202-S-RM(-RT)/202-S-BV-RM(-RT) REMODEL ADJUSTABLE LED
FLS-2/FLS-2-BV TRIMS
NON-IC + AIRTIGHT RATED

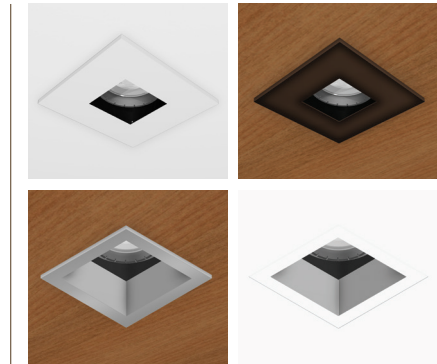| Project Name	
Date	Type
Prepared By	
Comments	
Catalog #	- - - / - / - - -

PRODUCT FEATURES

202-S-RM / 202-S-BV-RM
SQUARE ADJUSTABLE LIGHT ENGINE
and INTEGRAL POWER SUPPLY

202-S-RM-RT / 202-S-BV-RM-RT
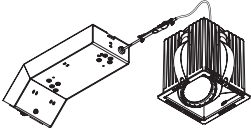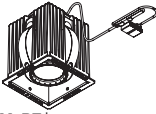SQUARE ADJUSTABLE LIGHT ENGINE
for REMOTE POWER SUPPLY

200 SERIES TRIMS
FLANGED or FLANGELESS
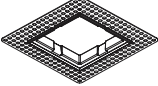
202-S-RM(-RT)/202-S-BV-RM(-RT) SPECIFICATION SUMMARY

	Static White				Warm Dimming	
LED Option	**HI-2700**	**HI-3000**	**HI-3500**	**HI-4000**	**WD**	**WD-2**
Delivered Lumens	1094	1151	1197	1232	760	737
System Wattage	14	14	14	14	15	15
Efficacy	76	80	83	86	50	48
CRI	92+	92+	92+	92+	97+	95+
R9	61	57	61	58	81	74
CCT	2700K	3000K	3500K	4000K	3000-1800K	2800-2200K
Color Consistency	2-Step				3-Step	
Optic Options	15, 25, 40, 60				15-NFL, 25-NFL, 40-NFL, 60-NFL	
Optical Accessories	Narrow, Medium, Wide, Extra Wide, Linear Spread				N/A	
Adjustability	0-30° Tilt, 360° Rotation					
Driver Options	INTEGRAL: <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) REMOTE: <1% Forward/Reverse Phase (120v), 0.1/1% 0-10v (120-277v), 0.1/1% DALI (120-277v), 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					
Trim Accessories	UL Wet Listed Lens Options - Clear, Soft Focus					
Mounting Options	Remodel: Type Non-IC Air-Tight					

Performance data shown with FLS-2-BV Trim.
Warm Dimming data shown for 3000K and 2800K.
See Performance Summaries for additional information.

PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

| LIGHT ENGINE + POWER SUPPLY OPTIONS | - | LED OPTIONS | - | OPTIC OPTIONS | - | OPTICAL ACCESSORIES (Optional)* | / | DRIVER OPTIONS | - | REMOTE OPTION* | / |

202-S-RM*
Adjustable REMODEL Light Engine + INTEGRAL Power Supply for SQUARE FLAT trim

202-S-BV-RM*
Adjustable REMODEL Light Engine + INTEGRAL Power Supply for SQUARE BEVEL trim

202-S-RM-RT*
Adjustable REMODEL Light Engine for REMOTE Power Supply and SQUARE FLAT trim

202-S-BV-RM-RT*
Adjustable REMODEL Light Engine for REMOTE Power Supply and SQUARE BEVEL trim

*AIRTIGHT and Type Non-IC Rated for installations where insulation can be held back 3″ from sides and top. Adjustment range: 0-30° tilt and 360° rotation.

HI-2700
2700K 92+ CRI White

HI-3000
3000K 92+ CRI White

HI-3500
3500K 92+ CRI White

HI-4000
4000K 92+ CRI White

WD
3000-1800K 97+ CRI Warm Dim

WD-2
2800-2200K 95+ CRI Warm Dim

15*
Narrow Spot

25*
Narrow Flood

40*
Flood

60*
Wide Flood

15-NFL-WD†
Spot

25-NFL-WD†
Narrow Flood

40-NFL-WD†
Flood

60-NFL-WD†
Wide Flood

*For use with HI LED option.

†For use with WD or WD-2 LED options.

NSP
Narrow Softening Lens

NFL
Medium Softening Lens

FL
Wide Softening Lens

WFL
Extra Wide Softening Lens

LS
Linear Spread Lens

*For use with HI LED option.

PR1-2-R
Premium Forward or Reverse-Phase <1% Dimming

DIM3-2-R*
Forward or Reverse-Phase 5% Dimming

DIM4-2-R*
0-0-10v 1% Dimming

EL1-2-R
EldoLED 0-10v 1% Dimming

EL1-01-2-R
EldoLED 0-10v 0.1% Dimming

EL2-2-R
EldoLED DALI 1% Dimming

EL2-01-2-R
EldoLED 0.1% DALI Dimming

LU2-2-R
Lutron Hi-Lume LDE1 EcoSystem 1% Dimming

LU4-2-R*
Lutron Hi-Lume PEQ0E EcoSystem 0.1% Dimming

*Not available with RT remote option.

RT
REMOTE Mounted Power Supply

*For use with 202-S-RM-RT or 202-S-BV-RM-RT Light Engines only. Leave blank for integral dimming options.

| TRIM OPTIONS | - | TRIM FINISH | - | TRIM MOUNTING ACCESSORIES (Optional) | - | TRIM ACCESSORIES (Optional) |

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-RM
SQUARE FLANGELESS trim accessory for flush mounting FLS-2/FLS-2-BV trims in sheetrock ceiling applications in REMODEL installations

CL2*
CLEAR lens

SF2*
SOFT FOCUS lens

*UL Wet listed.

Maximum REMOTE Driver-to-LED Light Engine Wire Length

Driver Model	Wire Gauge
PR1/EL1/EL1-01/EL2/EL2-01/LU2-2-R-RT	
8 ft (2.5 m)	24 AWG (0.2 mm²)
13 ft (4 m)	22 AWG (0.34 mm²)
20 ft (6 m)	20 AWG (0.5 mm²)
30 ft (9 m)	18 AWG (.75 mm²)
35 ft (10.5 m)	16 AWG (1.5 mm²)
50 ft (15 m)	14 AWG (2.5 mm²)
100 ft (30 m)	12 AWG (4.0 mm²)
Wire Type: Stranded Class 2 wire (supplied by others)	

Light Engine, LED, Optic Option, and Accessory Notes

202-S-RM(-RT)/202-S-BV-RM(-RT) Adjustable airtight REMODEL light engine with 0-30° tilt and 360° rotation for SQUARE FLAT/BEVEL trim. Use for adjustable accent and general lighting applications. **202-S-RM/202-S-BV-RM** for use with INTEGRAL power supply and **202-S-RM-RT/202-S-BV-RM-RT** for use with REMOTE mounted power supply. 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.

Installation Notes

Accommodates sheetrock/wood/stone (tile) ceilings with thicknesses ranging from 1/2″ (min) - 1-1/2″ (max). Requires 5-1/2″ (min) ceiling space above finished ceiling. Type Non-IC rated for installations where insulation is held back a minimum of 3″ away from sides and top. Meets Washington State Airtight Standard WAC 51-11-0502 and in accordance with ASTM E283 to reduce energy loss. Ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

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.

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.

202-S-RM(-RT)/202-S-BV-RM(-RT) REMODEL FIXTURE ASSEMBLY with FLANGED TRIM INSTALLATION
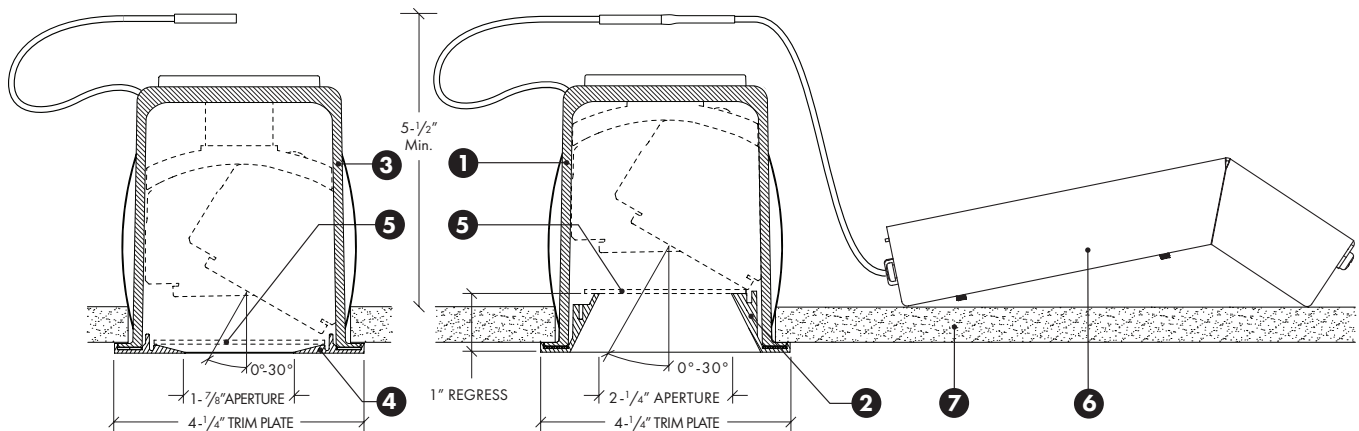
5-1/2" Min.

③ ①

⑤ ⑤

0°-30°   0°-30°

1-7/8" APERTURE   1" REGRESS   2-1/4" APERTURE

④   ② ⑦ ⑥

4-1/4" TRIM PLATE   4-1/4" TRIM PLATE

1) 202-S-BV-RM /202-S-BV-RM-RT Adjustable SQUARE Light Engine for BEVEL trim.

2) FLS-2-BV Flanged SQUARE BEVEL Trim.

3) 202-S-RM /202-S-RM-RT 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) Integral Power Supply/Junction Box (shown) Installs from below finished ceiling and is accessible after installation. Requires 5-1/2" (Min.) clearance above ceiling for installation. **RT Remote Power Supply/Junction Box** (not shown) can be mounted up to 100ft from fixture using 12AWG Class 2 stranded wire. See wire length table on Page 2.

7) Ceiling Material (Sheetrock/Wood/Stone) Accommodates ceiling thicknesses from 1/2" (min) to 1-1/2" (max) without affecting aiming or rotation.

202-S-RM(-RT)/202-S-BV-RM(-RT) REMODEL FIXTURE ASSEMBLY with FLANGED TRIM INSTALLATION

6"

45°

2-3/8"

1-1/2"

3-1/4"

INTEGRAL
Power Supply/Junction Box

3-3/4 " x 3-3/4 " Cut Out

202-S-RM / 202-S-BV-RM
Light Engine

3-1/2" (Max)

5-1/4" (Max)

4-3/4"

RT REMOTE
Mounted Power
Supply/Junction
Box

Class 2 Wiring
(by others)
See wire table

**202-S-RM-RT/
202-S-BV-RM-RT**
Light Engine

FLS-2 Trim
(For 202-S-RM/202-S-RM-RT
Light Engines)

FLS-2-BV Trim
(For 202-S-BV-RM/202-S-BV-RM-RT
Light Engines)
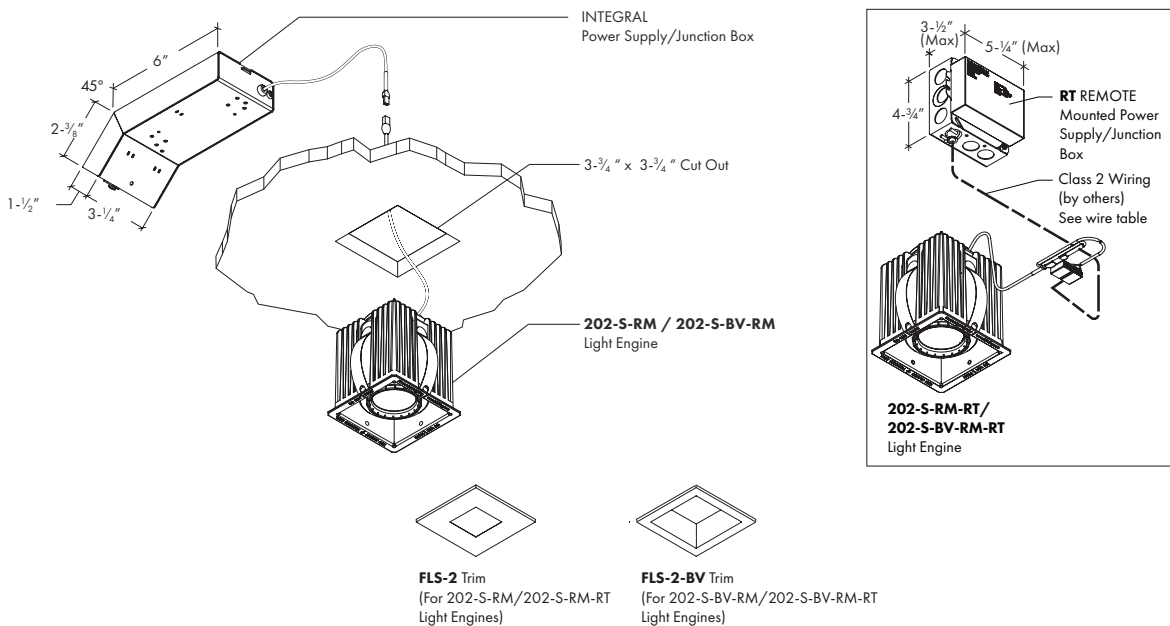
CEILING TYPES: Sheetrock, Wood & Stone | **CEILING THICKNESS:** 1/2" Min to 1-1/2" Max | **CUT-OUT:** 3-3/4" x 3-3/4"

202-S-RM(-RT)/202-S-BV-RM(-RT) REMODEL FIXTURE ASSEMBLY with **FS-2-RM** FLANGELESS TRIM

5-1/2" Min.

0°-30°

1-7/8" APERTURE
4-1/4" TRIM PLATE

1" REGRESS

0°-30°

2-1/4" APERTURE
4-1/4" TRIM PLATE

1) **202-S-BV-RM /202-S-BV-RM-RT** Adjustable SQUARE Light Engine for BEVEL trim.

2) **FLS-2-BV** Flanged SQUARE BEVEL Trim + **FS-2-RM** SQUARE FLANGELESS trim accessory.

3) **202-S-RM /202-S-RM-RT** Adjustable SQUARE Light Engine for FLAT trim.

4) **FLS-2** Flanged SQUARE FLAT Trim + **FS-2-RM** 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) **IntegralPower Supply/Junction Box** (shown) Installs from below finished ceiling and is accessible after installation. Requires 5-1/2" (Min.) clearance above ceiling fo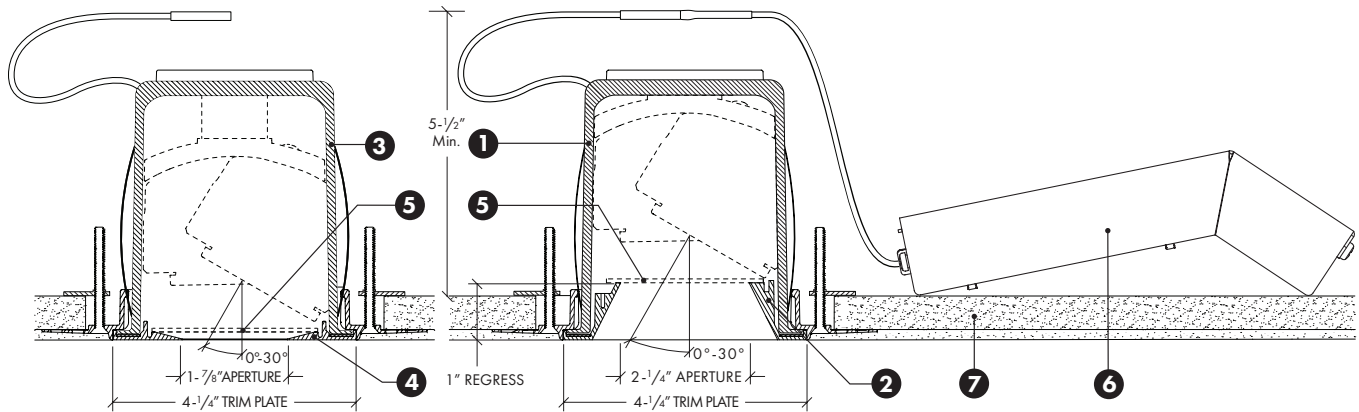r installation. **RT Remote Power Supply/Junction Box** (not shown) can be mounted up to 100ft from fixture using 12AWG Class 2 stranded wire. See wire length table on Page 2.

7) **Ceiling Material** (Sheetrock) Accommodates ceiling thicknesses from 1/2" (min) to 1-1/2" (max) without affecting aiming or rotation.

202-S-RM(-RT)/202-S-BV-RM(-RT) REMODEL FIXTURE ASSEMBLY with **FS-2-RM** FLANGELESS TRIM

INTEGRAL
Power Supply/Junction Box

FS-2-RM
Mounting Brackets

6"

45°

2-3/8"

1-1/2"   3-1/4"

4-1/2" x 4-1/2" Cut Out

FS-2-RM
Flangeless Trim

202-S-RM / 202-S-RM-BV
Light Engine

FLS-2 Trim
(For 202-S-RM/202-S-RM-RT
Light Engines)

FLS-2-BV Trim
(For 202-S-BV-RM/202-S-BV-RM-RT
Light Engines)

3-1/2" (Max)   5-1/4" (Max)

4-3/4"

RT REMOTE
Mounted Power
Supply/Junction
Box

Class 2 Wiring
(by others)
See wire table

**202-S-RM-RT/
202-S-BV-RM-RT**
Light Engine
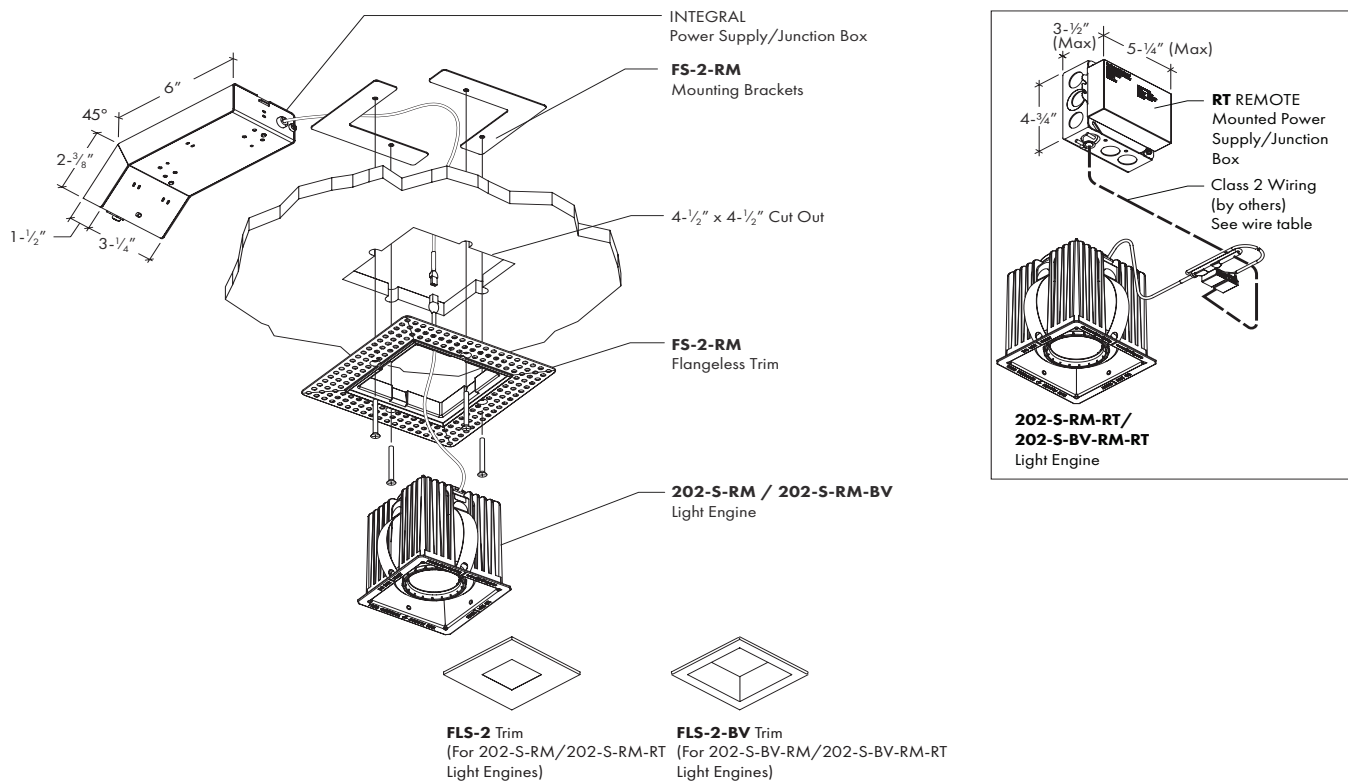
CEILING TYPES: Sheetrock ┃ **CEILING THICKNESS:** 1/2" Min to 1-1/2" Max ┃ **CUT-OUT:** 4-1/2" x 4-1/2"

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

LED	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-2700	2700K	92+	61	885 - 1094	14	63 - 78
HI-3000	3000K	92+	57	932 - 1151	14	67 - 82
HI-3500	3500K	92+	61	969 - 1197	14	69 - 86
HI-4000	4000K	92+	58	997 - 1232	14	71 - 88
WD	3000-1800K	97+	81	572 - 760	15	38 - 51
WD2	2800-2200K	95+	74	555 - 737	15	37 - 49

Performance range for **HI** LED with 15°, 25°, 40°, and 60° optic options.
Performance range for **WD** LED at 3000K and **WD-2** LED at 2800K with 15-NFL-WD , 25-NFL-WD, 40-NFL-WD, and 60-NFL-WD optic options.

LED OUTPUT MULTIPLIERS

LED	HI-2700, H-3000, HI-3500 & HI-4000 LED				WD & WD-2 LED	
	HI-2700	HI-3000	HI-3500	HI-4000	WD	WD-2
Multiplier	0.95	1.0	1.04	1.07	1.0	0.97

OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

HI-2700, HI-3000, HI-3500 & HI-4000 LED							WD & WD-2 LED	
OPTIC OPTIONS	BEAM ANGLE	BEAM ENHANCING LENS (OPTIONAL)*					OPTIC OPTIONS	BEAM ANGLE
		+ NSP	+ NFL	+ FL	+ WFL	+ LS		
15 Narrow Spot	17°	20°	29°	49°	63°	20 x 47°	**15-NFL-WD** Spot	26°
25 Narrow Flood	27°	29°	36°	57°	71°	28 x 58°	**25-NFL-WD** Narrow Flood	34°
40 Flood	35°	36°	40°	n/a	n/a	n/a	**40-NFL-WD** Flood	40°
60 Wide Flood	54°	55°	57°	n/a	n/a	n/a	**60-NFL-WD** Wide Flood	57°

*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-RM-HI/202-S-BV-RM-HI CONE OF LIGHT DIAGRAMS

202-S-RM-HI-3000/FLS-2

15° - Narrow Spot		25° - Narrow Flood		40° - Flood		60° - Wide Flood	
2 ft - 1,876 fc	Ø0.6 ft	2 ft - 822 fc	Ø1.0 ft	2 ft - 690 fc	Ø1.3 ft	2 ft - 335 fc	Ø1.9 ft
4 ft - 469 fc	Ø1.3 ft	4 ft -205 fc	Ø2.0 ft	4 ft - 172 fc	Ø2.6 ft	4 ft - 88 fc	Ø3.9 ft
6 ft - 208 fc	Ø1.9 ft	6 ft - 91 fc	Ø3.0 ft	6 ft - 77 fc	Ø3.8 ft	6 ft - 37 fc	Ø5.8 ft
8 ft - 117 fc	Ø2.5 ft	8 ft - 51 fc	Ø4.1 ft	8 ft - 43 fc	Ø5.1 ft	8 ft - 21 fc	Ø7.8 ft
10 ft - 75 fc	Ø3.2 ft	10 ft - 33 fc	Ø5.1 ft	10 ft - 28 fc	Ø6.4 ft	10 ft - 13 fc	Ø9.7 ft
12 ft - 52 fc	Ø3.8 ft	12 ft - 23 fc	Ø6.1 ft	12 ft - 19 fc	Ø7.7 ft	12 ft - 9 fc	Ø11.6 ft
CBCP: 7,535		CBCP: 3,290		CBCP: 2,818		CBCP: 1,344	

202-S-BV-RM-HI-3000/FLS-2-BV

15° - Narrow Spot		25° - Narrow Flood		40° - Flood		60° - Wide Flood	
2 ft - 1,860 fc	Ø0.7 ft	2 ft - 803 fc	Ø1.1 ft	2 ft - 643 fc	Ø1.4 ft	2 ft - 337 fc	Ø2.1 ft
4 ft - 465 fc	Ø1.3 ft	4 ft -201 fc	Ø2.1 ft	4 ft - 161 fc	Ø2.7 ft	4 ft - 84 fc	Ø4.3 ft
6 ft - 207 fc	Ø2.0 ft	6 ft - 89 fc	Ø3.2 ft	6 ft - 71 fc	Ø4.1 ft	6 ft - 37 fc	Ø6.4 ft
8 ft - 116 fc	Ø2.7 ft	8 ft - 50 fc	Ø4.2 ft	8 ft - 40 fc	Ø5.4 ft	8 ft - 21 fc	Ø8.6 ft
10 ft - 74 fc	Ø3.4 ft	10 ft - 32 fc	Ø5.3 ft	10 ft - 26 fc	Ø6.8 ft	10 ft -14 fc	Ø10.7 ft
12 ft - 52 fc	Ø4.0 ft	12 ft - 22 fc	Ø6.4 ft	12 ft - 18 fc	Ø8.1 ft	12 ft - 9 fc	Ø12.9 ft
CBCP: 7,476		CBCP: 3,220		CBCP: 2,622		CBCP: 1,351	

202-S-RM-WD/202-S-BV-RM-WD WARM DIM CONE OF LIGHT DIAGRAMS

202-S-RM-WD/FLS-2

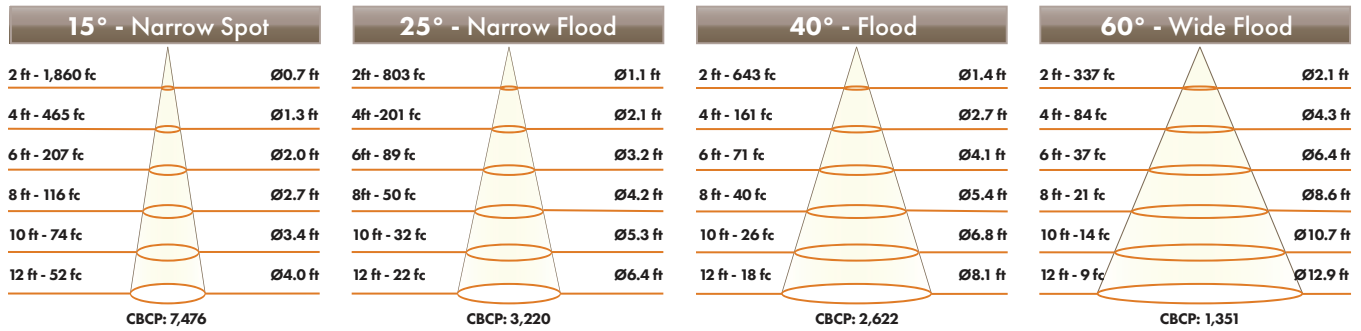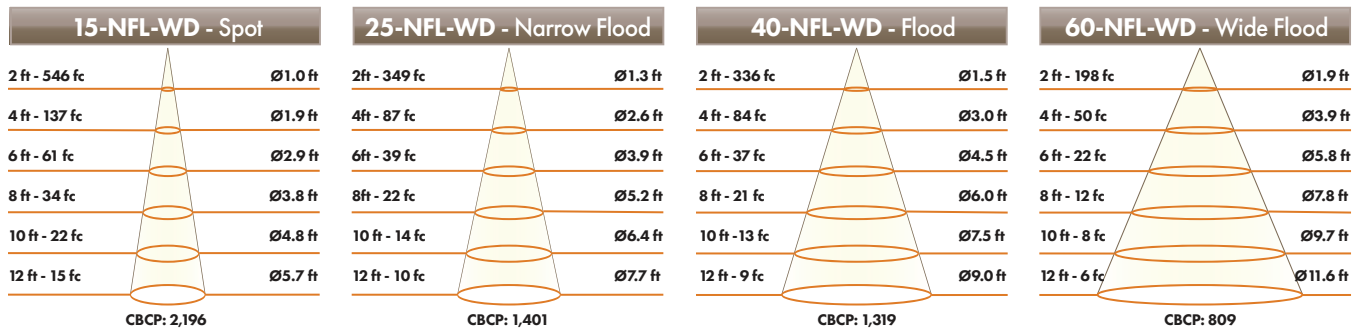| 15-NFL-WD - Spot		25-NFL-WD - Narrow Flood		40-NFL-WD - Flood		60-NFL-WD - Wide Flood	
2 ft - 546 fc	Ø1.0 ft	2 ft - 349 fc	Ø1.3 ft	2 ft - 336 fc	Ø1.5 ft	2 ft - 198 fc	Ø1.9 ft
4 ft - 137 fc	Ø1.9 ft	4 ft - 87 fc	Ø2.6 ft	4 ft - 84 fc	Ø3.0 ft	4 ft - 50 fc	Ø3.9 ft
6 ft - 61 fc	Ø2.9 ft	6 ft - 39 fc	Ø3.9 ft	6 ft - 37 fc	Ø4.5 ft	6 ft - 22 fc	Ø5.8 ft
8 ft - 34 fc	Ø3.8 ft	8 ft - 22 fc	Ø5.2 ft	8 ft - 21 fc	Ø6.0 ft	8 ft - 12 fc	Ø7.8 ft
10 ft - 22 fc	Ø4.8 ft	10 ft - 14 fc	Ø6.4 ft	10 ft -13 fc	Ø7.5 ft	10 ft - 8 fc	Ø9.7 ft
12 ft - 15 fc	Ø5.7 ft	12 ft - 10 fc	Ø7.7 ft	12 ft - 9 fc	Ø9.0 ft	12 ft - 6 fc	Ø11.6 ft
CBCP: 2,196		CBCP: 1,401		CBCP: 1,319		CBCP: 809	

202-S-BV-RM-WD/FLS-2-BV

15-NFL-WD - Spot		25-NFL-WD - Narrow Flood		40-NFL-WD - Flood		60-NFL-WD - Wide Flood	
2 ft - 543 fc	Ø1.0 ft	2 ft - 343 fc	Ø1.4 ft	2 ft - 327 fc	Ø1.6 ft	2 ft - 200 fc	Ø2.2 ft
4 ft - 136 fc	Ø2.0 ft	4 ft -86 fc	Ø2.7 ft	4 ft - 82 fc	Ø3.1 ft	4 ft - 50 fc	Ø4.4 ft
6 ft - 60 fc	Ø3.0 ft	6 ft - 38 fc	Ø4.1 ft	6 ft - 36 fc	Ø4.7 ft	6 ft - 22 fc	Ø6.6 ft
8 ft - 34 fc	Ø4.0 ft	8 ft - 21 fc	Ø5.5 ft	8 ft - 20 fc	Ø6.3 ft	8 ft - 13 fc	Ø8.8 ft
10 ft - 22 fc	Ø5.0 ft	10 ft - 14 fc	Ø6.8 ft	10 ft - 13 fc	Ø7.9 ft	10 ft - 8 fc	Ø11.0 ft
12 ft - 15 fc	Ø6.1 ft	12 ft - 10 fc	Ø8.2 ft	12 ft - 9 fc	Ø9.4 ft	12 ft - 6 fc	Ø13.2 ft
CBCP: 2,174		CBCP: 1,377		CBCP: 1,308		CBCP: 803	