

### 3" ROUND FLANGELESS

SUPER SHALLOW IC NEW CONSTRUCTION

### DIM TO WARM

Dimming from 3000K to 1600K, Spectrum's Infinium Dim To Warm series follows in the footsteps of older halogen lamps which turned warmer in color when dimmed.

NOMINAL LUMENS / WATTAGE DATA				
PART NUMBER	CCT RANGE	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
IF03RSN 007	27K-16K	502	7.3	69
IF03RSN 010	28K-16K	647	9.3	70
IF03RSN 015	30K-16K	1057	15.2	70

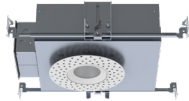
<sup>1</sup> Nominal Delivered Lumens at DD1 015 DL FL GP MW

PROJECT: \_\_\_\_\_  
TYPE: \_\_\_\_\_



#### AVAILABLE HOUSING TYPE

IF03RSN IC - IC New Construction



HOUSING						HOUSING OPTIONS						
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY		
IF03RSN	IC New Construction	DW	DIM TO WARM			PR 1.25" Ceiling Extension	D1 1%, 0-10V	1 120V 2 277V	B1 Expandable Bar Hangers	ER 7W Remote Battery		
			DD1	30-16K Dim to Warm	007 502 Lm 010 647 Lm 015 1057 Lm							
					Nominal Delivered Lumens at DD1 015 DL FL GP MW			D3 1%, ELV/MLV Phase-Cut (120V)			1 120V	

#### AVAILABLE TRIM / MODULE TYPES



TRIM OPTIONS					SEPARATE	
TRIM TYPE	BEAM <sup>1</sup>	LENS	FINISH	OPTION	ADDITIONAL ACCESSORIES	
DL Downlight	SP Spot (20°)	GN No Lens <small>Not Available in Wet Location</small>	MW Matte White	WL Wet Location <small>Requires GP or GC Lens</small>	BAR HANGERS	
	NF Narrow Flood (26°)	GP Solite™ Micro Prism Lens	MB Matte Black		B2 27" Solid Bar Hangers	B4 24" C-Channel Bar Hangers
	FL Flood (35°)	GC Clear Glass Lens	PT Platinum Silver			
	WF Wide Flood (56°)		CC Custom Color			
WW Wall Wash	WF Wide Flood	LW Wall Wash Lens				

<sup>1</sup> Nominal Beam Angles Shown

EXAMPLE: IF03RSNICDWD1007/D12B1/DLNF GCMWWL

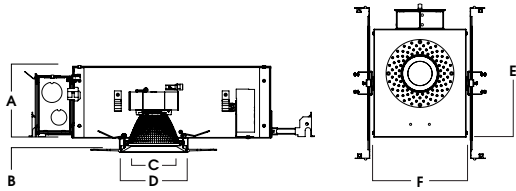
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



## HOUSING DIMENSIONS

### IF03RSN IC - SUPER SHALLOW IC NEW CONSTRUCTION

IC rated frame-in kit for new construction with direct insulation contact and CCEA (Chicago Plenum) compatibility.



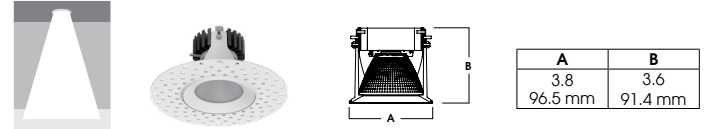
A	B	C	D	E	F
4.0	.625	2.5	3.8	13.2	9.5
101.6 mm	15.9 mm	63.5 mm	96.5 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

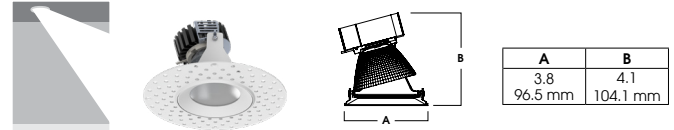
Ceiling Cutout: Ø 3<sup>7/8</sup>"

## TRIM / MODULE DATA

### DL - DOWNLIGHT MODULE

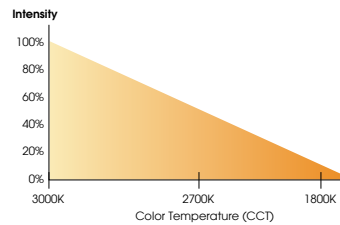


### WW - WALL WASH MODULE

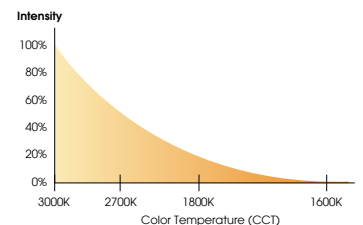


## DIMMING BEHAVIOR

### PHASE DIMMING (LINEAR)



### 0-10V DIMMING (LOGARITHMIC)



## FEATURES

### APPLICATION

Versatile super shallow plenum 3" round recessed LED luminaire with a 4" deep IC housing, featuring downlight and wall wash flangeless trim options with insulated ceiling housing.

### FEATURES

Two-stage optical system for smooth low glare light distribution. Zhaga International Standard LED module for ease of maintenance and replacement. Shallow plenum design. Tool-less LED module, driver, and J-Box access. Multi-Bar mounting brackets. Expandable bar hangers with horizontal range of 14.2"-26", and vertical adjustment of 2.325". Post-lock trim retention springs. Integral 0.625" collar, works with up to 1" ceiling. For thicker ceilings consult factory.

### TRIM FINISH

A variety of architectural powdercoat finishes are available. Trims available with and without lens.

### ELECTRONICS

Dim to Warm offering a familiar dimming experience to traditional incandescent lamps (3000K-1600K). All options feature 3-step MacAdam Ellipse binning and 95 CRI 0-10V or phase-cut dimming to 1%, standard.

### CONSTRUCTION

Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Flangeless one piece die-cast aluminum trim is finished to specification. Passive machined aluminum heatsink.

### CODE COMPLIANCE

BAA Compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet Location. Manufactured and tested to UL standards No. 1598/8750. City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.



# PHOTOMETRIC DATA - 3" ROUND SHALLOW

IF03RMx IC DWDD1015 DLSPGPM

CANDLEPOWER CURVE TEST SP-00947_1_M-15L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6				
	0.00°	0° - 10°	314	31%	5.5'	153 fc	1.9'	73 fc	9'	2'	235	3.68	191	3.26	
	0.00° 4,642	0° - 20°	671	66%	6.5'	110 fc	2.3'	53 fc	12'	2'	248	3.88	229	3.91	
	5.00° 3,747	0° - 30°	887	87%	7.5'	83 fc	2.6'	39 fc	16'	4'	55	0.85	64	1.09	
	10.00° 2,283	0° - 40°	965	94%	8.5'	64 fc	3.0'	31 fc	Delivered Illuminance Rating: (DIR)						
	15.00° 1,242	0° - 60°	1,001	98%	10.0'	46 fc	3.5'	22 fc	Recessed Mounting						
	20.00° 725	0° - 80°	1,021	100%	12.0'	32 fc	4.2'	15 fc	Square rooms used for multiple units:						
	30.00° 240	0° - 90°	1,022	100%	14.0'	24 fc	4.9'	11 fc	- RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50						
	40.00° 39	Total	1,022	100%	16.0'	18 fc	5.6'	9 fc	- RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66						
	50.00° 19								+ Average Footcandles at 2.5' Above Floor						
	60.00° 15														
	70.00° 7														
	80.00° 2														
90.00° 0															

Delivered Lumens: 1,022  
Luminaire Watts: 15.2  
LER: 67.24

CP at 0deg (Nadir): 4,642  
CRI: 95

Beam Angle: 19.73  
Spacing Ratio: 0.33

Lumen Multiplier: 7L x 0.38, 10L x 0.49  
CCT Multiplier: N/A, dim to warm emitter

IF03RMx IC DWDD1015 DLNFGPMW

CANDLEPOWER CURVE TEST SP-00947_2_M-15L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0.00°	0° - 10°	279	27%	5.5'	118 fc	2.5'	54 fc	9'	2'	265	3.93	198	3.24	
	0.00° 3,557	0° - 20°	664	64%	6.5'	84 fc	3.0'	39 fc	12'	4'	65	0.97	64	1.05	
	5.00° 3,221	0° - 30°	896	87%	7.5'	63 fc	3.4'	29 fc	16'	6'	32	0.48	32	0.52	
	10.00° 2,326	0° - 40°	977	95%	8.5'	49 fc	3.9'	23 fc	Delivered Illuminance Rating: (DIR)						
	15.00° 1,392	0° - 60°	1,011	98%	10.0'	36 fc	4.6'	16 fc	Recessed Mounting						
	20.00° 807	0° - 80°	1,029	100%	12.0'	25 fc	5.5'	11 fc	Square rooms used for multiple units:						
	30.00° 308	0° - 90°	1,030	100%	14.0'	18 fc	6.4'	8 fc	- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33						
	40.00° 45	Total	1,030	100%	16.0'	14 fc	7.4'	6 fc	- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00						
	50.00° 19								+ Average Footcandles at 2.5' Above Floor						
	60.00° 16														
	70.00° 12														
	80.00° 4														
90.00° 1															

Delivered Lumens: 1,030  
Luminaire Watts: 15.2  
LER: 67.76

CP at 0deg (Nadir): 3,557  
CRI: 95

Beam Angle: 25.9  
Spacing Ratio: 0.43

Lumen Multiplier: 7L x 0.38, 10L x 0.49  
CCT Multiplier: N/A, dim to warm emitter

IF03RMx IC DWDD1014 DLFLGPMW

CANDLEPOWER CURVE TEST SP-00947_3_M-15L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0.00°	0° - 10°	211	20%	5.5'	82 fc	3.4'	36 fc	9'	2'	222	3.24	199	3.24	
	0.00° 2,475	0° - 20°	610	58%	6.5'	59 fc	4.1'	25 fc	12'	4'	66	0.97	65	1.05	
	5.00° 2,335	0° - 30°	907	86%	7.5'	44 fc	4.7'	19 fc	16'	6'	25	0.37	21	0.33	
	10.00° 1,926	0° - 40°	1,004	95%	8.5'	34 fc	5.3'	15 fc	Delivered Illuminance Rating: (DIR)						
	15.00° 1,438	0° - 60°	1,038	98%	10.0'	25 fc	6.2'	11 fc	Recessed Mounting						
	20.00° 1,005	0° - 80°	1,055	100%	12.0'	17 fc	7.5'	7 fc	Square rooms used for multiple units:						
	30.00° 337	0° - 90°	1,056	100%	14.0'	13 fc	8.7'	5 fc	- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33						
	40.00° 41	Total	1,056	100%	16.0'	10 fc	10.0'	4 fc	- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00						
	50.00° 16								+ Average Footcandles at 2.5' Above Floor						
	60.00° 13														
	70.00° 9														
	80.00° 2														
90.00° 1															

Delivered Lumens: 1,056  
Luminaire Watts: 15.2  
LER: 69.47

CP at 0deg (Nadir): 2,475  
CRI: 95

Beam Angle: 34.62  
Spacing Ratio: 0.55

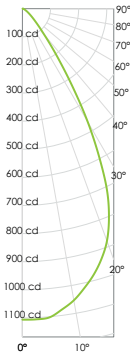
Lumen Multiplier: 7L x 0.38, 10L x 0.49  
CCT Multiplier: N/A, dim to warm emitter



# PHOTOMETRIC DATA - 3" ROUND SHALLOW

IF03RMx IC DWDD1015 DLWFGPMW

CANDLEPOWER CURVE TEST SP-00947_M-15L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS		SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT						
		0° - 10°	105	11%	Mounting Height Aff	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00°	0° - 10° <td>105 <td>11% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FC *</td> <td>W/Sq. Ft.</td> <td>FC *</td> <td>W/Sq. Ft.</td> </td></td>	105 <td>11% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FC *</td> <td>W/Sq. Ft.</td> <td>FC *</td> <td>W/Sq. Ft.</td> </td>	11% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FC *</td> <td>W/Sq. Ft.</td> <td>FC *</td> <td>W/Sq. Ft.</td>							FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	0.00° 1,106	0° - 20°	378	40%	5.5'	37 fc	5.9'	13 fc	9'	4'	59	0.92	51	0.92
	5.00° 1,102	0° - 30°	692	73%	6.5'	26 fc	7.0'	9 fc	12'	6'	27	0.43	24	0.43
	10.00° 1,053	0° - 40°	852	90%	7.5'	20 fc	8.0'	7 fc	16'	10'	10	0.16	7	0.12
	15.00° 980	0° - 60°	931	98%	8.5'	15 fc	9.1'	5 fc	Delivered Illuminance Rating: (DIR)		64 FC per W/Sq. Ft.		55 FC per W/Sq. Ft.	
	20.00° 879	0° - 80°	947	100%	10.0'	11 fc	10.7'	4 fc	Recessed Mounting Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. -2.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	30.00° 464	0° - 90°	949	100%	12.0'	8 fc	12.9'	3 fc						
	40.00° 121	Total	949	100%	14.0'	6 fc	15.0'	2 fc						
	50.00° 41				16.0'	4 fc	17.2'	1 fc						
	60.00° 17													
	70.00° 7													
	80.00° 2													
	90.00° 1													



Delivered Lumens: **949**  
Luminaire Watts: **15.2**  
LER: **62.43**

CP at 0deg (Nadir): **1,106**  
CRI: **95**

Beam Angle: **56.4**  
Spacing Ratio: **0.9**

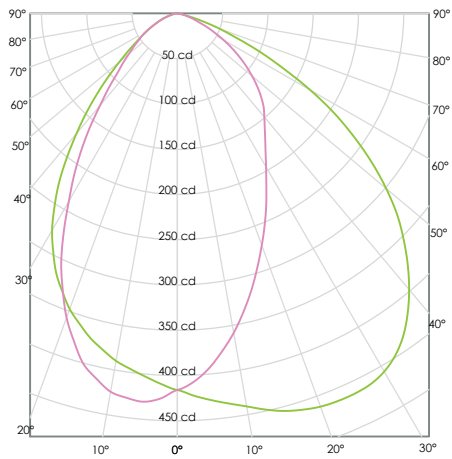
Lumen Multiplier: **7L x 0.38, 10L x 0.49**  
CCT Multiplier: **N/A, dim to warm emitter**



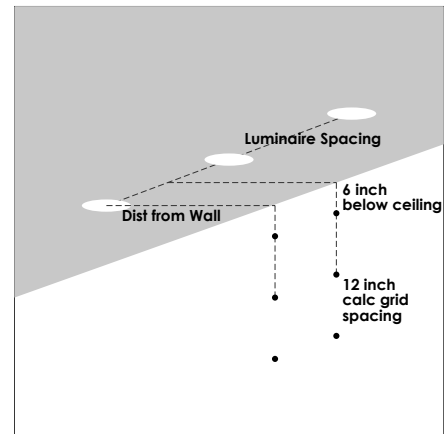
# PHOTOMETRIC DATA - 3" ROUND WALL WASH

IF03RMx IC DWDD1015 WWWFLWMW

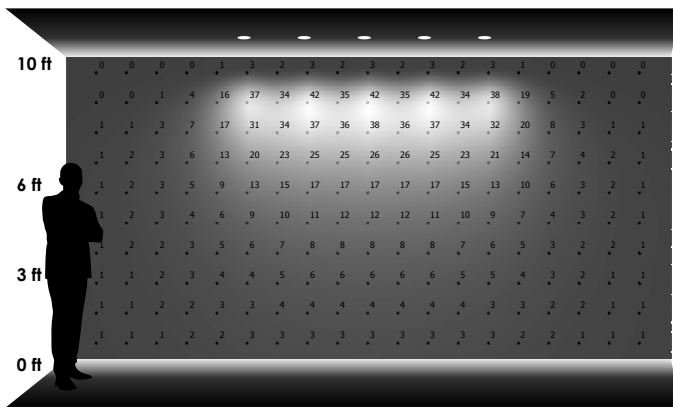
CANDLEPOWER CURVE TEST SP-00951_M-15L	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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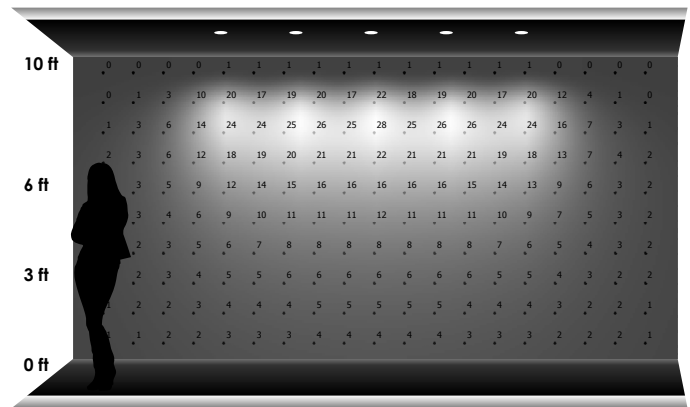
Delivered Lumens: 726  
 Luminaire Watts: 15.2  
 LER: 47.76  
  
 CP at 0deg (Nadir): 416  
 CRI: 95  
  
 Lumen Multiplier: 7L x 0.38, 10L x 0.49  
 CCT Multiplier: N/A, dim to warm emitter



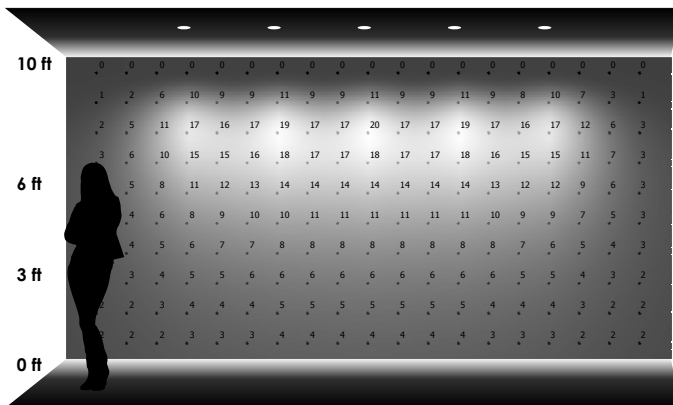
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



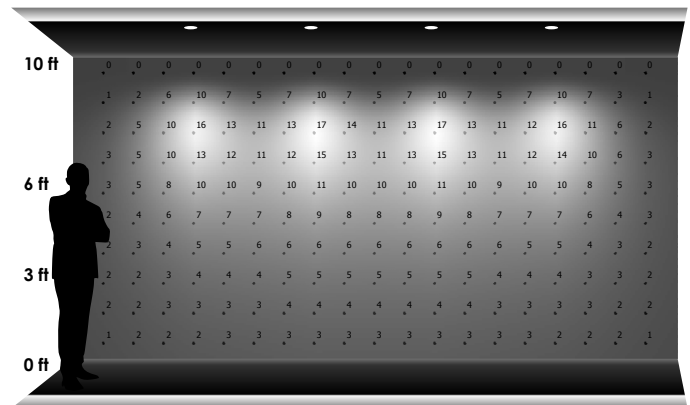
**5 LUMINAIRES**  
 2' away from wall  
 2' between luminaires



**5 LUMINAIRES**  
 2'-6" away from wall  
 2'-6" between luminaires



**5 LUMINAIRES**  
 3' away from wall  
 3' between luminaires



**4 LUMINAIRES**  
 3' away from wall  
 4' between luminaires

