

PROJECT: _____
 TYPE: _____



3" SQUARE FLANGELESS

NON-IC & IC NEW CONSTRUCTION / REMODEL

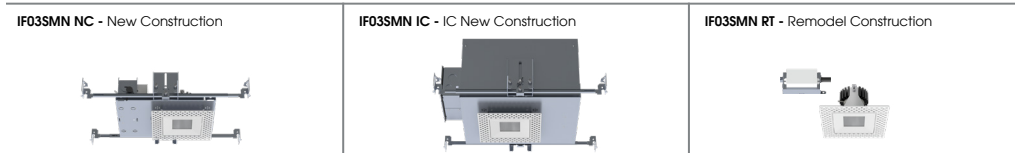
Spectrum's Infinium 3" recessed square downlight series features a shallow plenum housing and variety of trims for accent and general illumination.



NOMINAL LUMENS / WATTAGE DATA				
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
IF03SMN 007	N/A	359	7	49
IF03SMN 010	SDZ03OC 10L	503	9	54
IF03SMN 015	N/A	700	12	57
IF03SMN 020	SDZ03OC 20L	898	15	60

¹ Nominal Delivered Lumens at 835 DL FL GP MW

AVAILABLE HOUSING TYPES



HOUSING						HOUSING OPTIONS						
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY		
IF03SMN	NC	New Construction	PC	90 Minimum	PR 1.25" Ceiling Extension	N1 Non-Dimming Electronic Driver	D1 1% 0-10V	1 120V	2 277V	NC/IC		EI 7W Integral Battery Not Available in IC New Construction
	IC	IC New Construction		922 2200K						010 359 Lm	B1 Expandable Bar Hangers	
	IC	IC New Construction		927 2700K						015 700 Lm		
	RT	Remodel Construction		930 3000K						020 898 Lm	B0 No Bar Hangers	
RT	Remodel Construction	80 Minimum	Nominal Delivered Lumens at 835 DL FL GP MW	ER 7W Remote Battery Available in All Types								
		827 2700K										
		830 3000K										
		835 3500K										
		840 4000K										

AVAILABLE TRIM / MODULE TYPES



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	WL	Wet Location Requires GP or GC Lens				
		NF	Narrow Flood (31°)							GP	Solite™ Micro Prism Lens	MB	Matte Black
		FL	Flood (41°)										
		WF	Wide Flood (53°)							CC	Custom Color		
WW	Wall Wash	WF	Wide Flood	LW	Wall Wash Lens	B2	27" Solid Bar Hangers						
						B4	24" C-Channel Bar Hangers						

¹ Nominal Beam Angles Shown

EXAMPLE: IF03SMNNCPC927010/N11BH27/DLFLGPMW

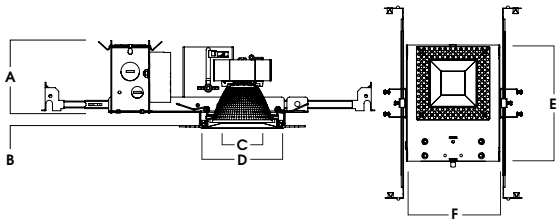
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

IF03SMN NC - NEW CONSTRUCTION

Non-IC rated, thermally protected frame-in kit for new construction. Non-IC designation requires insulation must be minimum of 3" from housing.



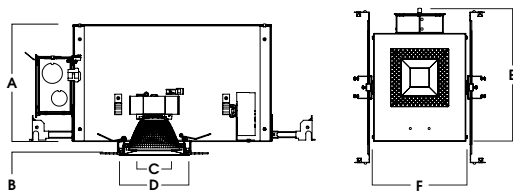
A	B	C	D	E	F
3.4 86.4 mm	.625 15.9 mm	2.0 50.8 mm	3.8 96.5 mm	9.5 241.3 mm	7.6 193.0 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMN IC - IC NEW CONSTRUCTION

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



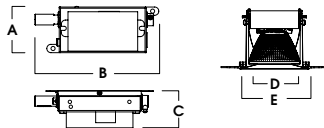
A	B	C	D	E	F
6.5 165.1 mm	.625 15.9 mm	2.0 50.8 mm	3.8 96.5 mm	13.2 335.3 mm	9.5 241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMN RT - REMODEL CONSTRUCTION

Non-IC rated frame-in kit for existing construction. Non-IC designation requires insulation must be minimum of 3" from housing.



A	B	C	D	E
2.8 71.1 mm	7.5 190.5 mm	2.3 58.4 mm	2.0 50.8 mm	3.8 96.5 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" Sq

FEATURES

APPLICATION

Versatile shallow plenum 3" square recessed LED luminaire features downlight and wall wash flangeless trim options with new construction, insulated ceiling and retrofit housings.

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 1.75" for Non-IC housing and 2.325" for IC housings. 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

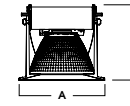
Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Flangeless one piece die-cast aluminum trim is finished to specification. Passive machined aluminum heatsink.

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.

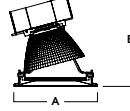
TRIM / MODULE DATA

DL - DOWNLIGHT MODULE



A	B
3.8 96.5 mm	3.5 88.9 mm

WW - WALL WASH MODULE



A	B
3.8 96.5 mm	4.1 104.1 mm

PHOTOMETRIC DATA - 3" SQUARE DOWNLIGHT

IF03SMx xx 835 020 DLSPGP MW

CANDLEPOWER CURVE TEST SP-00764_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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°	0° - 10°	221	24%	8'	45 fc	3.6'	21 fc	18'	4'	46	0.81	42	0.82
	0°	0° - 20°	550	59%	10'	29 fc	4.5'	13 fc	22'	6'	23	0.40	18	0.36
	5°	0° - 30°	770	82%	12'	20 fc	5.4'	9 fc	26'	8'	12	0.21	13	0.25
	15°	0° - 40°	847	90%	14'	15 fc	6.4'	7 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60°	904	97%	16'	11 fc	7.3'	5 fc	57 FC per W/Sq. Ft. 52 FC per W/Sq. Ft.					
	35°	0° - 80°	934	100%	20'	7 fc	9.1'	3 fc	Recessed mounting Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 2.5' x 1.66 * Average Footcandles at 2.5' Above Floor					
	45°	0° - 90°	936	100%	24'	5 fc	10.9'	2 fc						
	55°				28'	4 fc	12.7'	2 fc						
	90°	Total	936	100%										

Delivered Lumens: 936
Luminaire Watts: 15
LER: 62.40

CP at 0° (Nadir): 2881
CRI: 80

Beam Angle: 25°
Spacing Ratio: 0.42

Lumen Multiplier: 07L x 0.40, 10L x 0.56, 15L x 0.78
CCT Multiplier: 40K x 1.03

IF03SMxxx835020/DLNFPGMWMF

CANDLEPOWER CURVE TEST SP-00763_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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°	0° - 10°	192	21%	8'	36 fc	4.5'	16 fc	14'	6"	22	0.37	24	0.45
	0°	0° - 20°	524	56%	10'	23 fc	5.7'	10 fc	18'	8"	12	0.20	13	0.25
	5°	0° - 30°	758	82%	12'	16 fc	6.8'	7 fc	22'	10"	8	0.13	8	0.16
	15°	0° - 40°	844	91%	14'	12 fc	8.0'	5 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60°	897	97%	16'	9 fc	9.1'	4 fc	59 FC per W/Sq. Ft. 53 FC per W/Sq. Ft.					
	35°	0° - 80°	926	100%	20'	6 fc	11.4'	3 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 ** Exceeds Spacing Ratio by 2% *** Exceeds Spacing Ratio by 1%					
	45°	0° - 90°	928	100%	24'	4 fc	13.6'	2 fc						
	55°				28'	3 fc	15.9'	1 fc						
	90°	Total	928	100%										

Delivered Lumens: 928
Luminaire Watts: 15
LER: 61.87

CP at 0° (Nadir): 2306
CRI: 80

Beam Angle: 31°
Spacing Ratio: 0.51

Lumen Multiplier: 07L x 0.40, 10L x 0.56, 15L x 0.78
CCT Multiplier: 40K x 1.03

IF03SMx xx 835 020 DLFLGP MW

CANDLEPOWER CURVE TEST SP-00762_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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°	0° - 10°	133	15%	8'	23 fc	6.0'	10 fc	14'	6'	21	0.37	22	0.45
	0°	0° - 20°	420	47%	10'	15 fc	7.5'	6 fc	18'	8'	11	0.20	12	0.25
	5°	0° - 30°	661	74%	12'	10 fc	9.0'	4 fc	22'	10'	7	0.13	8	0.16
	15°	0° - 40°	779	87%	14'	8 fc	10.4'	3 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60°	862	96%	16'	6 fc	11.9'	2 fc	56 FC per W/Sq. Ft. 50 FC per W/Sq. Ft.					
	35°	0° - 80°	895	100%	20'	4 fc	14.9'	2 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					
	45°	0° - 90°	898	100%	24'	3 fc	17.9'	1 fc						
	55°				28'	2 fc	20.9'	1 fc						
	90°	Total	898	100%										

Delivered Lumens: 898
Luminaire Watts: 15
LER: 59.87

CP at 0° (Nadir): 1480
CRI: 80

Beam Angle: 41°
Spacing Ratio: 0.65

Lumen Multiplier: 07L x 0.40, 10L x 0.56, 15L x 0.78
CCT Multiplier: 40K x 1.03



PHOTOMETRIC DATA - 3" SQUARE DOWNLIGHT

IF03SMx xx 835 020 DLWFGP MW

CANDLEPOWER CURVE TEST SP-00765_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS		SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
		0°	0° - 10°	90	10%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	942	0° - 10°	90	10%	8'	15 fc	8.0'	5 fc	10'	6'	23	0.38	20	0.38
	5°	934	0° - 20°	322	36%	10'	9 fc	10.0'	3 fc	14'	8'	13	0.22	8	0.16
	15°	832	0° - 30°	573	63%	12'	7 fc	12.0'	2 fc	18'	10'	10	0.16	8	0.16
	25°	528	0° - 40°	738	82%	14'	5 fc	14.0'	2 fc	Delivered Illuminance Rating: (DIR)		60 FC per W/Sq. Ft.		51 FC per W/Sq. Ft.	
	35°	247	0° - 60°	873	97%	16'	4 fc	16.0'	1 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					
	45°	113	0° - 80°	903	100%	20'	2 fc	20.0'	1 fc						
	55°	50	0° - 90°	905	100%	24'	2 fc	24.1'	1 fc						
	90°	1	Total	905	100%	28'	1 fc	28.1'	0 fc						

Delivered Lumens: 905
Luminaire Watts: 15
LER: 60.33

CP at 0° (Nadir): 942
CR: 80

Beam Angle: 53°
Spacing Ratio: 0.84

Lumen Multiplier: 07L x 0.40, 10L x 0.56, 15L x 0.78
CCT Multiplier: 40K x 1.03

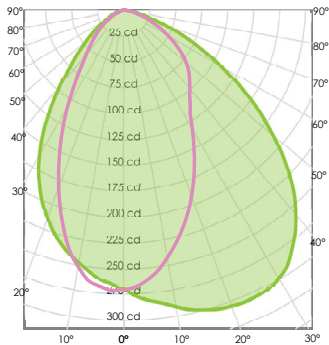
See Page 1 for System Watts for all outputs



PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SMx xx PC 835 020 WW WF LW MW

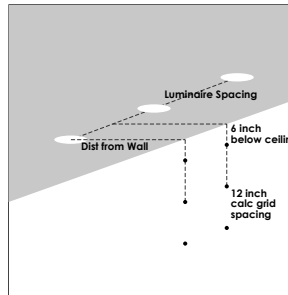
CANDLEPOWER CURVE TEST SP-00850



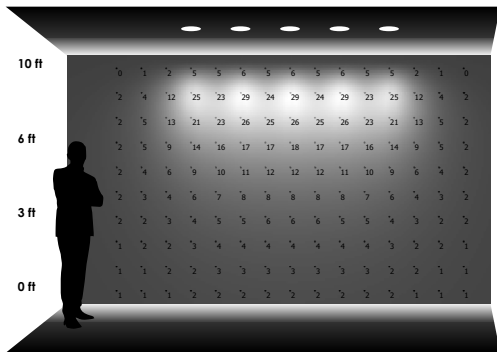
PERFORMANCE SUMMARY

Delivered Lumens: 452
 Luminaire Watts: 15
 LER: 30.13
 CP at 0deg (Nadir): 270
 CRI: 80+
 Lumen Multiplier: 07L x 0.40, 10L x 0.56, 15L x 0.78
 CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

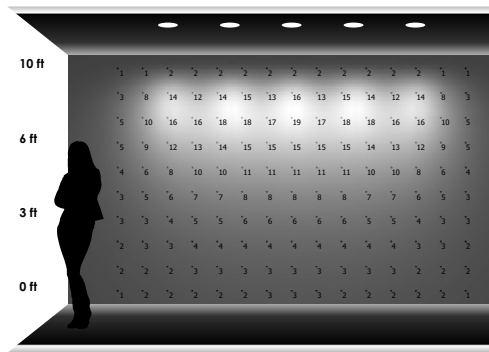
REFERENCE DIAGRAM



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



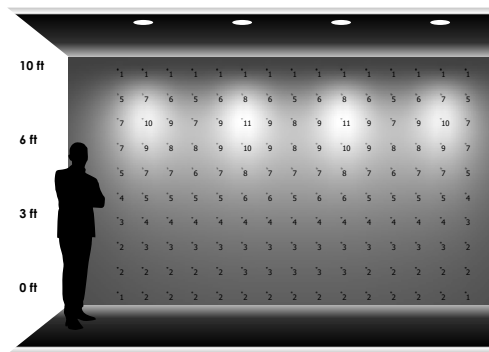
5 LUMINAIRES
 2' away from wall
 2' between luminaires



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

