

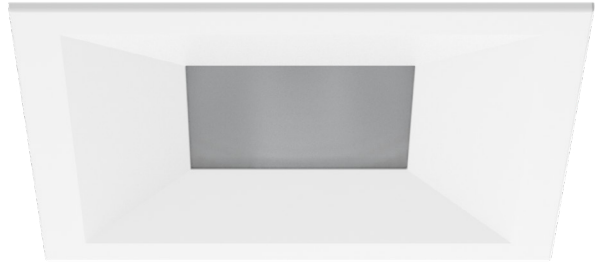
PROJECT: _____
 TYPE: _____



3" SQUARE FLANGED

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
IF03SMF 030	SDF03OC 30L	1347	20.4	66

¹ Nominal Delivered Lumens at 835 DL FL GP MW

AVAILABLE HOUSING TYPES

IF03SMF NC - New Construction 	IF03SMF IC - IC New Construction 	IF03SMF RT - Remodel Construction 
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HOUSING						HOUSING OPTIONS										
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY						
IF03SMF	NC	New Construction	PC	90 Minimum	PR 1.25" Ceiling Extension	030	1347 Lm	N1 Non-Dimming Electronic Driver 1%, 0-10V	1 120V	2 277V	EI 7W Integral Battery Not Available in IC New Construction					
	IC	IC New Construction		927 2700K								Nominal Delivered Lumens at 835 DL FL GP MW	D3 1%, ELV/MLV Phase-Cut (120V)	1 120V	B1 Expandable Bar Hangers	ER 7W Remote Battery Available in All Types
	RT	Remodel Construction		930 3000K												
		827 2700K														
			830 3000K													
			835 3500K													
			840 4000K													

AVAILABLE TRIM / MODULE TYPES



TRIM OPTIONS							
TRIM TYPE	BEAM ¹	LENS	FINISH	FLANGE FINISH	OPTION		
DL	Downlight	SP Spot (25°)	GN No Lens Not Available in Wet Location	MW Matte White MB Matte Black PT Platinum Silver CC Custom Color	MF Matching Flange WF White Flange For Use with Non-White Trim Finish		
PH	Pinhole Downlight	NF Narrow Flood (31°) FL Flood (41°) WF Wide Flood (53°)				GP Solite™ Micro Prism Lens	WL Wet Location Requires GP or GC Lens
AA	Adjustable Accent	NF Narrow Flood (32°) FL Flood (38°) WF Wide Flood (42°)				GC Clear Glass Lens	
WW	Wall Wash	WF Wide Flood	LW Wall Wash Lens				

¹ Nominal Beam Angles Shown

SEPARATE ADDITIONAL ACCESSORIES	
ORDER SEPARATELY	
GOOF RING	
GRIF03S	MW Matte White MB Matte Black PT Platinum Silver CC Custom Color
BAR HANGERS	
B2	27" Solid Bar Hangers
B4	24" C-Channel Bar Hangers

EXAMPLE: IF03SMFNCPC927030/D12B1/DLNFGPMWFWL

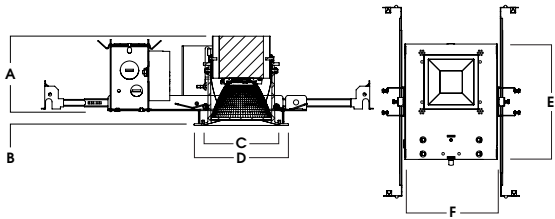
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

IF03SMF 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.



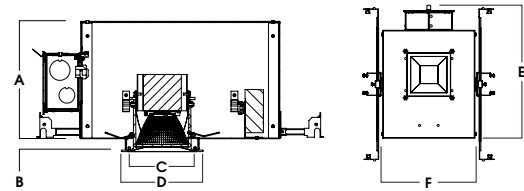
A	B	C	D	E	F
4.5	.625	3.8	4.5	9.5	7.6
114.3 mm	15.9 mm	96.5 mm	114.3 mm	241.3 mm	193.0 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMF IC - IC NEW CONSTRUCTION

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



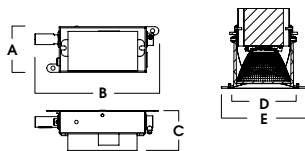
A	B	C	D	E	F
6.5	.625	3.8	4.5	13.2	9.5
165.1 mm	15.9 mm	96.5 mm	114.3 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

IF03SMF RT - REMODEL CONSTRUCTION

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



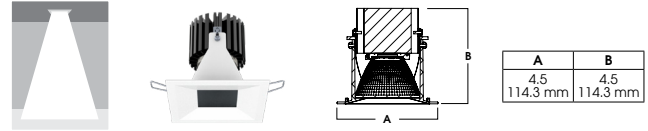
A	B	C	D	E
2.8	7.5	2.4	3.8	4.5
71.1 mm	190.5 mm	61.0 mm	96.5 mm	114.3 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" Sq

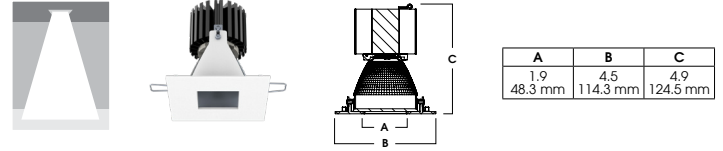
TRIM / MODULE DATA

DL - DOWNLIGHT MODULE



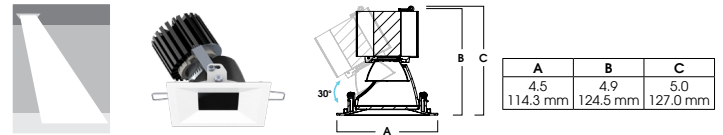
A	B
4.5	4.5
114.3 mm	114.3 mm

PH - PINHOLE DOWNLIGHT MODULE



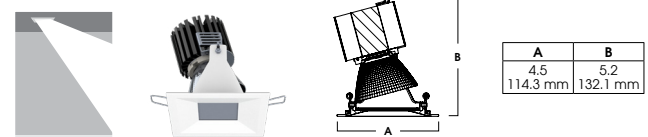
A	B	C
1.9	4.5	4.9
48.3 mm	114.3 mm	124.5 mm

AA - ADJUSTABLE MODULE (30°)



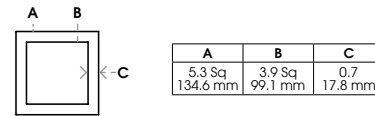
A	B	C
4.5	4.9	5.0
114.3 mm	124.5 mm	127.0 mm

WW - WALL WASH MODULE



A	B
4.5	5.2
114.3 mm	132.1 mm

GRIF03S - 3" SQUARE GOOF RING



A	B	C
5.3 Sq	3.9 Sq	0.7
134.6 mm	99.1 mm	17.8 mm

FEATURES

APPLICATIONS

Versatile shallow plenum 3" square recessed LED luminaire features downlight, adjustable accent, wall wash and pinhole downlight 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. 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.

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

IF03SMx xx PC 835 030 DLSPGP MW

CANDLEPOWER CURVE TEST SP-00764_2_M-30L	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°	331	24%	10'	43 fc	4.5'	20 fc	18'	4'	69	1.10	63	1.11		
	0°	0° - 20°	824	59%	12'	30 fc	5.4'	14 fc	22'	6'	34	0.55	28	0.49		
	5°	0° - 30°	1155	82%	14'	22 fc	6.4'	10 fc	26'	8'	18	0.29	19	0.34		
	15°	0° - 40°	1270	90%	16'	17 fc	7.3'	8 fc	Delivered Illuminance Rating: (DIR)		63 FC per W/Sq. Ft.		57 FC per W/Sq. Ft.			
	25°	0° - 60°	1356	97%	20'	11 fc	9.1'	5 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							
	35°	0° - 80°	1401	100%	24'	8 fc	10.9'	3 fc								
	45°	0° - 90°	1404	100%	28'	6 fc	12.7'	3 fc								
	55°				32'	4 fc	14.5'	2 fc								
	90°	Total	1405	100%												

Delivered Lumens: 1405
Luminaire Watts: 20.4
LER: 68.87

CP at 0° (Nadir): 4322
CRI: 80

Beam Angle: 25°
Spacing Ratio: 0.42

Lumen Multiplier: N/A, 30L only
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
27HK x 0.87, 30HK x 0.81

IF03SMx xx PC 835 030 DLNFGP MW

CANDLEPOWER CURVE TEST SP-00763_2_M-30L	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°	288	21%	8'	54 fc	4.5'	24 fc	14'	6'	33	0.50	36	0.62		
	0°	0° - 20°	787	56%	10'	35 fc	5.7'	15 fc	18'	8''	18	0.28	20	0.34		
	5°	0° - 30°	1138	82%	12'	24 fc	6.8'	11 fc	22'	10'''	11	0.17	13	0.21		
	15°	0° - 40°	1266	91%	14'	18 fc	8.0'	8 fc	Delivered Illuminance Rating: (DIR)		65 FC per W/Sq. Ft.		59 FC per W/Sq. Ft.			
	25°	0° - 60°	1345	97%	16'	14 fc	9.1'	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 * Exceeds Spacing Ratio by 2% ** Exceeds Spacing Ratio by 1% *** Exceeds Spacing Ratio by 1%							
	35°	0° - 80°	1389	100%	20'	9 fc	11.4'	4 fc								
	45°	0° - 90°	1393	100%	24'	6 fc	13.6'	3 fc								
	55°				28'	4 fc	15.9'	2 fc								
	90°	Total	1393	100%												

Delivered Lumens: 1393
Luminaire Watts: 20.4
LER: 68.28

CP at 0° (Nadir): 3460
CRI: 80

Beam Angle: 31°
Spacing Ratio: 0.51

Lumen Multiplier: N/A, 30L only
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
27HK x 0.87, 30HK x 0.81

IF03SMx xx PC 835 030 DLFLGP MW

CANDLEPOWER CURVE TEST SP-00762_2_M-30L	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°	200	15%	8'	35 fc	6.0'	14 fc	14'	6'	31	0.50	34	0.62		
	0°	0° - 20°	630	47%	10'	22 fc	7.5'	9 fc	18'	8'	17	0.28	19	0.34		
	5°	0° - 30°	992	74%	12'	15 fc	9.0'	6 fc	22'	10'	11	0.17	12	0.21		
	15°	0° - 40°	1169	87%	14'	11 fc	10.4'	5 fc	Delivered Illuminance Rating: (DIR)		62 FC per W/Sq. Ft.		55 FC per W/Sq. Ft.			
	25°	0° - 60°	1294	96%	16'	9 fc	11.9'	4 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							
	35°	0° - 80°	1343	100%	20'	6 fc	14.9'	2 fc								
	45°	0° - 90°	1346	100%	24'	4 fc	17.9'	2 fc								
	55°				28'	3 fc	20.9'	1 fc								
	90°	Total	1347	100%												

Delivered Lumens: 1347
Luminaire Watts: 20.4
LER: 66.03

CP at 0° (Nadir): 2220
CRI: 80

Beam Angle: 41°
Spacing Ratio: 0.65

Lumen Multiplier: N/A, 30L only
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
27HK x 0.87, 30HK x 0.81



PHOTOMETRIC DATA - 3" SQUARE DOWNLIGHT

CANDLEPOWER CURVE TEST SP-00765_2_M-30L		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° 135 10%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	1412	0° - 20° 483 36%	8'	22 fc	8.0'	8 fc			FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5°	1402	0° - 30° 860 63%	10'	14 fc	10.0'	5 fc	10'	6'	34	0.52	29	0.52
	15°	1249	0° - 40° 1108 82%	12'	10 fc	12.0'	4 fc	14'	8'	20	0.30	13	0.22
	25°	792	0° - 60° 1310 97%	14'	7 fc	14.0'	3 fc	18'	10'	14	0.22	12	0.22
	35°	370	0° - 80° 1354 100%	20'	4 fc	20.0'	1 fc	Delivered Illuminance Rating: (DIR)				66 FC per W/Sq. Ft.	56 FC per W/Sq. Ft.
	45°	169	0° - 90° 1357 100%	24'	2 fc	24.1'	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					
	55°	74	Total 1357 100%	28'	2 fc	28.1'	1 fc						
	90°	2											

Delivered Lumens: 1357
Luminaire Watts: 20.4
LER: 66.52

CP at 0° (Nadir): 1412
CRI: 80

Beam Angle: 53°
Spacing Ratio: 0.84

Lumen Multiplier: N/A, 30L only
CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
27HK x 0.87, 30HK x 0.81

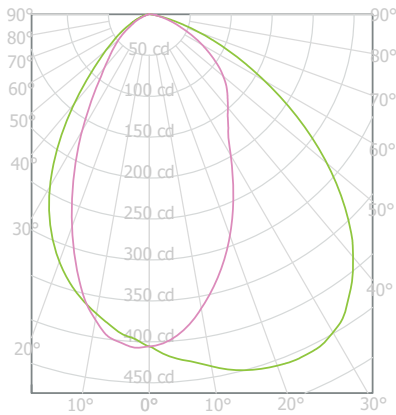
See Page 1 for System Watts for all outputs



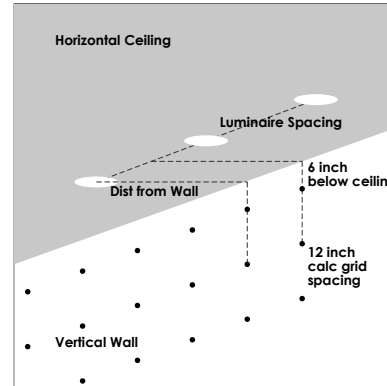
PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SMx xx PC 835 030 WW WF LW MW

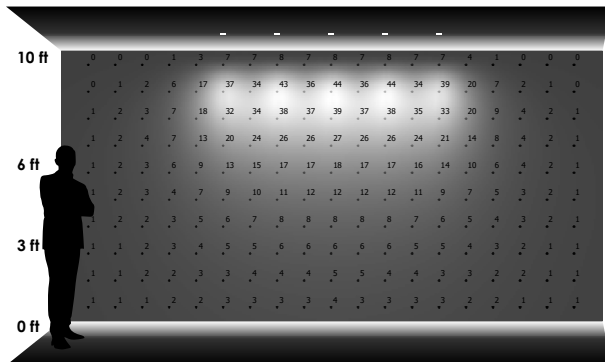
CANDLEPOWER CURVE TEST SP-00850_M-30L	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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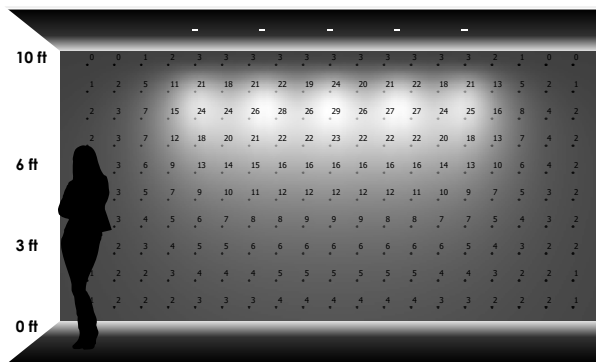
Delivered Lumens: 677
 Luminaire Watts: 20.4
 LER: 33.19
 CP at 0deg (Nadir): 406
 CRI: 80
 Lumen Multiplier: N/A, 30L only
 CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
 27HK x 0.87, 30HK x 0.81



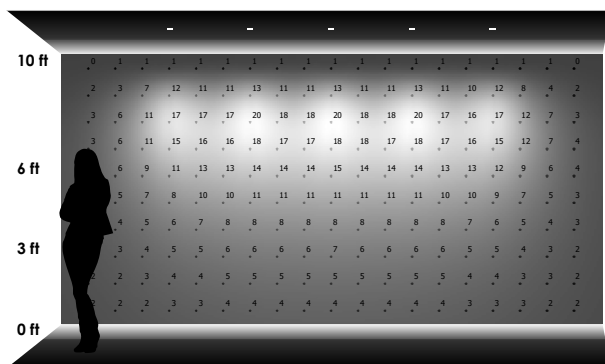
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



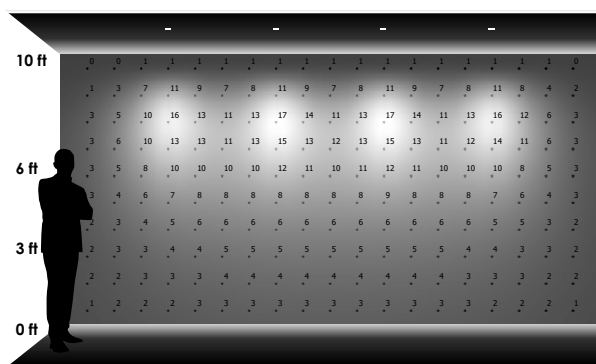
5 LUMINAIRES
 2' away from wall
 2' between luminaires



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

