI controls

### RGB & RGB/W TUNABLE COLOR

RGB = Red, green, blue color mixing LEDs  
RGB/W = Red, green, blue w/white of chosen CCT  
Dimming from 100% to 1%.  
90+ CRI w/3SDCM color accuracy  
10W/ft. nominal power

#### Ordering Codes

**RGB** for DMX control  
**RGB27** for DMX control w/2700K white  
**RGB30** for DMX control w/3000K white  
**RGB35** for DMX control w/3500K white  
**RGB40** for DMX control w/4000K white  
**RGB50** for DMX control w/5000K white  
**RRB65** for DMX control w/6500K white

Day-O-Lite makes no claims as to the psychological or physiological efficacy of the white color tuning options offered herein.