A LINE by Liteline

SIGMA 2

LUTRON CASAMBI | JA8 TITLE 24 | cETLus Intertek | LED 5 YEAR WARRANTY

Round Reflector, 1600 Lumens, 7-21 Watts

Recessed Downlighting

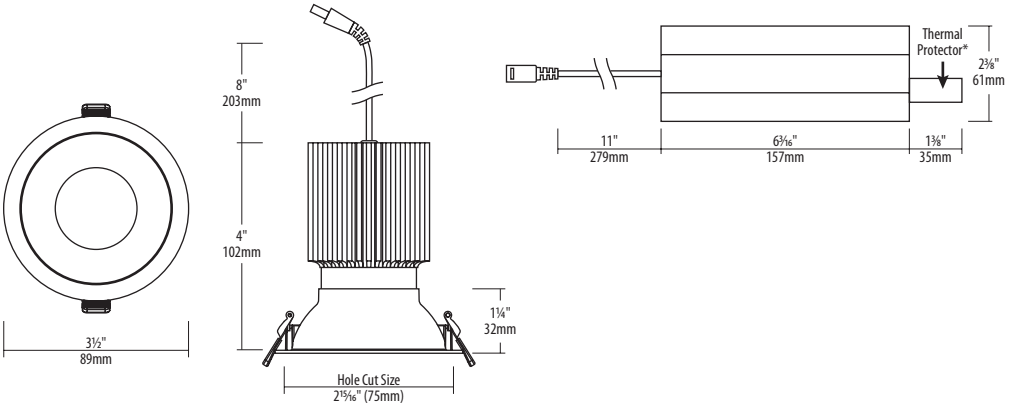
Job Information	
Project Name	
Type	
Location	
Quantity	
Date	

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	2¾" (70mm)
Application	Recessed
Approved Location	Wet
Certification	cETLus
CRI	90
Dimming	Yes
Hole Cut Size	2¹⁵⁄₁₆" (75mm)
Max. Ceiling Thickness	¾" (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
UGR/Glare	Refer to photometric reports

Ordering Guide

Example: S203WS-A30MC-T1-RM1

S203 - [Trim Color] [Trimless Option] - [Lumens Per Head[1]] [Color Temp.] [Beam Angle] [Lens Options] - [Driver Options] [Voltage] - [Mounting] [Shipping]

Trim Color
- **B :** Black
- **W :** White

Trimless Option
- **S :** No adapter

Lumens Per Head[1]
- **A :** 700 (IC Rated)
- **B :** 700 (IC Box)[9]
- **C :** 1100 (IC Rated)
- **D :** 1100 (IC Box)[9]
- **E :** 1600 (Non-IC)
- **F :** 1600 (IC Box)[9]
- **M :** 900 (DTW, Non-IC)[2]
- **N :** 900 (DTW, IC Box)[2,9]

Color Temp.
- **27 :** 2700 K
- **30 :** 3000 K
- **35 :** 3500 K
- **40 :** 4000 K
- **DW :** Dim-to-Warm[2]
- **50 :** 5000 K[11]
- **TW :** Tunable White[12]

Beam Angle
- **S :** Spot (10°)[10]
- **N :** Narrow (24°)
- **M :** Medium (40°)
- **W :** Wide (50°)

Lens Options
- **C :** Clear protective lens
- **1 :** Honeycomb Louver
- **2 :** Soft Lens
- **3 :** Linear Spread Film (60° wide)
- **4 :** Light Bending Film (20° directional)
- **5 :** Honeycomb Louver with Soft Lens

Driver Options
- **T :** TRIAC, ELV, 120V Input[5]
- **P :** Commercial, 120-277V, 0-10V
- **C :** TRIAC, ELV, 0-10V, 120-277V Input
- **B :** Rated -40°C, 0-10V, 120-277 & 347V Input[4]
- **D :** DALI, Rated -40°C, 120-277V & 347V Input[4]
- **M :** DMX, 120-277V Input[4,6]
- **E :** Emergency Backup, 0-10V, 120-277V Input[4,6]
- **L :** Lutron EcoSystem, 120-277V Input[6]
- **Q :** Sensor Compatible Driver, 120-277V Input[4,6]

Voltage
- **X :** 120-277V[7]
- **1 :** 120V
- **2 :** 277V
- **3 :** 347V
- **4 :** 208V
- **5 :** 240V

Mounting
- **RM :** Remodel[8]
- **NC :** New Construction
- **AR :** Architectural C-Channel Brackets
- **NP :** New Construction, Chicago Plenum[9]

Shipping
- **1 :** Ship Complete
- **2 :** Ship Rough-in First

QUICKSHIP 7-DAY

Highlighted option denotes QuickShip.

Example items for "Ship Rough-in First":

First: S203WS-C30MC-T1-NC2

Second: S203WS-C30MC2

Notes:

[1] Delivered lumens provided are based on 3000 K with wide reflector.

[2] DTW can reach up to 1150 lumen. check IES report for specific configuration.

[3] Adapter ships separately.

[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] Only available with IC Box (option B, D, F or N).

[10] Only available with lumen per head (options A, B in 27,30,35 and 40 K).

[11] Not available in Spot beam angle.

[12] Not available with lumen per head M or N. Must select driver option "D".

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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Features

Beam Angle
Multi-faceted reflector available for fixed CCT models in spot (10°), medium (40°) wide (50°), or narrow (24°) 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.

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.

ONLINE PRODUCT DETAILS AND DOCUMENTATION

LED Driver Options

(T) TRIAC : Dimming for 120V only, 100~10% dimming.
(P) Commercial : Commercial driver for 120-277v, 0-10V dimming, 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) : Sensor Compatible Driver: Wireless module NOT included. Wireless dimming to 1% provided over 0-10V signal from module.

Accessories

S2R-75-NCTK
75mm round new construction kit for Sigma 2 fixtures.

ALB-27
27" Linear hanger bar, 2-pack.

SIGMA-EXT-10
10' Single CCT Sigma driver extension, FT6.

SIGMA-EXT-50
50' Single CCT Sigma driver extension, FT6.

LC-CRTL-DIM-1
Smart Wi-Fi dimmer, 150W, 120V.
* Compatible with TRIAC Driver.

Lens Options

S2-HC-LVR-1
Honeycomb louver.

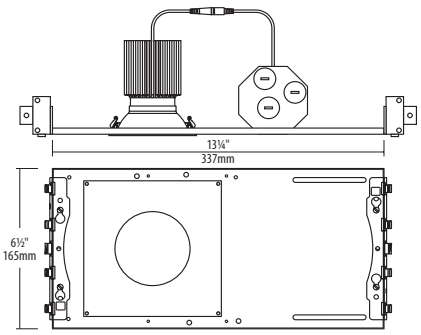
S2-SL-LENS
Soft lens.

S2-LS60-LENS
Linear spread film (60° wide).

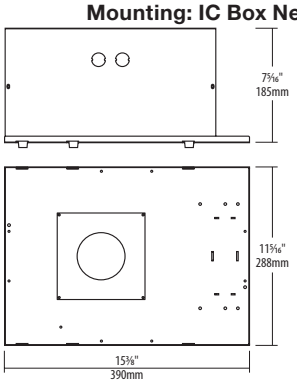
S2-LB20-LENS
Light bending film (20° directional).

Technical Drawings

Mounting: New Construction

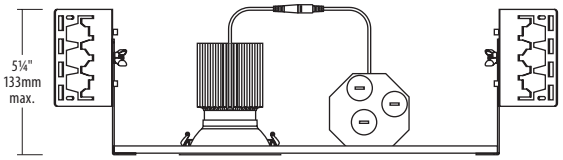


Mounting: IC Box New Construction / Chicago Plenum



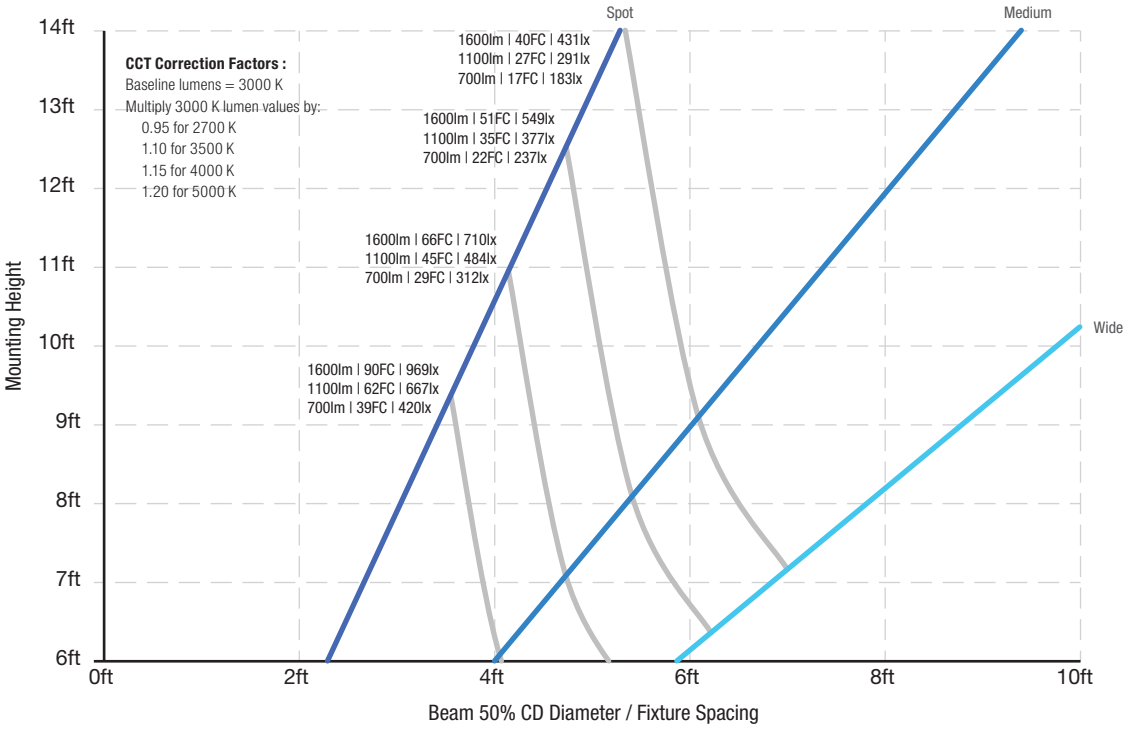
Jbox sit outside of the IC-box for "New construction IC box" and sit inside the IC-box for "NC Chicago plenum".

Mounting: Architectural



Luminaire Budgetary Diagram

Mounting Height vs. Fixture Spacing
Sample reference with 90 CRI at 3000 K CCT



To use Liteline's Budgetary Diagram:
1. Determine mounting height above work surface for application on Y axis.
2. Determine appropriate spacing by comparing beam cone size on X axis.
3. Select appropriate beam angle and lumen package from slope line at intersection point.

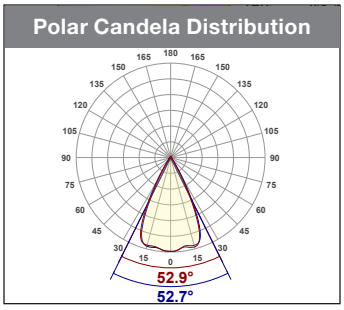
Photometry

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

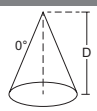
CCT Correction Factors :
Baseline lumens = 3000 K
Multiply 3000 K lumen values by:
0.95 for 2700 K
1.10 for 3500 K
1.15 for 4000 K
1.20 for 5000 K

S203W×-A30WC-××-×××: SIGMA 2, 7W, wide beam spread, clear protective lens

Polar Candela Distribution



Beam Details



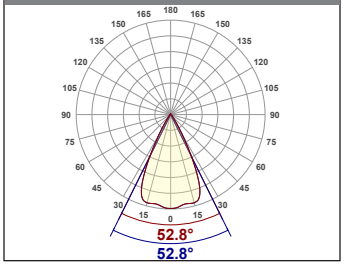
D	Lux	FC	L	W
4'	614	57	4'	4'
8'	153	14	7.9'	7.9'
12'	68	6	11.9'	11.9'
16'	38	4	15.9'	15.9'
20'	25	2	19.9'	19.9'

Zonal Lumen Summary

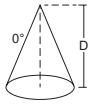
Zone	Lumens	% Luminaire
0-30	579	80.53%
0-40	641	89.15%
0-60	675	93.88%
60-90	19.9	2.77%
70-100	13.0	1.81%
90-120	11.2	1.56%
0-90	695	96.66%
90-180	24.0	3.34%
0-180	719	100%

S203W×-C30WC-××-×××: SIGMA 2, 11W, wide beam spread, clear protective lens

Polar Candela Distribution



Beam Details



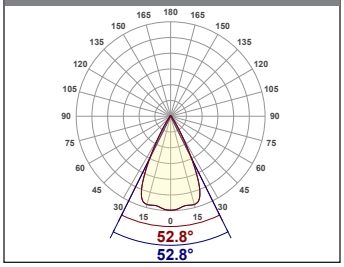
D	Lux	FC	L	W
4'	868	81	4'	4'
8'	217	20	7.9'	7.9'
12'	96	9	11.9'	11.9'
16'	54	5	15.9'	15.9'
20'	35	3	19.8'	19.8'

Zonal Lumen Summary

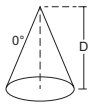
Zone	Lumens	% Luminaire
0-30	816	81.52%
0-40	904	90.31%
0-60	951	95.00%
60-90	25.3	2.53%
70-100	14.5	1.45%
90-120	11.4	1.14%
0-90	976	97.50%
90-180	24.9	2.49%
0-180	1001	100%

S203W×-E30WC-××-×××: SIGMA 2, 22W, wide beam spread, clear protective lens

Polar Candela Distribution



Beam Details



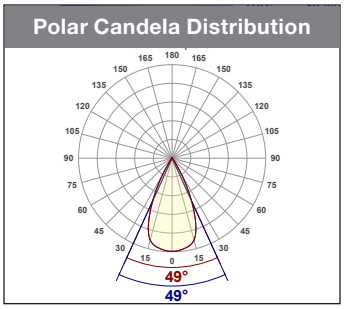
D	Lux	FC	L	W
4'	1317	122	4'	4'
8'	329	31	7.9'	7.9'
12'	146	14	11.9'	11.9'
16'	82	8	15.9'	15.9'
20'	53	5	19.8'	19.8'

Zonal Lumen Summary

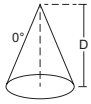
Zone	Lumens	% Luminaire
0-30	1237	82.58%
0-40	1371	91.52%
0-60	1441	96.19%
60-90	32.0	2.14%
70-100	14.9	0.99%
90-120	10.9	0.73%
0-90	1472	98.26%
90-180	25.5	1.70%
0-180	1498	100%

S203WS-G27WC-xxx: SIGMA 2, 28W, wide beam spread, clear protective lens

Polar Candela Distribution



Beam Details



D	Lux	FC	L	W
4'	2469	229	3.6'	3.6'
8'	617	57	7.3'	7.3'
12'	274	25	10.9'	10.9'
16'	154	14	14.6'	14.6'
20'	99	9	18.2'	18.2'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2033	90.88%
0-40	2202	98.44%
0-60	2218	99.15%
60-90	5.36	0.24%
70-100	4.33	0.19%
90-120	3.78	0.17%
0-90	2224	99.42%
90-180	13.4	0.60%
0-180	2237	100.00%