

**400 NEW CONSTRUCTION ADJUSTABLE LED**  
**FLS-4** and **FLR-4** FLAT TRIMS for FLANGELESS WOOD/STONE  
**FRM2-4W-S/R** and **FRM2-4W-S/R-CP** HOUSINGS

Project Name	
Date	Type
Prepared By	
Comments	
Catalog # <b>400</b> -     -     -     /     -     /     -     -     /     -	



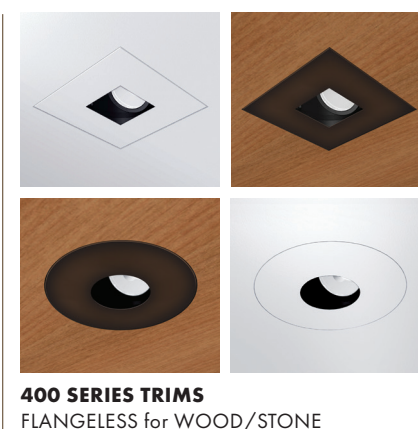
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 Doc # 91269-13.3



**PRODUCT FEATURES**



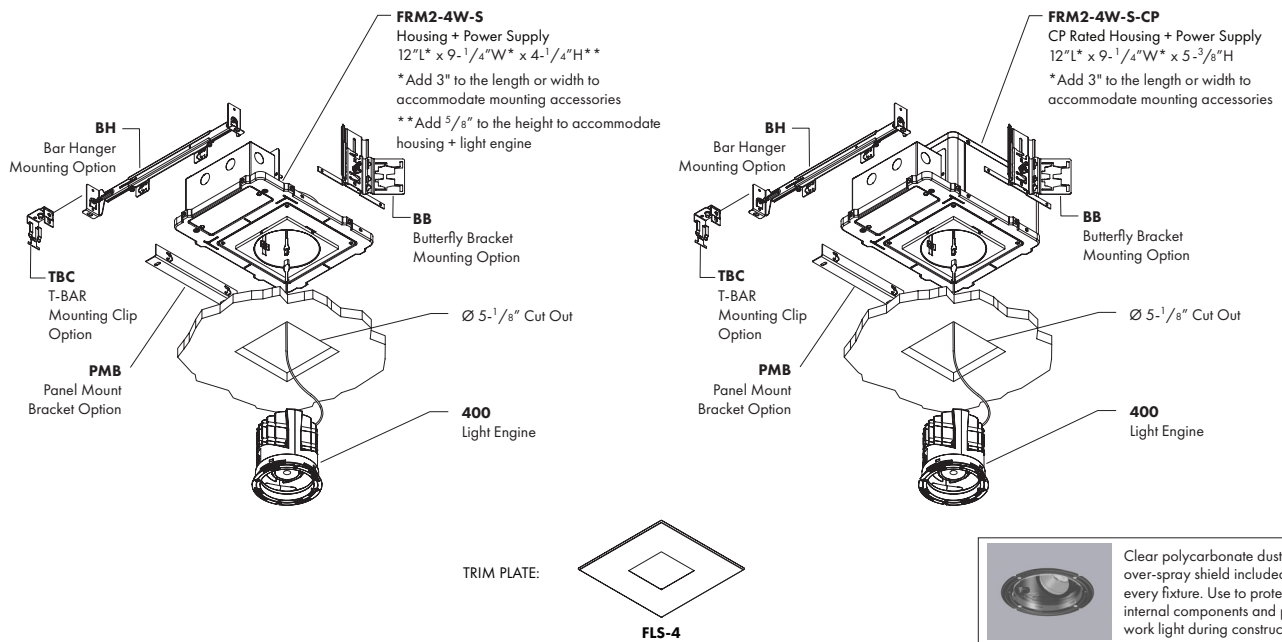
**400 w/ FLANGELESS TRIM for WOOD/STONE CEILINGS - SPECIFICATION SUMMARY**

	Static White		Warm Dimming		
LED Option	HI	HI-2	WD	WD-2	WD-4
Delivered Lumens	1037	1082	818	809	864
System Wattage	14	14.5	15	15	15
Efficacy	74	75	56	55	59
CRI	94	94	97	97	97
R9	60	63	82	78	76
CCT Options	2700K, 3000K		3000-1800K	2800-2200K	3000-2200K
Optic Options	15, 25, 40	10	15, 25, 40		
Color Consistency	2-Step		3-Step		
Optical Accessories	Narrow, Medium, Wide, Extra Wide, Linear Spread, and 2400K, 2700K, 3500K Color Filters				
Adjustability	0-35° Tilt, 360° Rotation, Lockable				
Driver Options	<1% Forward/Reverse Phase (120v), 0.1/1% 0-10v (120-277v), 0.1/1% DALI (120-277v), 0.1/1% EcoSystem (120 or 277v)				
Trim Options	Round/Square Flat				
Finish Options	White, Oil-Rubbed Bronze				
Trim Mounting Options	Flangeless: Wood/Stone Ceiling Applications				
Trim Accessories	UL Wet Listed Lens Options - Clear, Soft Focus, Wall Wash				
Housing Options	Remodel: Type IC Air-Tight				

Performance data shown with FLS-4 Trim.  
 Static White data shown for 3000K.  
 Warm Dimming data shown for 3000K and 2800K.  
 See Performance Summaries for additional information.

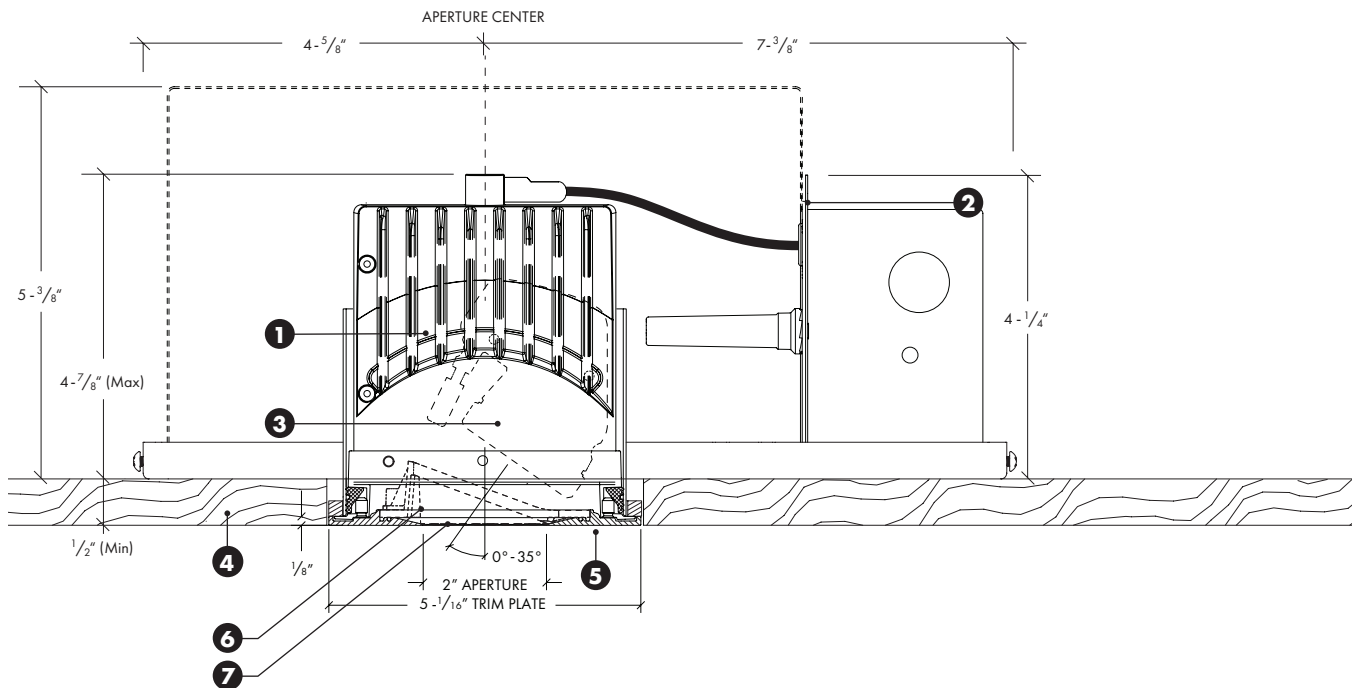


## 400 + FRM2-4W-S / FRM2-4W-S-CP NEW CONSTRUCTION HOUSINGS with FLS-4 SQUARE FLAT TRIM FLANGELESS MOUNTED

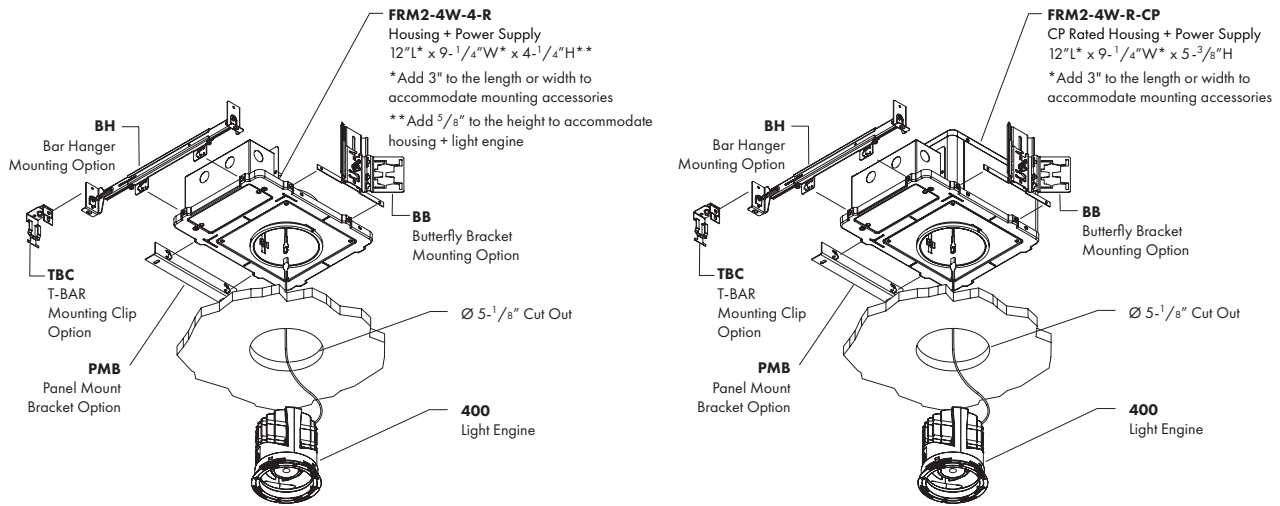


**CEILING TYPES:** Wood/Stone | **CEILING THICKNESS:** 1/2" Min to 2-1/4" Max | **CUT-OUT:** 5-1/8"

## 400 + FRM2-4W-S / FRM2-4W-S-CP NEW CONSTRUCTION HOUSINGS with FLS-4 SQUARE FLAT TRIM FLANGELESS MOUNTED

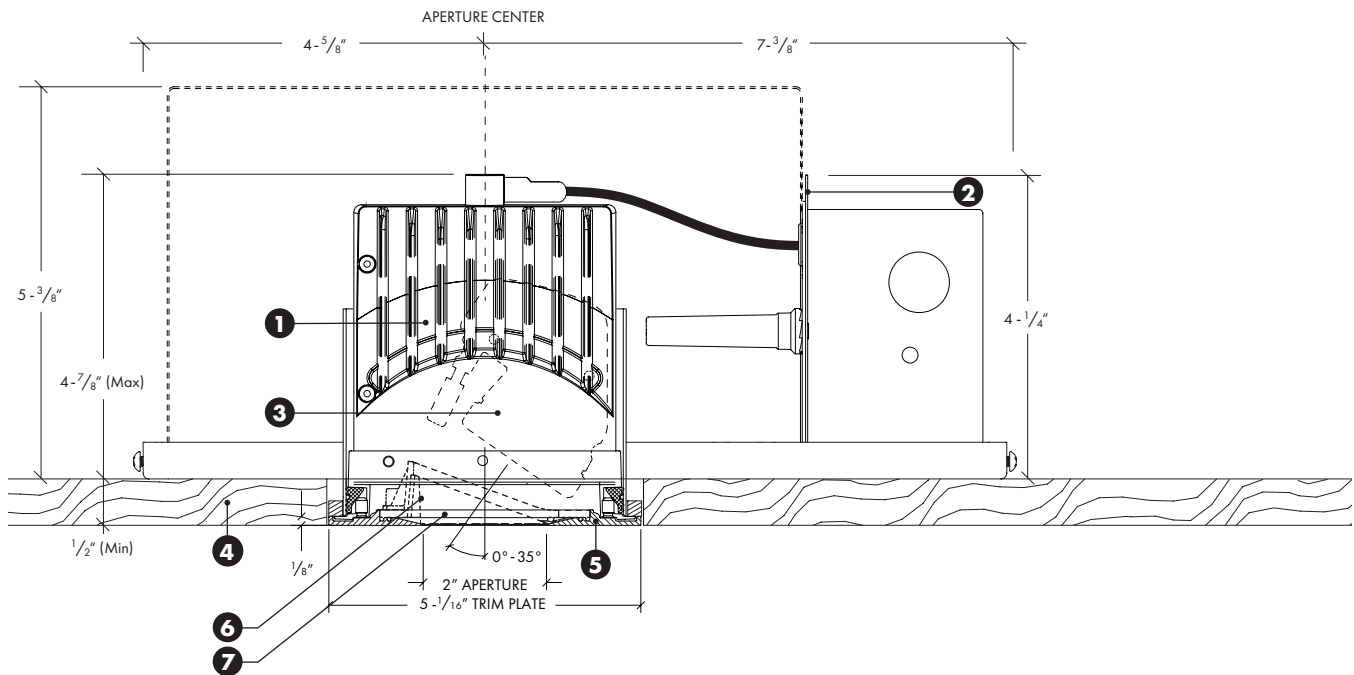


## 400 + FRM2-4W-R / FRM2-4W-R-CP NEW CONSTRUCTION HOUSINGS with FLR-4 ROUND FLAT TRIM FLANGELESS MOUNTED



CEILING TYPES: Wood/Stone | CEILING THICKNESS: 1/2" Min to 2-1/4" Max | CUT-OUT: 5-1/8"

## 400 + FRM2-4W-R / FRM2-4W-R-CP NEW CONSTRUCTION HOUSINGS with FLR-4 ROUND FLAT TRIM FLANGELESS MOUNTED



- 1) 400 NEW CONSTRUCTION Light Engine** Airtight and IC Rated.
- 2) FRM2-4W-R / FRM2-4W-R-CP** New Construction housing and power supply for FLANGELESS mounting **FLR-4** ROUND flat trim plate. For CCEA and spray foam ceiling applications, use **FRM2-4W-R-CP** frame (shown dashed).
- 3) Adjustable LED & Optics** Features 0° - 35° tilt and 360° rotation with tool-less locking.
- 4) Ceiling Material** (Wood/Stone) Accommodates ceiling thicknesses from 1/2" (min) to 2-1/4" (max) without affecting aiming or rotation.
- 5) FLR-4 ROUND Flat Trim Plate** features unique magnetic attachment. Mounts flush to finished ceiling.
- 6) WW-4 Wall Wash Accessory Lens** (optional) - Factory installed into trim plate. UL WET LISTED 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.
- 7) CL4/SF4 Clear/Soft Focus Accessory Lens** (optional) - Factory installed into trim plate. UL WET LISTED 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.

#### 400 SERIES w/ FLS-4 TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	60	819-964	14	59-69
HI	1000	3000K	94	60	881-1037	14	63-74
HI-2-27	1000	2700K	94	63	1006	14.5	69
HI-2	1000	3000K	94	63	1082	14.5	75
WD	350	3000-1800K	97	82	694-818	15	48-56
WD-2	350	2800-2200K	97	78	686-809	15	47-55
WD-4	350	3000-2200K	97	76	732-864	15	50-59

Performance summary for HI LED with 15°, 25°, and 40° optic options and HI-2 LED with 10° optic option.  
Performance summary for WD and WD-4 LED at 3000K and WD-2 LED at 2800K with 15°, 25°, and 40° optic options.

#### 400 SERIES w/ FLR-4 TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	60	811-955	14	58-68
HI	1000	3000K	94	60	872-1027	14	62-73
HI-2-27	1000	2700K	94	63	1004	14.5	69
HI-2	1000	3000K	94	63	1080	14.5	74
WD	350	3000-1800K	97	81	708-840	15	48-58
WD-2	350	2800-2200K	97	78	700-835	15	48-57
WD-4	350	3000-2200K	97	76	721-855	15	49-58

Performance summary for HI LED with 15°, 25°, and 40° optic options and HI-2 LED with 10° optic option.  
Performance summary for WD and WD-4 LED at 3000K and WD-2 LED at 2800K with 15°, 25°, and 40° optic options.

#### 400 SERIES w/ FLS-4 TRIM + WW-4 WALL WASH ACCESSORY - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	60	652	14	47
HI	1000	3000K	94	60	701	14	50
HI-2-27	1000	2700K	94	64	504	14.5	35
HI-2	1000	3000K	94	64	542	14.5	37
WD	350	3000-1800K	97	82	548	15	38
WD-2	350	2800-2200K	97	80	543	15	37
WD-4	350	3000-2200K	97	78	580	15	40

Performance summary for HI LED with 40° optic option and HI-2 LED with 10° optic + FL lens option.  
Performance summary for WD and WD-4 LED at 3000K and WD-2 LED at 2800K with 40° optic option.

#### 400 SERIES w/ FLR-4 TRIM + WW-4 WALL WASH ACCESSORY - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	60	659	14	47
HI	1000	3000K	94	60	709	14	51
HI-2-27	1000	2700K	94	64	509	14.5	35
HI-2	1000	3000K	94	64	547	14.5	38
WD	350	3000-1800K	97	82	584	15	40
WD-2	350	2800-2200K	97	80	560	15	38
WD-4	350	3000-2200K	97	77	587	15	40

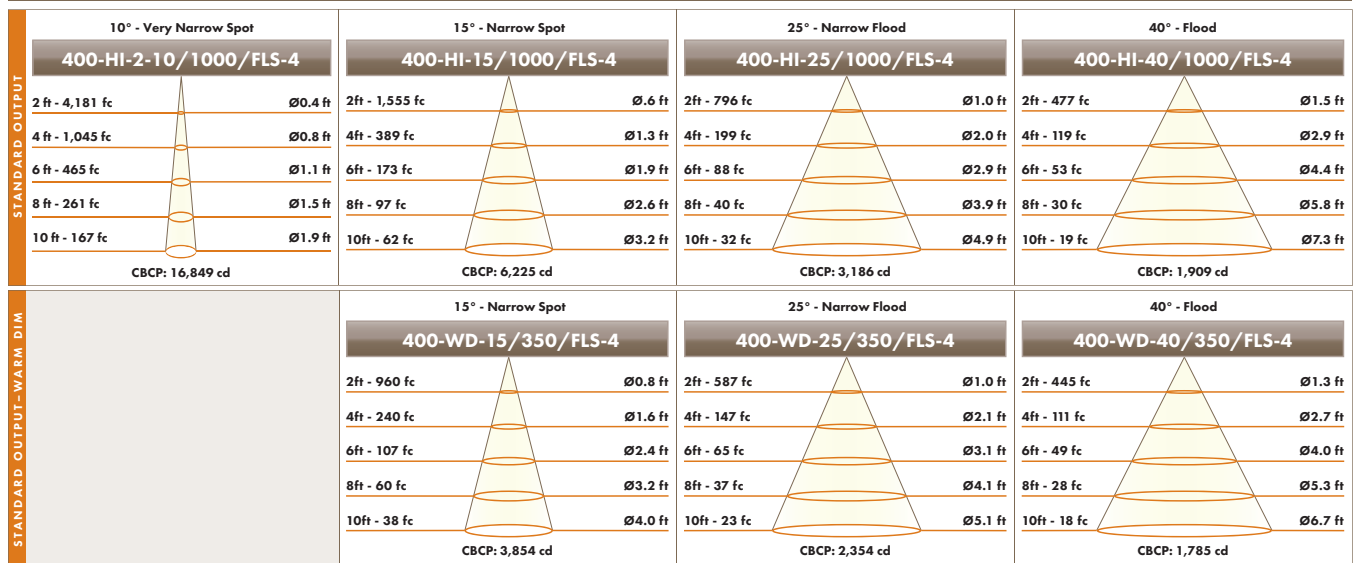
Performance summary for HI LED with 40° optic option and HI-2 LED with 10° optic + FL lens option.  
Performance summary for WD and WD-4 LED at 3000K and WD-2 LED at 2800K with 40° optic option.

## 400 SERIES - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

OPTIC OPTIONS	LED OPTIONS	BEAM ENHANCING LENS (OPTIONAL)*				
		+ NSP	+ NFL	+ FL	+ WFL	+ LS
10° Very Narrow Spot	HI-2	14°	25°	41°	44°	14° x 26°
15° Narrow Spot	HI	21°	30°	48°	56°	21° x 35°
15° Narrow Spot	WD/WD-2/WD-4	24°	32°	49°	56°	24° x 46°
25° Narrow Flood	HI	28°	35°	51°	59°	29° x 47°
25° Narrow Flood	WD/WD-2/WD-4	29°	35°	51°	58°	31° x 44°
40° Flood	HI	41°	44°	59°	66°	42° x 53°
40° Flood	WD/WD-2/WD-4	37°	42°	55°	62°	39° x 50°

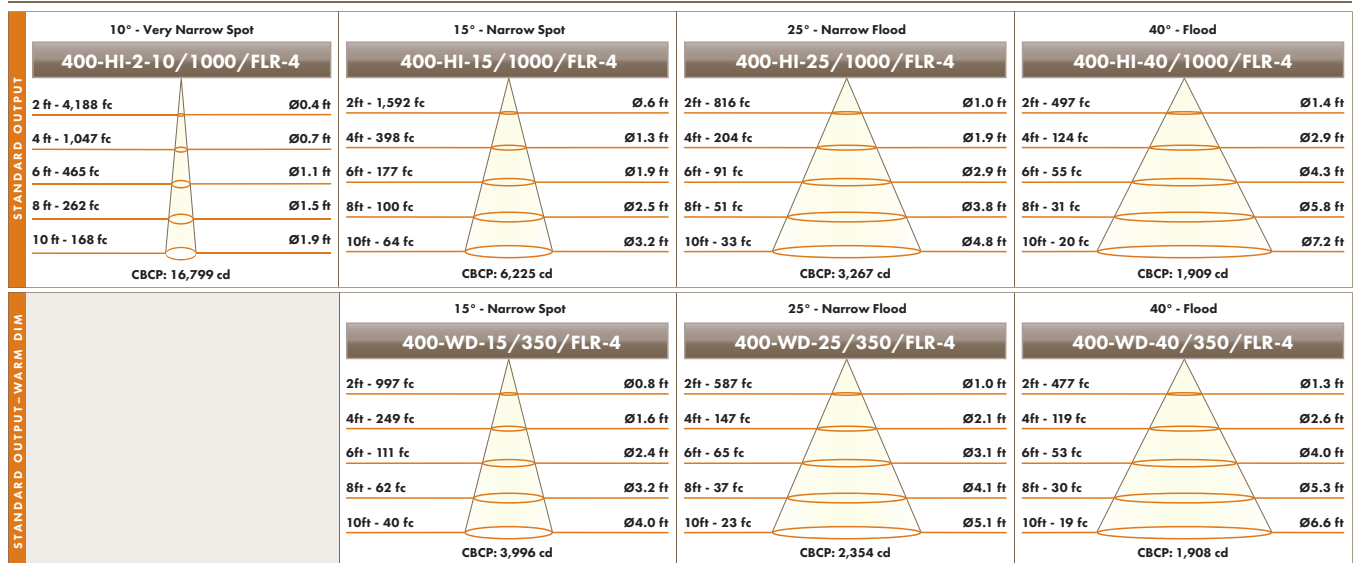
\*Beam enhancing lens used in combination with 10°, 15°, 25°, or 40° optic to achieve desired beam spread.

## 400 SERIES w/ FLS-4 TRIM - CONE OF LIGHT DIAGRAMS












Performance shown for 3000K. Output varies by CCT.

## 400 SERIES w/ FLR-4 TRIM - CONE OF LIGHT DIAGRAMS












Performance shown for 3000K. Output varies by CCT.

**400-HI-40 w/ FLS-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.4	3.0	0.4	0.4	0.2	0.4	0.1	0.1	0.1	0.1	0.1
		1.5 ft	28.9	31.1	28.9	25.8	25.3	25.8	13.3	13.9	13.3	12.1	11.3
		2.5 ft	32.7	36.4	32.7	29.2	32.3	29.2	22.2	24.3	22.2	20.2	21.5
		3.5 ft	21.9	23.8	21.9	19.9	22.4	19.9	19.0	21.1	19.0	17.3	19.6
		4.5 ft	13.3	14.2	13.3	12.5	13.6	12.5	13.3	14.5	13.3	12.4	13.8
		5.5 ft	8.3	8.7	8.3	7.9	8.4	7.9	9.0	9.6	9.0	8.5	9.2
		6.5 ft	5.4	5.6	5.4	5.2	5.5	5.2	6.1	6.4	6.1	5.8	6.3
		7.5 ft	3.6	3.7	3.6	3.5	3.7	3.5	4.2	4.4	4.2	4.1	4.3
		8.5 ft	2.6	2.6	2.6	2.5	2.6	2.5	3.0	3.2	3.0	3.0	3.1
		9.5 ft	1.9	1.9	1.9	1.8	1.9	1.8	2.2	2.3	2.2	2.2	2.3










Note: With **HI** LED option, use 40° optic and 20° aiming angle for optimal performance. Data shown for 3000K CCT.

**400-HI-2-10-FL w/ FLS-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.4	0.4	0.4	0.4	0.3	0.4	0.1	0.1	0.1	0.1	0.1
		1.5 ft	18.3	19.3	18.3	16.7	14.9	16.7	7.5	7.6	7.5	7.0	5.9
		2.5 ft	23.7	26.3	23.7	21.2	22.8	21.2	15.4	17.0	15.4	14.1	14.6
		3.5 ft	16.7	18.2	16.7	15.1	16.7	15.1	14.0	15.5	14.0	12.8	14.1
		4.5 ft	10.5	11.2	10.5	9.8	10.6	9.8	10.2	11.1	10.2	9.5	10.4
		5.5 ft	6.7	7.0	6.7	6.3	6.7	6.3	7.0	7.5	7.0	6.6	7.2
		6.5 ft	4.3	4.5	4.3	4.2	4.4	4.2	4.9	5.1	4.9	4.6	4.9
		7.5 ft	3.0	3.0	3.0	2.9	3.0	2.9	3.4	3.6	3.4	3.3	3.5
		8.5 ft	2.1	2.1	2.1	2.0	2.1	2.0	2.5	2.5	2.5	2.4	2.5
		9.5 ft	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.9	1.8	1.8	1.8

Note: With **HI-2** LED option, use 10° optic + **FL** lens and 20° aiming angle for optimal performance. Data shown for 3000K CCT.










**400-WD-40 w/ FLS-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1
		1.5 ft	17.0	18.6	17.0	15.4	15.0	15.4	7.2	7.5	7.2	6.8	6.1
		2.5 ft	22.9	26.3	22.9	20.5	23.0	20.5	14.3	16.2	14.3	13.1	14.1
		3.5 ft	17.0	19.4	17.0	15.2	17.9	15.2	13.8	16.0	13.8	12.6	14.6
		4.5 ft	10.9	12.0	10.9	10.0	11.4	10.0	10.4	11.9	10.4	9.6	11.2
		5.5 ft	7.0	7.5	7.0	6.5	7.2	6.5	7.3	8.1	7.3	6.8	7.8
		6.5 ft	4.6	4.8	4.6	4.4	4.7	4.4	5.1	5.5	5.1	4.8	5.3
		7.5 ft	3.1	3.3	3.1	3.0	3.2	3.0	3.6	3.8	3.6	3.4	3.7
		8.5 ft	2.2	2.3	2.2	2.1	2.2	2.1	2.6	2.7	2.6	2.5	2.7
		9.5 ft	1.6	1.7	1.6	1.6	1.6	1.6	1.9	2.0	1.9	1.9	2.0

Note: With **WD**, **WD-2**, or **WD-4** LED option, use 40° optic and 20° aiming angle for optimal performance. Data shown for 3000K CCT.












**400-HI-40 w/ FLR-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.3	0.2	0.3	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1
		1.5 ft	28.1	31.3	28.1	25.4	25.8	25.4	12.9	13.9	12.9	12.1	11.4
		2.5 ft	32.1	36.9	32.1	28.6	33.0	28.6	21.6	24.5	21.6	19.7	21.8
		3.5 ft	21.9	24.6	21.9	19.7	23.2	19.7	18.8	21.6	18.8	17.0	20.0
		4.5 ft	13.6	14.8	13.6	12.5	14.3	12.5	13.4	15.0	13.4	12.3	14.3
		5.5 ft	8.6	9.1	8.6	8.0	8.9	8.0	9.1	10.0	9.1	8.5	9.6
		6.5 ft	5.6	5.9	5.6	5.3	5.8	5.3	6.3	6.7	6.3	5.9	6.6
		7.5 ft	3.8	4.0	3.8	3.7	3.9	3.7	4.4	4.7	4.4	4.2	4.6
		8.5 ft	2.7	2.8	2.7	2.6	2.8	2.6	3.2	3.3	3.2	3.1	3.3
		9.5 ft	2.0	2.0	2.0	1.9	2.0	1.9	2.4	2.4	2.4	2.3	2.4










Note: With **HI** LED option, use 40° optic and 20° aiming angle for optimal performance. Data shown for 3000K CCT.

**400-HI-2-10-FL w/ FLR-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.5	0.4	0.5	0.5	0.3	0.5	0.2	0.2	0.2	0.2	0.2
		1.5 ft	19.5	21.2	19.5	17.6	16.9	17.6	8.4	8.7	8.4	7.8	7.1
		2.5 ft	23.8	26.9	23.8	21.2	23.7	21.2	15.7	17.6	15.7	14.3	15.6
		3.5 ft	16.7	18.4	16.7	15.2	17.1	15.2	14.1	15.8	14.1	12.9	14.6
		4.5 ft	10.6	11.3	10.6	9.8	10.8	9.8	10.2	11.2	10.2	9.5	10.7
		5.5 ft	6.7	7.1	6.7	6.4	6.8	6.4	7.1	7.6	7.1	6.7	7.3
		6.5 ft	4.4	4.6	4.4	4.2	4.5	4.2	4.9	5.2	4.9	4.7	5.0
		7.5 ft	3.0	3.1	3.0	2.9	3.0	2.9	3.5	3.6	3.5	3.3	3.5
		8.5 ft	2.1	2.2	2.1	2.1	2.1	2.1	2.5	2.6	2.5	2.4	2.5
		9.5 ft	1.5	1.6	1.5	1.5	1.6	1.5	1.8	1.9	1.8	1.8	1.9

Note: With **HI-2** LED option, use 10° optic + **FL** lens and 20° aiming angle for optimal performance. Data shown for 3000K CCT.

**400-WD-40 w/ FLR-4 TRIM + WW-4 WALL WASH ACCESSORY - FOOTCANDLES ON WALL**

DISTANCE TO WALL		2.0 ft						2.5 ft					
ON CENTER SPACING			2.0 ft			2.5 ft			2.5 ft			3.0 ft	
	DISTANCE FROM CEILING	0.5 ft	0.3	0.2	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1
		1.5 ft	20.7	23.1	20.7	18.6	18.3	18.6	9.1	10.0	9.1	8.4	8.9
		2.5 ft	26.5	30.3	26.5	23.5	26.4	23.5	17.0	19.2	17.0	15.4	16.6
		3.5 ft	19.0	21.2	19.0	17.0	19.6	17.0	15.8	18.0	15.8	14.3	16.4
		4.5 ft	12.0	12.9	12.0	11.1	12.3	11.1	11.6	12.9	11.6	10.7	12.2
		5.5 ft	7.6	8.0	7.6	7.2	7.7	7.2	8.0	8.7	8.0	7.5	8.3
		6.5 ft	5.0	5.2	5.0	4.8	5.1	4.8	5.6	5.9	5.6	5.3	5.7
		7.5 ft	3.4	3.5	3.4	3.3	3.4	3.3	3.9	4.1	3.9	3.8	4.0
		8.5 ft	2.4	2.5	2.4	2.3	2.4	2.3	2.8	2.9	2.8	2.7	2.9
		9.5 ft	1.7	1.8	1.7	1.7	1.8	1.7	2.1	2.2	2.1	2.0	2.1

Note: With **WD**, **WD-2**, or **WD-2** LED option, use 40° optic and 20° aiming angle for optimal performance. Data shown for 3000K CCT.