



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

### 3" SQUARE FLANGELESS

SUPER SHALLOW IC NEW CONSTRUCTION

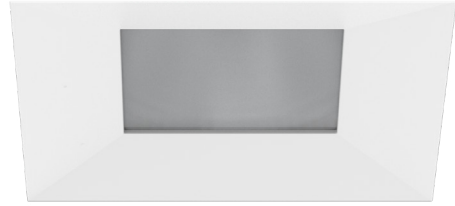
### DIM TO WARM

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
IF03SSN 007	27K-16K	353	7.3	48
IF03SSN 010	28K-16K	456	9.3	49
IF03SSN 015	30K-16K	744	15.2	49

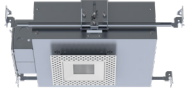
<sup>1</sup> Nominal Delivered Lumens at DD1 015 DL FL GP MW

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



#### AVAILABLE HOUSING TYPE

IF03SSN IC - IC New Construction



HOUSING						HOUSING OPTIONS						
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY		
IF03SSN	IC	IC New Construction	DW	DIM TO WARM		PR 1.25" Ceiling Extension	D1 1%, 0-10V	1 120V 2 277V	IC	ER 7W Remote Battery		
				DD1	30-16K Dim to Warm						007 353 Lm 010 456 Lm 015 744 Lm	B1 Expandable Bar Hangers
					Nominal Delivered Lumens at DD1 015 DL FL GP MW						D3 1%, ELV/MLV Phase-Cut (120V)	

#### AVAILABLE TRIM / MODULE TYPES

DL - DOWNLIGHT      WW - WALL WASH



TRIM OPTIONS					SEPARATE	
TRIM TYPE	BEAM <sup>1</sup>	LENS	FINISH	OPTION	ADDITIONAL ACCESSORIES	
DL Downlight	SP Spot (21°)	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 (28°)	GP Solite™ Micro Prism Lens	MB Matte Black		B2 27" Solid Bar Hangers	B4 24" C-Channel Bar Hangers
	FL Flood (38°)	GC Clear Glass Lens	PT Platinum Silver			
	WF Wide Flood (54°)		CC Custom Color			
WW Wall Wash	WF Wide Flood	LW Wall Wash Lens				

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

EXAMPLE: IF03SSNICDWD1007/D12B1/DLNF GCMWWL

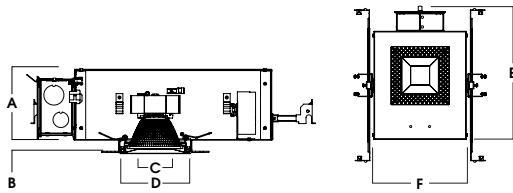
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



## HOUSING DIMENSIONS

### IF03SSN IC - SUPER SHALLOW IC NEW CONSTRUCTION

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



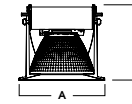
A	B	C	D	E	F
4.0	.625	2.0	3.8	13.2	9.5
101.6 mm	15.9 mm	50.8 mm	96.5 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

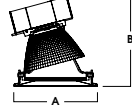
## TRIM / MODULE DATA

### DL - DOWNLIGHT MODULE



A	B
3.8	3.5
96.5 mm	88.9 mm

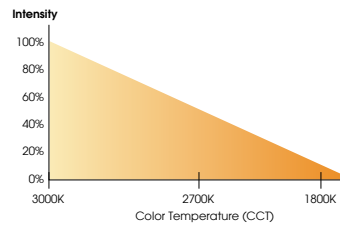
### WW - WALL WASH MODULE



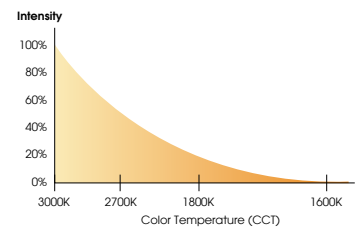
A	B
3.8	4.1
96.5 mm	104.1 mm

## 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 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" 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.					
	20.00° 546	0° - 80°	695	100%	12.0'	21 fc	4.5'	10 fc	39 FC per W/Sq. Ft.					
	30.00° 107	0° - 90°	697	100%	14.0'	15 fc	5.2'	7 fc	Recessed Mounting					
	40.00° 26	Total	697	100%	16.0'	12 fc	6.0'	5 fc	Square rooms used for multiple units:					
	50.00° 18								- RCR 4: Length & Width = Ceiling Ht. -2.5' x 2.50					
	60.00° 15								- RCR 6: Length & Width = Ceiling Ht. -2.5' x 1.66					
	70.00° 12								+ Average Footcandles at 2.5' Above Floor					
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.					
	20.00° 608	0° - 80°	724	100%	12.0'	15 fc	5.9'	7 fc	42 FC per W/Sq. Ft.					
	30.00° 121	0° - 90°	726	100%	14.0'	11 fc	6.9'	5 fc	Recessed Mounting					
	40.00° 33	Total	726	100%	16.0'	9 fc	7.9'	4 fc	Square rooms used for multiple units:					
	50.00° 18								- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33					
	60.00° 14								- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00					
	70.00° 11								+ Average Footcandles at 2.5' Above Floor					
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.					
	20.00° 710	0° - 80°	742	100%	12.0'	11 fc	8.3'	5 fc	43 FC per W/Sq. Ft.					
	30.00° 158	0° - 90°	744	100%	14.0'	8 fc	9.6'	3 fc	Recessed Mounting					
	40.00° 38	Total	744	100%	16.0'	6 fc	11.0'	3 fc	Square rooms used for multiple units:					
	50.00° 21								- RCR 3: Length & Width = Ceiling Ht. -2.5' x 3.33					
	60.00° 14								- RCR 5: Length & Width = Ceiling Ht. -2.5' x 2.00					
	70.00° 11								+ Average Footcandles at 2.5' Above Floor					
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

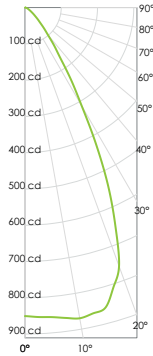
Lumen Multiplier: 7L x 0.38, 10L x 0.49  
CCT Multiplier: N/A, dim to warm emitter



# 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						
		0° - 10°	83	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° 850				5.5'	28 fc	5.6'	10 fc	9'	4'	50	0.92	43	0.92
	5.00° 857	0° - 20° 321	40%		6.5'	20 fc	6.7'	7 fc	12'	6'	23	0.43	20	0.43
	10.00° 870	0° - 30° 588	73%		7.5'	15 fc	7.7'	5 fc	16'	10'	9	0.16	6	0.12
	15.00° 857	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.	
	20.00° 759	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					
	30.00° 313	0° - 80° 803	100%		12.0'	6 fc	12.3'	2 fc						
	40.00° 99	0° - 90° 805	100%		14.0'	4 fc	14.4'	2 fc						
	50.00° 37	Total	805	100%	16.0'	3 fc	16.4'	1 fc						
	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**

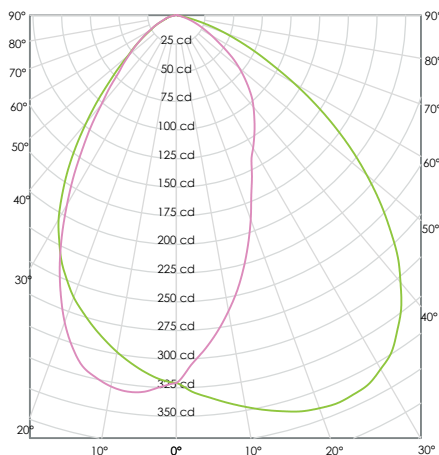
Lumen Multiplier: **7L x 0.38, 10L x 0.49**  
CCT Multiplier: **N/A, dim to warm emitter**



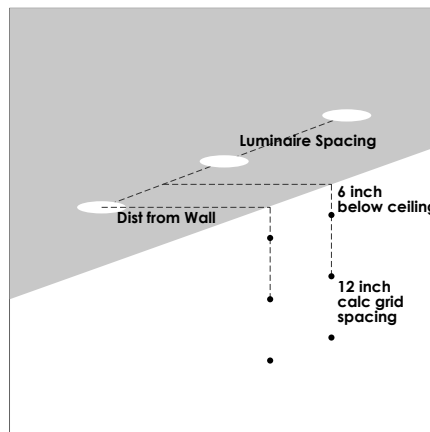
# PHOTOMETRIC DATA - 3" SQUARE SHALLOW WALL WASH

IF03SMx IC DWDD1015 WWWFLWMW

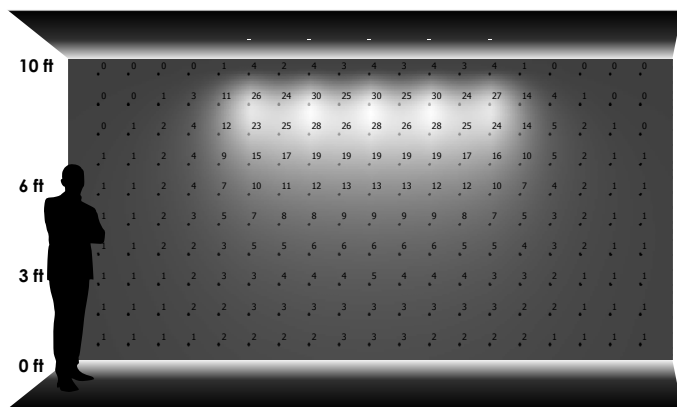
CANDLEPOWER CURVE TEST SP-00955_M-15L	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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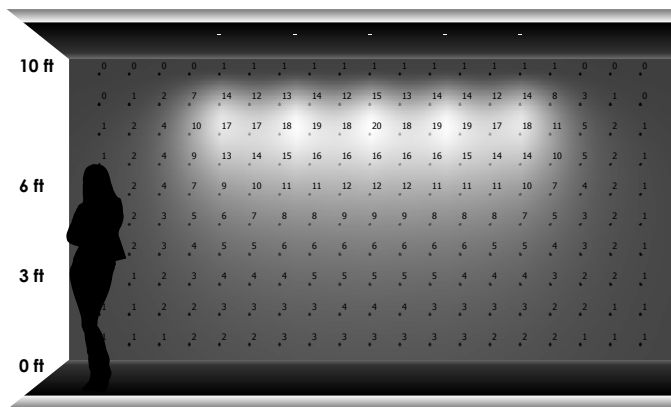
Delivered Lumens: 541  
 Luminaire Watts: 15.2  
 LER: 35.59  
 CP at 0deg (Nadir): 321  
 CRI: 95  
 Lumen Multiplier: 7L x 0.38, 10L x 0.49  
 CCT Multiplier: N/A, dim to warm emitter



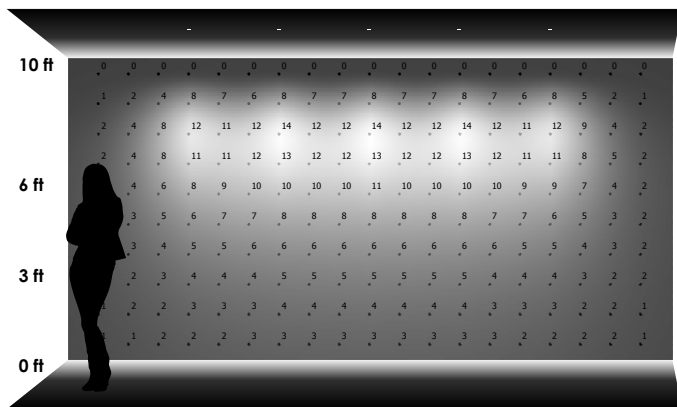
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



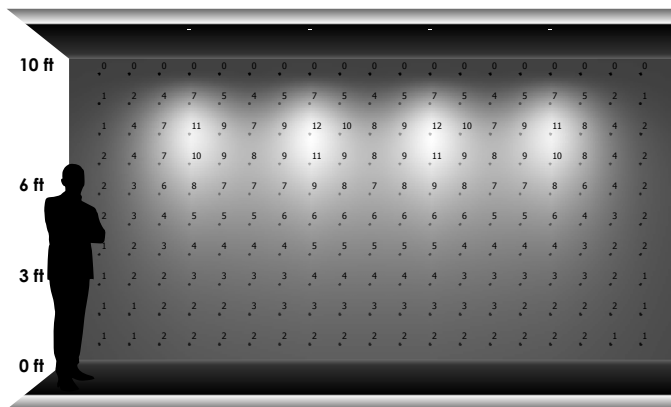
**5 LUMINAIRES**  
 2' away from wall  
 2' between luminaires



**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

