



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

3" ROUND FLANGELESS

NON-IC & IC NEW CONSTRUCTION / REMODEL

Spectrum's Infinium 3" recessed round 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
IF03RMN 030	RDZO3OC 30L	2012	20.4	99

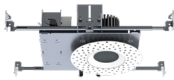
¹ Nominal Delivered Lumens at 835 DL FL GP MW

PROJECT: _____
 TYPE: _____



AVAILABLE HOUSING TYPES

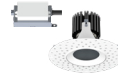
IF03RMN NC - New Construction



IF03RMN IC - IC New Construction



IF03RMN RT - Remodel Construction



HOUSING						HOUSING OPTIONS								
SERIES	TYPE	EMITTER	CRI/CCT	LUMENS	OPTIONS	DIMMING		MOUNTING		BATTERY				
IF03RMN	NC New Construction	PC	90 Minimum	030	2012 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									
IC New Construction Not Available in 90CRI	RT Remodel Construction	PC	827 2700K	030	2012 Lm	PR 1.25" Ceiling Extension	D1 1% 0-10V	2 277V	NC/IC		EI 7W Integral Battery Not Available in IC New Construction			
			830 3000K						B1 Expandable Bar Hangers					
			835 3500K							D3 1% ELV/MLV Phase-Cut (120V)		1 120V	RT	
			840 4000K						B0 No Bar Hangers					

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 (24°) NF Narrow Flood (28°) FL Flood (38°) WF Wide Flood (61°)	GN	No Lens Not Available in Wet Location	MW Matte White MB Matte Black PT Platinum Silver CC Custom Color	WL Wet Location Requires GP or GC Lens	B2 27" Solid Bar Hangers B4 24" C-Channel Bar Hangers	
		GP	Solite™ Micro Prism Lens				
		GC	Clear Glass Lens				
WW Wall Wash	WF Wide Flood	LW	Wall Wash Lens				

¹ Nominal Beam Angles Shown

EXAMPLE: IF03RMNNCPC927030/N11B1/DLSPGPMW

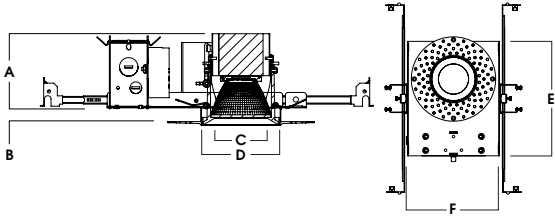
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

IF03RMN 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.



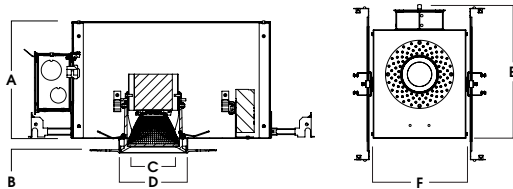
A	B	C	D	E	F
4.5	.625	2.5	3.8	9.5	7.6
114.3 mm	15.9 mm	63.5 mm	96.5 mm	241.3 mm	193.0 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: \varnothing 3^{7/8"}

IF03RMN IC - IC NEW CONSTRUCTION

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



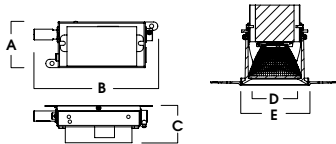
A	B	C	D	E	F
6.5	.625	2.5	3.8	13.2	9.5
165.1 mm	15.9 mm	63.5 mm	96.5 mm	335.3 mm	241.3 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: \varnothing 3^{7/8"}

IF03RMN RT - REMODEL CONSTRUCTION

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



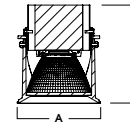
A	B	C	D	E
2.8	7.5	2.3	2.5	3.8
71.1 mm	190.5 mm	58.4 mm	63.5 mm	96.5 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: \varnothing 3^{3/4"}

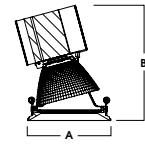
TRIM / MODULE DATA

DL - DOWNLIGHT MODULE



A	B
3.8	4.6
96.5 mm	116.8 mm

WW - WALL WASH MODULE



A	B
3.8	5.2
96.5 mm	132.1 mm

FEATURES

APPLICATION

Versatile shallow plenum 3" round 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 3" 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.

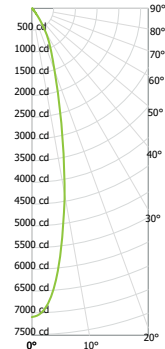
CODE COMPLIANCE

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" ROUND DOWNLIGHT

IF03RMx xx PC 835 030 DLSPGP MW

CANDLEPOWER CURVE TEST SP-00760_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°	534	26%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
	0° 7100	0° - 20°	1248	61%	10'	71 fc	4.2'	33 fc	18'	4'	103	1.10	94	1.11
	5° 6292	0° - 30°	1717	84%	12'	49 fc	5.1'	23 fc	22'	6'	51	0.55	41	0.49
	15° 2560	0° - 40°	1928	94%	14'	36 fc	5.9'	17 fc	26'	8'	27	0.29	28	0.34
	25° 1012	0° - 60°	2011	98%	16'	28 fc	6.8'	13 fc	Delivered Illuminance Rating: (DIR)					
	35° 317	0° - 80°	2044	100%	20'	18 fc	8.4'	8 fc	93 FC per W/Sq. Ft. 85 FC per W/Sq. Ft.					
	45° 54	0° - 90°	2047	100%	24'	12 fc	10.1'	6 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					
	55° 37	Total	2047	100%	28'	9 fc	11.8'	4 fc	* Average Footcandles at 2.5' Above Floor					
	90° 1				32'	7 fc	13.5'	3 fc						

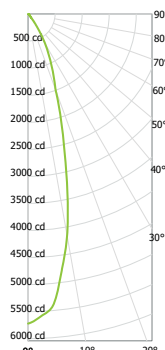
Delivered Lumens: 2047
Luminaire Watts: 20.4
LER: 100.34

CP at 0° (Nadir): 7100
CRI: 80

Beam Angle: 24°
Spacing Ratio: 0.40

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

IF03RMx xx PC 835 030 DLNFGP MW

CANDLEPOWER CURVE TEST SP-00759_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°	472	23%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0° 5723	0° - 20°	1202	59%	8'	89 fc	4.1'	41 fc	14'	6'	48	0.50	54	0.62
	5° 5392	0° - 30°	1685	83%	10'	57 fc	5.1'	26 fc	18'	8"	27	0.28	30	0.34
	15° 2587	0° - 40°	1907	94%	12'	40 fc	6.1'	18 fc	22'	10"	23	0.24	19	0.21
	25° 1004	0° - 60°	1986	98%	14'	29 fc	7.1'	13 fc	Delivered Illuminance Rating: (DIR)					
	35° 288	0° - 80°	2017	100%	16'	22 fc	8.1'	10 fc	96 FC per W/Sq. Ft. 87 FC per W/Sq. Ft.					
	45° 52	0° - 90°	2020	100%	20'	14 fc	10.2'	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					
	55° 29	Total	2020	100%	24'	10 fc	12.2'	5 fc	* Average Footcandles at 2.5' Above Floor					
	90° 2				28'	7 fc	14.2'	3 fc	** Exceeds Spacing Ratio by 11% *** Exceeds Spacing Ratio by 10%					

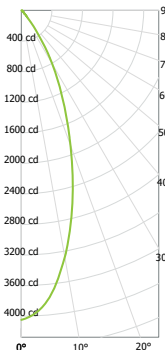
Delivered Lumens: 2020
Luminaire Watts: 20.4
LER: 99.02

CP at 0° (Nadir): 5723
CRI: 80

Beam Angle: 28°
Spacing Ratio: 0.47

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

IF03RMx xx PC 835 030 DLFLGP MW

CANDLEPOWER CURVE TEST SP-00758_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°	353	18%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0° 4047	0° - 20°	1067	53%	8'	63 fc	5.5'	27 fc	14'	6'	48	0.50	53	0.62
	5° 3826	0° - 30°	1652	82%	10'	40 fc	6.9'	17 fc	18'	8'	26	0.28	29	0.34
	15° 2584	0° - 40°	1901	94%	12'	28 fc	8.3'	12 fc	22'	10'	17	0.17	18	0.21
	25° 1278	0° - 60°	1981	98%	14'	21 fc	9.7'	9 fc	Delivered Illuminance Rating: (DIR)					
	35° 392	0° - 80°	2009	100%	16'	16 fc	11.0'	7 fc	95 FC per W/Sq. Ft. 85 FC per W/Sq. Ft.					
	45° 57	0° - 90°	2012	100%	20'	10 fc	13.8'	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					
	55° 24	Total	2012	100%	24'	7 fc	16.6'	3 fc	* Average Footcandles at 2.5' Above Floor					
	90° 2				28'	5 fc	19.3'	2 fc						

Delivered Lumens: 2012
Luminaire Watts: 20.4
LER: 98.63

CP at 0° (Nadir): 4047
CRI: 80

Beam Angle: 38°
Spacing Ratio: 0.60

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" ROUND DOWNLIGHT

CANDLEPOWER CURVE TEST SP-00761_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° 172 9%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0° 1827	0° - 20° 627 34%	8'	29 fc	9.4'	9 fc	10'	6'	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	5° 1800	0° - 30° 1199 65%	10'	18 fc	11.8'	6 fc	14'	8'	27	0.30	17	0.22
	15° 1614	0° - 40° 1566 85%	12'	13 fc	14.1'	4 fc	18'	10'	19	0.22	17	0.22
	25° 1287	0° - 60° 1801 98%	14'	9 fc	16.5'	3 fc	Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft.		77 FC per W/Sq. Ft.	
	35° 563	0° - 80° 1840 100%	16'	7 fc	18.9'	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° 192	0° - 90° 1842 100%	20'	5 fc	23.6'	1 fc						
	55° 84	Total 1842 100%	24'	3 fc	28.3'	1 fc						
	90° 1		28'	2 fc	33.0'	1 fc						

Delivered Lumens: 1842
Luminaire Watts: 20.4
LER: 90.29

CP at 0° (Nadir): 1827
CRI: 80

Beam Angle: 61°
Spacing Ratio: 0.95

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" ROUND WALL WASH

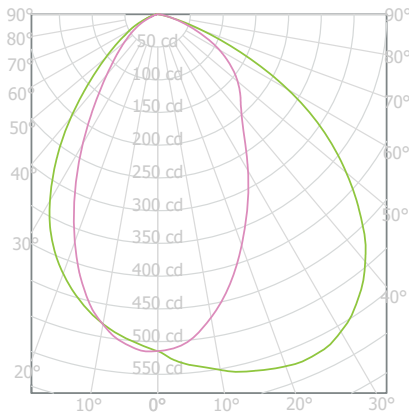
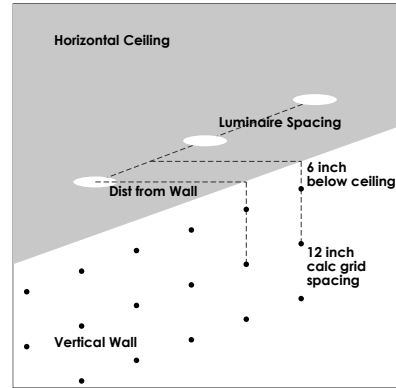
IF03RMx xx PC 835 030 WW WF LW MW

CANDLEPOWER CURVE
TEST SP-00849_M-30L

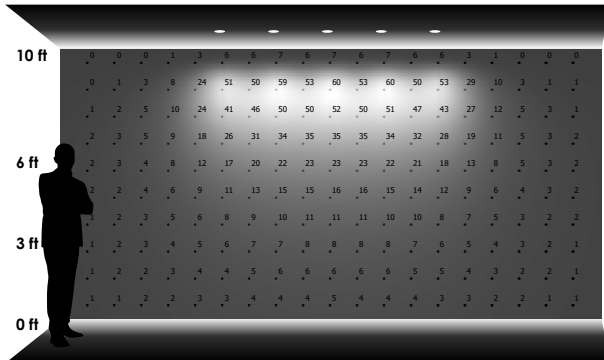
PERFORMANCE SUMMARY

Delivered Lumens: 898
 Luminaire Watts: 20.4
 LER: 44.02
 CP at 0deg (Nadir): 514
 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

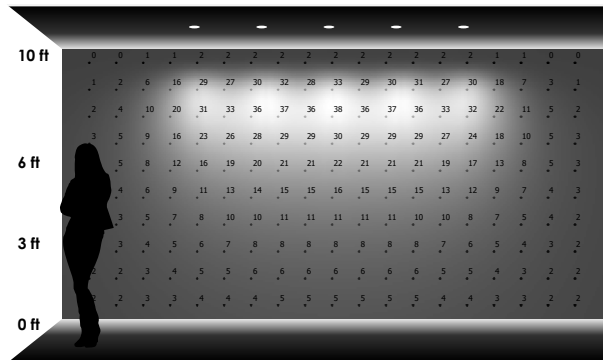
REFERENCE DIAGRAM



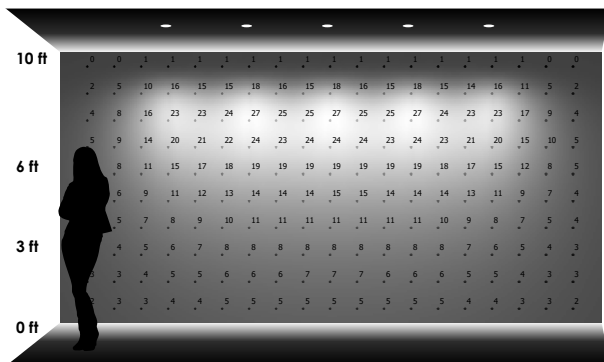
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



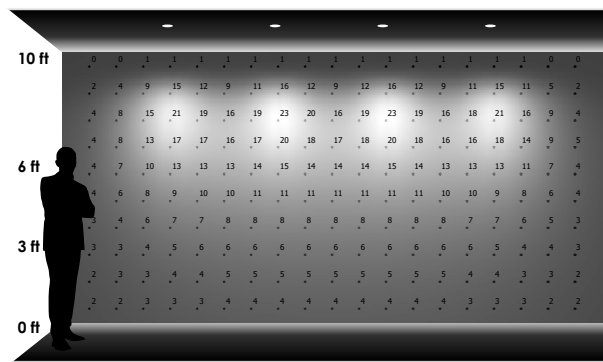
5 LUMINAIRES
2' away from wall
2' between luminaires



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

