



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

3" ROUND FLANGED SUPER SHALLOW IC NEW CONSTRUCTION

Spectrum's Infinium 3" recessed round 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
IF03RSF 007	N/A	537	5	99
IF03RSF 010	RDF03OC 10L	751	7	103
IF03RSF 015	N/A	1046	10	103

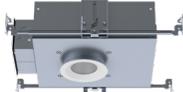
¹ Nominal Delivered Lumens at 835 DL FL GP MW

PROJECT: _____
TYPE: _____



AVAILABLE HOUSING TYPE

IF03RSF IC - IC New Construction



HOUSING						HOUSING OPTIONS					
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY	
IF03RSF	IC IC New Construction	PC	90 Minimum	007 537 Lm	PR 1.25" Ceiling Extension	N1 Non-Dimming Electronic Driver	D1 1%, 0-10V	1 120V	2 277V	B1 Expandable Bar Hangers	ER 7W Remote Battery
			922 2200K	010 751 Lm							
			927 2700K	015 1046 Lm							
			930 3000K								
80 Minimum	Nominal Delivered Lumens at 835 DL FL GP MW		D3 1%, ELV/MLV Phase-Cut (120V)	1 120V							
827 2700K											
830 3000K											
835 3500K											
840 4000K											

AVAILABLE TRIM / MODULE TYPES



TRIM OPTIONS						SEPARATE ADDITIONAL ACCESSORIES	
TRIM TYPE	BEAM ¹	LENS	FINISH	FLANGE FINISH	OPTION		
DL PH	Spot (24°) Narrow Flood (28°) Flood (38°) Wide Flood (61°)	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	MF Matching Flange Default Selection with PH Trim Type WF White Flange For Use with Non-White Trim Finish	WL Wet Location Requires GP or GC Lens	GOOF RING	
AA	Narrow Flood (35°) Flood (43°) Wide Flood (48°)					GRIF03R MW Matte White MB Matte Black PT Platinum Silver CC Custom Color	
WW	Wide Flood	LW Wall Wash Lens				BAR HANGERS B2 27" Solid Bar Hangers B4 24" C-Channel Bar Hangers	

¹ Nominal Beam Angles Shown

EXAMPLE: IF03RSFICPC927007/D12B1/DLNFPMWFWL

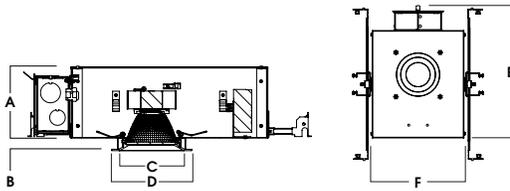
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

IF03RSF IC - SUPER SHALLOW IC NEW CONSTRUCTION

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



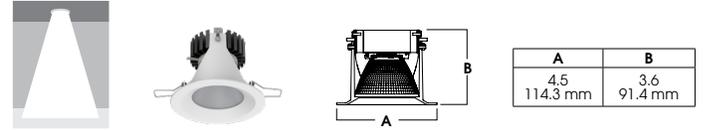
A	B	C	D	E	F
4.0	.625	3.6	4.5	13.2	9.5
101.6 mm	15.9 mm	91.4 mm	114.3 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

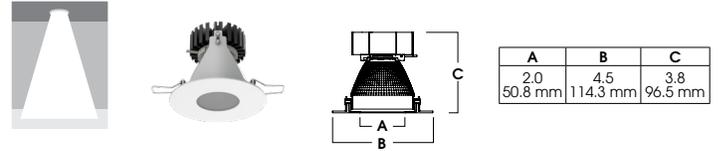
Ceiling Cutout: Ø 3^{7/8}"

TRIM / MODULE DATA

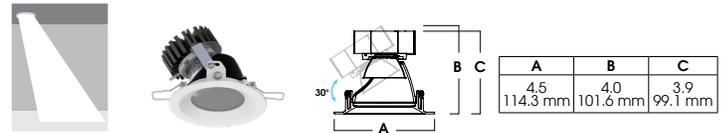
DL - DOWNLIGHT MODULE



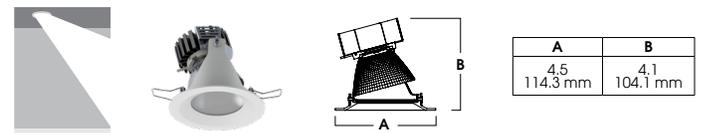
PH - PINHOLE DOWNLIGHT MODULE



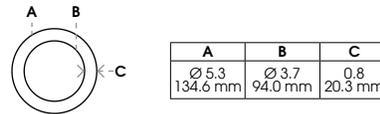
AA - ADJUSTABLE MODULE (30°)



WW - WALL WASH MODULE



GRIF03R - 3" ROUND GOOF RING



FEATURES

APPLICATION

Versatile super shallow plenum 3" round recessed LED luminaire with a 4" deep IC housing, featuring downlight, adjustable accent, wall wash and pinhole downlight 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. 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. 2200K closely resembles candle light or high pressure sodium lamps.

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" ROUND DOWNLIGHT

IF03RSx IC 835 015 N11 DLSPGP MW

CANDLEPOWER CURVE TEST SP-00776_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°	278	26%	5.5'	122 fc	2.3'	61 fc	9'	2'	272	2.63	203	2.17	
	0.00° 3,692	0° - 20°	649	61%	6.5'	87 fc	2.7'	44 fc	12'	4'	67	0.65	66	0.71	
	5.00° 3,272	0° - 30°	893	84%	7.5'	66 fc	3.2'	33 fc	16'	6'	33	0.32	33	0.35	
	10.00° 2,254	0° - 40°	1,003	94%	8.5'	51 fc	3.6'	26 fc	Delivered Illuminance Rating: (DIR)						
	15.00° 1,331	0° - 60°	1,045	98%	10.0'	37 fc	4.2'	18 fc						103 FC per W/Sq. Ft.	
	20.00° 795	0° - 80°	1,063	100%	12.0'	26 fc	5.1'	13 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						
	30.00° 335	0° - 90°	1,064	100%	14.0'	19 fc	5.9'	9 fc							
	40.00° 63	Total	1,064	100%	16.0'	14 fc	6.8'	7 fc							
	50.00° 21														
	60.00° 16														
	70.00° 8														
	80.00° 3														
90.00° 1															

Delivered Lumens: 1,064
 Luminaire Watts: 10.2
 LER: 104.31
 CP at 0deg (Nadir): 3,692
 CRI: 80
 Beam Angle: 24
 Spacing Ratio: 0.4
 Lumen Multiplier: 07L x 0.40, 10L x 0.56
 CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

IF03RSx IC 835 015 DLNFGP MW

CANDLEPOWER CURVE TEST SP-00775_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°	245	23%	5.5'	98 fc	2.8'	49 fc	9'	2'	267	2.63	199	2.17
	0.00° 2,976	0° - 20°	625	59%	6.5'	70 fc	3.3'	35 fc	12'	4'	66	0.65	65	0.71
	5.00° 2,804	0° - 30°	876	83%	7.5'	53 fc	3.8'	26 fc	16'	6'	25	0.25	21	0.22
	10.00° 2,164	0° - 40°	992	94%	8.5'	41 fc	4.3'	21 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,345	0° - 60°	1,033	98%	10.0'	30 fc	5.1'	15 fc						102 FC per W/Sq. Ft.
	20.00° 778	0° - 80°	1,049	100%	12.0'	21 fc	6.1'	10 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					
	30.00° 326	0° - 90°	1,051	100%	14.0'	15 fc	7.1'	8 fc						
	40.00° 53	Total	1,051	100%	16.0'	12 fc	8.1'	6 fc						
	50.00° 20													
	60.00° 13													
	70.00° 7													
	80.00° 3													
90.00° 1														

Delivered Lumens: 1,051
 Luminaire Watts: 10.2
 LER: 103.04
 CP at 0deg (Nadir): 2,976
 CRI: 80
 Beam Angle: 28.27
 Spacing Ratio: 0.47
 Lumen Multiplier: 07L x 0.40, 10L x 0.56
 CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

IF03RSx IC 835 015 N11 DLFLGP MW

CANDLEPOWER CURVE TEST SP-00774_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°	184	18%	5.5'	70 fc	3.8'	35 fc	9'	4'	55	0.54	49	0.54
	0.00° 2,104	0° - 20°	555	53%	6.5'	50 fc	4.5'	25 fc	12'	4'	65	0.65	63	0.71
	5.00° 1,989	0° - 30°	859	82%	7.5'	37 fc	5.2'	19 fc	16'	6'	25	0.25	20	0.22
	10.00° 1,705	0° - 40°	989	94%	8.5'	29 fc	5.9'	15 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,344	0° - 60°	1,030	98%	10.0'	21 fc	6.9'	11 fc						100 FC per W/Sq. Ft.
	20.00° 975	0° - 80°	1,045	100%	12.0'	15 fc	8.3'	7 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					
	30.00° 422	0° - 90°	1,046	100%	14.0'	11 fc	9.7'	5 fc						
	40.00° 72	Total	1,046	100%	16.0'	8 fc	11.0'	4 fc						
	50.00° 17													
	60.00° 10													
	70.00° 7													
	80.00° 3													
90.00° 1														

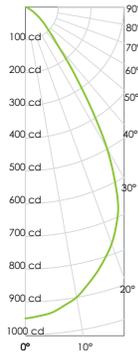
Delivered Lumens: 1,046
 Luminaire Watts: 10.2
 LER: 102.55
 CP at 0deg (Nadir): 2,104
 CRI: 80
 Beam Angle: 38
 Spacing Ratio: 0.6
 Lumen Multiplier: 07L x 0.40, 10L x 0.56
 CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03



PHOTOMETRIC DATA - 3" ROUND DOWNLIGHT

IF03RSx IC 835 015 N11 DLWFGP MW

CANDLEPOWER CURVE
TEST SP-00777_2_M-010L



INTENSITY CANDELA
0° AZIMUTH

Intensity (cd)	Beam Angle (°)
950	0.00°
936	5.00°
900	10.00°
839	15.00°
769	20.00°
498	30.00°
157	40.00°
68	50.00°
26	60.00°
8	70.00°
2	80.00°
1	90.00°

ZONAL LUMENS

Beam Angle Range (°)	Lumens	% of Total
0° - 10°	90	9%
0° - 20°	326	34%
0° - 30°	624	65%
0° - 40°	814	85%
0° - 60°	937	98%
0° - 80°	957	100%
0° - 90°	958	100%
Total	958	100%

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES
BASED ON IES BEAM ANGLE

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
5.5'	31 fc	6.5'	16 fc
6.5'	22 fc	7.7'	11 fc
7.5'	17 fc	8.8'	8 fc
8.5'	13 fc	10.0'	7 fc
10.0'	10 fc	11.8'	5 fc
12.0'	7 fc	14.1'	3 fc
14.0'	5 fc	16.5'	2 fc
16.0'	4 fc	18.9'	2 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
9'	4'	59	0.62	50	0.62
12'	6'	27	0.29	24	0.29
16'	10'	10	0.11	7	0.08
Delivered Illuminance Rating: (DIR)		95 FC per W/Sq. Ft.		81 FC per W/Sq. Ft.	
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					

Delivered Lumens: **958**
Luminaire Watts: **10.2**
LER: **93.92**

CP at 0deg (Nadir): **950**
CRI: **80**

Beam Angle: **61.05**
Spacing Ratio: **0.95**

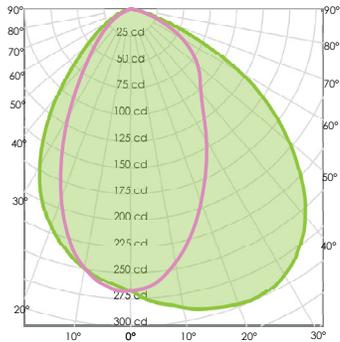
Lumen Multiplier: **07L x 0.40, 10L x 0.56**
CCT Multiplier: **27K x 0.95, 30K x 0.98, 40K x 1.03**



PHOTOMETRIC DATA - 3" ROUND WALL WASH

IF03RSx xx PC 835 015 WW WF LW MW

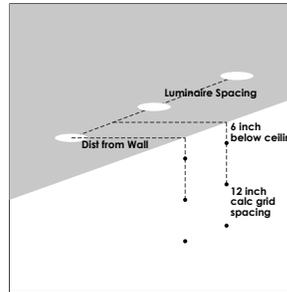
CANDLEPOWER CURVE TEST SP-00897_M-015L



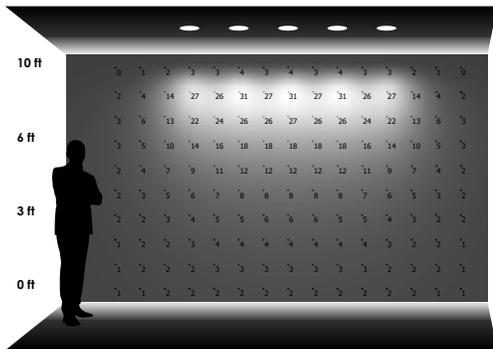
PERFORMANCE SUMMARY

Delivered Lumens: 467
 Luminaire Watts: 10.2
 LER: 45.78
 CP at 0deg (Nadir): 268
 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

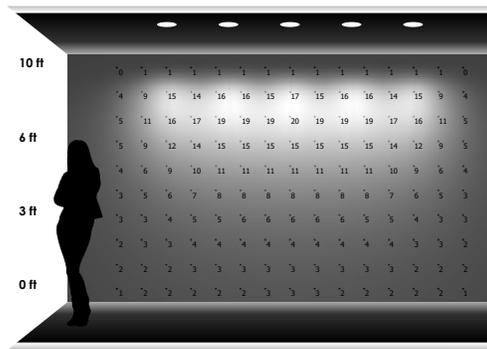
REFERENCE DIAGRAM



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



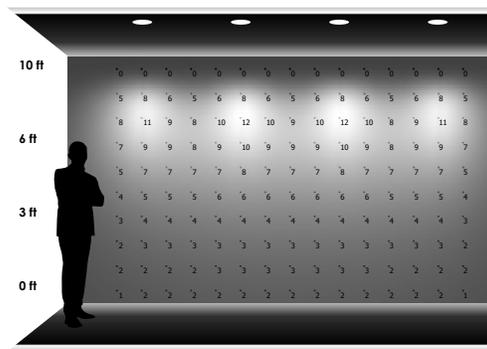
5 LUMINAIRES
 2' away from wall
 2' between luminaires



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

