

**200-HD-R NEW CONSTRUCTION ADJUSTABLE LED
FLR-2/FLR-2-BV/FLR-2-WW TRIMS
NON-IC/IC-CP RATED HOUSINGS**

Project Name	
Date	Type
Prepared By	
Comments	
Catalog # 200-HD- - - - / - /	
- - - / -	



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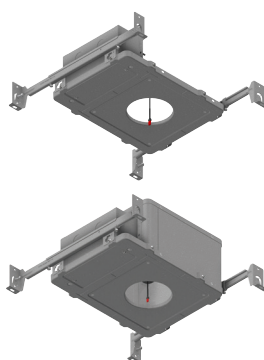
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Doc # 91413-13.9



PRODUCT FEATURES



200-HD-R
ROUND ADJUSTABLE LIGHT ENGINE



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



200 SERIES TRIMS
FLANGED or FLANGELESS

200-HD-R SPECIFICATION SUMMARY

	Static White - Non IC Rated				Static White - IC-Rated			
LED Option	HI-27	HI-30	HI-35	HI-40	HI-27	HI-30	HI-35	HI-40
Delivered Lumens	1872	953	1990	2052	1557	1624	1665	1707
System Wattage	26	26	26	26	19.5	19.5	19.5	19.5
Efficacy	71	75	76	78	79	82	84	87
CRI	94	94	94	94	94	94	94	94
R9	62	64	67	71	62	64	67	71
CCT	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Color Consistency	2-Step							
Optical Options	15, 25, 40, 60							
Optical Accessories	Narrow, Medium, Wide, Extra Wide, Linear Spread							
Adjustability	0-30° Tilt, 360° Rotation, Lockable							
Driver Options	1% 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	Round Flat, Round Bevel, Round Wall-Wash							
Finish Options	White, Oil-Rubbed Bronze, Satin Aluminum, Satin Aluminum w/ White Flange							
Trim Mounting Options	Flanged, Flangeless Sheetrock, Flangeless Wood/Stone							
Trim Accessories	UL Wet Listed Lens Options - Clear, Soft Focus							
Housing Options	New Construction: Type Non-IC, Type IC-CP Rated CCEA Approved Air-Tight							

Performance data shown with FLR-2-BV Trim.
See Performance Summaries for additional information.

200-HD-					
LIGHT ENGINE OPTIONS	LED OPTIONS	OPTIC OPTIONS	OPTICAL ACCESSORIES / (Optional)	DRIVER OPTIONS	OUTPUT
 Adjustable NEW CONSTRUCTION Light Engine with 0-30° tilt and 360° rotation for ROUND BEVEL, FLAT, or WALL WASH trim 200-HD-R For use with HI LED Options and NIC Housing Options 200-HD-IC-R For use with HI LED Options and IC-CP Housing Options	HI-27 2700K 94 CRI White HI-30 3000K 94 CRI White HI-35 3500K 94 CRI White HI-40 4000K 94 CRI White	15* Narrow Spot 25* Narrow Flood 40 Flood 60 Wide Flood *Not recommended for use with WALL WASH trim.	NSP Narrow Softening Lens NFL Medium Softening Lens FL Wide Softening Lens WFL Extra Wide Softening Lens LS Linear Spread Softening Lens	DIM1-2 Forward or Reverse-Phase 1% Dimming DIM2-2 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 DALI 0.1% Dimming LU2-2 Lutron Hi-Lume LDE1 EcoSystem 1% Dimming LU4-2* Lutron Hi-Lume PEQ0E EcoSystem 0.1% Dimming *Not available with 650 output option.	500 High output for HI LED and IC-CP Housing Options 650 High output for HI LED and NIC Housing Options
TRIM OPTIONS	TRIM FINISH	TRIM MOUNTING ACCESSORIES (Optional)	TRIM ACCESSORIES / (Optional)	HOUSING OPTIONS	MOUNTING OPTIONS
FLR-2 4-1/4" ROUND FLAT trim with 1-7/8" aperture FLR-2-BV 4-1/4" ROUND BEVEL trim with 2-1/4" aperture FLR-2-WW* 4-1/4" ROUND WALL WASH trim with 2-3/4" angle-cut aperture and wall wash lens *UL Wet listed. Use with 40° or 60° optic option.	WH WHITE OB* OIL-RUBBED BRONZE SA*† SATIN ALUMINUM SAWH*† SATIN ALUMINUM with WHITE flange *Specialty finish. †Not available with FLAT trim option.	FR-2* ROUND FLANGELESS trim accessory for flush mounting FLR-2, FLR-2-BV, or FLR-2-WW trims in sheetrock ceiling applications *For use with NIC-FR or IC-CP-FR housing options only.	CL2* CLEAR lens SF2* SOFT FOCUS lens *UL Wet listed. Not for use with FLR-2-WW trim options.	NIC-R* Type Non-IC for ROUND flanged trim applications NIC-FR*† Type Non-IC for ROUND flangeless trim in sheetrock applications NIC-FR-W* Type Non-IC for ROUND flangeless trim in wood/stone applications IC-CP-R** Type IC Chicago Plenum Rated for ROUND flanged trim applications IC-CP-FR**†† Type IC Chicago Plenum Rated for ROUND flangeless trim in sheetrock applications IC-CP-FR-W** Type IC Chicago Plenum Rated for ROUND flangeless trim in wood/stone applications *For use with 650 output option only. **For use with 500 output option only. † Requires FR-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

200-HD-R Adjustable NEW CONSTRUCTION light engine with 0-30° tilt and 360° rotation for ROUND BEVEL, FLAT, or WALL WASH trim. Use for adjustable accent, wall wash, 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

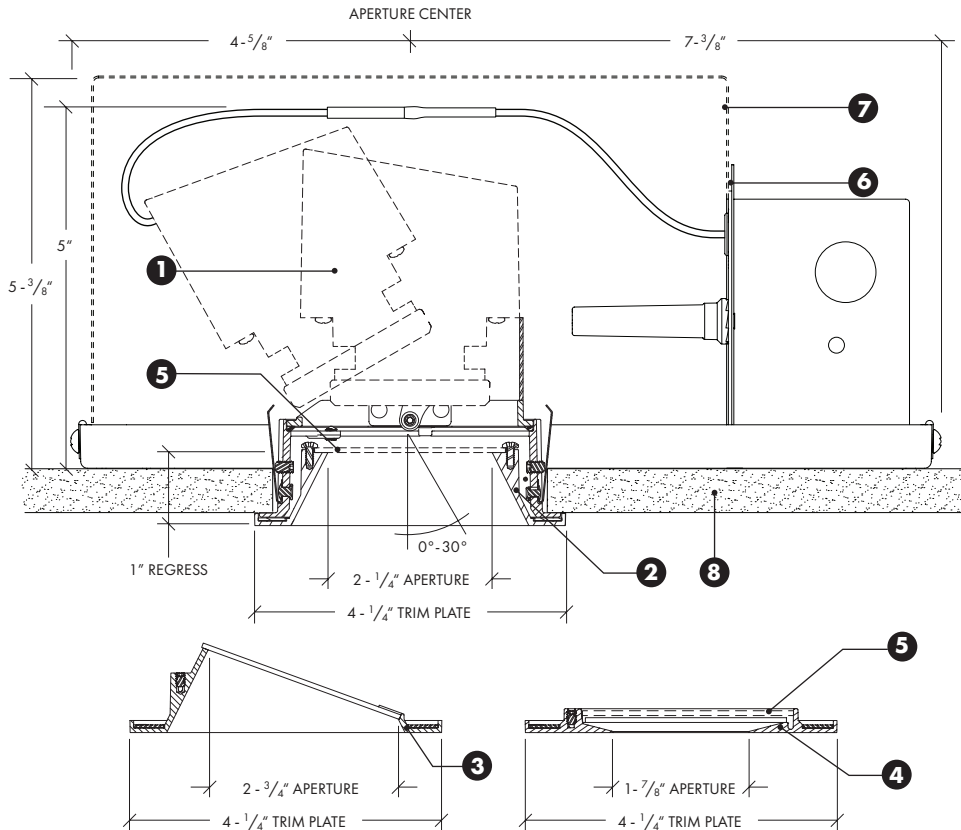
Type Non-IC housings are rated for installations where insulation is held back a minimum of 3" away from sides and top. Type IC-CP housings are rated for direct contact with standard or spray-foam thermal insulation with a max combined R-Value of R42. Type IC-CP housings meet Washington State Airtight 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.

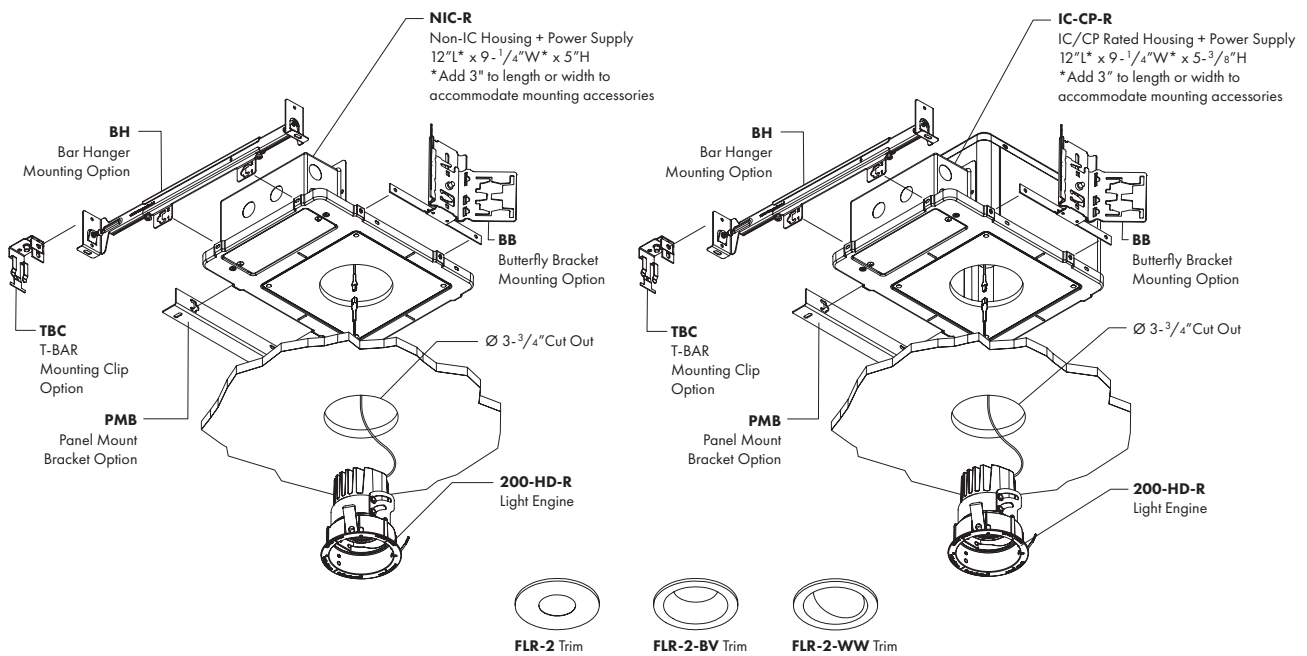
JAB-2025 CA Title 24 Compliant except with Type Non-IC housing options: **NIC-R**, **NIC-FR**, and **NIC-FR-W**.

200-HD-R + NIC-R and IC-CP-R NEW CONSTRUCTION HOUSINGS with FLANGED TRIM INSTALLATION



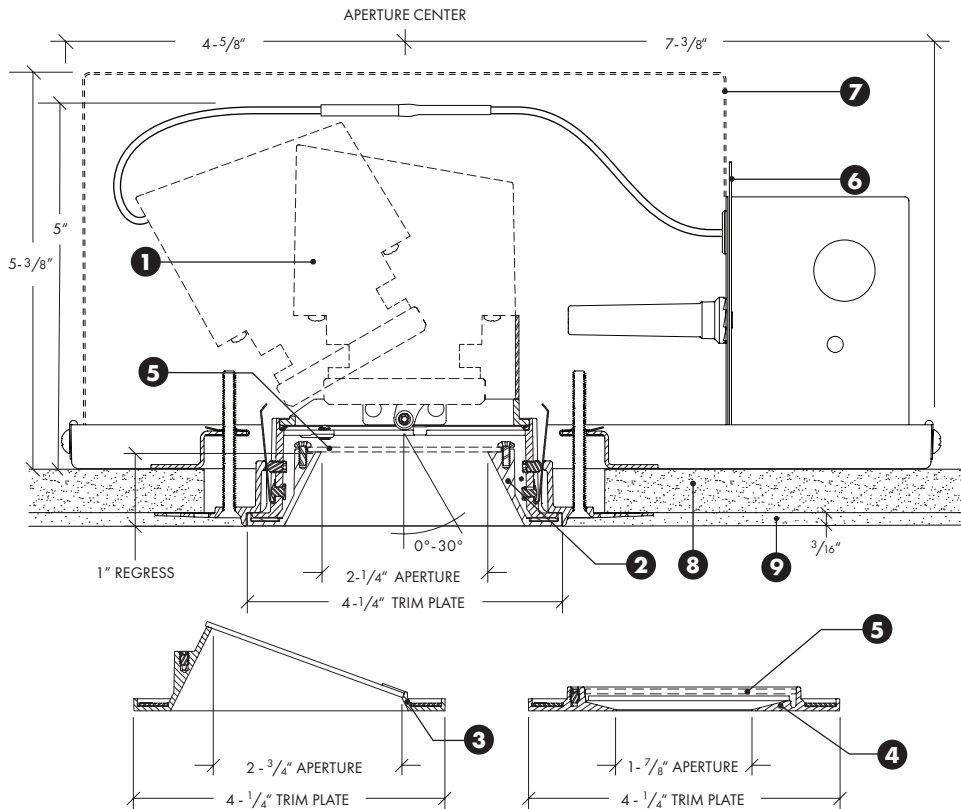
- 1) **200-HD-R** Adjustable ROUND Light Engine
- 2) **FLR-2-BV** Flanged ROUND BEVEL Trim
- 3) **FLR-2-WW** Flanged ROUND WALL WASH Trim
- 4) **FLR-2** Flanged ROUND FLAT Trim
- 5) **CL2/SF2** (Optional) Clear or Soft Focus lens rated for use in DRY, DAMP, or WET locations (covered ceiling applications only)
- 6) **NIC-R** Type Non-IC housing and power supply for ROUND light engine and FLANGED trim
- 7) **IC-CP-R** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for ROUND light engine and FLANGED trim
- 8) **Ceiling Material** (Sheetrock/Wood/Stone/Acoustic Tile) Accommodates ceiling thicknesses from 1/2" (min) to 1-1/4" (max) without affecting aiming or rotation

200-HD-R + NIC-R and IC-CP-R NEW CONSTRUCTION HOUSINGS with FLANGED TRIM INSTALLATION



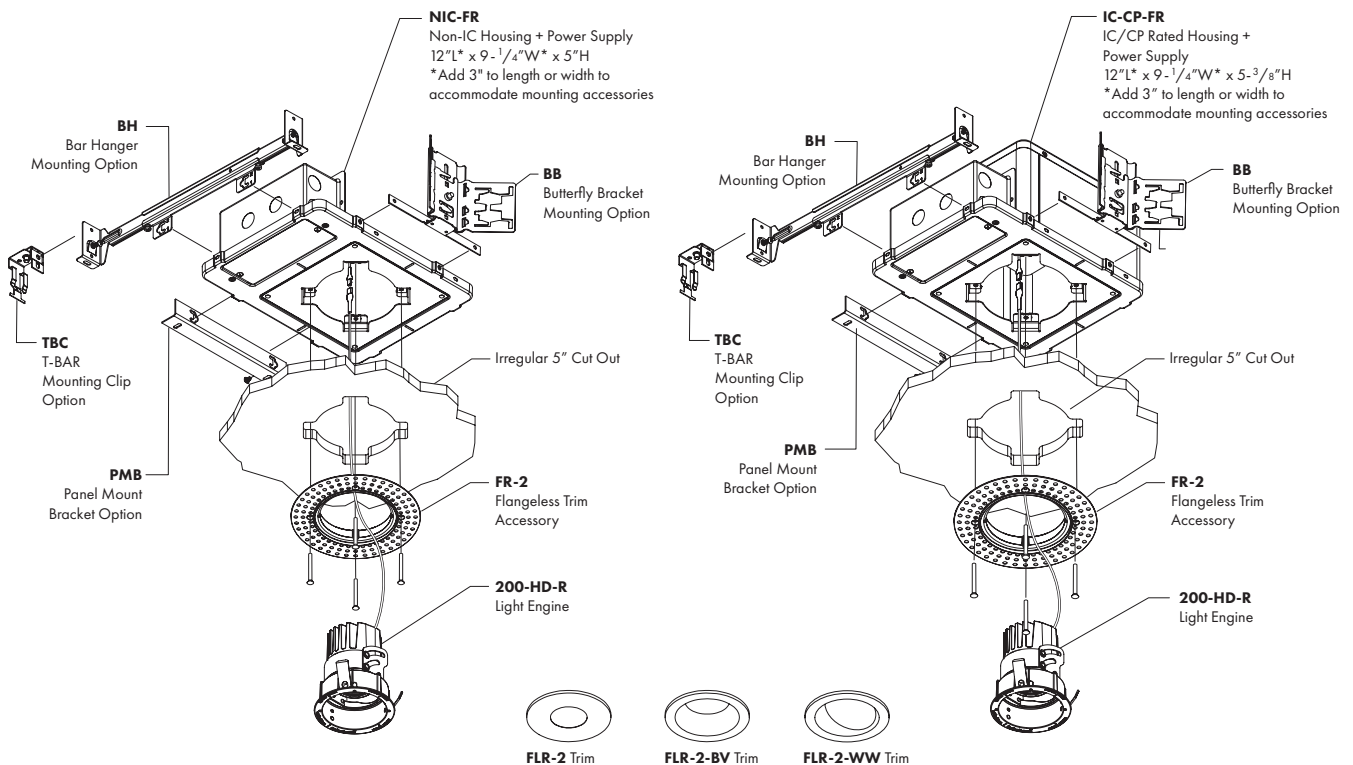
CEILING TYPES: Sheetrock, Wood, Stone & Acoustic Tile | **CEILING THICKNESS:** 1/2" Min to 1-1/4" Max | **CUT-OUT:** Ø 3-3/4"

200-HD-R + NIC-FR and IC-CP-FR with FLANGELESS TRIM INSTALLATION for SHEETROCK CEILINGS



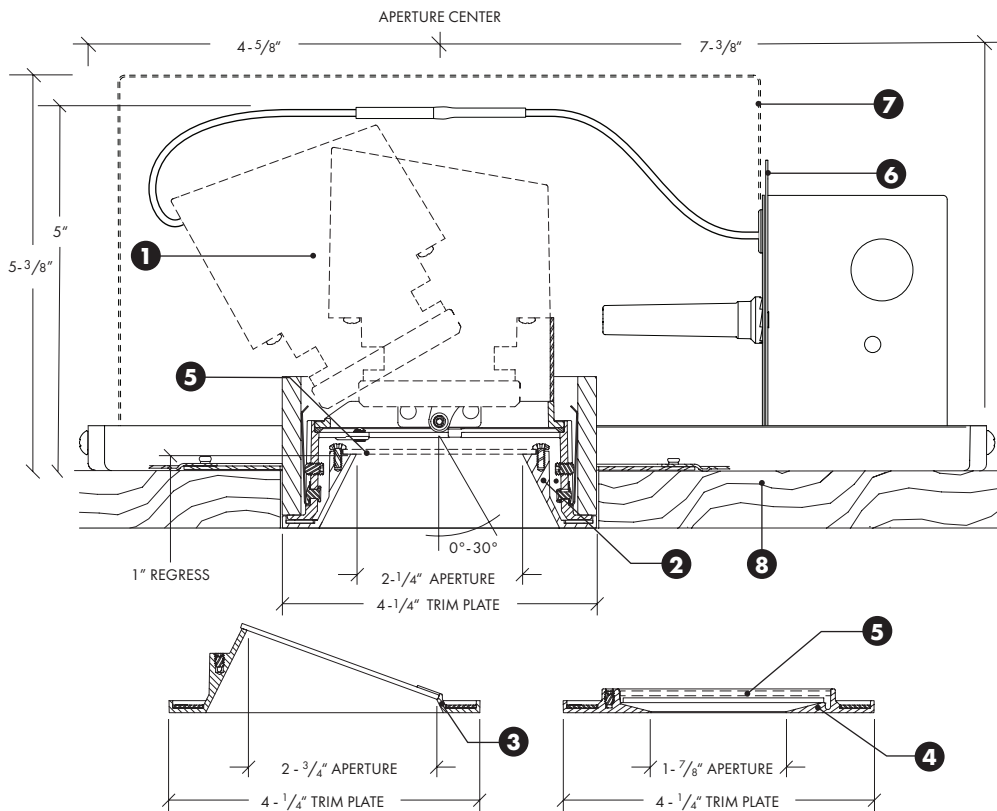
- 1) **200-HD-R** Adjustable ROUND Light Engine.
- 2) **FLR-2-BV** Flanged ROUND BEVEL Trim + **FR-2** ROUND FLANGELESS trim accessory.
- 3) **FLR-2-WW** Flanged ROUND WALL WASH Trim (**FR-2** ROUND FLANGELESS trim accessory not shown).
- 4) **FLR-2** Flanged ROUND FLAT Trim (**FR-2** ROUND FLANGELESS trim accessory not shown).
- 5) **CL2/SF2** (Optional) Clear or Soft Focus lens rated for use in DRY, DAMP, or WET locations (covered ceiling applications only).
- 6) **NIC-FR** Type Non-IC housing and power supply for ROUND light engine and FLANGELESS trim in sheetrock ceiling applications.
- 7) **IC-CP-FR** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for ROUND 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.

200-HD-R + NIC-FR and IC-CP-FR with FLANGELESS TRIM INSTALLATION for SHEETROCK CEILINGS



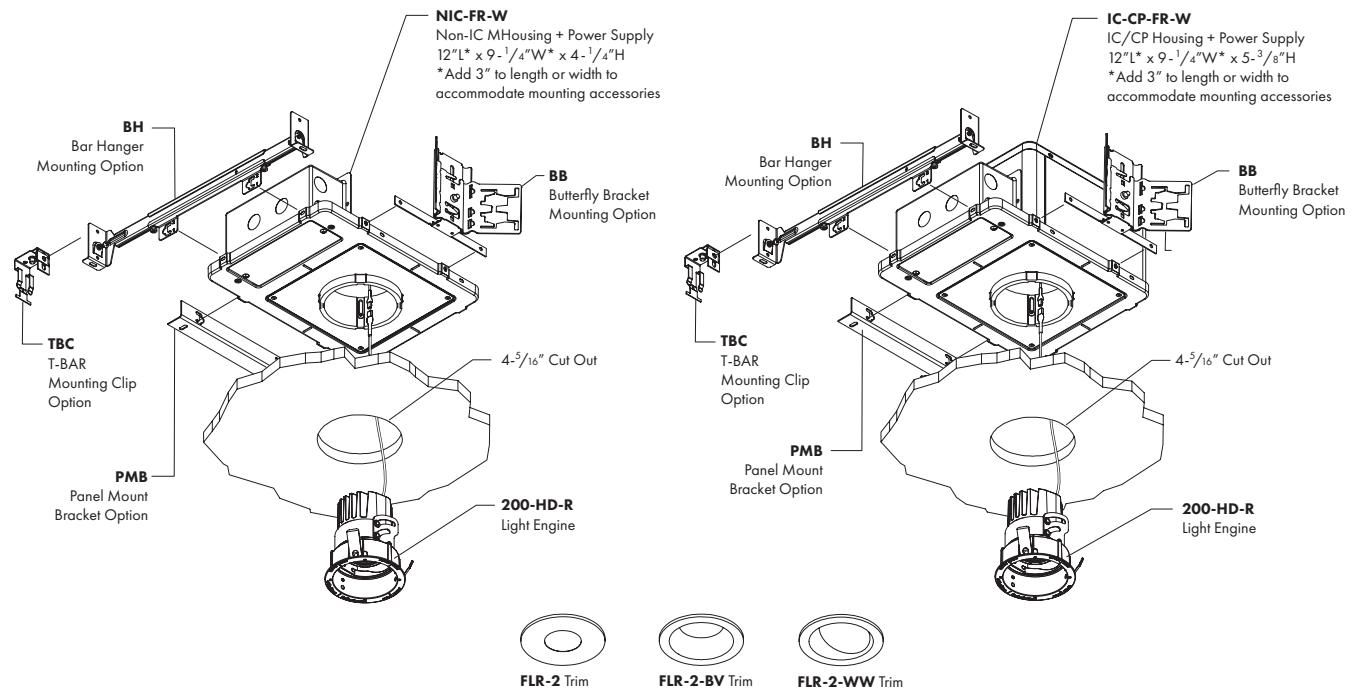
CEILING TYPES: Sheetrock | CEILING THICKNESS: 1/2" Min to 1-1/2" Max | CUT-OUT: 5" Irregular

200-HD-R + NIC-FR-W and IC-CP-FR-W with FLANGELESS TRIM INSTALLATION for WOOD/STONE CEILINGS



- 1) **200-HD-R** Adjustable ROUND Light Engine
- 2) **FLR-2-BV** Flanged ROUND BEVEL Trim
- 3) **FLR-2-WW** Flanged ROUND WALL WASH Trim
- 4) **FLR-2** Flanged ROUND 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-FR-W** Type Non-IC housing and power supply for ROUND light engine and FLANGELESS trim in wood/stone ceiling applications
- 7) **IC-CP-FR-W** (shown dashed) Type IC Rated/Air-tight/CCEA approved housing and power supply for ROUND 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 effecting aiming or rotation

200-HD-R + NIC-FR-W and IC-CP-FR-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: Ø 4-5/16"

200-HD-R w/ FLR-2-BV TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	650	2700K	94	62	1529 - 1872	26	58 - 71
HI-27	500	2700K	94	62	1255 - 1557	19.5	64 - 79
HI-30	650	3000K	94	64	1595 - 1953	26	61 - 75
HI-30	500	3000K	94	64	1309 - 1624	19.5	67 - 82
HI-35	650	3500K	94	67	1625 - 1990	26	62 - 76
HI-35	500	3500K	94	67	1334 - 1655	19.5	68 - 84
HI-40	650	4000K	94	71	1676 - 2052	26	64 - 78
HI-40	500	4000K	94	71	1376 - 1707	19.5	70 - 87

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

200-HD-R w/ FLR-2-BV TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

HI-27, HI-30, HI-35, & HI-40 LED

OPTIC OPTIONS	BEAM ANGLE	BEAM ENHANCING LENS (OPTIONAL)*				
		+ NSP	+ NFL	+ FL	+ WFL	+ LS
15 Narrow Spot	19°	21°	30°	48°	61°	21 x 38°
25 Narrow Flood	30°	32°	38°	57°	68°	30 x 55°
40 Flood	38°	39°	42°	n/a	n/a	n/a
60 Wide Flood	60°	61°	58°	n/a	n/a	n/a

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

200-HD-R w/ FLR-2-BV TRIM - CONE OF LIGHT DIAGRAMS

200-HD-R-HI-35/650/FLR-2-BV-WH

HD OUTPUT	15° - Narrow Spot	25° - Narrow Flood	40° - Flood	60° - Wide Flood
	2 ft - 2,401 fc Ø0.7 ft	2ft - 1,239 fc Ø1.1 ft	2ft - 933 fc Ø1.5 ft	2ft - 522 fc Ø2.4 ft
	4 ft - 600 fc Ø1.4 ft	4ft - 310 fc Ø2.2 ft	4ft - 233 fc Ø3.0 ft	4ft - 131 fc Ø4.9 ft
	6 ft - 267 fc Ø2.2 ft	6ft - 138 fc Ø3.4 ft	6ft - 104 fc Ø4.5 ft	6ft - 58 fc Ø7.3 ft
	8 ft - 150 fc Ø2.9 ft	8ft - 77 fc Ø4.5 ft	8ft - 58 fc Ø6.0 ft	8ft - 33 fc Ø9.7 ft
	10 ft - 96 fc Ø3.6 ft	10ft - 50 fc Ø5.6 ft	10ft - 37 fc Ø7.5 ft	10ft - 21 fc Ø12.2 ft
	CBCP: 9,603 cd	CBCP: 4,956 cd	CBCP: 3,186 cd	CBCP: 2,095 cd

Performance shown for 3500K. Output varies by CCT.

200-HD-IC-R-HI-35/500/FLR-2-BV-WH

HD-IC OUTPUT	15° - Narrow Spot	25° - Narrow Flood	40° - Flood	60° - Wide Flood
	2 ft - 1,960 fc Ø0.7 ft	2ft - 1,017 fc Ø1.1 ft	2ft - 785 fc Ø1.5 ft	2ft - 437 fc Ø2.4 ft
	4 ft - 490 fc Ø1.4 ft	4ft - 254 fc Ø2.2 ft	4ft - 196 fc Ø3.0 ft	4ft - 109 fc Ø4.9 ft
	6 ft - 218 fc Ø2.2 ft	6ft - 113 fc Ø3.4 ft	6ft - 87 fc Ø4.5 ft	6ft - 49 fc Ø7.3 ft
	8 ft - 123 fc Ø2.9 ft	8ft - 64 fc Ø4.5 ft	8ft - 49 fc Ø6.0 ft	8ft - 27 fc Ø9.7 ft
	10 ft - 78 fc Ø3.6 ft	10ft - 41 fc Ø5.6 ft	10ft - 31 fc Ø7.5 ft	10ft - 17 fc Ø12.1 ft
	CBCP: 7,482 cd	CBCP: 2,070 cd	CBCP: 3,164 cd	CBCP: 1,754 cd

Performance shown for 3500K. Output varies by CCT.

200-HD-R w/ FLR-2 TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	650	2700K	94	62	1115 - 1408	26	42 - 54
HI-27	500	2700K	94	62	920 - 1155	19.5	47 - 59
HI-30	650	3000K	94	64	1163 - 1469	26	44 - 56
HI-30	500	3000K	94	64	960 - 1205	19.5	49 - 62
HI-35	650	3500K	94	67	1185 - 1497	26	45 - 57
HI-35	500	3500K	94	67	978 - 1228	19.5	50 - 63
HI-40	650	4000K	94	71	1222 - 1544	26	46 - 59
HI-40	500	4000K	94	71	1009 - 1266	19.5	52 - 65

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

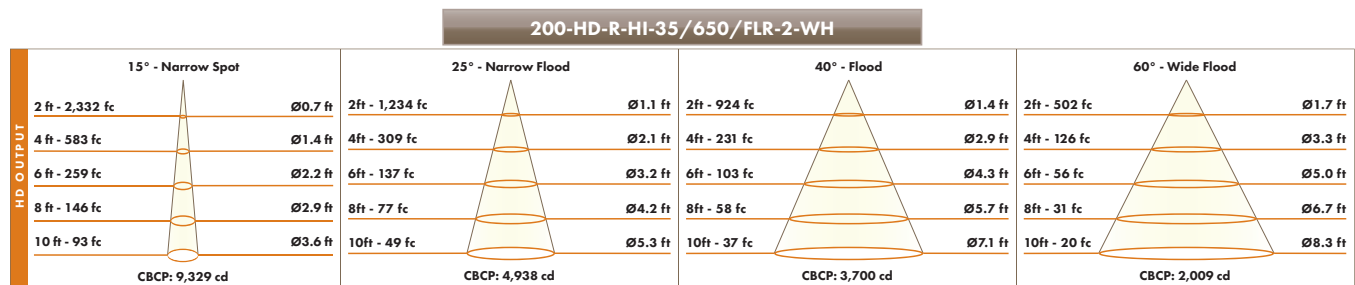
200-HD-R w/ FLR-2-BV TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

HI-27, HI-30, HI-35, & HI-40 LED

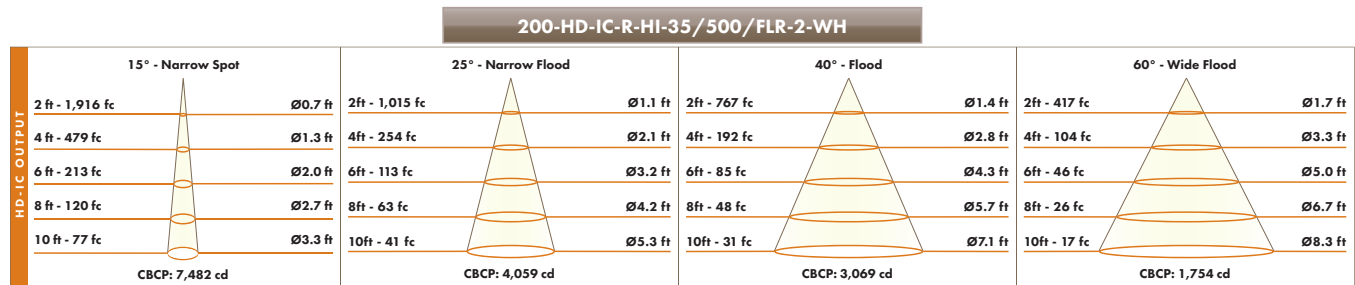
OPTIC OPTIONS	BEAM ANGLE	BEAM ENHANCING LENS (OPTIONAL)*				
		+ NSP	+ NFL	+ FL	+ WFL	+ LS
15 Narrow Spot	17°	18°	25°	n/a	n/a	19 x 33°
25 Narrow Flood	29°	29°	32°	n/a	n/a	28 x 40°
40 Flood	37°	37°	37°	n/a	n/a	n/a
60 Wide Flood	46°	46°	44°	n/a	n/a	n/a

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

200-HD-R w/ FLR-2 TRIM - CONE OF LIGHT DIAGRAMS



Performance shown for 3500K. Output varies by CCT.



Performance shown for 3500K. Output varies by CCT.

200-HD-R w/ FLR-2-WW TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	650	2700K	94	62	1342 - 1464	26	51 - 55
HI-27	500	2700K	94	62	1110 - 1192	19.5	56 - 61
HI-30	650	3000K	94	64	1400 - 1527	26	53 - 58
HI-30	500	3000K	94	64	1158 - 1243	19.5	59 - 64
HI-35	650	3500K	94	67	1427 - 1556	26	54 - 59
HI-35	500	3500K	94	67	1180 - 1267	19.5	60 - 65
HI-40	650	4000K	94	71	1472 - 1605	26	56 - 61
HI-40	500	4000K	94	71	1217 - 1307	19.5	62 - 67

Performance range for HI LED with 40° and 60° optic options.

200-HD-R-HI-35/650 w/ FLR-2-WW-WH TRIM - FOOTCANDLES ON WALL

OPTIC OPTION			40°						60°					
DISTANCE FROM WALL			2.0 ft			2.5 ft			2.0 ft			2.5 ft		
ON CENTER SPACING				2.5 ft			3.0 ft			2.5 ft			3.0 ft	
DISTANCE FROM CEILING	0.5 ft		1.4	1.4	1.4	0.7	0.8	0.7	2.1	2.2	2.1	1.1	1.2	1.1
	1.5 ft		33.1	28.2	33.1	8.8	7.0	8.8	28.3	24.2	28.3	8.3	6.6	8.3
	2.5 ft		74.0	79.6	74.0	41.7	42.0	41.7	56.8	60.5	56.8	33.1	33.0	33.1
	3.5 ft		58.6	66.2	58.6	47.1	52.6	47.1	43.2	49.1	43.2	35.5	39.5	35.5
	4.5 ft		38.7	43.1	38.7	36.9	41.6	36.9	28.6	31.7	28.6	27.2	30.8	27.2
	5.5 ft		25.1	27.4	25.1	26.4	29.3	26.4	18.7	20.4	18.7	19.4	21.5	19.4
	6.5 ft		16.6	17.8	16.6	18.5	20.3	18.5	12.5	13.5	12.5	13.8	15.0	13.8
	7.5 ft		11.3	12.0	11.3	13.2	14.2	13.2	8.7	9.2	8.7	9.9	10.6	9.9
	8.5 ft		7.9	8.4	7.9	9.5	10.2	9.5	6.2	6.5	6.2	7.2	7.7	7.2
	9.5 ft		5.8	6.0	5.8	7.0	7.5	7.0	4.6	4.7	4.6	5.4	5.7	5.4

Performance shown for 3500K. Output varies by CCT.

200-HD-HI-35/500 w/ FLR-2-WW-WH TRIM - FOOTCANDLES ON WALL

OPTIC OPTION			40°						60°					
DISTANCE FROM WALL			2.0 ft			2.5 ft			2.0 ft			2.5 ft		
ON CENTER SPACING				2.5 ft			3.0 ft			2.5 ft			3.0 ft	
DISTANCE FROM CEILING	0.5 ft		1.1	1.1	1.1	0.6	0.6	0.6	1.7	1.8	1.7	0.9	1.0	0.9
	1.5 ft		26.9	23.0	26.9	7.1	5.7	7.1	23.9	20.0	23.9	7.1	5.3	7.1
	2.5 ft		60.4	64.9	60.4	33.9	34.2	33.9	47.4	50.5	47.4	27.8	27.4	27.8
	3.5 ft		47.9	53.9	47.9	38.5	42.9	38.5	36.0	40.9	36.0	29.6	33.0	29.6
	4.5 ft		31.6	35.1	31.6	30.2	33.9	30.2	23.7	26.3	23.7	22.6	25.6	22.6
	5.5 ft		20.4	22.3	20.4	21.5	23.9	21.5	15.5	16.9	15.5	16.1	17.9	16.1
	6.5 ft		13.5	14.5	13.5	15.1	16.5	15.1	10.4	11.1	10.4	11.4	12.4	11.4
	7.5 ft		9.2	9.8	9.2	10.7	11.6	10.7	7.2	7.6	7.2	8.2	8.8	8.2
	8.5 ft		6.5	6.8	6.5	7.8	8.3	7.8	5.1	5.4	5.1	6.0	6.4	6.0
	9.5 ft		4.7	4.9	4.7	5.7	6.1	5.7	3.8	3.9	3.8	4.5	4.7	4.5

Performance shown for 3500K. Output varies by CCT.