

PROJECT: _____
 TYPE: _____



3" SQUARE FLANGELESS 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.

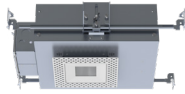
NOMINAL LUMENS / WATTAGE DATA				
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
IF03SSN 007	N/A	359	5	66
IF03SSN 010	RDF03OC 10L	503	7	69
IF03SSN 015	N/A	700	10	69

¹ Nominal Delivered Lumens at 835 DL FL GP MW



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	PC	90 Minimum	PR 1.25" Ceiling Extension	N1 Non-Dimming Electronic Driver	D1 1%, 0-10V	D3 1%, ELV/MLV Phase-Cut (120V)	1 120V	2 277V	B1 Expandable Bar Hangers	ER 7W Remote Battery
				922 2200K								
				927 2700K	015 700 Lm							
				930 3000K								
				80 Minimum	Nominal Delivered Lumens at 835 DL FL GP MW							
				827 2700K								
				830 3000K								
				835 3500K								
				840 4000K								

AVAILABLE TRIM / MODULE TYPES

DL - DOWNLIGHT WW - WALL WASH



TRIM OPTIONS						SEPARATE ADDITIONAL ACCESSORIES		
TRIM TYPE	BEAM ¹	LENS		FINISH	OPTION	BAR HANGERS		
DL	Downlight	SP	Spot (25°)	GN	No Lens Not Available in Wet Location	MW	Matte White	B2 27" Solid Bar Hangers B4 24" C-Channel Bar Hangers
		NF	Narrow Flood (31°)	GP	Solite™ Micro Prism Lens	MB	Matte Black	
		FL	Flood (41°)	GC	Clear Glass Lens	PT	Platinum Silver	
		WF	Wide Flood (53°)			CC	Custom Color	
WW	Wall Wash	WF	Wide Flood	LW	Wall Wash Lens			

¹ Nominal Beam Angles Shown

EXAMPLE: IF03SSNICPC927007/D12B1/DLNFGPWWL

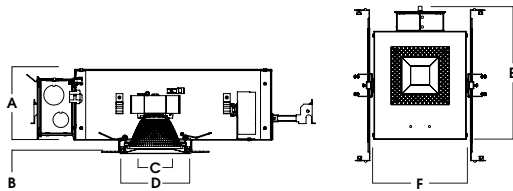
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



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.



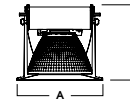
A	B	C	D	E	F
4.0	.625	2.0	3.8	13.2	9.5
101.6 mm	15.9 mm	50.8 mm	96.5 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

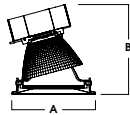
TRIM / MODULE DATA

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

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". 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.

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. 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 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**

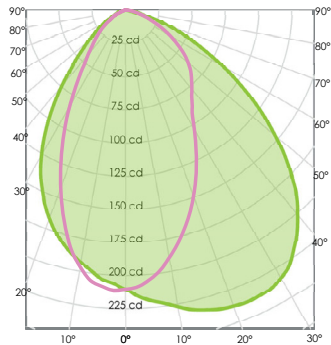
Lumen Multiplier: **07L x 0.40, 10L x 0.56**
CCT Multiplier: **27K x 0.95, 30K x 0.98, 40K x 1.03**



PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SSx xx PC 835 015 WW WF LW MW

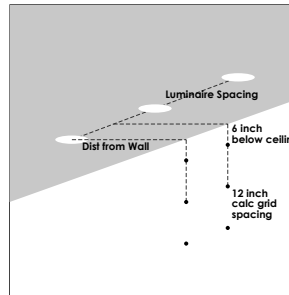
CANDLEPOWER CURVE TEST SP-00898_M-015L



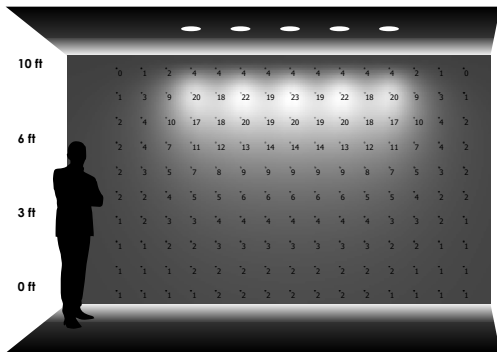
PERFORMANCE SUMMARY

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

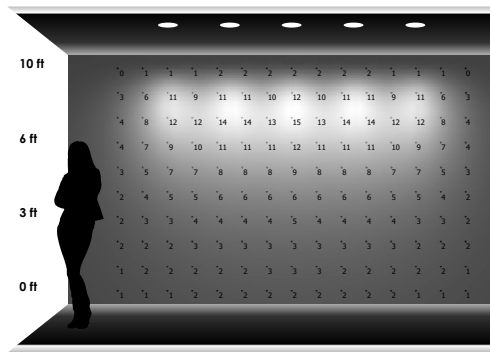
REFERENCE DIAGRAM



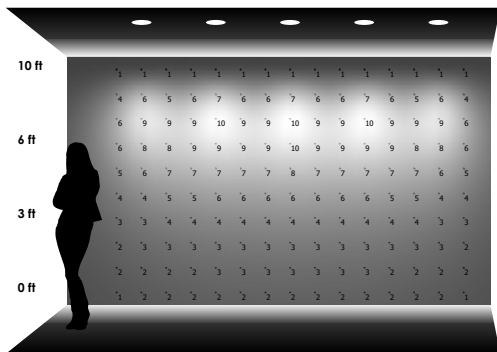
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



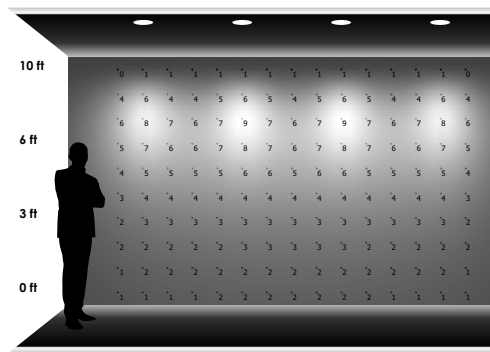
5 LUMINAIRES
 2' away from wall
 2' between luminaires



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

