

202-S/202-S-BV NEW CONSTRUCTION ADJUSTABLE LED
FLS-2/FLS-2-BV TRIMS
NON-IC/IC-CP RATED HOUSINGS

Project Name	
Date	Type
Prepared By	
Comments	
Catalog #	- - - / / - - - / -



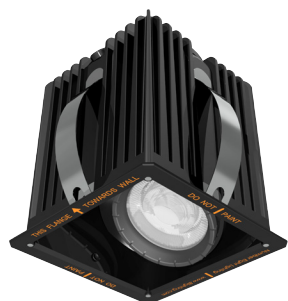
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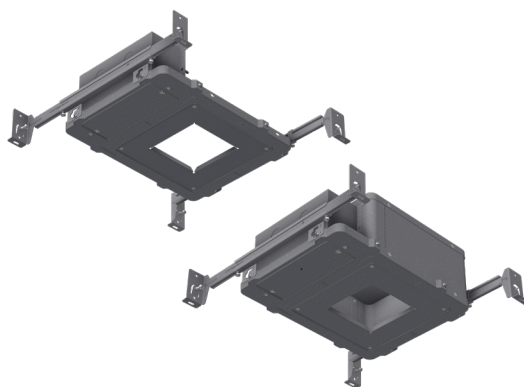
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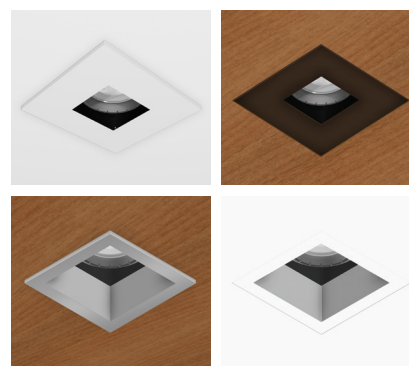
PRODUCT FEATURES



202-S/202-S-BV
 SQUARE ADJUSTABLE LIGHT ENGINE



200 SERIES HOUSINGS
 TYPE NON-IC or IC-CP RATED for SQUARE TRIMS



200 SERIES TRIMS
 FLANGED or FLANGELESS

202-S/202-S-BV SPECIFICATION SUMMARY

	Static White				Warm Dimming		
LED Option	HI-27	HI-30	HI-35	HI-40	WD-5	WD-6	WD-7
Delivered Lumens	1152	1197	1225	1253	978	952	996
System Wattage	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Efficacy	87	90	92	94	73	71	74
CRI	93+	93+	93+	93+	92+	92+	92+
R9	66	68	73	70	78	67	71
CCT	2700K	3000K	3500K	4000K	3000-1800K	2800-2200K	3000-2200K
Color Consistency	2-Step				3-Step		
Optic Options	15, 25, 40, 60				15-NSP-WD, 25-NSP-WD, 40-NSP-WD, 60-NSP-WD		
Optical Accessories	Narrow, Medium, Wide, Extra Wide, Linear Spread				N/A		
Adjustability	0-30° Tilt, 360° Rotation						
Driver Options	<1/5% Forward/Reverse Phase (120v), 0.1/1/5% 0-10v (120-277v), 0.1/1% DALI (120-277v), 0.1/1% EcoSystem (120 or 277v)						
Trim Options	Square Flat, Square Bevel						
Finish Options	White, Oil-Rubbed Bronze, Satin Aluminum, Satin Aluminum w/ White Flange						
Trim Mounting Options	Flanged, Flangeless Sheetrock, Flangeless Wood						
Trim Accessories	UL Wet Listed Lens Options - Clear, Soft Focus						
Housing Options	New Construction: Type Non-IC Air-Tight, Type IC-CP Rated CCEA Approved Air-Tight						

Performance data shown with FLS-2-BV Trim and 60° or 60-NSP-WD optic options.
 Warm Dimming data shown for 3000K and 2800K.
 See Performance Summaries for additional information.

PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

LIGHT ENGINE OPTIONS	-	LED OPTIONS	-	OPTIC OPTIONS	-	OPTICAL ACCESSORIES (Optional)*	/	DRIVER OPTIONS	/
 202-S Adjustable NEW CONSTRUCTION AIRTIGHT Light Engine with 0-30° tilt and 360° rotation for SQUARE FLAT trim 202-S-BV Adjustable NEW CONSTRUCTION AIRTIGHT Light Engine with 0-30° tilt and 360° rotation for SQUARE BEVEL trim		HI-27 2700K 93+ CRI White HI-30 3000K 93+ CRI White HI-35 3500K 93+ CRI White HI-40 4000K 93+ CRI White WD-5 3000-1800K 92+ CRI Warm Dim WD-6 2800-2200K 92+ CRI Warm Dim WD-7 3000-2200K 92+ CRI Warm Dim		15* Narrow Spot 25* Narrow Flood 40* Flood 60* Wide Flood 15-NSP-WD† Spot 25-NSP-WD† Narrow Flood 40-NSP-WD† Flood 60-NSP-WD† Wide Flood *For use with HI LED options. †For use with WD LED options.		NSP Narrow Softening Lens NFL Medium Softening Lens FL Wide Softening Lens WFL Extra Wide Softening Lens LS Linear Spread Softening Lens *For use with HI LED options.		PR1-2 Premium Forward or Reverse-Phase <1% Dimming DIM3-2 Forward or Reverse-Phase 5% Dimming DIM4-2 0-10v 5% Dimming EL1-2 EldoLED 0-10v 1% Dimming EL1-01-2 EldoLED 0-10v 0.1% Dimming EL2-2 EldoLED DALI 1% Dimming EL2-01-2 EldoLED 0.1% DALI Dimming LU2-2 Lutron Hi-Lume LDE1 EcoSystem 1% Dimming LU4-2 Lutron Hi-Lume PEQOE EcoSystem 0.1% Dimming	

TRIM OPTIONS	-	TRIM FINISH	-	TRIM MOUNTING ACCESSORIES (Optional)	-	TRIM ACCESSORIES (Optional)	/	HOUSING OPTIONS	-	MOUNTING OPTIONS
 FLS-2 4-1/4" SQUARE FLAT trim with 1-7/8" aperture  FLS-2-BV 4-1/4" SQUARE BEVEL trim with 2-1/4" aperture		WH WHITE OB* OIL-RUBBED BRONZE SA*† SATIN ALUMINUM SAWH*† SATIN ALUMINUM with WHITE flange *Specialty finish. †Not available with FLAT trim option.		 FS-2* SQUARE FLANGELESS trim accessory for flush mounting FLS-2, FLS-2-BV, or FLS-2-WW trims in sheetrock ceiling applications *For use with NIC-FS or IC-CP-FS housing options only.		CL2* CLEAR lens SF2* SOFT FOCUS lens *UL Wet listed.		NIC-S Type Non-IC for SQUARE flanged trim applications NIC-FS* Type Non-IC for SQUARE flange- less trim in sheetrock applications NIC-FS-W Type Non-IC for SQUARE flangeless trim in wood/stone applications IC-CP-2-S Type IC Chicago Plenum Rated for SQUARE flanged trim ap- plications IC-CP-2-FS* Type IC Chicago Plenum Rated for SQUARE flangeless trim in sheetrock applications IC-CP-2-FS-W Type IC Chicago Plenum Rated for SQUARE flangeless trim in wood/stone applications *Requires FS-2 flangeless trim accessory.		BH Bar Hangers for joist mounting BB Butterfly Brackets for c-channel or bar mounting TBC-BH T-Bar Mounting Clips + Bar Hangers for T-Bar mounting PMB Panel Mounting Brackets (set of two) for direct mounting to wood panels

Light Engine, LED, Optic Option, and Accessory Notes

202-S / 202-S-BV Adjustable NEW CONSTRUCTION light engine with 0-30° tilt and 360° rotation for SQUARE FLAT or BEVEL trim. Light engine meets Washington State Airtight Standard WAC 51-11-0502 and in accordance with ASTM E283 to reduce energy loss. Use for adjustable accent and general lighting applications. To ensure fixture to fixture color consistency, use of the same LED option with adjacent fixtures is recommended. One field interchangeable optic option included standard. Up to one additional optical accessory can be accommodated.

Driver and Output Option Notes

0-10v driver options are configured for linear control. DALI driver options are configured for logarithmic control. No.8 Lighting conducts extensive testing to establish compatibility with many dimmer types. For a complete list of compatible dimmers, see 8lighting.com/resources-downloads. Outputs vary depending on LED type, trim type, and optical accessories used. For photometric files in PDF and IES formats, see: 8lighting.com/200-series-photometry.

Trim Finish and Accessory Notes

White trim finish is field paintable to match ceiling color. Lot variations may occur with specialty finishes. Ordering ALL trim kits at the same time is recommended to minimize finish variations. Trim lens accessories are factory installed into trim plates and are UL WET LISTED and rated for use in DRY, DAMP, or WET locations (covered ceiling applications only). Approved for use in residential steam applications. Not for use in commercial steam applications.

Housing and Installation Notes

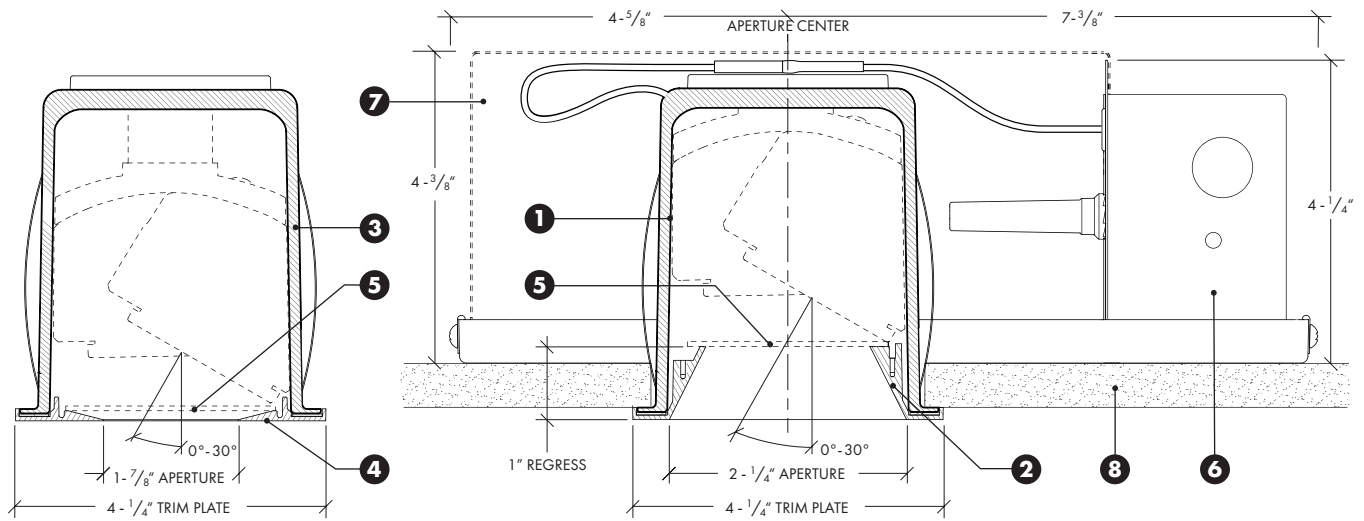
Type Non-IC housings are rated for installations where insulation is held back a minimum of 3" away from sides and top. Type IC-CP housings are rated for direct contact with standard or spray-foam thermal insulation with a max combined R-Value of R42. Type IC-CP housings meet Washington State Airtight Standard WAC 51-11-0502 and in accordance with ASTM E283 to reduce energy loss and are CCEA plenum rated for City of Chicago environmental air spaces. For installations in direct contact with thermal insulation, ambient temperatures in ceiling space should not exceed 25°C (77°F) during normal operation. For installations where insulation is held back a minimum of 3" from sides and top, ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

Warranty

All No. 8 Lighting products are covered by a 5 year limited warranty. Products installed in residential steam applications are covered by a 2 year limited warranty. For specific warranty details and limitations, see: 8lighting.com/resources-downloads.

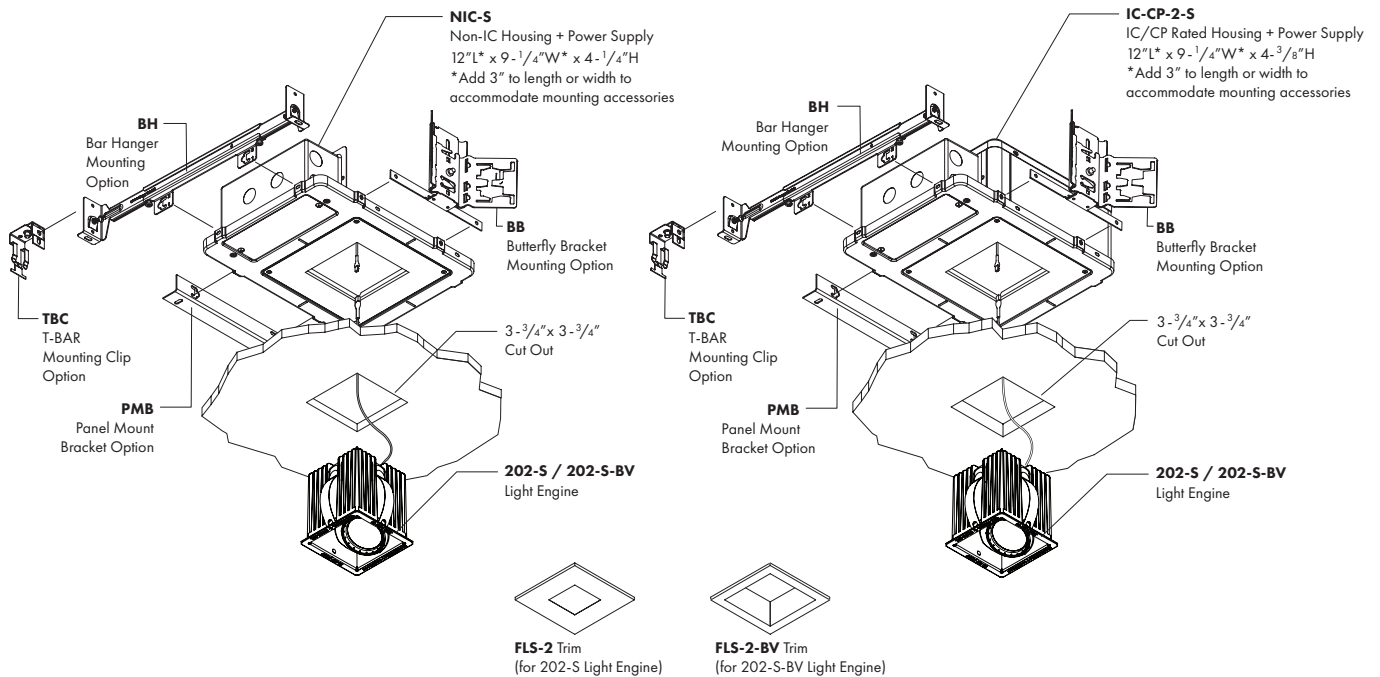
JAB-2025 CA Title 24 Compliant except with Type Non-IC housing options:
NIC-S, NIC-FS, and NIC-FS-W.

202-S/202-S-BV + NIC-S and IC-CP-2-S NEW CONSTRUCTION HOUSINGS with FLANGED TRIM INSTALLATION



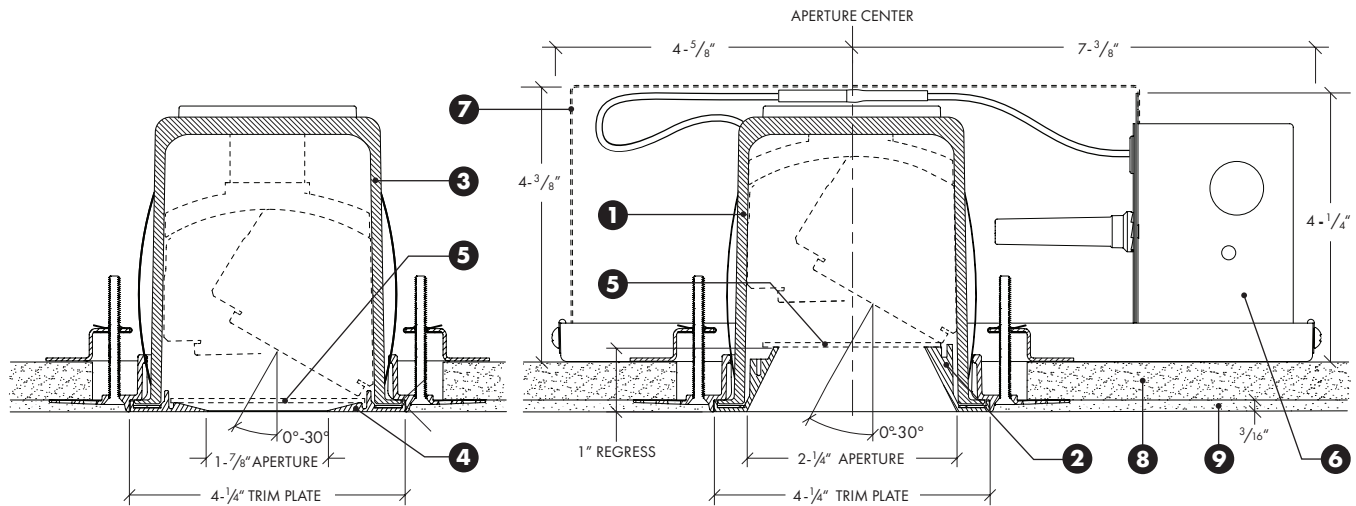
- 1) **202-S-BV** Adjustable SQUARE Light Engine for BEVEL Trim.
- 2) **FLS-2-BV** Flanged SQUARE BEVEL Trim.
- 3) **202-S** Adjustable SQUARE Light Engine for FLAT Trim.
- 4) **FLS-2** Flanged SQUARE FLAT Trim.
- 5) **CL2/SF2** (Optional) Clear or Soft Focus lens rated for use in DRY, DAMP, or WET locations (covered ceiling applications only).
- 6) **NIC-S** Type Non-IC housing and power supply for SQUARE Light Engine and FLANGED Trim installation.
- 7) **IC-CP-2-S** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for SQUARE Light Engine and FLANGED Trim installation.
- 8) **Ceiling Material** (Sheetrock/Wood/Stone/Acoustic Tile) Accommodates ceiling thicknesses from 1/2" (min) to 1-1/2" (max) without affecting aiming or rotation.

202-S/202-S-BV + NIC-S and IC-CP-2-S NEW CONSTRUCTION HOUSINGS with FLANGED TRIM INSTALLATION



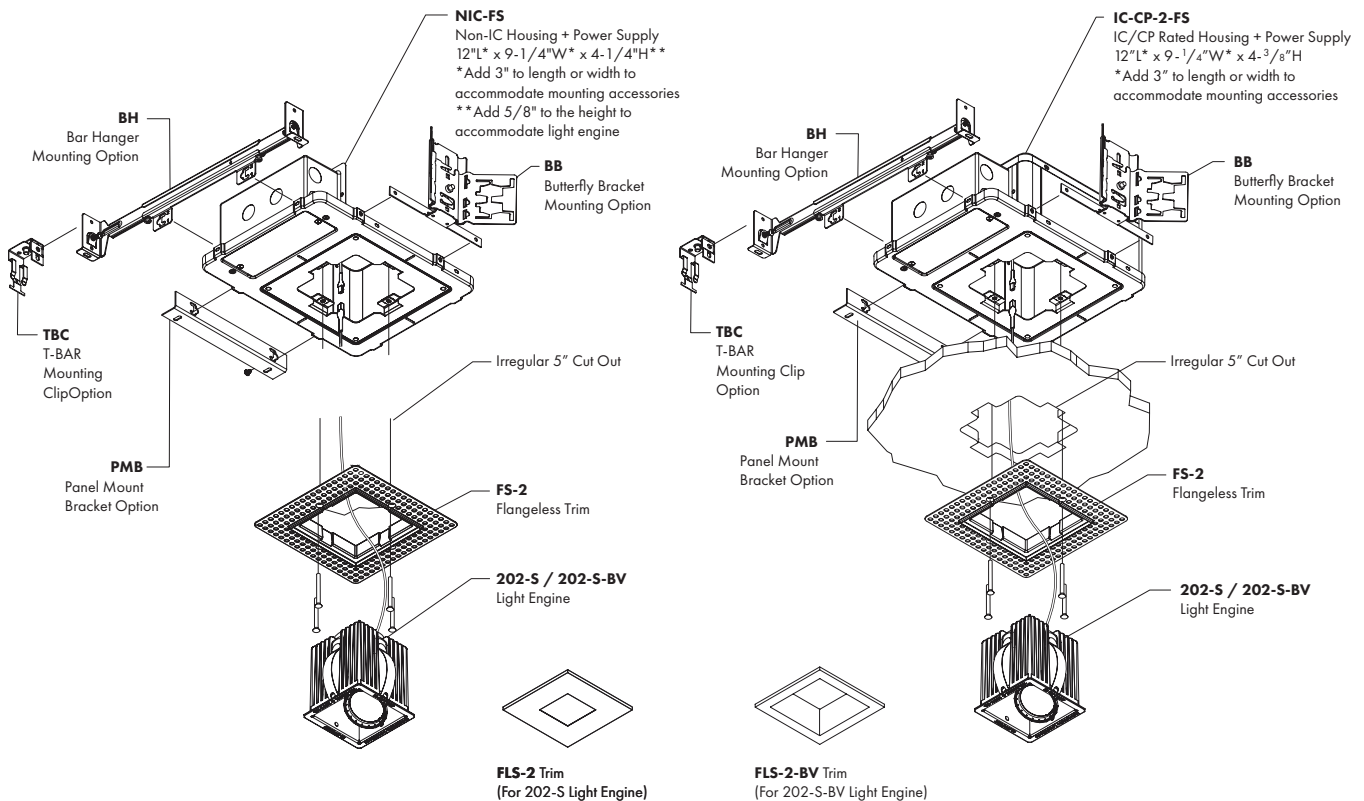
CEILING TYPES: Sheetrock, Wood, Stone & Acoustic Tile | **CEILING THICKNESS:** 1/2" Min to 1-1/2" Max | **CUT-OUT:** 3-3/4" x 3-3/4"

202-S/202-S-BV + NIC-FS and IC-CP-2-FS with FLANGELESS TRIM INSTALLATION for SHEETROCK CEILINGS



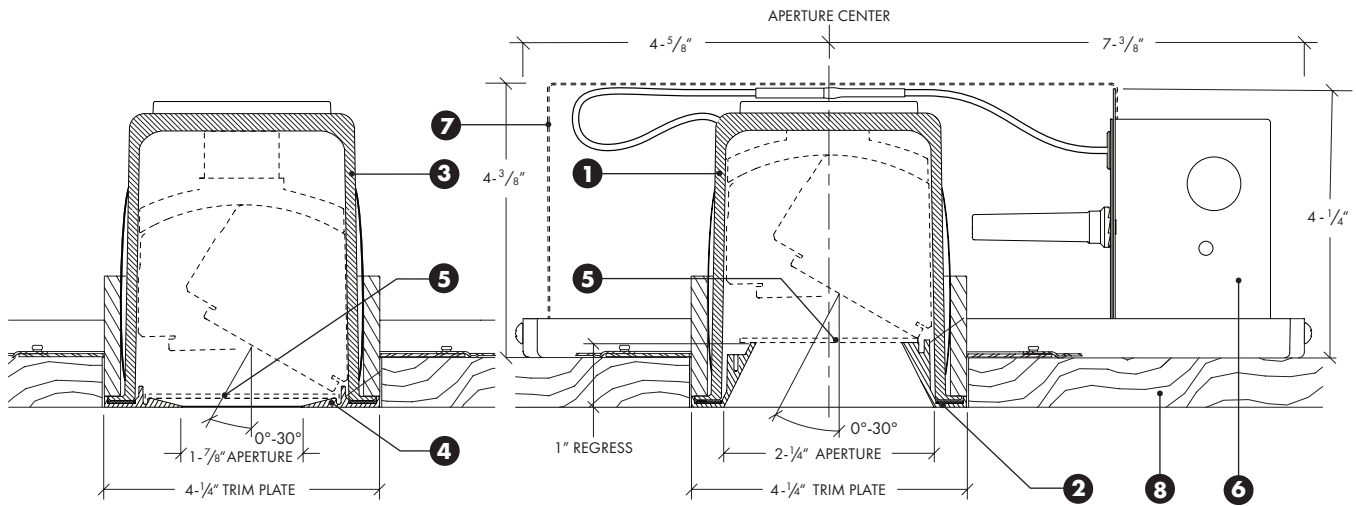
- 1) **202-S-BV** Adjustable SQUARE Light Engine for BEVEL Trim.
- 2) **FLS-2-BV** SQUARE BEVEL Trim + **FS-2** SQUARE FLANGELESS Trim accessory.
- 3) **202-S** Adjustable SQUARE Light Engine for FLAT Trim.
- 4) **FLS-2** SQUARE FLAT Trim + **FS-2** SQUARE FLANGELESS Trim accessory.
- 5) **CL2/SF2** (Optional) Clear or Soft Focus lens rated for use in DRY, DAMP, or WET locations (covered ceiling applications only).
- 6) **NIC-FS** Type Non-IC housing and power supply for SQUARE Light Engine and FLANGELESS Trim in sheetrock ceiling applications.
- 7) **IC-CP-2-FS** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for SQUARE Light Engine and FLANGELESS Trim in sheetrock ceiling applications.
- 8) **Ceiling Material** (Sheetrock) Accommodates ceiling thicknesses from 1/2" (min) to 1 - 1/2" (max) without affecting aiming or rotation.
- 9) **Ceiling Finish** (Drywall Compound or Plaster) Accommodates 3/16" finish thickness. Minimum level 4 or 5 finish recommended.

202-S/202-S-BV + NIC-FS and IC-CP-2-FS with FLANGELESS TRIM INSTALLATION for SHEETROCK CEILINGS



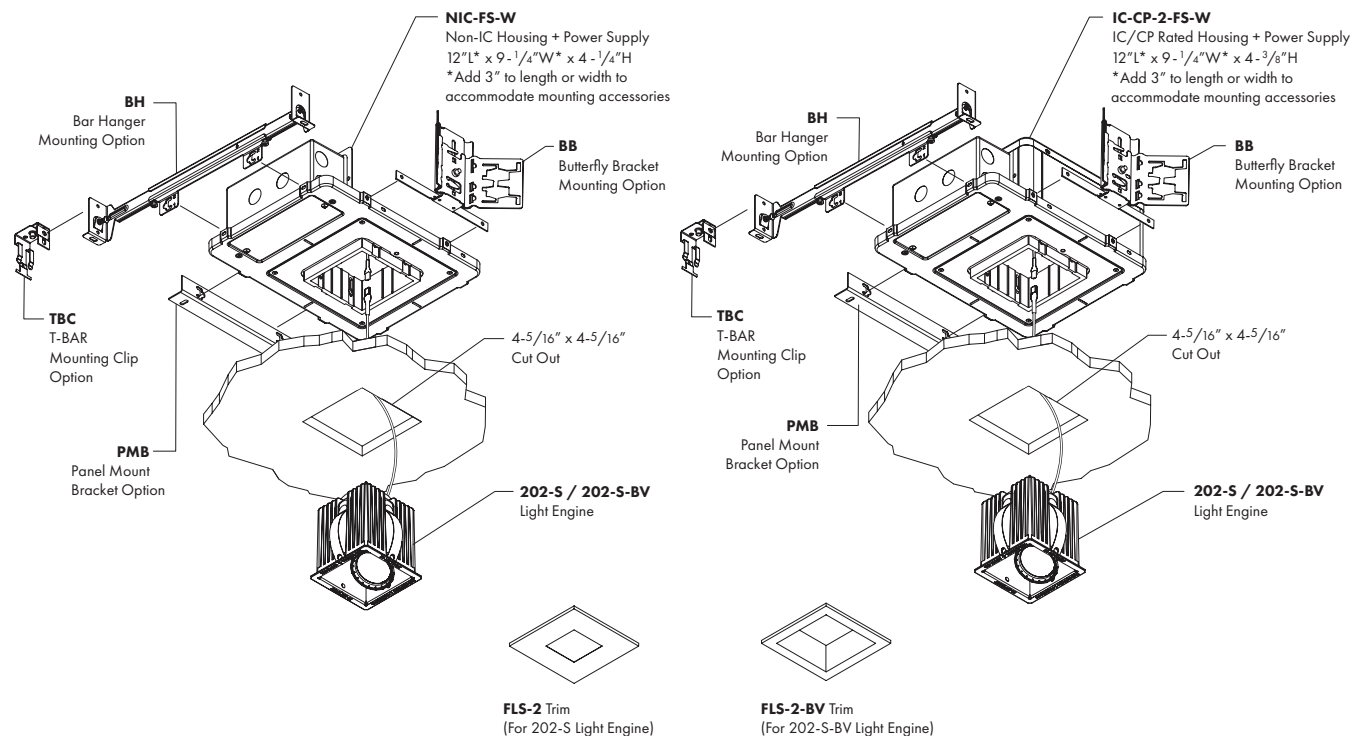
CEILING TYPES: Sheetrock | **CEILING THICKNESS:** 1/2" Min to 1-1/2" Max | **CUT-OUT:** 5" Irregular

202-S/202-S-BV + NIC-FS-W and IC-CP-2-FS-W with FLANGELESS TRIM INSTALLATION for WOOD/STONE CEILINGS



- 1) **202-S-BV** Fixed SQUARE Light Engine for BEVEL Trim.
- 2) **FLS-2-BV** SQUARE BEVEL Trim.
- 3) **202-S** Adjustable SQUARE Light Engine for FLAT Trim.
- 4) **FLS-2** SQUARE FLAT Trim.
- 5) **CL2/SF2** (Optional) Clear or Soft Focus lens rated for use in DRY, DAMP, or WET locations (covered ceiling applications only).
- 6) **NIC-FS-W** Type Non-IC housing and power supply for SQUARE Light Engine and FLANGELESS Trim in wood/stone ceiling applications.
- 7) **IC-CP-2-FS-W** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for SQUARE Light Engine and FLANGELESS Trim in wood/stone ceiling applications.
- 8) **Ceiling Material** (Wood/Stone) Accommodates ceiling thicknesses from 1/2" (min) to 1-1/2" (max) without affecting aiming or rotation.

202-S/202-S-BV + NIC-FS-W and IC-CP-2-FS-W with FLANGELESS TRIM INSTALLATION for WOOD/STONE CEILINGS



CEILING TYPES: Wood/Stone | CEILING THICKNESS: 1/2" Min to 1-1/2" Max | CUT-OUT: 4-5/16" x 4-5/16"

202-S-BV w/ FLS-2-BV TRIM - PERFORMANCE SUMMARY

LED	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	2700K	93+	66	941 - 1152	13.5	71 - 87
HI-30	3000K	93+	68	978 - 1197	13.5	74 - 90
HI-35	3500K	93+	73	1001 - 1225	13.5	76 - 92
HI-40	4000K	93+	70	1024 - 1253	13.5	77 - 94
WD-5	3000-1800K	92+	80	824 - 978	13.5	61 - 73
WD-6	2800-2200K	92+	67	790 - 952	13.5	59 - 71
WD-7	3000-2200K	92+	69	836 - 996	13.5	62 - 74

Performance range for **HI** LED with 15°, 25°, 40°, and 60° optic options.

Performance range for **WD-5** and **WD-7** LED at 3000K and **WD-6** LED at 2800K with 15-NSP-WD, 25-NSP-WD, 40-NSP-WD, and 60-NSP-WD optic options.

202-S-BV w/ FLR-S-BV TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

HI-27, HI-30, HI-35 & HI-40 LED							WD-5, WD-6, & WD-7 LED	
OPTIC OPTIONS	BEAM ANGLE	BEAM ENHANCING LENS (OPTIONAL)*					OPTIC OPTIONS	BEAM ANGLE
		+ NSP	+ NFL	+ FL	+ WFL	+ LS		
15 Narrow Spot	20°	22°	30°	46°	60°	21 x 39°	15-NSP-WD Spot	20°
25 Narrow Flood	29°	29°	35°	53°	64°	28 x 46°	25-NSP-WD Narrow Flood	28°
40 Flood	35°	37°	40°	n/a	n/a	n/a	40-NSP-WD Flood	37°
60 Wide Flood	58°	59°	60°	n/a	n/a	n/a	60-NSP-WD Wide Flood	59°

*Beam enhancing lens used in combination with **HI** LED option and 15°, 25°, 40°, or 60° optic to achieve desired beam spread (**HI** LED only)

202-S-BV w/ FLS-2-BV TRIM - CONE OF LIGHT DIAGRAMS

202-S-BV-HI-30 w/ FLS-2-BV 2-1/4" APERTURE TRIM

15° - Narrow Spot	25° - Narrow Flood	40° - Flood	60° - Wide Flood
2 ft - 1,546 fc	2ft - 865 fc	2ft - 694 fc	2ft - 354 fc
4 ft - 387 fc	4ft - 216 fc	4ft - 173 fc	4ft - 88 fc
6 ft - 172 fc	6ft - 96 fc	6ft - 77 fc	6ft - 39 fc
8 ft - 97 fc	8ft - 54 fc	8ft - 43 fc	8ft - 22 fc
10 ft - 62 fc	10ft - 35 fc	10ft - 28 fc	10ft - 14 fc
CBCP: 6,185 cd	CBCP: 3,461 cd	CBCP: 2,775 cd	CBCP: 1,431 cd

202-S-BV-WD-5 w/ FLS-2-BV 2-1/4" APERTURE TRIM

15-NSP-WD - Spot	25-NSP-WD - Narrow Flood	40-NSP-WD - Flood	60-NSP-WD - Wide Flood
2 ft - 1,231 fc	2ft - 726 fc	2ft - 523 fc	2ft - 277 fc
4 ft - 308 fc	4ft - 181 fc	4ft - 131 fc	4ft - 69 fc
6 ft - 137 fc	6ft - 81 fc	6ft - 58 fc	6ft - 31 fc
8 ft - 77 fc	8ft - 45 fc	8ft - 33 fc	8ft - 17 fc
10 ft - 49 fc	10ft - 29 fc	10ft - 21 fc	10ft - 11 fc
CBCP: 4,923 cd	CBCP: 2,902 cd	CBCP: 2,091 cd	CBCP: 1,117 cd

Performance shown for 3000K. Output varies by CCT.

202-S w/ FLS-2 TRIM - PERFORMANCE SUMMARY

LED	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	2700K	93+	66	824 - 1011	13.5	63 - 76
HI-30	3000K	93+	67	857 - 1151	13.5	65 - 79
HI-35	3500K	93+	73	877 - 1076	13.5	67 - 81
HI-40	4000K	93+	70	897 - 1100	13.5	68 - 83
WD-5	3000-1800K	92+	80	725 - 842	13.5	54 - 63
WD-6	2800-2200K	92+	67	708 - 823	13.5	52 - 61
WD-7	3000-2200K	92+	69	748 - 870	13.5	55 - 65

Performance range for **HI** LED with 15°, 25°, 40°, and 60° optic options.

Performance range for **WD-5** and **WD-7** LED at 3000K and **WD-6** LED at 2800K with 15-NSP-WD, 25-NSP-WD, 40-NSP-WD, and 60-NSP-WD optic options.

202-S w/ FLR-S TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

HI-27, HI-30, HI-35 & HI-40 LED							WD-5, WD-6, & WD-7 LED	
OPTIC OPTIONS	BEAM ANGLE	BEAM ENHANCING LENS (OPTIONAL)*					OPTIC OPTIONS	BEAM ANGLE
		+ NSP	+ NFL	+ FL	+ WFL	+ LS		
15 Narrow Spot	19°	21°	27°	39°	51°	20 x 35°	15-NSP-WD Spot	19°
25 Narrow Flood	28°	28°	32°	46°	56°	27 x 42°	25-NSP-WD Narrow Flood	27°
40 Flood	35°	36°	38°	n/a	n/a	n/a	40-NSP-WD Flood	36°
60 Wide Flood	53°	55°	56°	n/a	n/a	n/a	60-NSP-WD Wide Flood	55°

*Beam enhancing lens used in combination with **HI** LED option and 15°, 25°, 40°, or 60° optic to achieve desired beam spread (**HI** LED only)

202-S w/ FLS-2 TRIM - CONE OF LIGHT DIAGRAMS

202-S-HI-30 w/ FLS-2 1-7/8" APERTURE TRIM

15° - Narrow Spot	25° - Narrow Flood	40° - Flood	60° - Wide Flood
2 ft - 1,473 fc	2ft - 842 fc	2ft - 689 fc	2ft - 366 fc
4 ft - 368 fc	4ft - 211 fc	4ft - 172 fc	4ft - 91 fc
6 ft - 164 fc	6ft - 94 fc	6ft - 77 fc	6ft - 41 fc
8 ft - 92 fc	8ft - 53 fc	8ft - 43 fc	8ft - 23 fc
10 ft - 59 fc	10ft - 34 fc	10ft - 28 fc	10ft - 15 fc
Ø0.7 ft	Ø1.0 ft	Ø1.2 ft	Ø2.0 ft
Ø1.4 ft	Ø2.0 ft	Ø2.5 ft	Ø4.0 ft
Ø2.0 ft	Ø3.0 ft	Ø3.7 ft	Ø6.0 ft
Ø2.7 ft	Ø4.1 ft	Ø5.0 ft	Ø8.0 ft
Ø3.4 ft	Ø5.1 ft	Ø6.2 ft	Ø10.0 ft
CBCP: 5,893 cd	CBCP: 3,369 cd	CBCP: 2,753 cd	CBCP: 1,469 cd

202-S-WD-5 w/ FLS-2 1-7/8" APERTURE TRIM

15-NSP-WD - Spot	25-NSP-WD - Narrow Flood	40-NSP-WD - Flood	60-NSP-WD - Wide Flood
2 ft - 1,229 fc	2ft - 703 fc	2ft - 523 fc	2ft - 277 fc
4 ft - 307 fc	4ft - 176 fc	4ft - 131 fc	4ft - 69 fc
6 ft - 137 fc	6ft - 78 fc	6ft - 58 fc	6ft - 31 fc
8 ft - 77 fc	8ft - 44 fc	8ft - 33 fc	8ft - 17 fc
10 ft - 49 fc	10ft - 28 fc	10ft - 21 fc	10ft - 11 fc
Ø0.7 ft	Ø1.0 ft	Ø1.3 ft	Ø2.1 ft
Ø1.3 ft	Ø1.9 ft	Ø2.6 ft	Ø4.1 ft
Ø2.0 ft	Ø2.9 ft	Ø3.9 ft	Ø6.2 ft
Ø2.6 ft	Ø3.9 ft	Ø5.2 ft	Ø8.2 ft
Ø3.3 ft	Ø4.8 ft	Ø6.5 ft	Ø10.3 ft
CBCP: 4,916 cd	CBCP: 2,814 cd	CBCP: 2,091 cd	CBCP: 1,110 cd

Performance shown for 3000K. Output varies by CCT.