

LED LIGHT ENGINE: **RETROFIT**

LAMP MODULE: **J2, K2, or M2**

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



eight
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PRODUCT FEATURES

Retrofit LED light engines to convert existing **800 Series** recessed housing models **801, 802, or 803** to the latest in LED technology. Available LED lamp modules include: **J2** – Adjustable, **K2** – Fixed Position, and **M2-S/R** – Mirror Reflector Square/Round.

Lamp Module Options

- **J2** Fully adjustable lamp module features patented tool-free adjustment mechanism optimized for true 0-45° vertical and 360° horizontal adjustment. Use for adjustable accent, wall wash*, and general lighting applications. *For wall washing: specify 40° optic option with **HI**, **WD**, or **WD-2** LED or 10° optic option and **FL** lens with **HI-2** LED. Requires **WW-8** wall wash accessory, specified with **FS/FR** or **FLS/FLR** (1.75" aperture) **800 Series** trims.
- **K2** Fixed position lamp module. Use for general lighting applications.
- **M2-S/M2-R** Fully adjustable lamp module with integral 4" SQUARE or ROUND trim plate fits into all 800 Series Seamless trim assemblies. Features 45-90° vertical and 90° horizontal adjustment. Available in **WH** - White or **OB** - Oil-rubbed bronze. Use on sloped ceilings for adjustable accent, wall wash, and general lighting applications.
- Optic options include: 10°, 15°, 25°, and 40°.

Note: 10° optic option requires **HI-2** LED and is not field interchangeable with **HI**, **WD**, or **WD-2** LED options

LED Options

- **HI** 3000K 92+ CRI White LED. Minimum 2-Step color binning.
- **HI-2** 3000K 92+ CRI White LED. Minimum 2-Step color binning. Note: For use with 10° optic option only.
- **WD** 3000-1800K 97+ CRI Warm Dim LED. Minimum 3-Step color binning.
- **WD-2** 2800-2200K 95+ CRI Warm Dim LED. Minimum 3-Step color binning.

Note: To ensure fixture to fixture color consistency, use of the same LED option with adjacent fixtures is recommended.

Optic Options and Accessories

- Optic options include: 10°, 15°, 25°, and 40°. Note: 10° optic option for use with **HI-2** LED option only.
- Optional beam enhancing lens accessories include: **NSP**-Narrow Softening, **NFL**-Medium Softening, **FL**-Wide Softening, **WFL**-Extra Wide Softening, and **LS**-Linear Spread.
- Optional color filtering lens accessories include: **CF24**-2400K, **CF27**-2700K, & **CF35**-3500K.

Dimming Options

- **DIM1-8** Phase dimming LED driver with 120v/60Hz input. Dimmable to 1% using compatible Forward or Reverse-Phase dimmers.
- **DIM2-8** 0-10v LED dimming driver with 120-277v/60Hz input. Dimmable to 1% using compatible 0-10v dimmers.
- **PR1-8** Premium phase dimming LED driver with 120v/60Hz input. Dimmable to 0.1% using compatible Forward or Reverse-Phase dimmers.
- **EL1-8*** EldoLED 0-10v LED dimming driver with 120-277v/60Hz input. Dimmable to 1% using compatible 0-10v dimmers.
- **EL2-8*** EldoLED DALI dimming LED driver with 120-277v/60Hz input. Dimmable to 1% using compatible DALI dimmers.
- **LU1-8** Lutron Hi-lume **LTEA2W** 1% 2-wire LED driver (120v Forward Phase only). 120v/60Hz input.
- **LU2-8*** Lutron Hi-lume **LDE1** 1% EcoSystem LED driver with Soft-on, Fade-to-Black. 120-277v/60Hz input.
- **LU4-8*** Lutron Hi-lume Premier **PEQOE** 0.1% EcoSystem LED driver with Soft-on, Fade-to-Black. 120-277v/60Hz input.

*Driver option not available for use with housing models 801 or 802.

For complete list of compatible dimmers, see 8lighting.com/resources-downloads

Output*

- **700** Low output. Delivers up to 821 lumens.
- **1000** Standard output. Delivers up to 1087 lumens.
- **1000-WD** Standard output – Warm Dimming. Delivers up to 905 lumens.

*Output varies depending on lamp module, LED type, trim type, and optical accessories used (see page 3 for additional details).

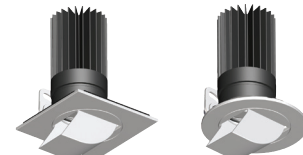
For photometric files in PDF and IES formats, see 8lighting.com/800-series-photometry



J2 - LED ADJUSTABLE







K2 - LED FIXED POSITION



M2 - LED MIRROR REFLECTOR

PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

LAMP MODULE OPTIONS	LED OPTIONS	OPTIC OPTIONS	OPTICAL ACCESSORIES (Optional)	TRIM FINISH (Leave blank for J2 and K2 modules)	DIMMING OPTIONS	OUTPUT	EXISTING HOUSING TYPE*
 <p>J2 LED ADJUSTABLE 45° tilt, full 360° rotation with tool-less locking vertical and horizontal adjustment</p>	<p>HI 3000K White LED</p> <p>HI-2* 3000K White LED</p> <p>WD† 3000-1800K Warm Dim LED</p> <p>WD-2† 2800-2200K Warm Dim LED</p> <p>*For use with 10° optic only. Available in low and standard outputs only.</p> <p>†Available in standard output only</p>	<p>10* 10° Very Narrow Spot</p> <p>15 15° Narrow Spot</p> <p>25 25° Narrow Flood</p> <p>40 40° Flood</p> <p>*For use with HI-2 LED only</p>	<p>NSP Narrow Softening Lens</p> <p>NFL Medium Softening Lens</p> <p>FL Wide Softening Lens</p> <p>WFL Extra Wide Softening Lens</p> <p>LS Linear Spread Lens</p> <p>CF24 2400K Color Filtering Lens</p> <p>CF27 2700K Color Filtering Lens</p> <p>CF35 3500K Color Filtering Lens</p>	<p>WH WHITE Field paint-able to match ceiling finish</p> <p>PN POLISHED NICKEL*†</p> <p>SN SATIN NICKEL*†</p> <p>OB OIL-RUBBED BRONZE*</p> <p>BK BLACK*†</p> <p>*Specialty finish. Additional lead time required.</p> <p>†Finish not available with M2 modules.</p>	<p>DIM1-8 Forward or Reverse-Phase 1% Dimming</p> <p>DIM2-8 0-10v 1% Dimming</p> <p>PR1-8* Premium Forward or Reverse-Phase 0.1% Dimming</p> <p>EL1-8† EldoLED 0-10v 1% Dimming</p> <p>EL2-8† EldoLED DALI 1% Dimming</p> <p>LU1-8 Lutron Hi-Lume Forward-Phase 1% Dimming</p> <p>LU2-8† Lutron Hi-Lume EcoSystem 1% Dimming</p> <p>LU4-8† Lutron 0.1% EcoSystem Dimming</p> <p>*Not available with WD or WD-2 options</p> <p>† Not available for use with housing models 801 or 802</p>	<p>700* Low output</p> <p>1000 Standard output</p> <p>1000-WD Standard output – Warm Dimming</p> <p>*Not available with M2 lamp module options</p>	<p>801 New Construction – Non-I.C.</p> <p>802 New Construction – Airtight-I.C.</p> <p>803 New Construction – Airtight-H.C. Non-I.C.</p> <p>* Existing housing type required for correct dimming driver mounting configuration</p>
 <p>K2 LED FIXED POSITION</p>							
 <p>M2-S* LED MIRROR REFLECTOR module w/integral 4" SQUARE trim plate fits into square Seamless Series™ trim assemblies</p>							
 <p>M2-R* LED MIRROR REFLECTOR module w/integral 4" ROUND trim plate fits into round Seamless Series™ trim assemblies</p> <p>*M2 modules require trim finish selection</p>							

Optic Option and Accessory Notes

One field interchangeable optic option included standard. Up to two additional optical accessories can be accommodated.

Installation Notes

Ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation. For models with EL1-8, EL2-8, LU1-8 or LU2-8 dimming options, ambient temperatures should not exceed 25°C (77°F).

Warranty

All No. 8 Lighting products are by a 5-year limited warranty. For specific warranty details and limitations, see 8lighting.com/resources-downloads

OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

OPTICAL OPTIONS	BEAM ENHANCING LENS (OPTIONAL)*				
	+ NSP	+ NFL	+ FL	+ WFL	+ LS
10° Very Narrow Spot	14°	27°	46°	71°	14 x 52°
15° Spot	20°	27°	42°	61°	19 x 47°
25° Narrow Flood	27°	34°	47°	67°	26 x 52°
40° Flood	41°	42°	56°	68°	36 x 57°
Lumen Multiplier	0.93	0.87	0.88	0.82	0.89

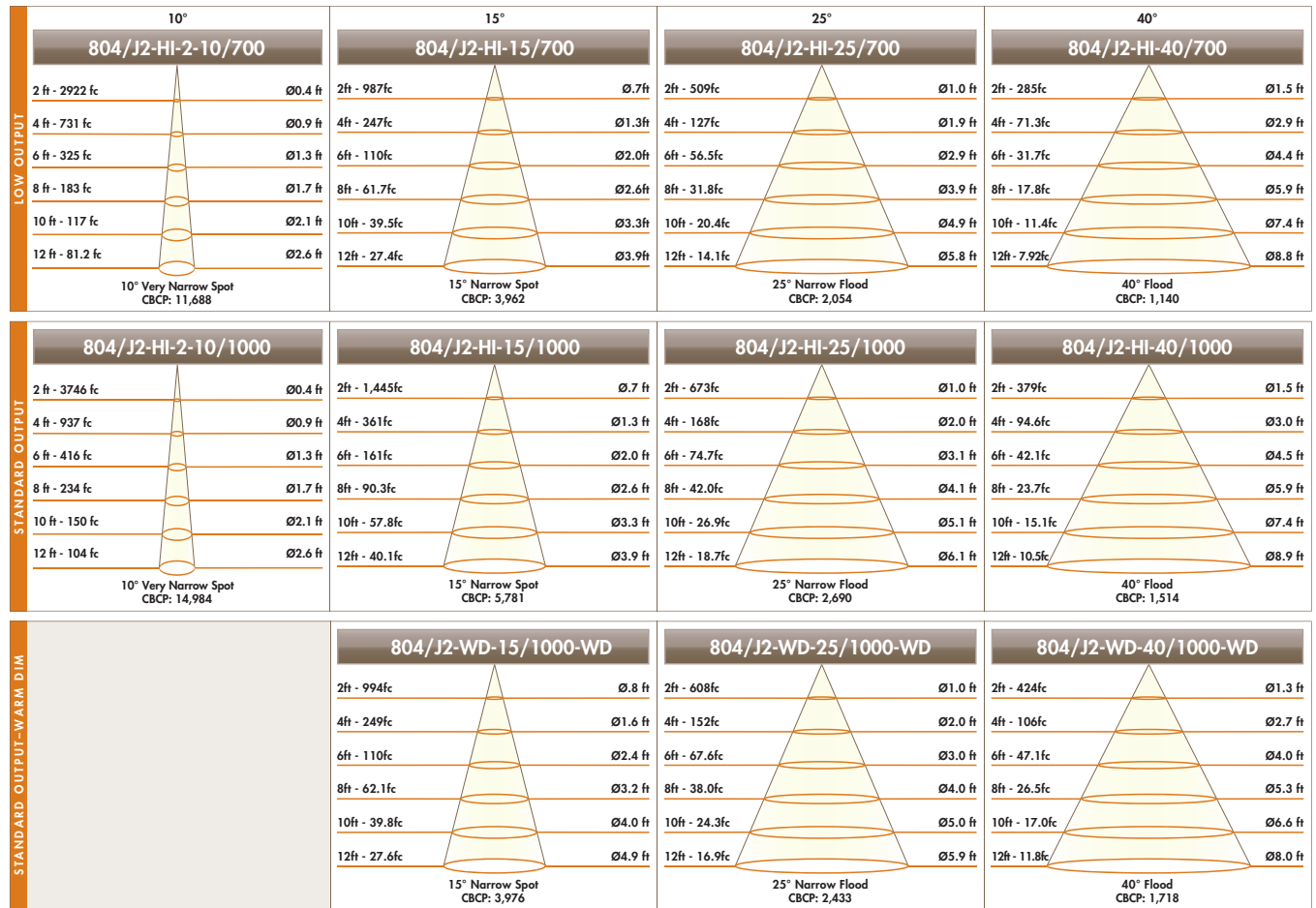
*Beam enhancing lens used in combination with 10°, 15°, 25°, or 40° optic to achieve desired beam spread

LAMP MODULE AND LED PERFORMANCE SUMMARY

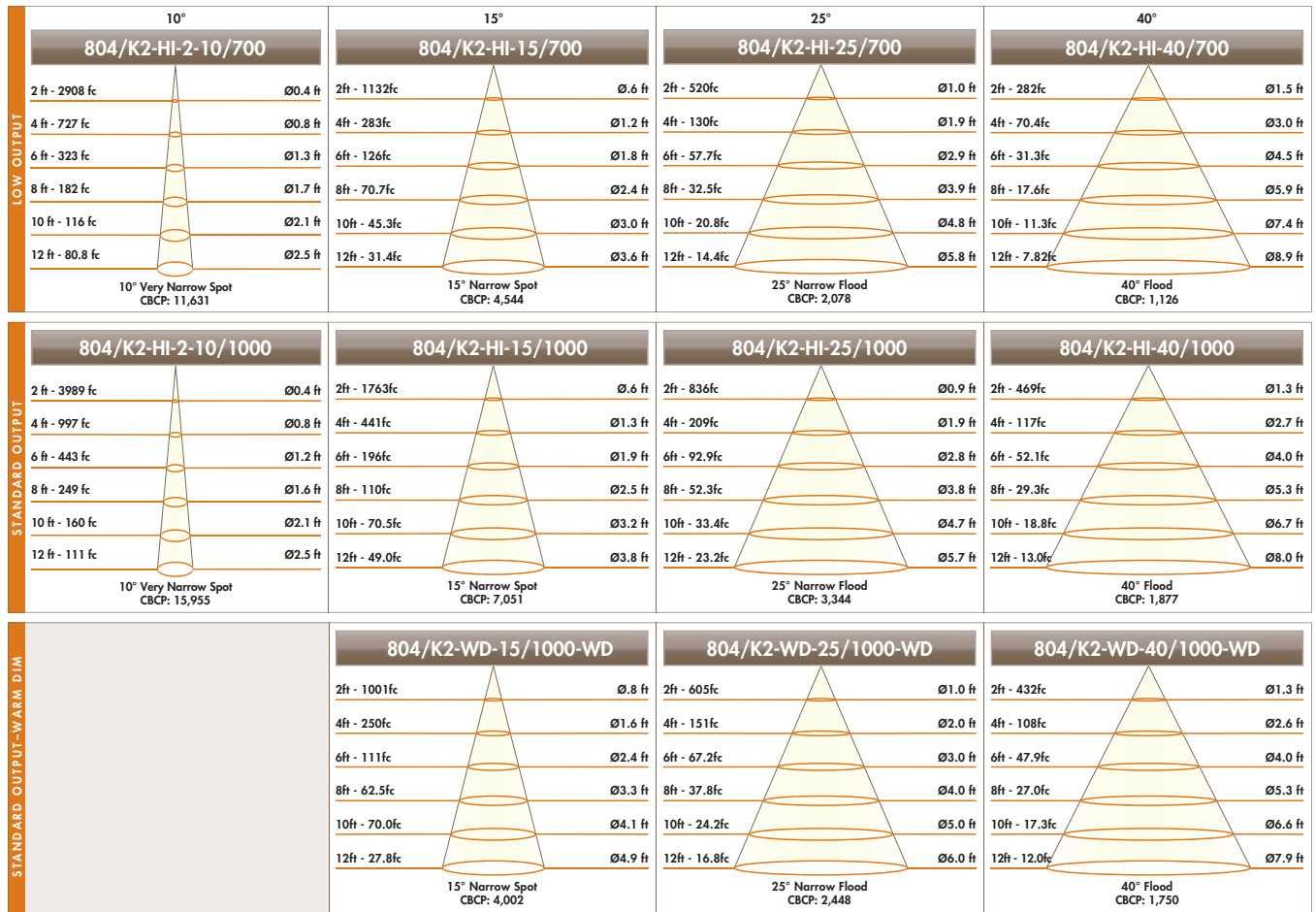
Lamp Module	LED	Output	CCT	CRI	Delivered Lumens	System Wattage	Delivered LPW	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	
J2	HI-2	700	3000	93+	789-803	9.7	81-83	94	97	99	94	94	96	92	83	63	92	95	83	95	99	
	HI-2	1000	3000	93+	1009-1023	14.0	72-73	94	97	99	94	94	96	92	83	63	92	95	83	95	99	
	HI	700	3000	92+	470-660	9.5	50-70	94	97	99	94	93	97	93	82	60	92	96	83	95	99	
	HI	1000	3000	92+	715-950	15.0	48-63	93	97	99	93	93	97	91	81	57	92	94	85	94	99	
	WD	1000-WD	3000-1800	97+	603-881	14.3	42-62	99	99	96	99	99	99	97	98	96	91	97	97	82	100	97
	WD-2	1000-WD	2800-2200	95+	585-855	14.3	41-60	98	97	96	96	99	93	90	86	74	96	96	87	99	99	
K2	HI-2	700	3000	93+	809-821	9.7	83-84	94	97	98	94	94	96	93	84	83	91	95	82	95	98	
	HI-2	1000	3000	93+	1077-1087	14.2	76	94	97	98	94	94	96	93	84	83	91	95	82	95	98	
	HI	700	3000	92+	550-689	9.3	59-74	94	97	99	94	94	97	92	83	61	92	96	83	95	99	
	HI	1000	3000	92+	840-1050	15	56-70	93	97	99	93	93	97	91	81	57	92	94	85	94	99	
	WD	1000-WD	3000-1800	97+	703-905	14.5	46-62	99	99	96	99	99	97	98	96	91	96	97	83	100	97	
	WD-2	1000-WD	2800-2200	95+	682-878	14.5	47-61	98	97	96	96	99	93	90	86	74	96	96	87	99	99	
M2	HI	1000	3000	92+	596-712	15.0	39-47	92	97	99	92	92	96	91	80	55	91	93	82	94	99	
	WD	1000-WD	3000-1800	97+	474-569	14.8	32-39	99	99	96	99	98	97	97	95	88	96	98	83	100	97	
	WD-2	1000-WD	2800-2200	95+	460-552	14.8	31-37	98	97	96	96	99	93	90	86	74	96	96	87	99	99	

Note: Performance data shown for individual lamps.

J2 CONE OF LIGHT DIAGRAMS



K2 CONE OF LIGHT DIAGRAMS



803/J2-HI-40 w/ WW-8 WALL WASH ACCESSORY – PERFORMANCE SUMMARY

TRIM	Output	CCT	CRI	Delivered Lumens	System Wattage	Delivered LPW	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
FS/FLS	1000	3000	92+	591	14.3	41	92.7	96.7	99.5	92.8	92.6	96.7	91.6	80.3	56.5	91.6	94.2	84.0	93.9	99.2
FR/FLR	1000	3000	92+	543	14.3	38	92.3	96.7	99.2	92.1	92.1	96.6	91.0	79.4	54.7	91.6	93.3	83.7	93.6	99.4

LED Lumen Multipliers: For HI-2 LED with 10° optic and FL lens, use multiplier of 1.02. For WD LED with 40° optic, use multiplier of 0.93. For WD-2 LED with 40° optic, use multiplier of 0.90.

803/J2-HI-40/1000 w/ FS/FLS TRIM + WW-8 WALL WASH ACCESSORY – FOOTCANDLES ON WALL

FIXTURE DISTANCE TO WALL		24"						30"					
FIXTURE CENTERS (SPACING)		24"			30"			30"			36"		
DISTANCE FROM CEILING	1'	12.6	13.4	12.6	11.7	10.3	11.7	4.4	4.3	4.4	4.1	4.3	4.1
	2'	28.2	31.6	28.2	25.3	27.1	25.3	16.4	17.7	16.4	15.1	15.3	15.1
	3'	21.7	24.1	21.7	19.6	22.1	19.6	17.2	19.3	17.2	15.7	17.5	15.7
	4'	13.6	14.8	13.6	12.6	14.0	12.6	12.7	14.1	12.7	11.8	13.2	11.8
	5'	8.5	9.0	8.5	8.0	8.7	8.0	8.7	9.5	8.7	8.2	9.1	8.2
	6'	5.5	5.7	5.5	5.2	5.5	5.2	6.0	6.4	6.0	5.7	6.1	5.7
	7'	3.7	3.8	3.7	3.5	3.7	3.5	4.2	4.4	4.2	4.0	4.3	4.0
	8'	2.5	2.6	2.5	2.5	2.6	2.5	3.0	3.1	3.0	2.9	3.0	2.9
	9'	1.8	1.9	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.1	2.2	2.1

803/J2-HI-40/1000 w/ FR/FLR TRIM + WW-8 WALL WASH ACCESSORY – FOOTCANDLES ON WALL

FIXTURE DISTANCE TO WALL		24"						30"					
FIXTURE CENTERS (SPACING)		24"			30"			30"			36"		
DISTANCE FROM CEILING	1'	10.6	10.7	10.6	10.0	7.9	10.0	3.6	3.0	3.6	3.4	2.4	3.4
	2'	25.9	38.9	25.9	23.3	24.6	23.3	14.8	16.1	14.8	13.6	13.7	13.6
	3'	20.5	22.8	20.5	18.5	20.8	18.5	16.0	17.9	16.0	14.6	16.2	14.6
	4'	13.0	14.1	13.0	12.0	13.3	12.0	12.0	13.4	12.0	11.1	12.5	11.1
	5'	8.1	8.6	8.1	7.6	8.3	7.6	8.3	9.0	8.3	7.8	8.7	7.8
	6'	5.2	5.4	5.2	5.0	5.3	5.0	5.7	6.1	5.7	5.4	5.9	5.4
	7'	3.5	3.6	3.5	3.4	3.5	3.4	4.0	4.2	4.0	3.8	4.1	3.8
	8'	2.4	2.5	2.4	2.3	2.4	2.3	2.8	2.9	2.8	2.7	2.9	2.7
	9'	1.7	1.8	1.7	1.7	1.8	1.7	2.1	2.1	2.1	2.0	2.1	2.0

Note: With HI, WD or WD-2 LED options, use 40° optic and 20° aiming angle for optimal performance. With HI-2 LED option, use 10° optic + FL lens and 20° aiming angle for optimal performance.