

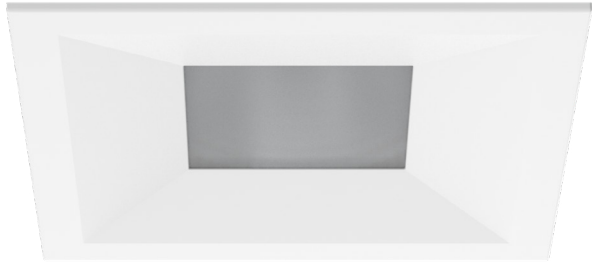


### 3" SQUARE FLANGED

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.

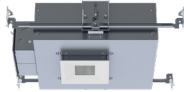


NOMINAL LUMENS / WATTAGE DATA				
PART NUMBER	CCT RANGE	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
IF03SSF 007	27K-16K	353	7.3	48
IF03SSF 010	28K-16K	456	9.3	49
IF03SSF 015	30K-16K	744	15.2	49

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

#### AVAILABLE HOUSING TYPE

IF03SSF IC - IC New Construction



HOUSING						HOUSING OPTIONS									
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY					
IF03SSF	IC	IC New Construction	DW	DIM TO WARM		PR	1.25" Ceiling Extension	D1	1% 0-10V	1	120V	B1	Expandable Bar Hangers	ER	7W Remote Battery
				DD1	30-16K Dim to Warm			007	353 Lm	010	456 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 ADDITIONAL ACCESSORIES	
TRIM TYPE	BEAM <sup>1</sup>	LENS	FINISH	OPTION			
DL	Downlight	SP Spot (21°)	GN No Lens Not Available in Wet Location	MW Matte White	MF Matching Flange Default Selection with PH Trim Type	WL Wet Location Requires GP or GC Lens	GOOF RING
PH	Pinhole Downlight	NF Narrow Flood (28°)	GP Solite™ Micro Prism Lens	MB Matte Black	WF White Flange For Use with Non-White Trim Finish		GRIF03S
		FL Flood (38°)	GC Clear Glass Lens	PT Platinum Silver			MW Matte White
		WF Wide Flood (54°)		CC Custom Color			MB Matte Black
AA	Adjustable Accent	NF Narrow Flood (29°)					PT Platinum Silver
		FL Flood (38°)					CC Custom Color
		WF Wide Flood (42°)					BAR HANGERS
WW	Wall Wash	WF Wide Flood	LW Wall Wash Lens				B2 27" Solid Bar Hangers
							B4 24" C-Channel Bar Hangers

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

EXAMPLE: IF03SSFCDD1007/D12B1/DLNF GCMWFWL

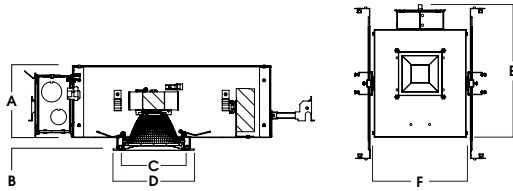
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



## HOUSING DIMENSIONS

### IF03SSF IC - SUPER SHALLOW IC NEW CONSTRUCTION

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



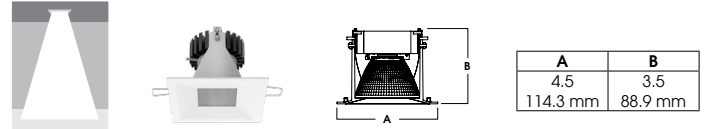
A	B	C	D	E	F
4.0	.625	3.8	4.5	13.2	9.5
101.6 mm	15.9 mm	96.5 mm	114.3 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

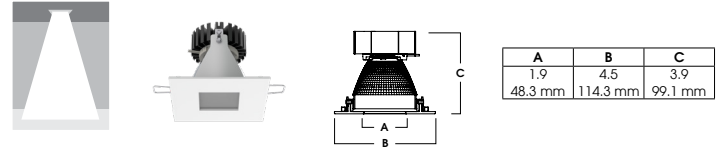
Ceiling Cutout: 4.1" Sq

## TRIM / MODULE DATA

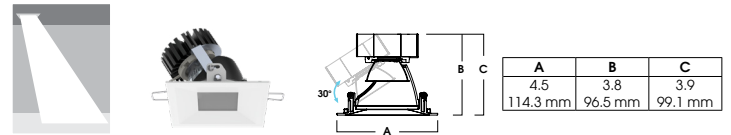
### DL - DOWNLIGHT MODULE



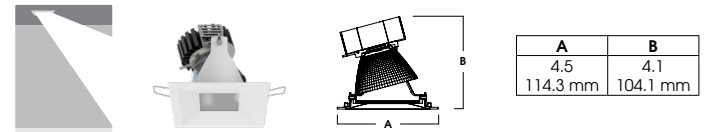
### PH - PINHOLE DOWNLIGHT MODULE



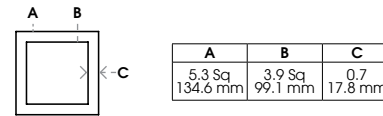
### AA - ADJUSTABLE MODULE (30°)



### WW - WALL WASH MODULE

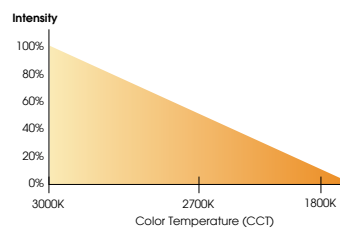


### GRIF03S - 3" SQUARE GOOF RING

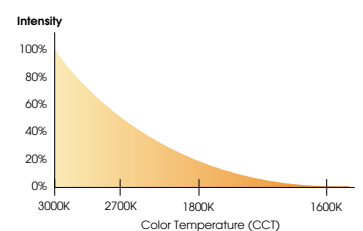


## DIMMING BEHAVIOR

### PHASE DIMMING (LINEAR)



### 0-10V DIMMING (LOGARITHMIC)



## FEATURES

### APPLICATION

Versatile super shallow plenum 3" square recessed LED luminaire with a 4" deep IC housing, featuring downlight, adjustable accent, wall wash and pinhole downlight 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". Posi-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. Specify trim finish and flange finish.

### 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. Self-flanged 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" SQUARE SHALLOW

IF03SMx IC DWDD1015 DLSPGPMW

CANDLEPOWER CURVE TEST SP-00948_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°	202	29%	5.5'	98 fc	2.1'	46 fc	9'	2'	159	3.68	129	3.26
	0.00° 2,953	0° - 20°	455	65%	6.5'	70 fc	2.4'	33 fc	12'	2'	167	3.88	154	3.91
	5.00° 2,441	0° - 30°	602	86%	7.5'	53 fc	2.8'	25 fc	16'	4'	37	0.85	43	1.09
	10.00° 1,575	0° - 40°	643	92%	8.5'	41 fc	3.2'	19 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 946	0° - 60°	674	97%	10.0'	30 fc	3.7'	14 fc	43 FC per W/Sq. Ft.    39 FC per W/Sq. Ft.					
	20.00° 546	0° - 80°	695	100%	12.0'	21 fc	4.5'	10 fc	Recessed Mounting					
	30.00° 107	0° - 90°	697	100%	14.0'	15 fc	5.2'	7 fc	Square rooms used for multiple units:					
	40.00° 26	Total	697	100%	16.0'	12 fc	6.0'	5 fc	- RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50					
	50.00° 18								- RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66					
	60.00° 15								+ Average Footcandles at 2.5' Above Floor					
	70.00° 12													
80.00° 5														
90.00° 1														

Delivered Lumens: 697  
Luminaire Watts: 15.2

CP at 0deg (Nadir): 2,953  
CRI: 95

Beam Angle: 21.18  
Spacing Ratio: 0.35

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

IF03SMx IC DWDD1015 DLNFGPMW

CANDLEPOWER CURVE TEST SP-00944_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°	172	24%	5.5'	72 fc	2.7'	33 fc	9'	2'	184	3.93	137	3.24
	0.00° 2,191	0° - 20°	443	61%	6.5'	52 fc	3.2'	24 fc	12'	4'	46	0.97	45	1.05
	5.00° 1,993	0° - 30°	616	85%	7.5'	39 fc	3.7'	18 fc	16'	6'	17	0.37	14	0.33
	10.00° 1,483	0° - 40°	670	92%	8.5'	30 fc	4.2'	14 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 987	0° - 60°	703	97%	10.0'	22 fc	4.9'	10 fc	47 FC per W/Sq. Ft.    42 FC per W/Sq. Ft.					
	20.00° 608	0° - 80°	724	100%	12.0'	15 fc	5.9'	7 fc	Recessed Mounting					
	30.00° 121	0° - 90°	726	100%	14.0'	11 fc	6.9'	5 fc	Square rooms used for multiple units:					
	40.00° 33	Total	726	100%	16.0'	9 fc	7.9'	4 fc	- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33					
	50.00° 18								- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00					
	60.00° 14								+ Average Footcandles at 2.5' Above Floor					
	70.00° 11													
80.00° 4														
90.00° 1														

Delivered Lumens: 726  
Luminaire Watts: 15.2  
LER: 47.76

CP at 0deg (Nadir): 2,191  
CRI: 95

Beam Angle: 27.78  
Spacing Ratio: 0.45

Lumen Multiplier: 7L x 0.38, 10L x 0.49, 15L x 0.8  
CCT Multiplier: N/A, dim to warm emitter

IF03SMx IC DWDD1015 DLFLGPMW

CANDLEPOWER CURVE TEST SP-00948_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°	136	18%	5.5'	51 fc	3.8'	21 fc	9'	4'	39	0.81	35	0.81
	0.00° 1,538	0° - 20°	414	56%	6.5'	36 fc	4.5'	15 fc	12'	4'	46	0.97	45	1.05
	5.00° 1,473	0° - 30°	621	84%	7.5'	27 fc	5.2'	12 fc	16'	6'	18	0.37	14	0.33
	10.00° 1,288	0° - 40°	686	92%	8.5'	21 fc	5.9'	9 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,014	0° - 60°	722	97%	10.0'	15 fc	6.9'	6 fc	48 FC per W/Sq. Ft.    43 FC per W/Sq. Ft.					
	20.00° 710	0° - 80°	742	100%	12.0'	11 fc	8.3'	5 fc	Recessed Mounting					
	30.00° 158	0° - 90°	744	100%	14.0'	8 fc	9.6'	3 fc	Square rooms used for multiple units:					
	40.00° 38	Total	744	100%	16.0'	6 fc	11.0'	3 fc	- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33					
	50.00° 21								- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00					
	60.00° 14								+ Average Footcandles at 2.5' Above Floor					
	70.00° 11													
80.00° 5														
90.00° 1														

Delivered Lumens: 744  
Luminaire Watts: 15.2  
LER: 48.95

CP at 0deg (Nadir): 1,538  
CRI: 95

Beam Angle: 38.01  
Spacing Ratio: 0.61

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



# PHOTOMETRIC DATA - 3" SQUARE SHALLOW

IF03SMx IC DWDD1015 DLWFGPMW

CANDLEPOWER CURVE TEST SP-00948_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 2		RCR 4						
	0.00°	0° - 10°	83	10%	5.5'	28 fc	5.6'	10 fc	9'	4'	50	0.92	43	0.92			
	0.00°	850	0° - 20°	321	40%	6.5'	20 fc	6.7'	7 fc	12'	6'	23	0.43	20	0.43		
	5.00°	857	0° - 30°	588	73%	7.5'	15 fc	7.7'	5 fc	16'	10'	9	0.16	6	0.12		
	10.00°	870	0° - 40°	718	89%	8.5'	12 fc	8.7'	4 fc	Delivered Illuminance Rating: (DIR)		54 FC per W/Sq. Ft.		47 FC per W/Sq. Ft.			
	15.00°	857	0° - 60°	788	98%	10.0'	9 fc	10.3'	3 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							
	20.00°	759	0° - 80°	803	100%	12.0'	6 fc	12.3'	2 fc								
	30.00°	313	0° - 90°	805	100%	14.0'	4 fc	14.4'	2 fc								
	40.00°	99	Total	805	100%	16.0'	3 fc	16.4'	1 fc								
	50.00°	37															
	60.00°	15															
	70.00°	7															
	80.00°	3															
	90.00°	1															

Delivered Lumens: **805**  
Luminaire Watts: **15.2**  
LER: **52.96**

CP at 0deg (Nadir): **850**  
CRI: **95**

Beam Angle: **54.33**  
Spacing Ratio: **0.91**

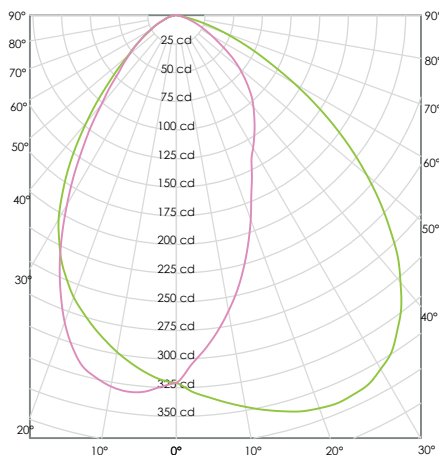
Lumen Multiplier: **7L x 0.38, 10L x 0.49**  
CCT Multiplier: **N/A, dim to warm emitter**



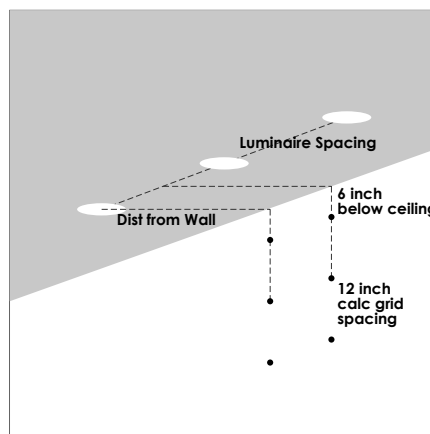
# PHOTOMETRIC DATA - 3" SQUARE SHALLOW WALL WASH

IF03SMx IC DWDD1015 WWWFLWMW

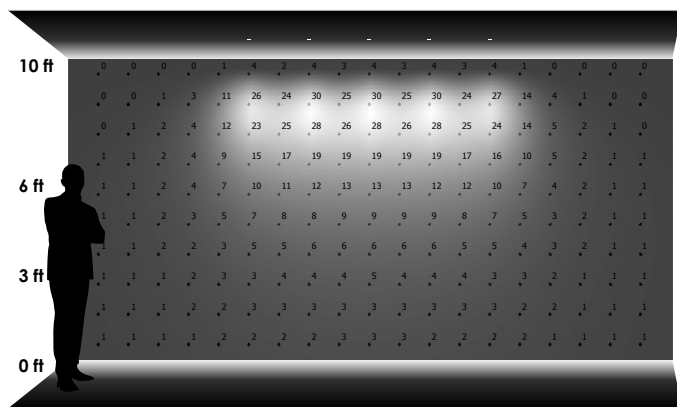
CANDLEPOWER CURVE TEST SP-00955_M-15L	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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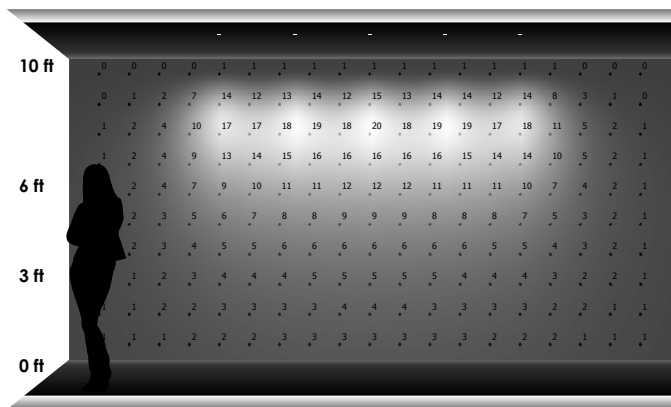
Delivered Lumens: 541  
 Luminaire Watts: 15.2  
 LER: 35.59  
  
 CP at 0deg (Nadir): 321  
 CRI: 95  
  
 Lumen Multiplier: 7L x 0.38, 10L x 0.49  
 CCT Multiplier: N/A, dim to warm emitter



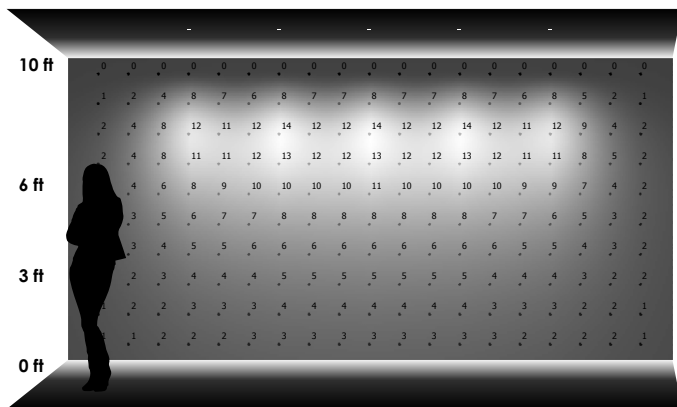
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



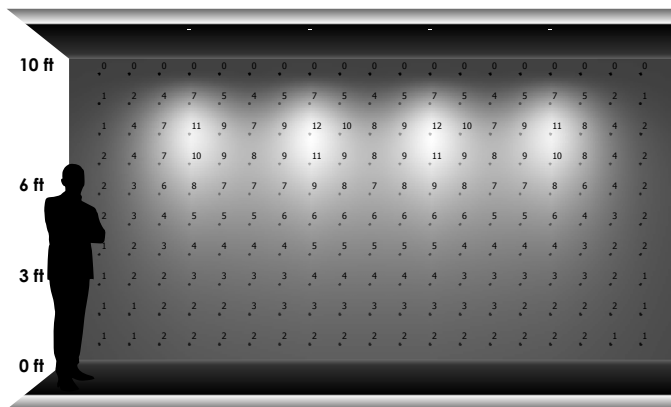
**5 LUMINAIRES**  
 2' away from wall  
 2' between luminaires



**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

