



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 |

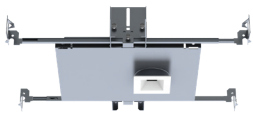
¹ Install Fixtures in Accordance with the Following Marked Spacing: (a) Center To Center of Adjacent Luminaires: 600mm (24in); (b) Top of Luminaire to overhead Building Member: 13mm (0.5in); (c) Luminaire Center to side Building Member: 300mm (12in) ² Nominal Source Lumens ³ Nominal Delivered Lumens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

PROJECT: _____
TYPE: _____

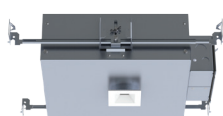


AVAILABLE HOUSING TYPES

AS01SQFNC - New Construction / 007 Max



AS01SQFIC - IC New Construction / 004 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 | 007 ¹ | 700 Lm | B1 | | | | | |
| | | | 927 | 2700K | | | | | | Expandable Bar Hangers |
| | | | 930 | 3000K | | | | | | |
| | | 935 | 3500K | | | | | | | |
| | | 940 | 4000K | | | | | | | |
| IC | IC New Construction | | 004 | 400 Lm | B0 | No Bar Hangers | | | | |
| | | | 927 | 2700K | | | | | | |
| | | | 930 | 3000K | | | | | | |
| | | | 935 | 3500K | | | | | | |
| | 940 | 4000K | Nominal Source Lumens | | | | | | | |

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 | PT Platinum Silver | WF White Flange |
| | FL Flood (34°) | PT Platinum Silver | CC Custom Color | For Use with Non-White Trim Finish |
| | | CC Custom Color | | |

EXAMPLE: AS01SQFNC927004/D41B1/DLSPMWMF

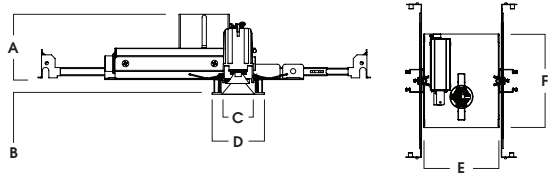
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



HOUSING DIMENSIONS

AS01SQFNC - 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.



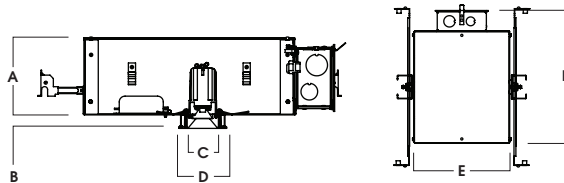
| A | B | C | D | E | F |
|---------|---------|---------|---------|----------|----------|
| 3.1 | .625 | 1.6 | 2.5 | 7.6 | 9.5 |
| 78.7 mm | 15.9 mm | 40.6 mm | 63.5 mm | 193.0 mm | 241.3 mm |

Fixture Weight: 2.7 lb

Ceiling Cutout: 2¹¹/₁₆"

AS01SQFIC - IC NEW CONSTRUCTION / 004 MAX

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



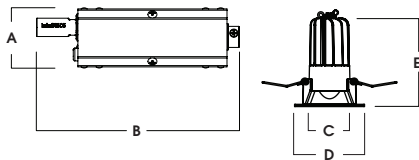
| A | B | C | D | E | F |
|----------|---------|---------|---------|----------|----------|
| 4.0 | 0.6 | 1.6 | 2.5 | 9.5 | 13.2 |
| 101.6 mm | 15.2 mm | 40.6 mm | 63.5 mm | 241.3 mm | 335.3 mm |

Fixture Weight: 4.2 lb

Ceiling Cutout: 2¹¹/₁₆"

AS01SQFRT - 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: 2¹¹/₁₆"

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



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) | | 51 FC per W/Sq. Ft. | | 48 FC per W/Sq. Ft. | |
| | 25° | 0° - 60° 510 99% | 10.0' | 24 fc | 4.1' | 11 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 | | | | | |
| | 35° | 0° - 80° 513 100% | 12.0' | 17 fc | 4.9' | 8 fc | | | | | | |
| | 45° | Downlight 514 100% | 14.0' | 12 fc | 5.7' | 6 fc | | | | | | |
| | 55° | Total 514 100% | 16.0' | 9 fc | 6.6' | 4 fc | | | | | | |
| | 90° | | | | | | | | | | | |

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) | | 45 FC per W/Sq. Ft. | | 41 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. - 5.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 * Average Footcandles at 2.5' Above Floor | | | | | |
| | 35° | 0° - 80° 440 100% | 12.0' | 10 fc | 5.8' | 5 fc | | | | | | |
| | 45° | Downlight 441 100% | 14.0' | 8 fc | 6.8' | 3 fc | | | | | | |
| | 55° | Total 441 100% | 16.0' | 6 fc | 7.8' | 3 fc | | | | | | |
| | 90° | | | | | | | | | | | |

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) | | 38 FC per W/Sq. Ft. | | 34 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. - 5.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 * Average Footcandles at 2.5' Above Floor | | | | | |
| | 35° | 0° - 80° 380 100% | 12.0' | 6 fc | 7.4' | 2 fc | | | | | | |
| | 45° | Downlight 382 100% | 14.0' | 4 fc | 8.6' | 2 fc | | | | | | |
| | 55° | Total 382 100% | 16.0' | 3 fc | 9.9' | 1 fc | | | | | | |
| | 90° | | | | | | | | | | | |

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 935 004 DL SP MW xx

| CANDLEPOWER CURVE TEST SP-00830_M-4L | 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° 105 36% | 5.5' | 46 fc | 2.3' | 21 fc | 9' | 2' | 69 | 1.04 | 57 | 0.92 |
| | 0° | 0° - 20° 229 78% | 6.5' | 33 fc | 2.7' | 15 fc | 12' | 3' | 32 | 0.49 | 27 | 0.43 |
| | 5° | 0° - 30° 275 94% | 7.5' | 24 fc | 3.1' | 12 fc | 16' | 4' | 16 | 0.24 | 13 | 0.21 |
| | 15° | 0° - 40° 286 97% | 8.5' | 19 fc | 3.5' | 9 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 25° | 0° - 60° 291 99% | 10.0' | 14 fc | 4.1' | 6 fc | Recessed mounting | | | | | |
| | 35° | 0° - 80° 293 100% | 12.0' | 10 fc | 4.9' | 4 fc | Square rooms used for multiple units: | | | | | |
| | 45° | Downlight 294 100% | 14.0' | 7 fc | 5.7' | 3 fc | RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 | | | | | |
| | 55° | Total 294 100% | 16.0' | 5 fc | 6.6' | 3 fc | RCR 6: Length & Width = Ceiling Ht. - 5.5' x 1.66 | | | | | |
| | 90° | | | | | | * Average Footcandles at 2.5' Above Floor | | | | | |
| | | | | | | | | | | | | |

Delivered Lumens: 294
Luminaire Watts: 4.3
LER: 68.37

CRI: 90+

Beam Angle: 23°
Spacing Ratio: 0.39

Lumen Multiplier: N/A
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

AS01SQ IC 935 004 DL NF MW xx

| CANDLEPOWER CURVE TEST SP-00829_M-4L | 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° 68 27% | 5.5' | 28 fc | 2.7' | 13 fc | 9' | 3' | 26 | 0.45 | 22 | 0.41 |
| | 0° | 0° - 20° 169 67% | 6.5' | 20 fc | 3.2' | 9 fc | 12' | 4' | 16 | 0.27 | 16 | 0.30 |
| | 5° | 0° - 30° 221 88% | 7.5' | 15 fc | 3.6' | 7 fc | 16' | 5' | 10 | 0.17 | 8 | 0.15 |
| | 15° | 0° - 40° 240 95% | 8.5' | 12 fc | 4.1' | 5 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 25° | 0° - 60° 250 99% | 10.0' | 8 fc | 4.9' | 4 fc | Recessed mounting | | | | | |
| | 35° | 0° - 80° 252 100% | 12.0' | 6 fc | 5.8' | 3 fc | Square rooms used for multiple units: | | | | | |
| | 45° | Downlight 252 100% | 14.0' | 4 fc | 6.8' | 2 fc | RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 | | | | | |
| | 55° | Total 252 100% | 16.0' | 3 fc | 7.8' | 2 fc | RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 | | | | | |
| | 90° | | | | | | * Average Footcandles at 2.5' Above Floor | | | | | |
| | | | | | | | | | | | | |

Delivered Lumens: 252
Luminaire Watts: 4.3
LER: 58.60

CRI: 90+

Beam Angle: 27°
Spacing Ratio: 0.45

Lumen Multiplier: N/A
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

AS01SQ IC 935 004 DL FL MW xx

| CANDLEPOWER CURVE TEST SP-00828_M-4L | 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° 40 18% | 5.5' | 15 fc | 3.4' | 7 fc | 9' | 4' | 11 | 0.23 | 10 | 0.23 |
| | 0° | 0° - 20° 114 52% | 6.5' | 11 fc | 4.0' | 5 fc | 12' | 5' | 8 | 0.15 | 8 | 0.19 |
| | 5° | 0° - 30° 172 79% | 7.5' | 8 fc | 4.6' | 4 fc | 16' | 6' | 5 | 0.10 | 4 | 0.09 |
| | 15° | 0° - 40° 201 92% | 8.5' | 6 fc | 5.2' | 3 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 25° | 0° - 60° 215 99% | 10.0' | 5 fc | 6.2' | 2 fc | Recessed mounting | | | | | |
| | 35° | 0° - 80° 217 100% | 12.0' | 3 fc | 7.4' | 1 fc | Square rooms used for multiple units: | | | | | |
| | 45° | Downlight 218 100% | 14.0' | 2 fc | 8.6' | 1 fc | RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 | | | | | |
| | 55° | Total 218 100% | 16.0' | 2 fc | 9.9' | 1 fc | RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 | | | | | |
| | 90° | | | | | | * Average Footcandles at 2.5' Above Floor | | | | | |
| | | | | | | | | | | | | |

Delivered Lumens: 218
Luminaire Watts: 4.3
LER: 50.70

CRI: 90+

Beam Angle: 34°
Spacing Ratio: 0.55

Lumen Multiplier: N/A
CCT Multiplier: 927 x 0.96, 930 x 0.99, 940 x 1.02

