



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

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 030	SDZ03OC 30L	1347	20.4	66

¹ Nominal Delivered Lumens at 835 DL FL GP MW

PROJECT: _____

TYPE: _____

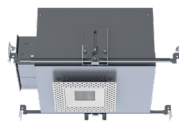


AVAILABLE HOUSING TYPES

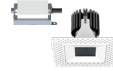
IF03SMN NC - New Construction



IF03SMN IC - IC New Construction



IF03SMN RT - Remodel Construction



HOUSING						HOUSING OPTIONS									
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY					
IF03SMN	NC New Construction	PC	90 Minimum	030	1347 Lm	PR 1.25" Ceiling Extension	N1 Non-Dimming Electronic Driver	1 120V	NC/IC		EI 7W Integral Battery Not Available in IC New Construction				
			927 2700K						B1 Expandable Bar Hangers						
	930 3000K	D3 1% ELV/MLV Phase-Cut (120V)	1 120V	RT			ER 7W Remote Battery Available in All Types								
	80 Minimum			Nominal Delivered Lumens at 835 DL FL GP MW	B0 No Bar Hangers										
IF03SMN	IC New Construction Not Available in 90CRI	PC	80 Minimum	030	1347 Lm	PR 1.25" Ceiling Extension	D1 1% 0-10V	2 277V	NC/IC		EI 7W Integral Battery Not Available in IC New Construction				
			827 2700K						B1 Expandable Bar Hangers						
			830 3000K							D3 1% ELV/MLV Phase-Cut (120V)		1 120V	RT		ER 7W Remote Battery Available in All Types
			835 3500K										B0 No Bar Hangers		
IF03SMN	RT Remodel Construction	PC	840 4000K	030	1347 Lm	PR 1.25" Ceiling Extension	D3 1% ELV/MLV Phase-Cut (120V)	1 120V		RT		ER 7W Remote Battery Available in All Types			
			840 4000K						B0 No Bar Hangers						

AVAILABLE TRIM / MODULE TYPES

DL - DOWNLIGHT

WW - WALL WASH



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

¹ Nominal Beam Angles Shown

EXAMPLE: IF03SMNNPC927030/N11B1/DLFLGPMW

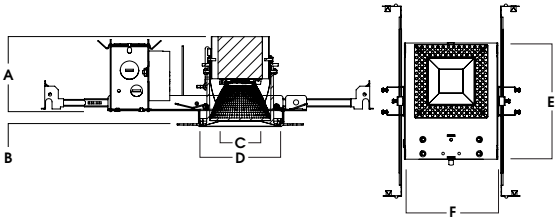
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



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.



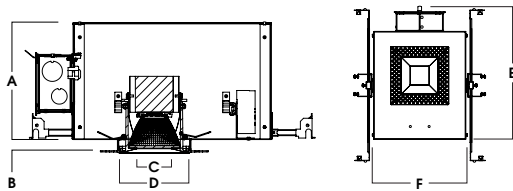
A	B	C	D	E	F
4.5	.625	2.0	3.8	9.5	7.6
114.3 mm	15.9 mm	50.8 mm	96.5 mm	241.3 mm	193.0 mm

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.



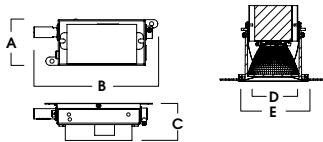
A	B	C	D	E	F
6.5	.625	2.0	3.8	13.2	9.5
165.1 mm	15.9 mm	50.8 mm	96.5 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.1" Sq

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.



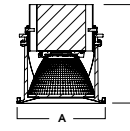
A	B	C	D	E
2.8	7.5	2.3	2.0	3.8
71.1 mm	190.5 mm	58.4 mm	50.8 mm	96.5 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" Sq

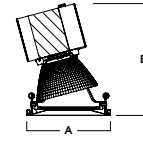
TRIM / MODULE DATA

DL - DOWNLIGHT MODULE



A	B
3.8	4.5
96.5 mm	114.3 mm

WW - WALL WASH MODULE



A	B
3.8	5.2
96.5 mm	132.1 mm

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.

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

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 CP at 0° (Nadir): 4322 Beam Angle: 25° Lumen Multiplier: N/A, 30L only Luminaire Watts: 20.4 CRI: 80 Spacing Ratio: 0.42 CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04 LER: 68.87															

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 CP at 0° (Nadir): 3460 Beam Angle: 31° Lumen Multiplier: N/A, 30L only Luminaire Watts: 20.4 CRI: 80 Spacing Ratio: 0.51 CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04 LER: 68.28															

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 CP at 0° (Nadir): 2220 Beam Angle: 41° Lumen Multiplier: N/A, 30L only Luminaire Watts: 20.4 CRI: 80 Spacing Ratio: 0.65 CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04 LER: 66.03															



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	10'	6'	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5°	1402	0° - 30° 860 63%	10'	14 fc	10.0'	5 fc	14'	8'	20	0.30	13	0.22
	15°	1249	0° - 40° 1108 82%	12'	10 fc	12.0'	4 fc	18'	10'	14	0.22	12	0.22
	25°	792	0° - 60° 1310 97%	14'	7 fc	14.0'	3 fc	Delivered Illuminance Rating: (DIR)		66 FC per W/Sq. Ft.		56 FC per W/Sq. Ft.	
	35°	370	0° - 80° 1354 100%	16'	6 fc	16.0'	2 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°	169	0° - 90° 1357 100%	20'	4 fc	20.0'	1 fc						
	55°	74	Total 1357 100%	24'	2 fc	24.1'	1 fc						
	90°	2		28'	2 fc	28.1'	1 fc						

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

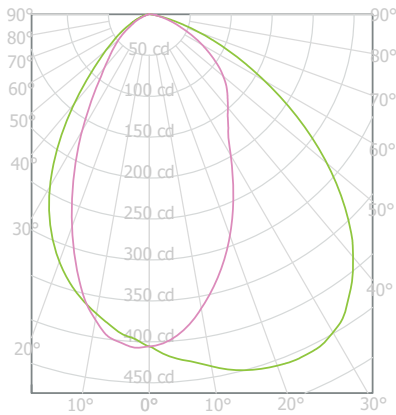
See Page 1 for System Watts for all outputs



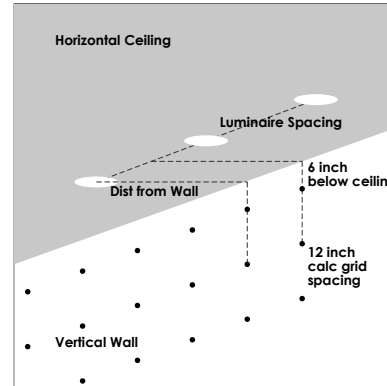
PHOTOMETRIC DATA - 3" SQUARE WALL WASH

IF03SMx xx PC 835 030 WW WF LW MW

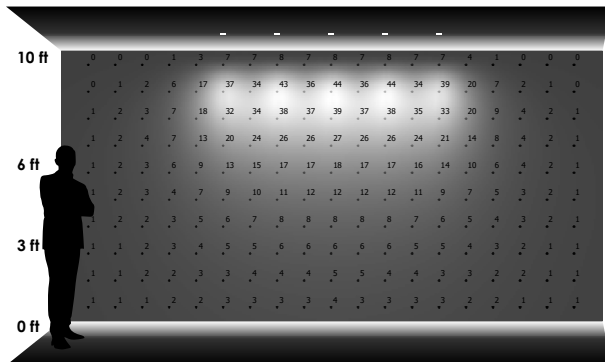
CANDLEPOWER CURVE TEST SP-00850_M-30L	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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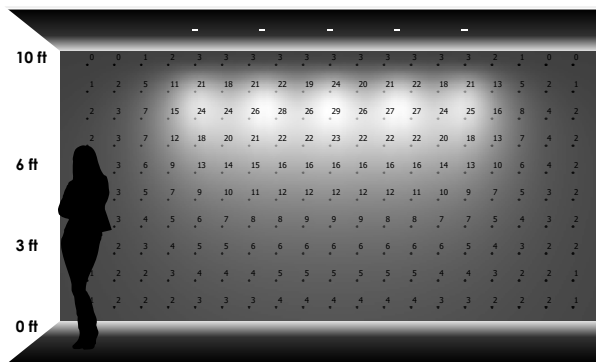
Delivered Lumens: 677
 Luminaire Watts: 20.4
 LER: 33.19
 CP at 0deg (Nadir): 406
 CRI: 80
 Lumen Multiplier: N/A, 30L only
 CCT Multiplier: 27K x 0.96, 30K x 0.98, 40K x 1.04
 27HK x 0.87, 30HK x 0.81



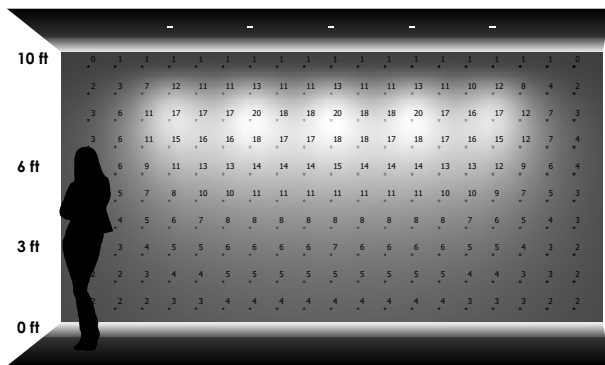
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



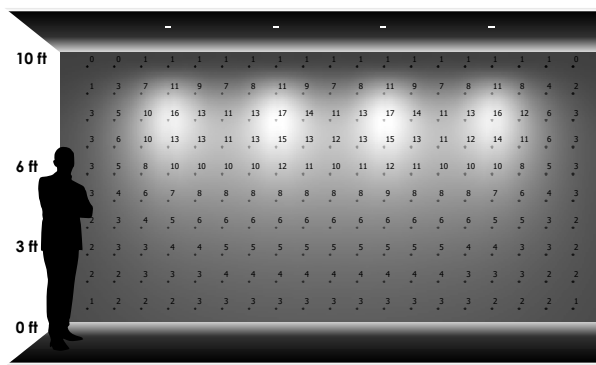
5 LUMINAIRES
 2' away from wall
 2' between luminaires



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

