

HOUSING: **804S** – LOW PROFILE  
 LAMP MODULE: **K2S** – FIXED POSITION | LED



**No. 8**  
LIGHTING

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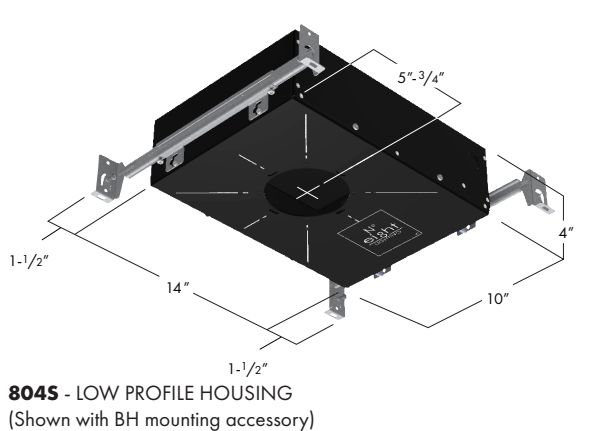
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 Doc # 91171-13.1





Project Name	
Date	Type
Prepared By	
Comments	
Catalog # <b>804S/K2S</b> –     –     –     /     –     /	

PRODUCT FEATURES



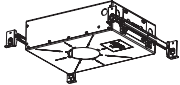

**804S/K2S SPECIFICATION SUMMARY**

	Static White Standard Output				Static White High Output		Warm Dimming	
	HI-2-27	HI-2	HI-27	HI	HI-27	HI	WD	WD-2
LED Option	HI-2-27	HI-2	HI-27	HI	HI-27	HI	WD	WD-2
Delivered Lumens	1050	1129	1042	1120	1369	1472	923	915
System Wattage	14.5	14.5	14	14	20	20	14.5	14.5
Efficacy	72	78	74	80	68	74	64	63
CRI	94	94	94	94	94	93	97	97
R9	62	63	59	60	57	58	81	77
CCT	2700K	3000K	2700K	3000K	2700K	3000K	3000-1800K	2800-2200K
Optic Options	10			15, 25, 40			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	Fixed Position							
Dimming 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, Round/Square Bevel, Round/Square Inset							
Finish Options	White, Oil-Rubbed Bronze, Polished Nickel, Satin Nickel, Black							
Trim Mounting Options	Flanged, Flangeless Sheetrock, Flangeless Wood							
Trim Lens Options	UL Wet Listed and IP54 Rated - Clear, Soft Focus							
Housing Options	New Construction: Type Non-IC Air-Tight, Type IC-CP Rated CCEA Approved Air-Tight							

Data shown for K2S Lamp Module with FS/FLS/INS-LG/NL trim.  
 Warm Dimming data shown for 3000K and 2800K.  
 See Performance Summaries for additional information.  
 800 Series Trims specified separately.

PRODUCT SPECIFIER/PRODUCT ORDER NUMBER

**804S** / **K2S** - - - - - / - - - - - /

HOUSING	LAMP MODULE	LED OPTIONS	OPTIC OPTIONS	OPTICAL ACCESSORIES (Optional)	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. †Minimum 4 -1/2" ceiling space required when used with INSET and BEVEL Series trim assemblies.</p>	 <p><b>K2S</b> LED FIXED POSITION</p>	<p><b>HI-27</b> 2700K White LED <b>HI</b> 3000K White LED <b>HI-2-27*</b> 2700K White LED <b>HI-2*</b> 3000K White LED <b>WD†</b> 3000-1800K Warm Dim LED <b>WD-2†</b> 2800-2200K Warm Dim LED *For use with 10° optic only. Available in standard output only. †Available in standard output only.</p>	<p><b>10*</b> 10° Very Narrow Spot <b>15</b> 15° Narrow Spot <b>25</b> 25° Narrow Flood <b>40</b> 40° Flood *For use with HI-2 LED option only.</p>	<p><b>NSP</b> Narrow Softening Lens <b>NFL</b> Medium Softening Lens <b>FL</b> Wide Softening Lens <b>WFL</b> Extra Wide Softening Lens <b>LS</b> Linear Spread Lens <b>CF24*</b> 2400K Color Filtering Lens <b>CF27*</b> 2700K Color Filtering Lens <b>CF35*</b> 3500K Color Filtering Lens *For use with HI and HI-2 3000K LED options only.</p>	<p><b>PR1-8</b> Premium Forward or Reverse-Phase &lt;1% Dimming <b>EL1-8†</b> EldoLED 0-10v 1% Dimming <b>EL1-01-8†</b> EldoLED 0-10v 0.1% Dimming <b>EL2-8†</b> EldoLED DALI 1% Dimming <b>EL2-01-8†</b> EldoLED DALI 0.1% Dimming <b>LU2-8</b> Lutron Hi-Lume LDE1 EcoSystem 1% Dimming <b>LU4-8</b> Lutron Hi-Lume PEQOE EcoSystem 0.1% Dimming †Also CE Certified with HI or HI-2 LED options.</p>	<p><b>1000</b> Standard output <b>1000-WD</b> Standard output – Warm Dimming <b>1400*</b> High output *Non-IC only. Not available w/ LU2-8 or LU4-8 dimming options.</p>	<p><b>BH</b> Bar Hangers for joist mounting <b>BB</b> Butterfly Brackets for c-channel or bar mounting <b>TBC-BH</b> T-Bar Mounting Clips + Bar Hangers for T-Bar mounting <b>PMB</b> Panel Mounting Brackets (set of two) for direct mounting to wood panels</p>

**Housing and Installation Notes**

**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. 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. For 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 **LU2-8** dimming option, ambient temperatures should not exceed 25°C (77°F). Accepts **J2S**, **K2S**, and **M2S** LED Lamp Modules and all **800 Series** Trim Assemblies. For 800 Series Trims (specified separately), see [8lighting.com/products-800-series-led](http://8lighting.com/products-800-series-led).

**Lamp Module, LED, Optic Option, and Accessory Notes**

**K2S** Fixed position lamp module for 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 two additional optical accessories can be accommodated.

**Dimming and Output Option Notes**

0-10v dimming options are configured for linear control. DALI dimming 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](http://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/800-series-photometry](http://8lighting.com/800-series-photometry).

**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](http://8lighting.com/resources-downloads).

**JA8-2022 CA Title 24 Compliant**

### 804S/K2S w/ FS/FLS/INS 1.75" APERTURE TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	59	854-992	14	61-71
HI	1000	3000K	94	60	918-1067	14	66-76
HI-27	1400	2700K	94	57	1123-1309	20	56-65
HI	1400	3000K	93	58	1208-1408	20	60-70
HI-2-27	1000	2700K	94	62	1025	14.5	71
HI-2	1000	3000K	94	63	1102	14.5	76
WD	1000-WD	3000-1800K	97	81	740-871	14.5	51-60
WD-2	1000-WD	2800-2200K	97	78	739-861	14.5	51-59

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

### 804S/K2S w/ FR/FLR/INR 1.75" APERTURE TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	59	849-979	14	61-70
HI	1000	3000K	94	60	913-1053	14	65-75
HI-27	1400	2700K	94	57	1125-1305	20	56-65
HI	1400	3000K	93	58	1210-1403	20	61-70
HI-2-27	1000	2700K	94	62	1015	14.5	70
HI-2	1000	3000K	94	63	1091	14.5	75
WD	1000-WD	3000-1800K	97	81	757-892	14.5	52-62
WD-2	1000-WD	2800-2200K	97	77	743-877	14.5	51-60

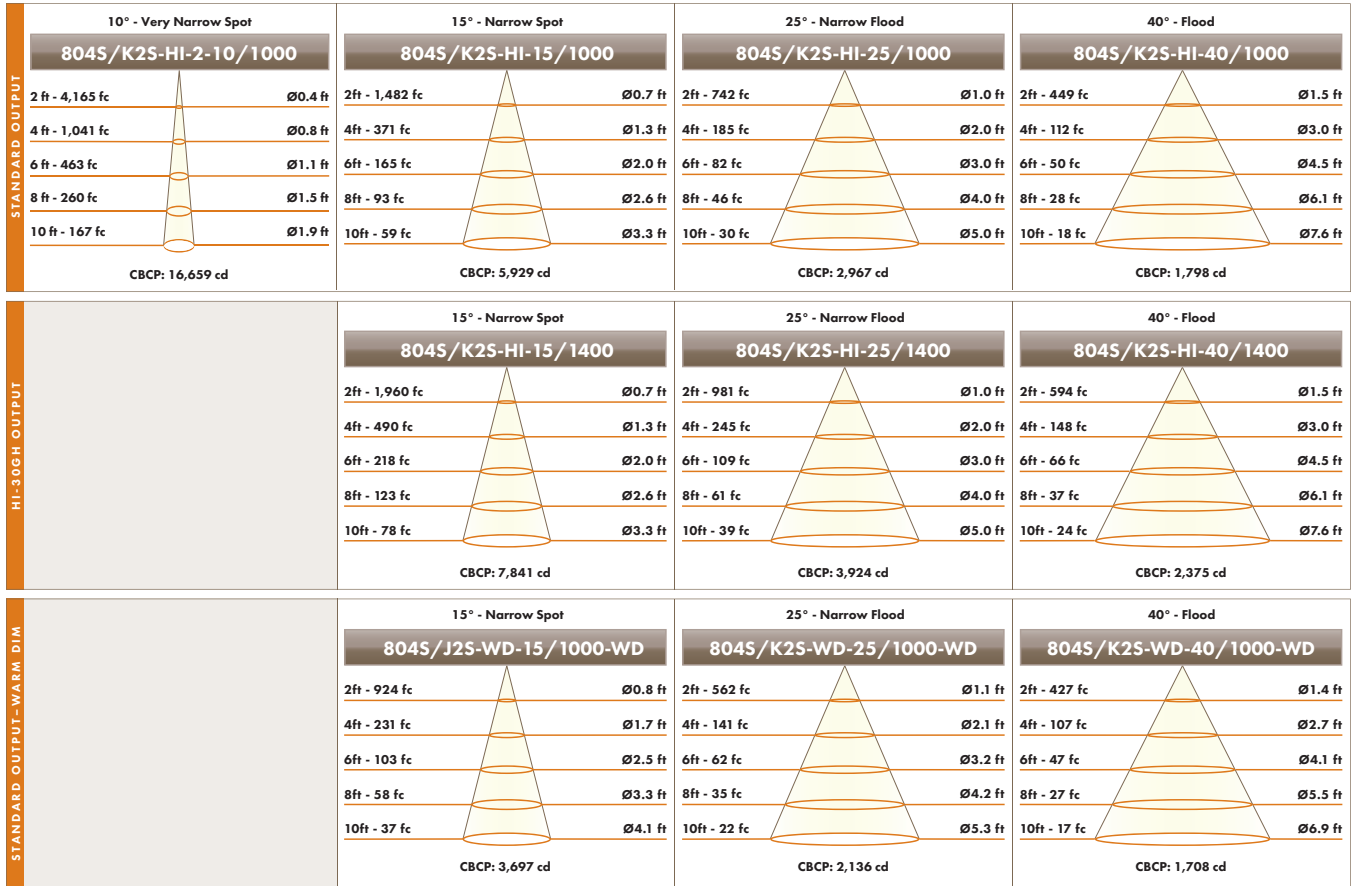
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### 804S/K2S w/ 1.75" APERTURE TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

OPTIC OPTIONS	LED OPTIONS	BEAM ENHANCING LENS (OPTIONAL)*				
		+ NSP	+ NFL	+ FL	+ WFL	+ LS
10° Very Narrow Spot	HI-2	14°	25°	42°	44°	13° x 37°
15° Narrow Spot	HI	21°	31°	49°	58°	22° x 39°
15° Narrow Spot	WD/WD-2	25°	33°	51°	61°	36° x 28°
25° Narrow Flood	HI	29°	36°	53°	64°	30° x 48°
25° Narrow Flood	WD/WD-2	30°	37°	54°	64°	32° x 45°
40° Flood	HI	42°	45°	63°	77°	46° x 52°
40° Flood	WD/WD-2	39°	43°	61°	72°	38° x 58°

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

**804S/K2S w/ FS/FLS/INS 1.75" APERTURE TRIM - CONE OF LIGHT DIAGRAMS**



Performance shown for 3000K. Output varies by CCT.

### 804S/K2S w/ FS/FLS/INS-LG/NL 2.75" APERTURE TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	59	924-1042	14	66-74
HI	1000	3000K	94	60	994-1120	14	71-80
HI-27	1400	2700K	94	57	1229-1369	20	61-68
HI	1400	3000K	93	58	1322-1472	20	66-74
HI-2-27	1000	2700K	94	62	1050	14.5	72
HI-2	1000	3000K	94	63	1129	14.5	78
WD	1000-WD	3000-1800K	97	81	821-923	14.5	57-64
WD-2	1000-WD	2800-2200K	97	78	819-915	14.5	56-63

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

### 804S/K2S w/ FR/FLR/INR-LG/NL 2.75" APERTURE TRIM - PERFORMANCE SUMMARY

LED	OUTPUT	CCT	CRI	R9	Delivered Lumens	System Wattage	Delivered LPW
HI-27	1000	2700K	94	59	925-1052	14	66-75
HI	1000	3000K	94	60	995-1131	14	71-81
HI-27	1400	2700K	94	57	1226-1380	20	61-69
HI	1400	3000K	93	58	1318-1484	20	66-74
HI-2-27	1000	2700K	94	62	1039	14.5	72
HI-2	1000	3000K	94	63	1117	14.5	77
WD	1000-WD	3000-1800K	97	81	853-957	14.5	59-66
WD-2	1000-WD	2800-2200K	97	78	838-932	14.5	58-64

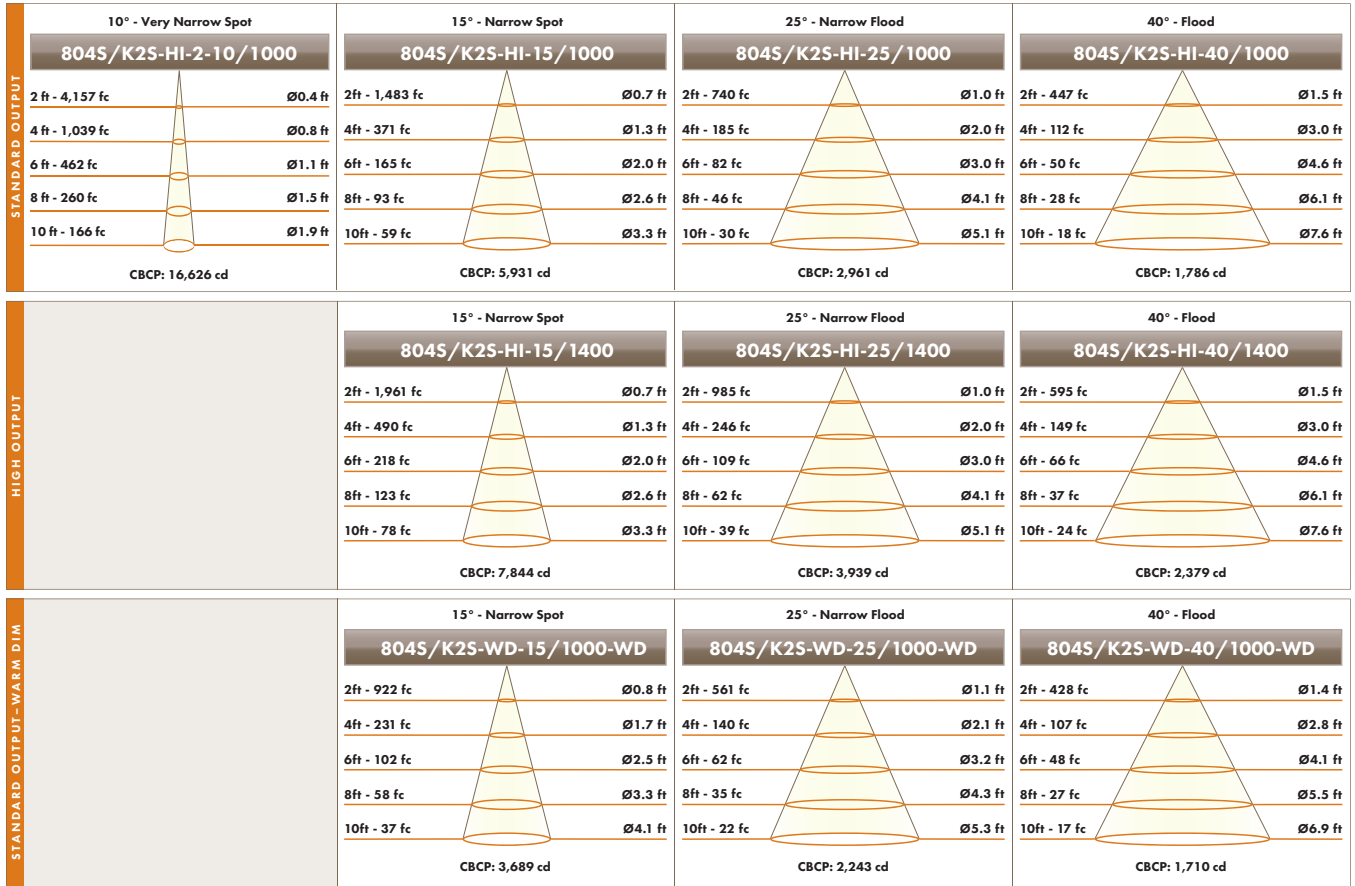
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### 804S/K2S w/ 2.75" APERTURE TRIM - OPTICAL OPTIONS AND ACCESSORY PERFORMANCE SUMMARY

OPTIC OPTIONS	LED OPTIONS	BEAM ENHANCING LENS (OPTIONAL)*				
		+ NSP	+ NFL	+ FL	+ WFL	+ LS
10° Very Narrow Spot	HI-2	14°	25°	44°	47°	13° x 39°
15° Narrow Spot	HI	21°	31°	52°	65°	23° x 40°
15° Narrow Spot	WD/WD-2	25°	33°	54°	68°	26° x 36°
25° Narrow Flood	HI	30°	37°	57°	73°	30° x 53°
25° Narrow Flood	WD/WD-2	31°	38°	58°	76°	33° x 47°
40° Flood	HI	42°	46°	66°	88°	46° x 53°
40° Flood	WD/WD-2	39°	44°	64°	85°	39° x 60°

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

**804S/K2S w/ FS/FLS/INS-LG/NL 2.75" APERTURE TRIM - CONE OF LIGHT DIAGRAMS**



Performance shown for 3000K. Output varies by CCT.