

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



## 3" SQUARE FLANGED

### SUPER SHALLOW IC NEW CONSTRUCTION

Spectrum's Infinium 3" recessed square downlight series features a deep shallow plenum housing and variety of trims for accent and general illumination.

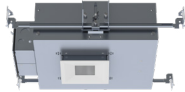


NOMINAL LUMENS / WATTAGE DATA				
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
IF03SSF 007	N/A	359	5	66
IF03SSF 010	RDF03OC 10L	503	7	69
IF03SSF 015	N/A	700	10	69

<sup>1</sup> Nominal Delivered Lumens at 835 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	PC	90 Minimum	PR 1.25" Ceiling Extension	N1 Non-Dimming Electronic Driver	D1 1%, 0-10V	1 120V	2 277V	B1 Expandable Bar Hangers	ER 7W Remote Battery		
				922 2200K								010 359 Lm	
				2700K									
				3000K									
				3000K	Nominal Delivered Lumens at 835 DL FL GP MW	D3 1%, ELV/MLV Phase-Cut (120V)	1 120V						
			3500K										
			4000K										
			4000K										

#### AVAILABLE TRIM / MODULE TYPES



TRIM OPTIONS						SEPARATE	
TRIM TYPE	BEAM <sup>1</sup>	LENS	FINISH	FLANGE FINISH	OPTION	ADDITIONAL ACCESSORIES	
DL	Downlight	SP Spot (25°)	GN No Lens Not Available in Wet Location	MW Matte White	MF Matching Flange Default Selection with PH Trim Type	GOOF RING	
PH	Pinhole Downlight	NF Narrow Flood (31°)	GP Solite™ Micro Prism Lens	MB Matte Black	WF White Flange For Use with Non-White Trim Finish	GRIF03S	MW Matte White
		FL Flood (42°)	GC Clear Glass Lens	PT Platinum Silver			MB Matte Black
		WF Wide Flood (53°)		CC Custom Color			PT Platinum Silver
							CC Custom Color
AA	Adjustable Accent	NF Narrow Flood (32°)				BAR HANGERS	
		FL Flood (38°)				B2	27" Solid Bar Hangers
		WF Wide Flood (42°)				B4	24" C-Channel Bar Hangers
WW	Wall Wash	WF Wide Flood	LW Wall Wash Lens				

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

EXAMPLE: IF03SSFICPC927007/D12B1/DLNFPMWFWL

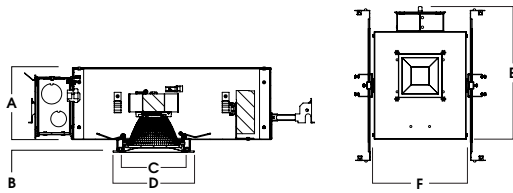
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



## 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.



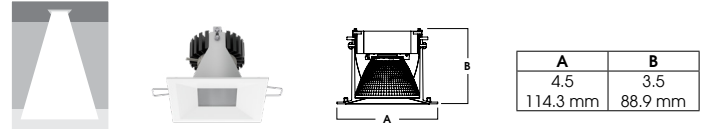
A	B	C	D	E	F
4.0	.625	3.8	4.5	13.2	9.5
101.6 mm	15.9 mm	96.5 mm	114.3 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

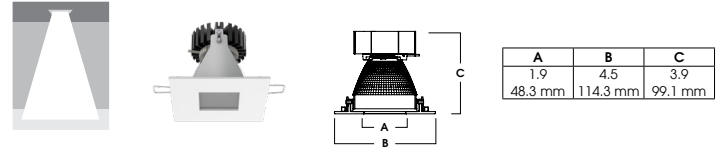
Ceiling Cutout: 4.1" Sq

## TRIM / MODULE DATA

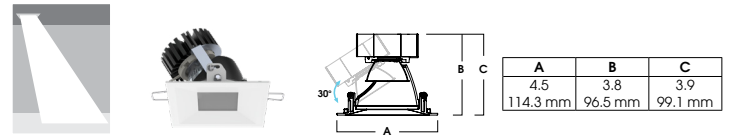
### DL - DOWNLIGHT MODULE



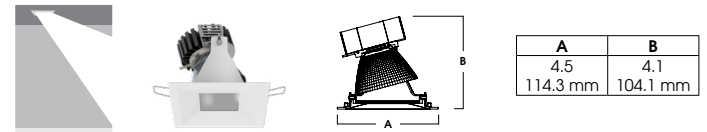
### PH - PINHOLE DOWNLIGHT MODULE



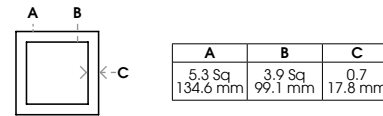
### AA - ADJUSTABLE MODULE (30°)



### WW - WALL WASH MODULE



### GRIF03S - 3" SQUARE GOOF RING



## 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". 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. Specify trim finish and flange finish.

### ELECTRONICS

LED module features high brightness Philips LEDs. 3-step MacAdam Ellipse binning and 80 and 90 CRI available. 0-10V or phase-cut dimming to 1% standard. Variety of 120V/277V drivers available. 2200K closely resembles candle light or high pressure sodium lamps.

### 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 DOWNLIGHT

IF03SSx IC 835 015 N11 DLSPGP MW

CANDLEPOWER CURVE TEST SP-00780_2_M-015L	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'	74 fc	2.5'	37 fc	9'	2'	184	2.63	136	2.17
	0.00° 2,247	0° - 20° 429 59%	6.5'	53 fc	2.9'	27 fc	12'	4'	46	0.65	44	0.71
	5.00° 1,930	0° - 30° 601 82%	7.5'	40 fc	3.4'	20 fc	16'	6'	23	0.32	22	0.35
	10.00° 1,376	0° - 40° 661 90%	8.5'	31 fc	3.9'	16 fc	Delivered Illuminance Rating: (DIR)		70 FC per W/Sq. Ft.		63 FC per W/Sq. Ft.	
	15.00° 941	0° - 60° 705 97%	10.0'	22 fc	4.5'	11 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 + Average Footcandles at 2.5' Above Floor					
	20.00° 610	0° - 80° 729 100%	12.0'	16 fc	5.4'	8 fc						
	30.00° 161	0° - 90° 730 100%	14.0'	11 fc	6.4'	6 fc						
	40.00° 27	Total 730 100%	16.0'	9 fc	7.3'	4 fc						
	50.00° 22											
	60.00° 25											
	70.00° 12											
80.00° 4												
90.00° 1												

Delivered Lumens: 730  
Luminaire Watts: 10.2  
LER: 71.57

CP at 0deg (Nadir): 2,247  
CRI: 80

Beam Angle: 25.31  
Spacing Ratio: 0.42

Lumen Multiplier: 07L x 0.40, 10L x 0.56  
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

IF03SSx IC 835 015 N11 DLNFGP MW

CANDLEPOWER CURVE TEST SP-00779_2_M-015L	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° 150 21%	5.5'	59 fc	3.1'	30 fc	9'	2'	150	2.18	134	2.17
	0.00° 1,799	0° - 20° 409 56%	6.5'	43 fc	3.7'	21 fc	12'	4'	45	0.65	44	0.71
	5.00° 1,664	0° - 30° 592 82%	7.5'	32 fc	4.3'	16 fc	16'	6'	17	0.25	14	0.22
	10.00° 1,331	0° - 40° 659 91%	8.5'	25 fc	4.8'	12 fc	Delivered Illuminance Rating: (DIR)		69 FC per W/Sq. Ft.		62 FC per W/Sq. Ft.	
	15.00° 950	0° - 60° 700 97%	10.0'	18 fc	5.7'	9 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 + Average Footcandles at 2.5' Above Floor					
	20.00° 636	0° - 80° 722 100%	12.0'	12 fc	6.8'	6 fc						
	30.00° 186	0° - 90° 724 100%	14.0'	9 fc	8.0'	5 fc						
	40.00° 35	Total 724 100%	16.0'	7 fc	9.1'	4 fc						
	50.00° 19											
	60.00° 17											
	70.00° 13											
80.00° 5												
90.00° 1												

Delivered Lumens: 724  
Luminaire Watts: 10.2  
LER: 70.98

CP at 0deg (Nadir): 1,799  
CRI: 80

Beam Angle: 31.46  
Spacing Ratio: 0.51

Lumen Multiplier: 07L x 0.40, 10L x 0.56  
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

IF03SSx IC 835 015 N11 DLFLGP MW

CANDLEPOWER CURVE TEST SP-00778_2_M-015L	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° 104 15%	5.5'	38 fc	4.1'	19 fc	9'	4'	35	0.54	31	0.54
	0.00° 1,154	0° - 20° 328 47%	6.5'	27 fc	4.9'	14 fc	12'	4'	43	0.65	26	0.45
	5.00° 1,112	0° - 30° 516 74%	7.5'	21 fc	5.6'	10 fc	16'	6'	16	0.25	13	0.22
	10.00° 990	0° - 40° 608 87%	8.5'	16 fc	6.3'	8 fc	Delivered Illuminance Rating: (DIR)		65 FC per W/Sq. Ft.		57 FC per W/Sq. Ft.	
	15.00° 811	0° - 60° 673 96%	10.0'	12 fc	7.5'	6 fc	Recessed Mounting Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00 + Average Footcandles at 2.5' Above Floor					
	20.00° 597	0° - 80° 698 100%	12.0'	8 fc	9.0'	4 fc						
	30.00° 233	0° - 90° 700 100%	14.0'	6 fc	10.4'	3 fc						
	40.00° 77	Total 700 100%	16.0'	5 fc	11.9'	2 fc						
	50.00° 33											
	60.00° 22											
	70.00° 15											
80.00° 5												
90.00° 1												

Delivered Lumens: 700  
Luminaire Watts: 10.2  
LER: 68.63

CP at 0deg (Nadir): 1,154  
CRI: 80

Beam Angle: 40.91  
Spacing Ratio: 0.65

Lumen Multiplier: 07L x 0.40, 10L x 0.56  
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03



# PHOTOMETRIC DATA - 3" SQUARE DOWNLIGHT

IF03SSx IC 835 015 N11 DLWFGP MW

CANDLEPOWER CURVE TEST SP-00781_2_M-015L	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°	70	10%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0.00°	734	0° - 10°	70	10%	5.5'	24 fc	5.5'	12 fc	9'	4'	43	0.62	37	0.62		
	5.00°	729	0° - 20°	251	36%	6.5'	17 fc	6.5'	9 fc	12'	6'	20	0.29	17	0.29		
	10.00°	706	0° - 30°	447	63%	7.5'	13 fc	7.5'	6 fc	16'	8'	10	0.14	9	0.14		
	15.00°	649	0° - 40°	576	82%	8.5'	10 fc	8.5'	5 fc	Delivered Illuminance Rating: (DIR)		69 FC per W/Sq. Ft.		60 FC per W/Sq. Ft.			
	20.00°	545	0° - 60°	681	97%	10.0'	7 fc	10.0'	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°	287	0° - 80°	704	100%	12.0'	5 fc	12.0'	3 fc								
	40.00°	131	0° - 90°	706	100%	14.0'	4 fc	14.0'	2 fc								
	50.00°	59	Total	706	100%	16.0'	3 fc	16.0'	1 fc								
	60.00°	25															
	70.00°	11															
	80.00°	3															
	90.00°	1															

Delivered Lumens: **706**  
Luminaire Watts: **10.2**  
LER: **69.22**

CP at 0deg (Nadir): **734**  
CRI: **80**

Beam Angle: **53.33**  
Spacing Ratio: **0.84**

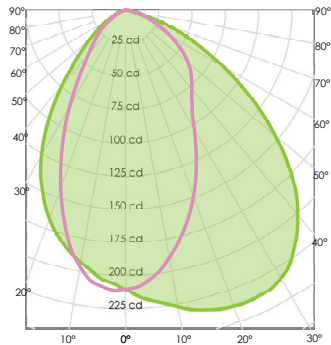
Lumen Multiplier: **07L x 0.40, 10L x 0.56**  
CCT Multiplier: **27K x 0.95, 30K x 0.98, 40K x 1.03**



# PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SSx xx PC 835 015 WW WF LW MW

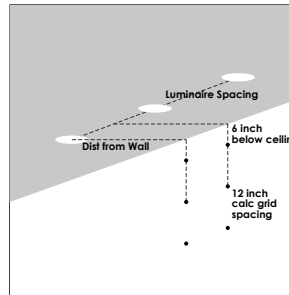
## CANDLEPOWER CURVE TEST SP-00898\_M-015L



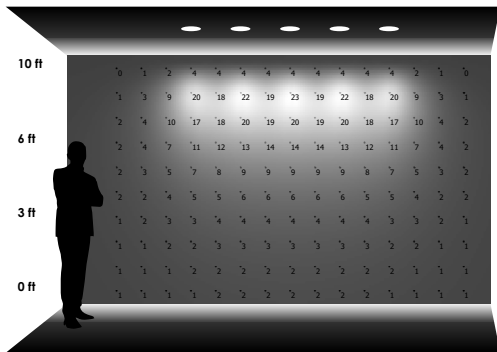
## PERFORMANCE SUMMARY

Delivered Lumens: 352  
 Luminaire Watts: 10.2  
 LER: 34.51  
 CP at 0deg (Nadir): 211  
 CRI: 80+  
 Lumen Multiplier: 07L x 0.4, 10L x 0.56  
 CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

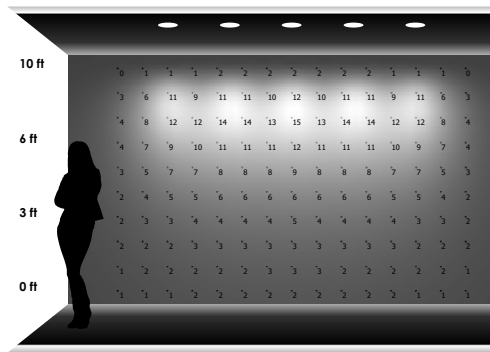
## REFERENCE DIAGRAM



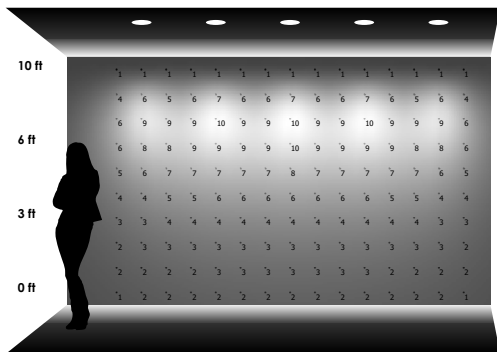
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



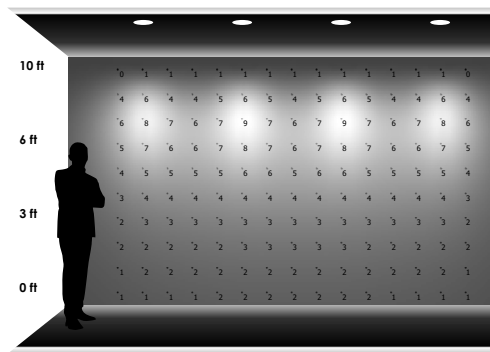
**5 LUMINAIRES**  
 2' away from wall  
 2' between luminaires



**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

