

SIGMA 2









Job Information Project Name Type Location Quantity Date

Round Flush Gimbal, 700-1600 Lumens, 7-21 Watts

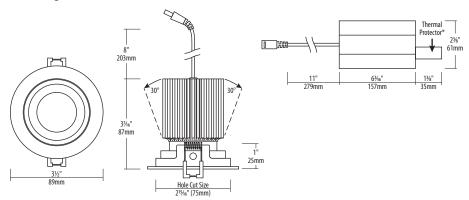
Recessed Downlighting

Description

The SIGMA 2 series boasts a sleek modern look with a broad offering of shapes, including pinspots, slots, and slopes. In addition, choose between multiples, regressed optics and tailed beam angles to match the intended look and feel of your architectural space. Add a hex cell louver, a softening, or a linear spread lens to further customize your fixture to further meet desired optical performance.

Technical Drawings

Mounting: Remodel



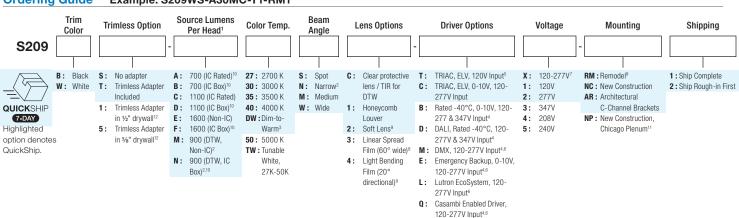
^{*} Required for Non-IC models only.



FIXTURE SPECIFICATIONS			
Aperture	21/16" (53mm)		
Application	Recessed		
Approved Location	Damp		
Certification	cETLus		
CRI	90		
Dimming	Yes		
Hole Cut Size	215/16" (75mm)		
Max. Ceiling Thickness	34" (19mm)		
Power Factor	>0.9		
Power Supply Type	Constant Current		
Lumen Maintenance	70% @ 50,000 Hrs		
THD	<20%		
Title 24	Yes		
TM-30 Annex E	P2 / V- / F3		

Delivered Lumens Per Head	Option	Lumens/ Watt	Driver Wattage
729	A,B	99	7
1031	C,D	90	11
1539	FF	71	22

Ordering Guide Example: S209WS-A30MC-T1-RM1



Example items for "Ship Rough-in First":

First: S209WS-C30MC-T1-NC2 Second: S209WS-C30MC2

Notes:

- 1 Delivered lumens provided are based on 3000 K with wide reflector.
- ² Only available for DTW models.
- 3 DTW models are only IC rated with an IC Box (Source Lumens Per Head option N).
- ⁴ Above ceiling access or remote mount required.
- ⁵ Only available in 120V (Voltage option 1).
- 6 Not available in 347V.
- 7 Available with Source Lumens Per Head option; A, B, C, D, F or N only
- ⁸ Not available with IC Box (option B, D, F or N).
- 9 Not available for DTW models.
- 10 Only available with Driver Options "T" or "C".
- ¹¹ Only available with IC Box (option B, D, F or N).

O: OnCloud

K: Dual 0-10V

R: Lutron T-series

Tunable White 120-277V

12 Adapter ships separately.

QuickShip option is available on orders of 100 pieces or less. QuickShip lead time may vary for orders greater than 100 pieces. No additional shipment rates apply. Subject to

availability.

For additional options please consult your A-Line representative. All trademarks are the property of their respective owners. Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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Beam Angle

Multi-faceted reflector available for fixed CCT models in spot (15°), medium (40°) or wide (50°) beam angles. Dim-to-Warm CCT option is equipped with a multi-faceted TIR lens which eliminates hot spots and provide for a sharp cut-off. This option is available with 15°, 24°, 38° and 60° beam angles.

LED Characteristics

Available with high powered BRIDGELUX® LED chip that maintains high lumens per watt with a typical 90 CRI.

LED Characteristics – Dim-to-Warm

Available with high powered LED chip that dims from 3000 K to 2000 K with a typical 90 CRI.

LED Optics

Integrated clear protective lens with fixed CCT models. Optional honeycomb, soft lens, and light bending films are also available. Dim-to-Warm models contain an integrated TIR lens.

Dimming

Multiple dimming options are available. 100~10% dimming with TRIAC/ELV, 100-1% dimming with 0-10V, and dim to off with compatible devices. Compatible with OnCloud dimmer. See LED Driver Options for details. Consult factory for compatible dimmers.

Thermal Performance

Extruded aluminum heat sink ensures optimal heat dissipation and LED life.

LED Driver

The LED driver is remote mounted to allow for a lower operating temperature of the LED, longer life, and serviceable separate from the fixture. Includes an 18" (457mm) plenum rated FT6 wire with DC 2.1 connector from the driver to fixture. Inrush current for all drivers is compliant with NEMA 410. See LED Driver Options for more specific details.

System Protection

Integral thermal protection provided on Non-IC models to indicate improper installations. Mounted to the junction

box and will disconnect if insulation is detected. Insulation must maintain 3" (76mm) clearance from top or sides.

IC Box and New Construction Chicago Plenum

Single wall aluminum housing allows fixture to be installed in insulated ceiling applications. The housing is equipped with rigid hanger bars for easy installation without warping or moving. With Mounting option "NP" the fixture is built in accordance with City of Chicago Environmental Air (CCEA).

Hanger Bars – New Construction and IC Box

Rigid hanger bars extend up to 25" (635mm). Score lines on the hanger bars allow for tool-less shortening down to 12" (305mm). Built-in line-up foot allows for accurate housing height during installation. Integrated T-bar clips easily snap onto T-bars.

Hanger Bars – Architectural C-Channel

Architectural frame bracket accepts

C-channel and EMT conduit. Vertically adjustable.

Trimless Option

Trimless adapter provides a flush and seamless ceiling mount. Trimless adapter is also available prefabricated in level 5 drywall for ease of installation.

Shipping

Fixtures can be shipped complete or with rough-in components first, and the remainder once requested. Drywall options ship separately.

Environment

Suitable for use in damp locations.

Warranty

5-Year warranty.

QuickShip Made-To-Order

Made-To-Order products ship within seven business days of an order being released.

LED Driver Options

- (T) TRIAC: Dimming for 120V only, 100~10% dimming.
- (c) TRIAC/ELV/0-10V: TRIAC/ELV dimming for 120V only, 100~10% dimming. 1% Dimming over 0-10V is optional, but required for 277V & 347V dimming.
- (B) Rated -40: Low temperature driver operation. Dimming to 1% over 0-10V.
- (D) DALI: DALI soft dimming to 1%. Dim-to-off with standby power < 0.3W. Rated to -40.
- (M) DMX: DMX/RDM soft dimming to 0.1%. Dim-to-off with standby power < 0.3W.
- (E) Emergency Backup: Integrated emergency battery with switchable output of 5W for 180 minutes, or 10W for 90 minutes of operation during an outage.
- (L): Lutron EcoSystem: Suitable for integration into a planned or existing EcoSystem® lighting control solution. Dimming down to 1% with compatible controls.
- (Q) Casambi Enabled: Casambi wireless module included. Wireless dimming to 1% provided over 0-10V signal from module.

Accessories



P-3010

75mm round pre-mounting plate for Sigma 2 fixtures.



ALB-27

27" Linear hanger bar, 2-pack.



LC-CRTL-DIM-1

Smart Wi-Fi dimmer, 150W, 120V. * Compatible with TRIAC Driver.



VBE-11

Vapour barrier extender. For use in new construction applications.



VBE-2²

Vapour barrier extender. For use in remodel applications.

- ¹ VBE-1 needed for T24 on new construction applications.
- ² VBE-2 needed for T24 on remodel applications.

Trimless



P-3510

90mm round pre-mounting plate for Sigma 2 fixtures.



S2-ZCR-2

75mm Sigma 2 round trimless adapter.



S2-PDW1R-2

Trimless Adapter in 1/2" drywall.



S2-PDW5R-2

Trimless Adapter in 5/8" drywall.

Lens Options



S2-HC-LVR

Honeycomb louver.



S2-SL-LENS Soft lens.

Sort iens.



S2-LS60-LENS

Linear spread film (60° wide).

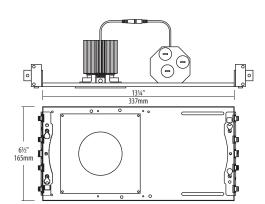


S2-LB20-LENS

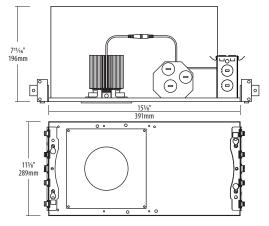
Light bending film (20° directional).

Technical Drawings

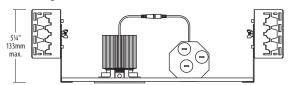
Mounting: New Construction



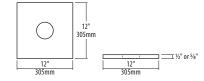
Mounting: IC Box / New Construction Chicago Plenum



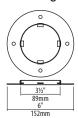
Mounting: Architectural



Mounting: Trimless Adapter in Drywall



Mounting: Trimless Adapter



Photometry

Note: All photometric data is based on 3000 K CCT, wide beam spread, white trim and clear protective lens.

CCT Correction Factors:

Baseline lumens = 3000 K Multiply 3000 K lumen values by:

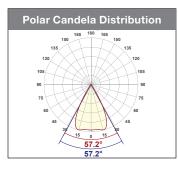
0.95 for 2700 K

1.10 for 3500 K

1.15 for 4000 K

1.20 for 5000 K

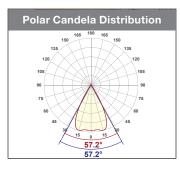
\$209Wx-A30WC-xx-xx: SIGMA 2, 7W, wide beam spread, clear protective lens



Beam Details				
0"				
D	Lux	FC	L	w
D	Lux 552	FC 51	L	W
4'	552	51	4.4'	4.4'
4' 8'	552 138	51 13	4.4' 8.7'	4.4' 8.7'

Zonal Lumen Summary			
Zone	Lumens	% Luminaire	
0-30	591	81.07%	
0-40	673	92.32%	
0-60	694	95.20%	
60-90	15.0	2.06%	
70-100	12.2	1.67%	
90-120	9.19	1.26%	
0-90	709	97.26%	
90-180	20.2	2.77%	
0-180	729	100%	

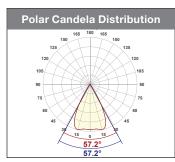
\$209Wx-C30WC-xx-xxx: SIGMA 2, 11W, wide beam spread, clear protective lens



Beam Details				
0° D				
D	Lux	FC	L	W
 D	Lux 788	FC 73	L 4.4'	W
 4'	788	73	4.4'	4.4'
4' 8'	788 197	73 18	4.4' 8.7'	4.4' 8.7'

Zonal Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	845	81.96%		
0-40	962	93.31%		
0-60	991	96.12%		
60-90	18.1	1.76%		
70-100	13.8	1.34%		
90-120	9.90	0.96%		
0-90	1009	97.87%		
90-180	22.2	2.15%		
0-180	1031	100%		

\$209Wx-E30WC-xx-xxx: SIGMA 2, 22W, wide beam spread, clear protective lens



Beam Details					
	0*				
D	Lux	FC	L	W	
	Lux 1188	FC 110	L 4.4'	W 4.4'	
4'	1188	110	4.4'	4.4'	
4' 8'	1188 297	110 28	4.4' 8.7'	4.4' 8.7'	
4' 8' 12'	1188 297 132	110 28 12	4.4' 8.7' 13.1'	4.4' 8.7' 13.1'	

Zonal Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	1274	82.78%		
0-40	1451	94.28%		
0-60	1492	96.95%		
60-90	23.1	1.50%		
70-100	16.1	1.05%		
90-120	9.81	0.64%		
0-90	1516	98.51%		
90-180	23.3	1.51%		
0-180	1539	100%		

\$209Wx-E30M4-xx-xxx: SIGMA 2, 22W, medium beam spread, light bending film, maximum tilt.

