

# ARCH2WAY Series (4ft)



## Winner of 2013 "DOE" Next Generation Luminaires Design Competition

### PRODUCT DESCRIPTION

Samjin Arch 2Way Series is the third generation family of low profile slim commercial pendant systems that are engineered for continuous run applications.

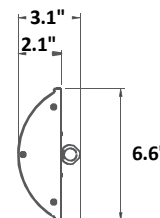
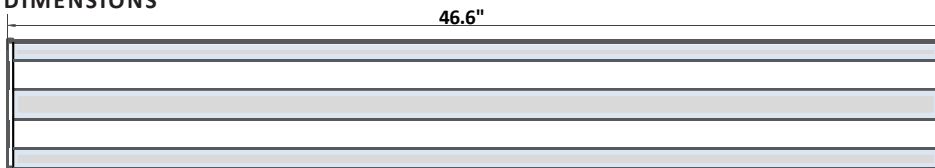
Arch1Way series can be controlled with standard 0-10V LED dimmers. Tested 0-10V LED Dimmers include:

- Lutron – DIVA
- WattStopper DLM

### PRODUCT CONSTRUCTION

- Light Panel:** Light panel is only 2.1" thick allows for thin profile.
- Finish:** Durable design with brushed aluminum extrusion body.
- Frame:** Aluminum alloy, providing a slim, clean, airborne particle resistant frame. Optional end cap part is available to enable simple daisy chain connection between fixtures while adding extra support for ease of installation.
- Lens:** Lay in flush high transmission diffuser achieves excellent horizontal & vertical illumination. Made of impact-resistant and shatter proof acrylic polycarbonate providing a durable long lasting stain resistant easy to clean light source.
- Electrical:** Input voltage 110 ~ 277 VAC suitable for most industrial and commercial applications.
- Heat Sink:** Made of high purity aluminum.
- LED Diodes:** Samsung Semiconductor LEDs
- Lifetime Rating:** above 50,000 hours for low maintenance costs.
- Input Frequency (Hz):** 50/60HZ
- Environmental friendly:** Lead and mercury free.

### DIMENSIONS



### PERFORMANCE OVERVIEW

PERFORMANCE	A2W4A-04250D1US
Light Output (Lm)	5298
Power (W)	41.54
Efficacy (Lm/W)	127.55
CCT (K)	5000K
CRI	84.2
Power Factor	0.986
Input Voltage (V)	120-277

### PHYSICAL INFO

Dimension (Inch)	46.6(L) x 6.6(W) x 3.1(H)
Weight (lb)	14.2 lb

### INSTALLATION

Spacing	1.26 (0-180°) / 1.28 (90°-270°)
Control	0-10 V Dimming
Mounting	Surface or Pendant

### WARRANTY

5-Year Warranty (Terms and Conditions Apply)

### CERTIFICATIONS & QUALIFICATIONS



### ORDERING INFORMATION

SAMJIN	A2W	4A	042	50	SM
Brand	Model	Size	Wattage	CCT	Mounting
	A2W Arch 2Way	4A 4ft	042 42 watt	30 3000K 40 4000K 50 5000K	SM Surface PM Pendant

Controlled Lighting Corp.  
 SAMJIN LED U.S. Sales Partner  
 NY – 914-806-6684 ~ CA - 415-935-1346  
[sales@controlledlighting.net](mailto:sales@controlledlighting.net)

SAMJIN LED Inc.  
 900 Lane Avenue, Suite 170, Chula Vista, CA 91914  
[lighting@samjinled.com](mailto:lighting@samjinled.com)

Rev. 11/15/16  
 Specifications subject to change without notice

## APPLICATIONS

- High Ceiling Office Environment (>10')
- Low Bay Industrial Applications
- Library
- Retail Aisles
- Hallways

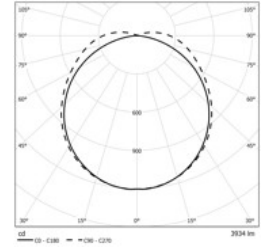
### PHOTOMETRIC DATA: A2W4A-04230D1US

Test No: 2605750-3  
Test Date: 3/6/2013

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	Luminaire
0-60	2,734.80	69.50%	69.50%
60-90	1,027.90	26.10%	26.10%
0-90	3,762.60	95.60%	95.60%
90-180	171.7	4.40%	4.40%
0-180	3,934.30	100%	100%

#### POLAR CANDELA DISTRIBUTION



#### COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
	70	50	30	0	70	50	30	0	50	30	20	0
RW	70	50	30	0	70	50	30	0	50	30	20	0
RCR(0)	118	118	118	118	115	115	115	96	109	109	109	96
1	106	100	95	91	103	98	93	77	93	89	85	76
2	96	87	79	73	93	84	78	64	80	74	69	62
3	87	76	67	60	84	74	66	54	70	63	58	52
4	79	67	58	51	77	65	57	46	62	55	49	44
5	73	60	50	43	71	58	49	40	56	48	42	38
6	67	54	44	38	65	52	44	35	50	42	37	33
7	62	49	40	33	60	47	39	31	46	38	32	29
8	58	44	36	30	56	43	35	28	42	34	29	26
9	54	41	32	27	53	40	32	25	38	31	26	23
10	51	37	29	24	49	37	29	23	35	28	24	21

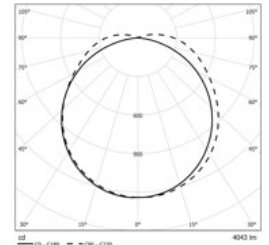
### PHOTOMETRIC DATA: A2W4A-04250D1US (5000K)

Test No: 2599357  
Test Date: 2/27/2013

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	Luminaire
0-60	2,816.40	69.70%	69.70%
60-90	1,053.70	26.10%	26.10%
0-90	3,870.10	95.70%	95.70%
90-180	172.8	4.30%	4.30%
0-180	4,042.90	100%	100%

#### POLAR CANDELA DISTRIBUTION



#### COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
	70	50	30	0	70	50	30	0	50	30	20	0
RW	70	50	30	0	70	50	30	0	50	30	20	0
RCR(0)	118	118	118	118	115	115	115	96	109	109	109	96
1	106	100	95	91	103	98	93	77	93	89	85	76
2	96	87	79	73	93	84	78	64	80	74	69	62
3	87	76	67	60	84	74	66	54	70	63	58	52
4	80	67	58	51	77	65	57	46	62	55	49	44
5	73	60	50	43	71	58	49	40	56	48	42	38
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9	54	41	32	27	53	40	32	25	38	31	26	23
10	51	37	29	24	49	37	29	23	35	28	24	21

RCR = Room Cavity Ratio  
RC = Effective Ceiling Cavity Reflectance  
RW = Wall Reflectance