

# HOUSING: **804S** – LOW PROFILE LAMP MODULE: **M2S** – MIRROR REFLECTOR | LED

Project Name	
Date	Type
Prepared By	
Comments	
Catalog # <b>804S/M2S-</b> - - - / / - /	



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## PRODUCT FEATURES

### HOUSING

- **804S** Low-Profile universal IC and Non-IC Rated housing available with two output options. Meets Washington State Airtight Standard WAC 51-11-0502 and in accordance with ASTM E283 to reduce energy loss. CCEA plenum rated for City of Chicago environmental air spaces. Low and Standard output options are IC-Rated for direct contact with standard or spray-foam thermal insulation with a max combined R-Value of R42. High output options are Non-IC rated for use where insulation can be kept a minimum of 3" away from all sides.
- Accepts **J2S**, **K2S**, and **M2S** LED Lamp Modules and all **800 Series** Trim Assemblies. Note: Minimum 4-1/2" ceiling space required when used with **INSET** and **BEVEL** Series Trim Assemblies.

### Lamp Module

- **M2S** Adjustable lamp module features 35-90° vertical\* and 90° horizontal adjustment. Use on sloped ceilings for adjustable accent, wall wash, and general lighting applications.
- Lamp module assembly includes either a **SQUARE** or **ROUND** trim plate for use with **800 Series Seamless** trims.

\*Vertical adjustment range based on ceiling thickness and trim type used. See Page 3 for additional details.

### 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.

### Trim Finish Options

- Available finishes include: **WH** - White (field paintable to match ceiling finish) or **OB** - Oil-Rubbed Bronze.

### Dimming Options

- **DIM1-8** Forward or Reverse-Phase 1% dimming driver. 120v/60Hz input.
- **DIM2-8** 0-10v 1% dimming driver. 120-277v/60Hz input.
- **PR1-8** Premium Forward or Reverse-Phase 0.1% dimming driver. 120v/60Hz input.
- **EL1-8** EldoLED 0-10v 1% dimming driver configured for linear control. 120-277v/60Hz input.
- **EL1-01-8** EldoLED 0-10v 0.1% dimming driver configured for linear control. 120-277v/60Hz input.
- **EL2-8** EldoLED DALI 1% dimming driver configured for linear control. 120-277v/60Hz input.
- **EL2-01-8** EldoLED DALI 0.1% dimming driver configured for linear control. 120-277v/60Hz input.
- **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 w/ Soft-on, Fade-to-Black. 120-277v/60Hz input.
- **LU4-8** Lutron Hi-lume Premier **PEQOE** 0.1% EcoSystem LED driver w/ Soft-on, Fade-to-Black. 120 or 277v/60Hz input.

For a complete list of compatible dimmers, see [8lighting.com/resources-downloads](http://8lighting.com/resources-downloads)

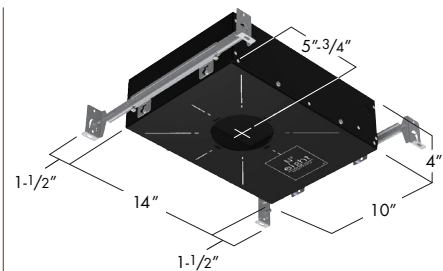
### Output

- **1000** Standard output. Delivers up to 712 lumens.
- **1000-WD** Standard output – Warm Dimming. Delivers up to 569 lumens.
- **1400** High output. Delivers up to 944 lumens. Available in Type Non-IC only.

For photometric files in PDF and IES formats, see [8lighting.com/800-series-photometry](http://8lighting.com/800-series-photometry)

### Mounting Accessories

- **BH** Bar Hangers for joist mounting.
- **BB** Butterfly Brackets for use with commercial 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.

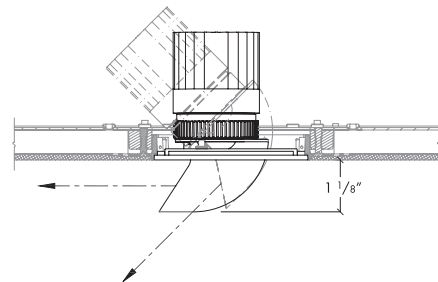


**804S** - LOW PROFILE HOUSING  
(shown with BH mounting accessory)



**M2S-S**                      **M2S-R**  
**M2S** - LED MIRROR REFLECTOR

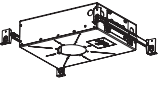




## LAMP MODULE **M2S** – TRIM ASSEMBLY CROSS SECTION DETAIL



**Note:** Cross sections are for illustration purposes only. Refer to Page 3 for additional details.

PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

**804S** / **M2S-** - - - - - / - - - - - / - - - - -

HOUSING	LAMP MODULE	LED OPTIONS	OPTIC OPTIONS	OPTICAL ACCESSORIES (Optional)	TRIM FINISH	DIMMING OPTIONS	OUTPUT	MOUNTING ACCESSORIES
 <p><b>804S</b> New Construction – Low-Profile AIRTIGHT-IC and Non-IC Rated 10"W* x 14"L* x 4"H *Add 3" to length or width to accommodate mounting accessories</p>	<p><b>LED MIRROR REFLECTOR</b></p> <p><b>M2S-S</b> 4" SQUARE module w/integral trim plate fits into square Seamless Series™ trim assemblies.</p>  <p><b>M2S-R</b> 4" ROUND module w/integral trim plate fits into round Seamless Series™ trim assemblies.</p> 	<p><b>HI</b> 3000K White LED</p> <p><b>HI-2*</b> 3000K White LED</p> <p><b>WD†</b> 3000-1800K Warm Dim LED</p> <p><b>WD-2†</b> 2800-2200K Warm-Dim LED</p> <p>*For use with 10° optic only. Available in standard output only.</p> <p>†Available in standard output only</p>	<p><b>10*</b> 10° Very Narrow Spot</p> <p><b>15</b> 15° Narrow Spot</p> <p><b>25</b> 25° Narrow Flood</p> <p><b>40</b> 40°</p> <p>*For use with HI-2 LED option only</p>	<p><b>NSP</b> Narrow Softening Lens</p> <p><b>NFL</b> Medium Softening Lens</p> <p><b>FL</b> Wide Softening Lens</p> <p><b>WFL</b> Extra Wide Softening Lens</p> <p><b>LS</b> Linear Spread Lens</p> <p><b>CF24</b> 2400K Color Filtering Lens</p> <p><b>CF27</b> 2700K Color Filtering Lens</p> <p><b>CF35</b> 3500K Color Filtering Lens</p>	<p><b>WH</b> WHITE</p>  <p><b>OB*</b> OIL-RUBBED BRONZE</p>  <p>*Specialty finish</p>	<p><b>DIM1-8</b> Forward or Reverse-Phase 1% Dimming</p> <p><b>DIM2-8</b> 0-10v 1% Dimming</p> <p><b>PR1-8*</b> Premium Forward or Reverse-Phase 0.1% Dimming</p> <p><b>EL1-8†</b> EldoLED 0-10v 1% Dimming</p> <p><b>EL1-01-8†</b> EldoLED 0-10v 0.1% Dimming</p> <p><b>EL2-8†</b> EldoLED DALI 1% Dimming</p> <p><b>EL2-01-8†</b> EldoLED DALI 0.1% Dimming</p> <p><b>LU1-8</b> Lutron Hi-Lume Forward-Phase 1% Dimming</p> <p><b>LU2-8</b> Lutron Hi-Lume Eco System 1% Dimming</p> <p><b>LU4-8</b> Lutron 0.1% Eco-System Dimming</p> <p>*Not available with WD or WD-2 LED options † Also CE Certified with HI or HI-2 LED options</p>	<p><b>1000</b> Standard output</p> <p><b>1000-WD</b> Standard output – Warm Dimming</p> <p><b>1400*</b> High output</p> <p>*Non-IC only. Not available w/ LU2-8 or LU4-8 dimming options.</p>	<p><b>BH</b> Bar Hangers</p> <p><b>BB</b> Butterfly Brackets</p> <p><b>TBC-BH</b> T-Bar Mounting Clips + Bar Hangers</p> <p><b>PMB</b> Panel Mounting Brackets</p>

**Optic Option and Accessory Notes**

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

**Trim Finish 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.

**Installation Notes**

For Low and Standard output models, ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation. For High Output models and all models with **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](http://8lighting.com/resources-downloads)

**804S/M2S PERFORMANCE SUMMARY**

LED	Output	CCT	CRI	Delivered Lumens	System Wattage	Delivered LPW	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
<b>HI</b>	1000	3000	92+	596-712	15	39-47	92.3	96.6	99.2	91.9	92.0	96.3	91.2	79.7	55.0	91.4	92.9	82.1	93.5	99.4
<b>WD</b>	1000-WD	3000-1800	97+	474-569	14.8	32-39	99.1	99.0	96.1	98.6	98.1	97.2	97.3	94.9	87.8	95.5	97.5	82.5	99.6	96.8
<b>HI</b>	1400	3000	92+	755-944	20.7	37-46	92.8	98.3	97.0	90.7	92.5	97.3	89.4	79.0	54.7	94.9	91.9	82.1	94.6	99.2

LED Lumen Multipliers: For **HI-2** LED with 10° optic, use multiplier of 1.20. For **WD-2** LED, use multiplier of 0.97.

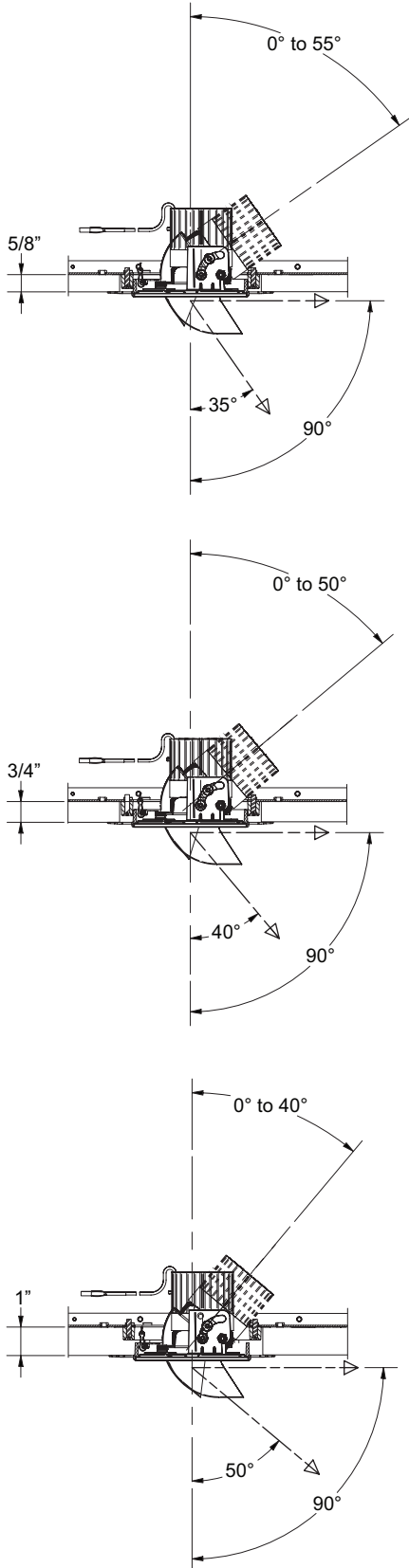
**OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY**

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°
<i>Lens Lumen Multiplier</i>	0.93	0.87	0.88	0.82	0.89

LED Lumen Multipliers: For **HI-2** LED with 10° optic, use multiplier of 1.20. For **WD-2** LED, use multiplier of 0.97.

**M2S LAMP MODULE - VERTICAL AIMING RANGE**

**SEAMLESS SERIES**  
PLASTER/SHEETROCK CEILING APPLICATIONS



**SEAMLESS SERIES**  
WOOD/STONE CEILING APPLICATIONS

