



1" SQUARE DOWNLIGHT

700 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 1" recessed square downlight series features a shallow plenum housing and trim for accent and general illumination.

LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS ²	DELIVERED LUMENS ³	SYSTEM WATTS	LPW
DL	004	400	294	6.3	47
DL	007 ¹	700	514	9.7	53

¹ Install Fixtures in Accordance with the Following Marked Spacing: (a) Center To Center of Adjacent Luminaires: 600mm (24in); (b) Top of Luminaire to overhead Building Member: 13mm (0.5in); (c) Luminaire Center to side Building Member: 300mm (12in) ² Nominal Source Lumens ³ Nominal Delivered Lumens at 935 007 DL SP MW XX

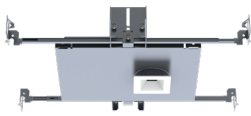
PROJECT: _____

TYPE: _____

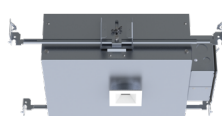


AVAILABLE HOUSING TYPES

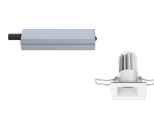
AS01SQFNC - New Construction / 007 Max



AS01SQFIC - IC New Construction / 007 Max



AS01SQFRT - Remodel Construction / 007 Max



- Die-cast aluminum trim with a wide variety of options.
- Shallow plenum housing.
- Universal housing accepts all trim types, including 1" round trim.
- Interchangeable optics.
- 5 year warranty on fixture and electronics.
- Sustainable fixture.

HOUSING				HOUSING OPTIONS			
SERIES	TYPE	CRI/CCT	LUMENS ²	DIMMING		MOUNTING	
AS01SQF	NC RT	New Construction	90 CRI	004 400 Lm	D4 5%, 0-10V	1 120V 2 277V	NC/IC
		Remodel Construction	927 2700K	007 ¹ 700 Lm			B1 Expandable Bar Hangers
			930 3000K				
			935 3500K				
	940 4000K						
	IC	IC New Construction	927 2700K	004 400 Lm			B0 No Bar Hangers
930 3000K			007 ¹ 700 Lm				
		935 3500K	Nominal Source Lumens				
		940 4000K					

AVAILABLE TRIM / MODULE TYPE



TRIM OPTIONS			
TRIM TYPE	BEAM	FINISH	FLANGE FINISH
DL Downlight	SP Spot (23°)	MW Matte White	MF Matching Flange
	NF Narrow Flood (27°)	MB Matte Black	WF White Flange
	FL Flood (34°)	PT Platinum Silver	For Use with Non-White Trim Finish
		CC Custom Color	

EXAMPLE: AS01SQFNC927004/D41B1/DLSPMWMF

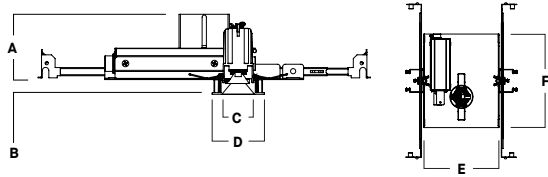
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

ASO1SQFNC - NEW CONSTRUCTION / 007 MAX

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



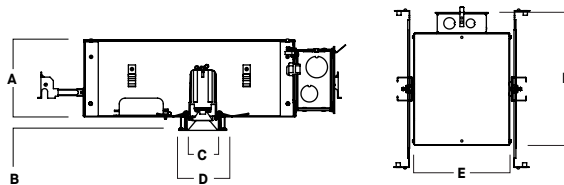
A	B	C	D	E	F
3.1	.625	1.6	2.5	7.6	9.5
78.7 mm	15.9 mm	40.6 mm	63.5 mm	193.0 mm	241.3 mm

Fixture Weight: 2.7 lb

Ceiling Cutout: 2^{3/8}"

ASO1SQFIC - IC NEW CONSTRUCTION / 007 MAX

IC rated frame-in kit for new construction with direct insulation contact.



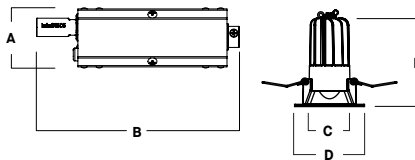
A	B	C	D	E	F
4.0	0.6	1.6	2.5	9.5	13.2
101.6 mm	15.2 mm	40.6 mm	63.5 mm	241.3 mm	335.3 mm

Fixture Weight: 4.2 lb

Ceiling Cutout: 2^{3/8}"

ASO1SQFRF - REMODEL CONSTRUCTION / 007 MAX

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
2.0	7.1	1.6	2.5	3.4
50.8 mm	180.3 mm	40.6 mm	63.5 mm	86.4 mm

Fixture Weight: 1.5 lb

Ceiling Cutout: 2^{3/8}"

FEATURES

FRAME-IN KIT

Precision Die-formed 20 gauge galvanized steel housing and tethered driver enclosure for tool-less accessibility once installed. Driver enclosure features integral thermal protector. Posi-lock trim retention springs. Integral 0.625" collar, works with up to 1" ceiling. For thicker ceilings consult factory.

MOUNTING

Multi-Bar mounting brackets. Expandable bar hangers with horizontal range of 14.2"-26". Vertical adjustment is 0.625". Ceiling materials must be rigid enough to support luminaire frame.

DRIVER

Class P constant current 0-10V dimming driver dims to 5%. Power factor >.9 typical, 50/60Hz, 100-175mA.

TRIM

Self-flanged, one-piece, die-cast aluminum finished in a variety of powdercoat options. Inside trim and flange are finished in same color unless otherwise specified (WF= White Flange).

REMODEL

Features tethered power supply and junction box with sheathed wire.

LUMEN OUTPUT

TIR optics maintain beam angles throughout 400-700 lumen output range.

LED

Nichia high power emitter. High CRI >90.

FUSING

Integral optional fast blow fuse with fuse holder.

LISTINGS

ETL Certified to meet US and Canadian Standards. Suitable for damp locations. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Insulated Ceiling (IC) options available.

WARRANTY

Fixtures, LEDs and drivers carry 5 year Spectrum warranty, as well as individual OEM warranty. Warranty is 5 years from date of manufacturing. LED system rated for operation in an ambient temperatures up to 25 °C.

TRIM / MODULE DATA

DL - DOWNLIGHT MODULE



A
3.4

PHOTOMETRIC DATA - 1" SQUARE NEW CONSTRUCTION

AS01SQF NC 935 007 DL SP MW xx

CANDLEPOWER CURVE TEST SP-01017	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° 184 36%	5.5'	80 fc	2.3'	37 fc	9'	2'	121	2.35	100	2.08
	0°	0° - 20° 400 78%	6.5'	57 fc	2.7'	27 fc	12'	3'	57	1.10	47	0.98
	5°	0° - 30° 481 94%	7.5'	43 fc	3.1'	20 fc	16'	4'	28	0.55	23	0.48
	15°	0° - 40° 500 97%	8.5'	33 fc	3.5'	16 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 510 99%	10.0'	24 fc	4.1'	11 fc	51 FC per W/Sq. Ft.					
	35°	0° - 80° 513 100%	12.0'	17 fc	4.9'	8 fc	48 FC per W/Sq. Ft.					
	45°	Downlight 514 100%	14.0'	12 fc	5.7'	6 fc	Recessed mounting Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 5.5' x 1.66 * Average Footcandles at 2.5' Above Floor					
	55°	Total 514 100%	16.0'	9 fc	6.6'	4 fc						
	90°	1										

Delivered Lumens: 514
Luminaire Watts: 9.7
LER: 52.99

Beam Angle: 23°
Spacing Ratio: 0.39

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

CRI: 90+

AS01SQF NC 935 007 DL NF MW xx

CANDLEPOWER CURVE TEST SP-01016	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° 119 27%	5.5'	49 fc	2.7'	23 fc	9'	3'	46	1.01	38	0.92
	0°	0° - 20° 295 67%	6.5'	35 fc	3.2'	16 fc	12'	4'	28	0.62	28	0.67
	5°	0° - 30° 387 88%	7.5'	26 fc	3.6'	12 fc	16'	5'	17	0.39	14	0.33
	15°	0° - 40° 421 95%	8.5'	21 fc	4.1'	9 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 437 99%	10.0'	15 fc	4.9'	7 fc	45 FC per W/Sq. Ft.					
	35°	0° - 80° 440 100%	12.0'	10 fc	5.8'	5 fc	41 FC per W/Sq. Ft.					
	45°	Downlight 441 100%	14.0'	8 fc	6.8'	3 fc	Recessed mounting Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 * Average Footcandles at 2.5' Above Floor					
	55°	Total 441 100%	16.0'	6 fc	7.8'	3 fc						
	90°	1										

Delivered Lumens: 441
Luminaire Watts: 9.7
LER: 45.46

Beam Angle: 27°
Spacing Ratio: 0.45

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

CRI: 90+

AS01SQF NC 935 007 DL FL MW xx

CANDLEPOWER CURVE TEST SP-01015	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° 69 18%	5.5'	27 fc	3.4'	12 fc	9'	4'	20	0.52	17	0.52
	0°	0° - 20° 200 52%	6.5'	19 fc	4.0'	8 fc	12'	5'	13	0.35	15	0.43
	5°	0° - 30° 300 79%	7.5'	14 fc	4.6'	6 fc	16'	6'	9	0.24	7	0.21
	15°	0° - 40° 353 92%	8.5'	11 fc	5.2'	5 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 377 99%	10.0'	8 fc	6.2'	4 fc	38 FC per W/Sq. Ft.					
	35°	0° - 80° 380 100%	12.0'	6 fc	7.4'	2 fc	34 FC per W/Sq. Ft.					
	45°	Downlight 382 100%	14.0'	4 fc	8.6'	2 fc	Recessed mounting Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 * Average Footcandles at 2.5' Above Floor					
	55°	Total 382 100%	16.0'	3 fc	9.9'	1 fc						
	90°	1										

Delivered Lumens: 382
Luminaire Watts: 9.7
LER: 39.38

Beam Angle: 34°
Spacing Ratio: 0.55

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

CRI: 90+



PHOTOMETRIC DATA - 1" SQUARE IC CONSTRUCTION

AS01SQ IC 935 007 DL SP MW xx

CANDLEPOWER CURVE TEST SP-00830_M-7L	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° 184 36%	6.5'	57 fc	2.7'	27 fc	12'	3'	57	0.87	47	0.77
	0°	0° - 20° 400 78%	7.5'	43 fc	3.1'	20 fc	15'	4'	33	0.50	27	0.45
	5°	0° - 30° 481 94%	8.5'	33 fc	3.5'	16 fc	18'	5'	21	0.33	18	0.29
	15°	0° - 40° 500 97%	10.0'	24 fc	4.1'	11 fc	Delivered Illuminance Rating: (DIR) 65 FC per W/Sq. Ft. 60 FC per W/Sq. Ft.					
	25°	0° - 60° 510 99%	12.0'	17 fc	4.9'	8 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° 513 100%	14.0'	12 fc	5.7'	6 fc						
	45°	0° - 90° 514 100%	16.0'	9 fc	6.6'	4 fc						
	55°	0° - 90° 514 100%	20.0'	6 fc	8.2'	3 fc						
	90°	90° 1	Total 514 100%									

Delivered Lumens: 514
Luminaire Watts: 7.7
LER: 66.75

CP at 0° (Nadir): 2412
CRI: 90+

Beam Angle: 23°
Spacing Ratio: 0.39

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

AS01SQ IC 935 007 DL NF MW xx

CANDLEPOWER CURVE TEST SP-00829_M-7L	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° 119 27%	5.5'	49 fc	2.7'	23 fc	9'	3"	46	0.81	38	0.73
	0°	0° - 20° 295 67%	6.5'	35 fc	3.2'	16 fc	12'	4'	28	0.49	28	0.53
	5°	0° - 30° 387 88%	7.5'	26 fc	3.6'	12 fc	15'	5'	16	0.28	16	0.31
	15°	0° - 40° 421 95%	8.5'	21 fc	4.1'	9 fc	Delivered Illuminance Rating: (DIR) 57 FC per W/Sq. Ft. 52 FC per W/Sq. Ft.					
	25°	0° - 60° 437 99%	10.0'	15 fc	4.9'	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 * Exceeds Spacing Ratio by 3%					
	35°	0° - 80° 440 100%	12.0'	10 fc	5.8'	5 fc						
	45°	0° - 90° 441 100%	14.0'	8 fc	6.8'	3 fc						
	55°	0° - 90° 441 100%	16.0'	6 fc	7.8'	3 fc						
	90°	90° 1	Total 441 100%									

Delivered Lumens: 441
Luminaire Watts: 7.7
LER: 57.27

CP at 0° (Nadir): 1484
CRI: 90+

Beam Angle: 27°
Spacing Ratio: 0.45

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

AS01SQ IC 935 007 DL FL MW xx

CANDLEPOWER CURVE TEST SP-00828_M-7L	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° 69 18%	5.5'	27 fc	3.4'	12 fc	9'	4"	20	0.41	17	0.41
	0°	0° - 20° 200 52%	6.5'	19 fc	4.0'	8 fc	12'	5'	13	0.28	15	0.34
	5°	0° - 30° 300 79%	7.5'	14 fc	4.6'	6 fc	15'	6'	10	0.22	8	0.20
	15°	0° - 40° 353 92%	8.5'	11 fc	5.2'	5 fc	Delivered Illuminance Rating: (DIR) 48 FC per W/Sq. Ft. 43 FC per W/Sq. Ft.					
	25°	0° - 60° 377 99%	10.0'	8 fc	6.2'	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 * Exceeds Spacing Ratio by 12%					
	35°	0° - 80° 380 100%	12.0'	6 fc	7.4'	2 fc						
	45°	0° - 90° 382 100%	14.0'	4 fc	8.6'	2 fc						
	55°	0° - 90° 382 100%	16.0'	3 fc	9.9'	1 fc						
	90°	90° 1	Total 382 100%									

Delivered Lumens: 382
Luminaire Watts: 7.7
LER: 49.61

CP at 0° (Nadir): 805
CRI: 90+

Beam Angle: 34°
Spacing Ratio: 0.55

Lumen Multiplier: 004 x 0.56
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

