

# RINGS BY FORUM

A truly unique lighting fixture design that shatters the limitations of conventional lighting fixtures, through a housing designed exclusively for LEDs. Forum offers the **RINGS** family of LED fixtures in diameters from 18" through 48", all less than 1" tall. **RINGS** can be integrated into any space, vertical and horizontal surfaces, straight and conical cable mounting, as well as single and multiple stem configurations. All **RINGS** provide even, uniform illumination, center to edge, without fade and without unsightly SJ cords.

LAMPING OPTIONS AT A GLANCE:



JOB: \_\_\_\_\_ TYPE: \_\_\_\_\_

## ORDERING CODE

RNG	SIZE	MOUNTING	LED SPEC	COLOR	DISTRIBUTION	SHIELDING	VOLTAGE	FINISH	Indirect / Direct	
									OPTION 1	OPTION 2
	18 18" OD	S Surface *	LED LED	27 2700K	D Direct	SAT Satin Frosted	120V	WH White	EC Emergency Circuit	
	24 24" OD	SC Straight Cable †		30 3000K	I Indirect	WOL White Opal	277V	SV Silver	DIMMING OPTIONS:	
	36* 36" OD	CC Conical Cable		40 4000K	5050 50% Direct/Indirect	CAL Clear Acrylic	UNV	BK Black	D10V 0-10V dimming 1% power class	DLA3 Lutron HiLume A-Series 3-wire
	48* 48" OD	H Rigid Stem **†		50 5000K				CC Custom Color — provide custom color RAL#:	DLA5 Lutron HiLume A-Series 5-wire	DLEH5 Lutron EcoSystem H-Series 5-wire
	*36" and 48" single stem rings require additional structure, increas- ing the thickness by 1 inch	* Direct light only † Spec. distance from ceiling:  See following pages for more mounting details		65 65000K					DLE55 Lutron EcoSystem 5-Series 5-wire	DALI Digitally Addressable Lighting Interface

## SPECIFICATIONS

\* Forum reserves the right to change this information at any time UPDATED 12/14/16

**HOUSING** 1/8" thick spun formed Aluminum housing. 7/8" low profile design for surface, stem, and cable mounted applications

**MOUNTING** Cable suspended configurations utilize 3/64" aircraft cable in straight or conical setups. Stem mounts utilize a single rigid 3/8" O.D. stem. Surface mounted units affix via a 1/8" aluminum backing plate directly to junction boxes.

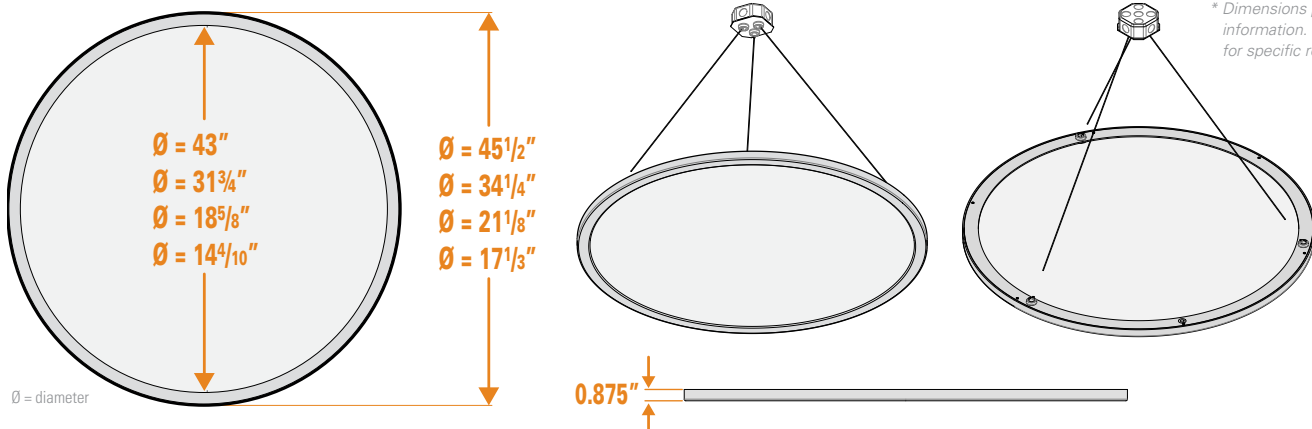
**DIFFUSION** 6mm thick edge-lit diffusor with native 50/50 direct/indirect properties with clear protective inlay standard. Additional frosted and white options are available for desired effects.

**POWER** All configurations utilize a remotely located LED driver unit. Unit is UL listed and IP 65 rated. Low voltage lines can then be run to specific install location.

**DRIVER** 120V, 227, and Universal voltage drivers available with 0-10V dimming. Please consult factory for special driver requirements and warranty information.

**LISTING** All fixtures bare an AFL-CIO/IBEW union label and are UL listed for surface mounting and damp location rated. For alternative location configurations, please consult factory.

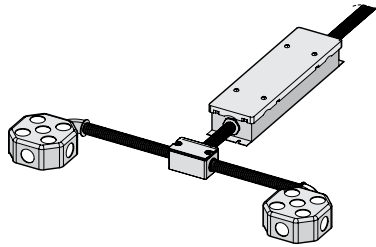
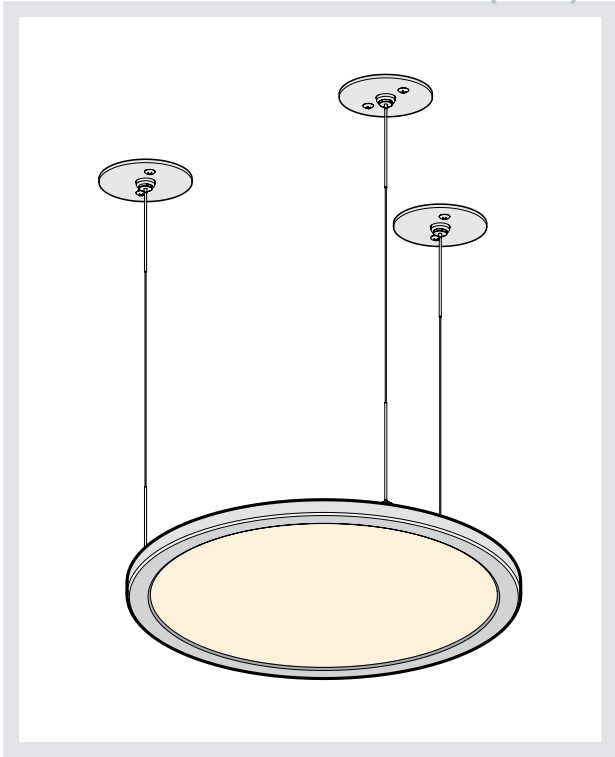
## OVERVIEW DRAWINGS



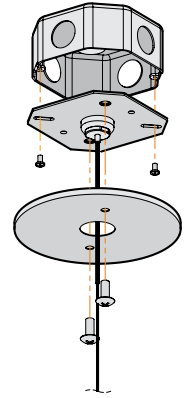
\* Dimensions provided as general information. Please see shop drawings for specific rough in dimensions.

## MOUNTING OPTIONS OVERVIEW

### STRAIGHT CABLE (SC)

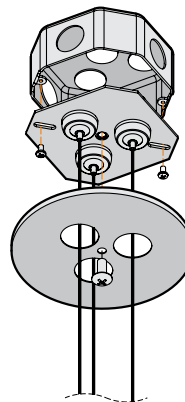
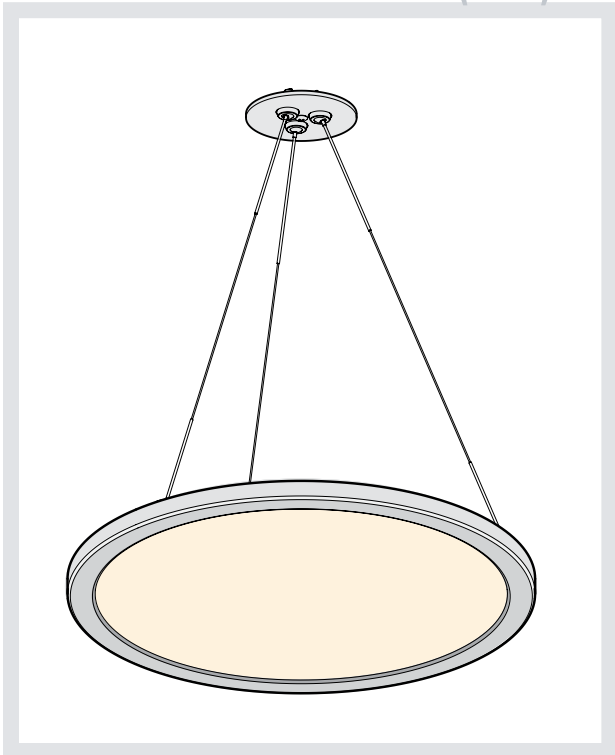


Remote driver must be installed within 100' from fixture. Use standard conduit to supply power to driver and from driver to separate low voltage positive and negative drops. Consult factory for custom driver installs.



Hang fixture by attaching the mounting plate to the J-Box. Complete installation by installing canopy cover to mounting plate. Slowly lower fixture until supported by cables. Minor leveling can be achieved at J-Box gripper.

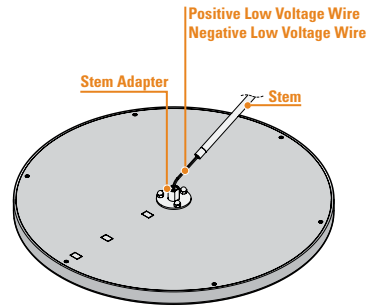
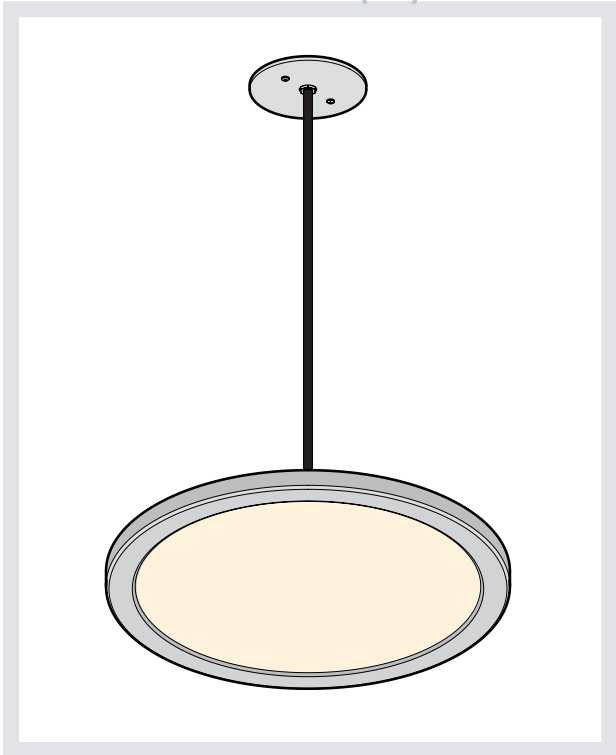
### CONICAL CABLE (CC)



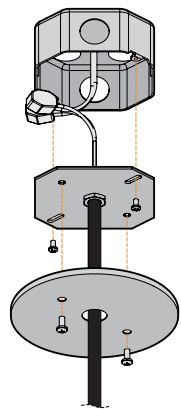
Hang fixture by attaching the mounting plate to the J-Box. Complete installation by installing canopy cover to mounting plate. Slowly lower fixture until supported by cables. Minor leveling can be achieved at J-Box gripper.

## MOUNTING OPTIONS OVERVIEW

### RIGID STEM (H)

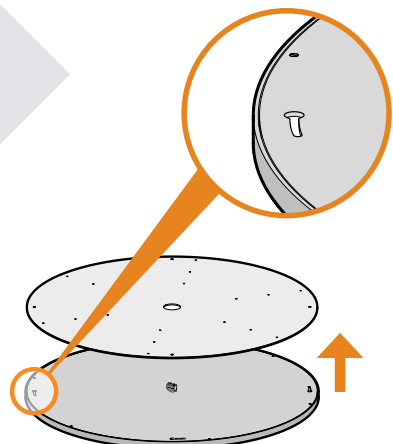
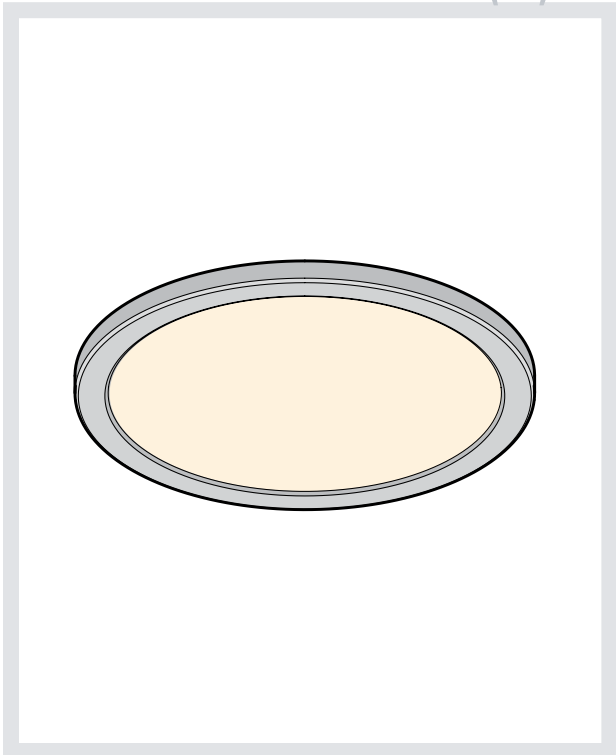


Push the low voltage positive and negatives wires exiting the fixture through the stem and thread the stem onto the adapter on the back of the fixture.

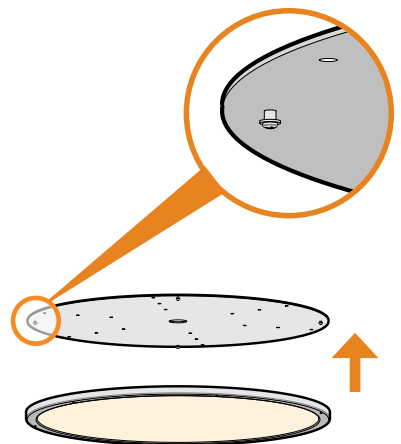


Lift fixture by the stem up to the attachment point and screw the mounting plate onto the J-Box. Complete installation by installing canopy cover to mounting plate.

### SURFACE MOUNT (S)

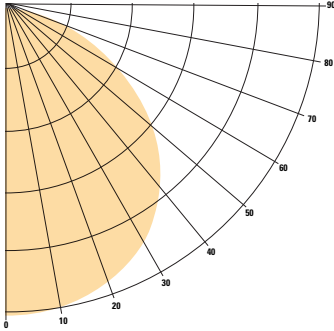


Hang fixture by lifting it onto pre set mounting screws and rotate and lock fixture into place. Note two mounting hole patterns for a large or small junction box.



### 36" RINGS WITH FROSTED LENS

#### PHOTOMETRIC CURVE



#### CANDELA DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	858	858	858	858	858	
5	859	857	856	857	856	81.8
15	839	836	836	839	837	237.3
25	797	794	795	796	798	368.4
35	722	719	719	717	719	451.5
45	607	601	600	601	603	465.7
55	456	454	452	458	454	408.1
65	288	292	289	297	294	290
75	138	139	137	142	142	147.8
85	36	35	33	35	32	37.2

#### ZONAL SUMMARY

ZONE	LUMENS	%FIXT
0-30	687	27.6
0-40	1139	45.8
0-60	2013	80.9
0-90	2488	100

#### SUMMARY DATA

TOTAL SYSTEM WATTAGE: **62w**

CORRECTIVE COLOR TEMP: **4020k**

COLOR RENDERING INDEX: **82.44RA**

TOTAL LUMEN OUTPUT: **2488**

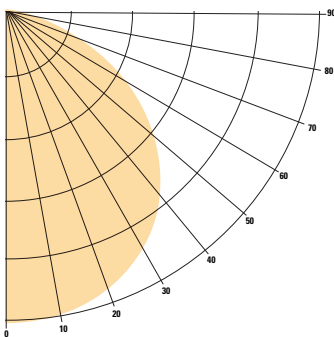
#### LUMINANCE DATA (CD/M<sup>2</sup>)

VERTICAL ANGLE	HORIZONTAL ANGLE		
	0	45	90
45	1667	1647	1656
55	1545	1531	1538
65	1323	1327	1351
75	1037	1029	1068
85	793	746	723

\* Maximum brightness not measured

### 24" RINGS WITH FROSTED LENS

#### PHOTOMETRIC CURVE



#### CANDELA DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	443	443	443	443	443	
5	446	444	442	442	442	42.3
15	434	433	432	431	430	122.4
25	412	408	407	407	406	188.7
35	370	369	366	366	362	230.2
45	306	307	305	305	299	235.9
55	231	228	227	226	226	204.2
65	149	149	148	145	145	145.8
69	73	70	69	68	74.4	147.8
85	17	20	18	20	15	19.9

#### ZONAL SUMMARY

ZONE	LUMENS	%FIXT
0-30	353	28
0-40	584	46.2
0-60	1024	81
0-90	1264	100

#### SUMMARY DATA

TOTAL SYSTEM WATTAGE: **33w**

CORRECTIVE COLOR TEMP: **3976k**

COLOR RENDERING INDEX: **83.32RA**

TOTAL LUMEN OUTPUT: **1264**

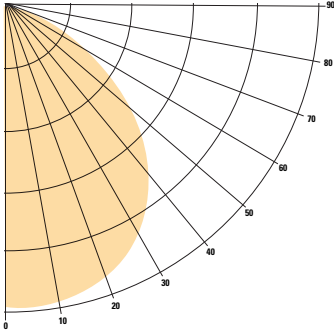
#### LUMINANCE DATA (CD/M<sup>2</sup>)

VERTICAL ANGLE	HORIZONTAL ANGLE		
	0	45	90
45	2441	2432	2391
55	2277	2236	2226
65	1986	1973	1931
75	1509	1532	1487
85	1070	1137	1003

\* Maximum brightness not measured

### 18" RINGS WITH FROSTED LENS

#### PHOTOMETRIC CURVE



#### CANDELA DISTRIBUTION

VERTICAL ANGLE	AVERAGE CANDELA	ZONAL LUMENS
0	432	
5	435	41.5
15	423	119.8
25	398	184.3
35	355	222.9
45	292	226.3
55	218	195.7
65	134	132.8
69	62	65.2
85	12	13.2

#### ZONAL SUMMARY

ZONE	LUMENS	%FIXT
0-30	346	28.8
0-40	568	47.3
0-60	990	82.4
0-90	1202	100

#### SUMMARY DATA

TOTAL SYSTEM WATTAGE: **36.2w**

CORRECTIVE COLOR TEMP: **3953k**

COLOR RENDERING INDEX: **83.17ra**

TOTAL LUMEN OUTPUT: **1202**

#### LUMINANCE DATA (CD/M<sup>2</sup>)

VERTICAL ANGLE	HORIZONTAL ANGLE
	0
45	3657
55	3366
65	2802
75	2107
85	1222

\* Maximum brightness not measured