

## SAE Systems

Wall SAE, SAE 2' Sconce  
W-AI-96 & LS-W-AI-96  
Wall-Mounted Asymmetric Indirect

### Product Description

Graceful arcuate-shaped indirect wall fixture with a solid, perforated or slotted housing. UL listed. Cradle to Cradle Certified™

CS™ Control Solutions available

### Ordering Guide

Product, lamping, & length						Options					
W -	AI -	96P	2	4	T5HO -	TCWM -	LP/ELB -	TW -	2CWQ -	F -	120
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Finish	Ballast	Tandem Wiring	Pre-Wiring	Other Options	Volts
<b>Wall SAE</b>											
<b>W</b> Wall-Mounted	<b>AI</b> Asymmetric Indirect	<b>96P</b> Perforated	1, 2 →	3 →	T8	<b>TCWM</b> (textured matte white) is standard  see <b>LiteColors™</b> in product guide for other finishes	<b>ELB10</b> is std. for T8 or BX  <b>DA/MK7</b> <b>DL/ECO</b> <b>DO/HEL</b>  <b>LP/ELB</b> is std. for T5 or T5HO <b>LPD/ECO</b> see <b>Ballast Options</b>	-- →	<b>1CWQ</b>	<b>CS/us</b> <b>F</b> <b>HPR</b> <b>LP/EF</b>  see <b>Other Options</b>	<b>120</b> <b>277</b>
<b>LS-W</b> LiteSpeed Wall-Mounted		<b>96S</b> Slotted	1, 2 →	4 → <b>10</b>	T5HO			<b>TW</b> →	<b>2CWQ</b>		
		<b>96N</b> Non-patterned	2, 4 →	6 →	T5			see notes			
			2, 4 →	8 → <b>10</b>							
<b>SAE 2' Sconce</b>											
<b>W</b> Wall-Mounted	<b>AI</b> Asymmetric Indirect	<b>96P</b> Perforated	1, 2 →	2 →	T8						
		<b>96S</b> Slotted	1 →	2 →	<b>BX40</b>						
		<b>96N</b> Non-patterned	see notes		<b>BX50</b>						

**W-AI-96P24T5HO-TCWM-LP/ELB-TW-2CWQ-F-120** is a typical catalog number for a 2-lamp (2 lamps in cross-section), 4-foot long, high-output T5 fixture with perforated housing, textured matte white finish, low-profile electronic ballast, tandem-wired, pre-wired with two-circuit branch wiring and quick-connects, fuse, 120 volts.

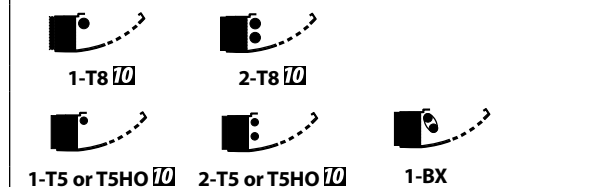


### LiteSpeed Quick-Ship

Many configurations of this fixture are available in our LiteSpeed 10-day quick-ship program. The "10-day" icon **10** in the descriptions below shows which options are available in LiteSpeed. LiteSpeed orders are shipped within 10 working days of receipt of a released, cleared order. An "LS" prefix is required in front of the ordering number to have the order handled as LiteSpeed. Other configurations not indicated here may be available for 10-day shipment; contact Customer Service for availability. Some restrictions may apply to large orders. All LiteSpeed fixtures are supplied in textured white finish (TCWM).

Note: 4- and 8-foot lengths available in LiteSpeed. Contact Customer Service for availability of other lengths.

### Cross-section lamping



### Ballast Options

Specify in place of **ELB10**, contact factory for availability/compatibility with lamping:

**DA/MK7** Advance Mark VII dimming ballast

**DL/ECO** Lutron ECO-10 dimming ballast

**DO/HEL** Osram Sylvania dimming ballast

**LPD/ELB** Low-profile dimming electronic ballast (T8, T5, 4' and 8' T5HO)

**LPD/ECO** Low-profile Lutron ECO-10 dimming electronic ballast

### Tandem Wiring & Circuiting Options

**1CWQ** **10** Fixture wired with a single-circuit so that all lamps are switched together.

**TW-2CWQ** **10** Fixtures wired with two circuits such that the inline lamps are switched separately.

### Other Options

**F** **10** Fuse. Slow or fast blow, determined by Litecontrol.

**HPR** High Performance Reflector. Die-formed, specular anodized aluminum.

**LP/EF** **10** Low-profile emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one T8 lamp for 1 1/2 hours.

### Questions to Ask

1. Row information, including desired fixture lengths? 2. Lamp type?
3. White, Litecolor, or special color? 4. Ballast options?
5. Tandem wiring? 7. Other options? 8. 120 or 277 volt?

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## Specifications

**HOUSING.** Die-formed 20-gauge steel. **Perforated (96P):** Housing has frame-finished perforated sections of .062" diameter staggered holes .125" OC, 23% open. White acrylic diffusing panels retained behind. Perforated areas are 3 1/8" wide and 3" from each fixture end (3/4" from each end for 2' Sconce). At the center of 6-foot and 8-foot fixtures, perforations are interrupted for 6" to match perforated patterns of joined fixtures. **Slotted (96S):** Housing has a series of slots 1/8" wide along length of fixture housing with white acrylic diffusing panels retained behind. End caps are of 14-gauge steel, with no holes or knockouts, finished to match housing. **Non-patterned (96N):** Housing is solid with no perforations or slots.

**END CAPS.** Steel, 14-gauge, with no holes or knockouts, finished to match housing. Three fasteners on each end cap allow tight attachment to ends of fixtures without removing the reflector.

**REFLECTOR.** Die-formed steel with high-reflectance white finish. High Performance Reflector (**HPR**) has high-reflectance aluminum inserts for enhanced efficiency and distribution. Luminance Control Deflector™ (**LCD**) positioned above lamps provides uniform light distribution on wall to diminish any appearance of socket shadows.

**LAMPING.** Available in one- and two-lamp T8, T5 or T5HO. One-lamp twin-tube compact fluorescent available in 2' Sconce only.


**BALLAST.** Electronic Ballast (**ELB**), high power factor, thermally protected Class P, Sound Rated A, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

**TANDEM WIRING.** When selected from Ordering guide below, fixtures wired to switch in-line lamps separately, providing two levels of light (two-lamp cross-section fixtures only).

**PRE-WIRING.** Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details.

**MOUNTING.** Standard: Provided with two wall mounting brackets measuring 2 3/4" high x 7" wide x 1/2" deep. Finish is CWM (Matte White).

**2' Sconce:** Provided with one wall-mounting bracket measuring 2 3/4" high x 22 1/2" wide x 1/2" deep. Finish is CWM (Matte White).

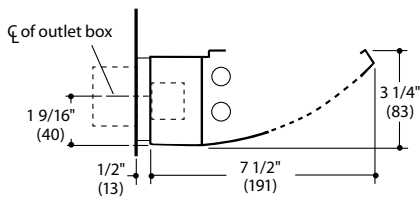
**CERTIFICATION.** Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label.  This fixture is Cradle to Cradle Certified™ Silver by MBDC.

Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

## Planning for installation

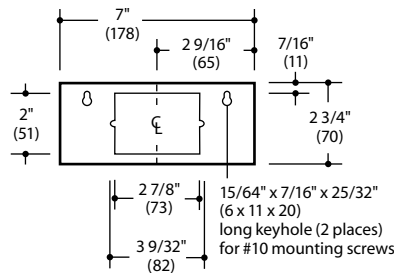
### Wall SAE

#### Cross-section

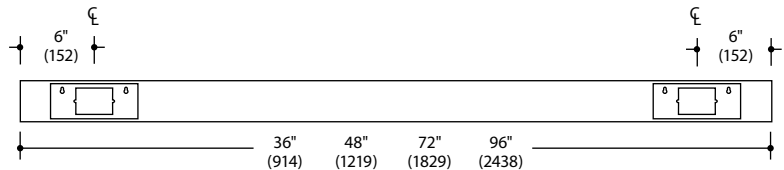


Mounts to and covers either a 2" x 4" single box positioned horizontally or a standard outlet box with plaster ring ears positioned horizontally.

#### Wall-mounting bracket

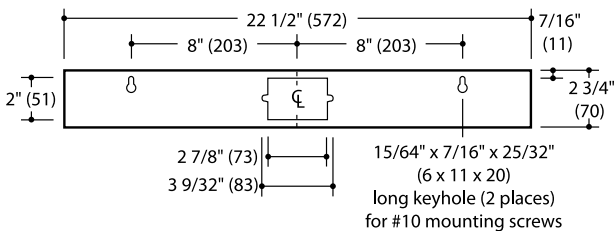


#### Individual fixture mounting

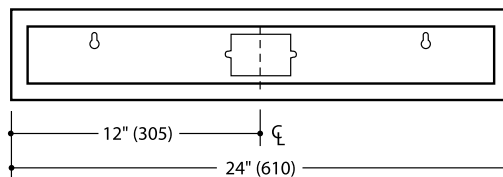


### SAE 2' Sconce

#### Wall-mounting bracket



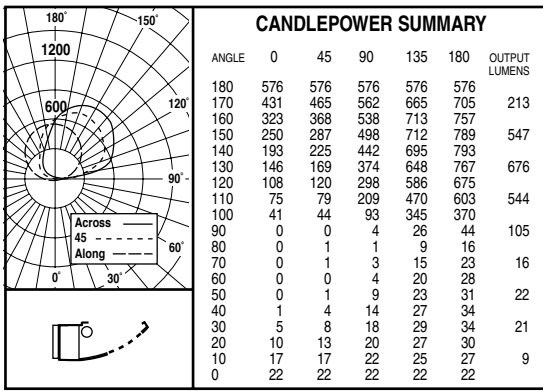
#### Back view of bracket and housing



LITECONTROL

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781 294 0100 f: 781 293 2849 litecontrol.com





**W-AI-96P14T8-LP/ELB 73.9 % Efficiency**  
Litecontrol Certified Test Report #28911000

RCC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	.71	.71	.71	.71	.61	.61	.61	.61	.42	.42	.42	.25	.25	.25	.10	.10	.10	.02
0	.65	.62	.59	.57	.55	.53	.51	.48	.37	.36	.34	.22	.22	.21	.09	.08	.08	.02
1	.59	.54	.49	.46	.50	.46	.43	.40	.32	.30	.28	.19	.18	.17	.07	.07	.07	.02
2	.54	.47	.42	.38	.46	.41	.37	.33	.28	.26	.24	.17	.16	.15	.07	.06	.06	.01
3	.49	.41	.36	.32	.42	.36	.31	.28	.25	.22	.20	.15	.14	.12	.06	.05	.05	.01
4	.45	.36	.31	.27	.38	.32	.27	.24	.22	.19	.17	.13	.12	.11	.05	.05	.04	.01
5	.41	.33	.27	.23	.35	.28	.24	.20	.20	.17	.15	.12	.10	.09	.05	.04	.04	.01
6	.38	.29	.24	.20	.32	.25	.21	.17	.18	.15	.13	.11	.09	.08	.04	.04	.03	.01
7	.35	.26	.21	.17	.30	.23	.18	.15	.16	.13	.11	.10	.08	.07	.04	.03	.03	.01
8	.32	.24	.19	.15	.27	.20	.16	.13	.14	.12	.10	.09	.07	.06	.03	.03	.02	.01
9	.30	.21	.17	.13	.26	.19	.14	.12	.13	.10	.08	.08	.06	.05	.03	.03	.02	.01
10																		

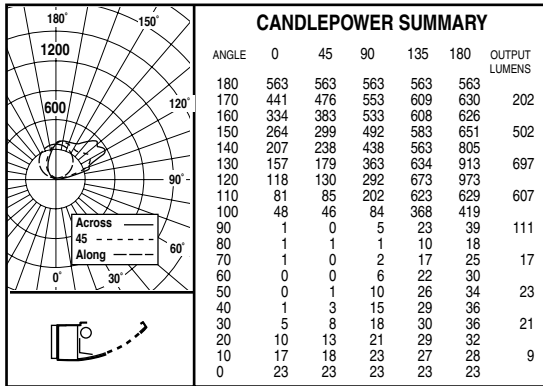
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2073	71.49	96.73
90-0°	70	2.42	3.27
180-0°	2143	73.91	100.00

**LUMINANCE SUMMARY**

ANGLE	0	45	90	135	180
45	0	7	33	59	68
55	2	0	29	56	67
65	3	3	20	53	66
75	0	0	8	37	61
85	0	0	0	37	52



**W-AI-96P14T8-HPR-ELB 75.2 % Efficiency**  
Litecontrol Certified Test Report #29011000

RCC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	.72	.72	.72	.72	.62	.62	.62	.62	.43	.43	.43	.26	.26	.26	.10	.10	.10	.03
0	.66	.63	.60	.58	.56	.54	.52	.49	.38	.36	.35	.23	.22	.21	.09	.09	.08	.02
1	.60	.54	.50	.47	.51	.47	.43	.40	.33	.31	.29	.20	.19	.18	.08	.07	.07	.02
2	.54	.48	.43	.39	.47	.41	.37	.34	.29	.26	.24	.17	.16	.15	.07	.06	.06	.01
3	.50	.42	.37	.33	.42	.37	.32	.28	.26	.23	.20	.15	.14	.13	.06	.06	.05	.01
4	.45	.37	.32	.28	.39	.32	.28	.24	.23	.20	.17	.14	.12	.11	.05	.05	.04	.01
5	.42	.33	.28	.24	.36	.29	.24	.21	.20	.17	.15	.12	.11	.09	.05	.04	.04	.01
6	.38	.30	.24	.20	.33	.26	.21	.18	.18	.15	.13	.11	.09	.08	.04	.04	.03	.01
7	.35	.27	.21	.18	.30	.23	.19	.15	.16	.13	.11	.10	.08	.07	.04	.03	.03	.01
8	.33	.24	.19	.15	.28	.21	.17	.13	.15	.12	.10	.09	.07	.06	.04	.03	.02	.01
9	.30	.22	.17	.14	.26	.19	.15	.12	.13	.11	.09	.08	.07	.05	.03	.03	.02	.01
10																		

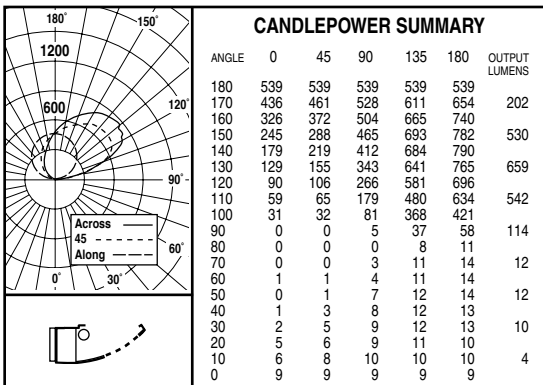
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2107	72.68	96.61
90-0°	74	2.55	3.39
180-0°	2181	75.23	100.00

**LUMINANCE SUMMARY**

ANGLE	0	45	90	135	180
45	2	7	39	63	74
55	0	0	29	61	72
65	3	0	20	56	69
75	3	0	8	48	64
85	0	0	0	42	60



**W-AI-96S14T8-LP/ELB 71.6 % Efficiency**  
Litecontrol Certified Test Report #2871100

RCC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	.69	.69	.69	.69	.59	.59	.59	.59	.41	.41	.41	.24	.24	.24	.09	.09	.09	.01
0	.62	.59	.57	.54	.53	.51	.49	.46	.35	.34	.33	.21	.20	.20	.07	.07	.07	.01
1	.56	.52	.48	.44	.48	.44	.41	.38	.31	.29	.27	.18	.17	.16	.07	.06	.06	.01
2	.52	.45	.41	.37	.44	.39	.35	.32	.27	.25	.23	.16	.15	.14	.06	.05	.05	.01
3	.47	.40	.35	.31	.40	.34	.30	.27	.24	.21	.19	.14	.13	.12	.05	.05	.04	.01
4	.43	.35	.30	.26	.37	.30	.26	.23	.21	.18	.16	.13	.11	.10	.05	.04	.04	.01
5	.39	.31	.26	.22	.34	.27	.23	.19	.19	.16	.14	.11	.10	.08	.04	.03	.03	.00
6	.36	.28	.23	.19	.31	.24	.20	.17	.17	.14	.12	.10	.08	.07	.04	.03	.03	.00
7	.33	.25	.20	.17	.28	.22	.17	.15	.15	.12	.10	.09	.08	.06	.03	.03	.02	.00
8	.31	.23	.18	.14	.26	.20	.16	.13	.14	.11	.09	.08	.07	.06	.03	.02	.02	.00
9	.29	.21	.16	.13	.25	.18	.14	.11	.13	.10	.08	.08	.06	.05	.03	.02	.02	.00
10																		

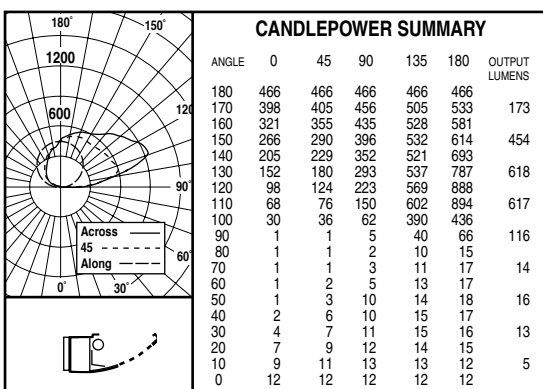
Floor Cavity Reflectance .20

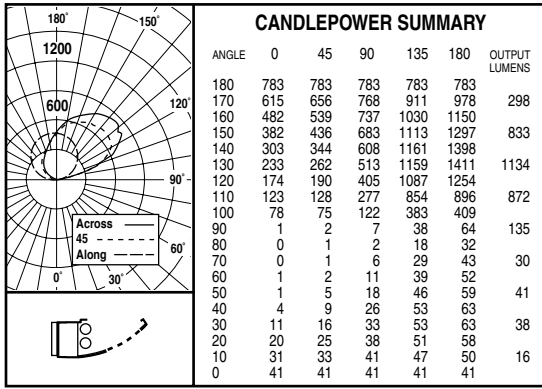
**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2033	70.12	97.98
90-0°	41	1.44	2.02
180-0°	2075	71.57	100.00

**LUMINANCE SUMMARY**

ANGLE	0	45	90	135	180
45	0	5	24	24	31
55	2	0	18	33	35
65	3	3	15	33	41
75	0	4	24	43	47
85	5	0	24	52	55



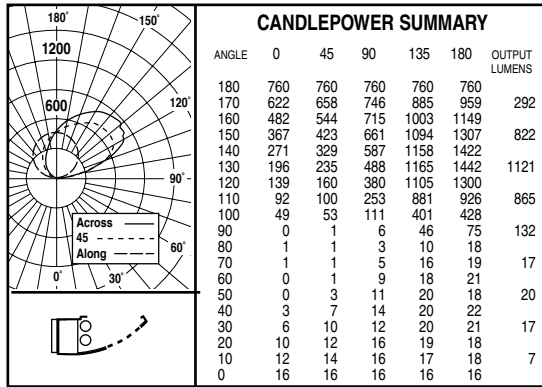


RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	.56	.56	.56	.56	.48	.48	.48	.48	.34	.34	.34	.20	.20	.20	.08	.08	.08	.08	.08	.08	.02
1	.51	.49	.47	.45	.44	.42	.40	.38	.29	.28	.27	.18	.17	.17	.07	.07	.07	.07	.07	.07	.02
2	.46	.42	.39	.36	.40	.37	.34	.31	.26	.24	.22	.15	.15	.14	.06	.06	.06	.06	.06	.06	.02
3	.42	.37	.33	.30	.36	.32	.29	.26	.23	.21	.19	.14	.13	.12	.05	.05	.05	.05	.05	.05	.01
4	.39	.33	.29	.25	.33	.28	.25	.22	.20	.18	.16	.12	.11	.10	.05	.04	.04	.04	.04	.04	.01
5	.35	.28	.25	.21	.30	.25	.21	.19	.18	.15	.14	.11	.09	.08	.04	.04	.03	.03	.03	.03	.01
6	.32	.26	.21	.18	.28	.22	.19	.16	.16	.13	.12	.10	.08	.07	.04	.03	.03	.03	.03	.03	.01
7	.30	.23	.19	.16	.25	.20	.16	.14	.14	.12	.10	.09	.07	.06	.03	.03	.02	.02	.02	.02	.01
8	.27	.21	.17	.14	.23	.18	.14	.12	.13	.10	.09	.08	.06	.05	.03	.02	.02	.02	.02	.02	.01
9	.25	.19	.15	.12	.22	.16	.13	.10	.11	.09	.08	.07	.06	.05	.03	.02	.02	.02	.02	.02	.01
10	.24	.17	.13	.11	.20	.15	.11	.09	.11	.08	.07	.06	.05	.04	.03	.02	.02	.02	.02	.02	.00

Floor Cavity Reflectance .20

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3254	56.11	96.05
90-0°	133	2.31	3.95
180-0°	3388	85.42	100.00

ANGLE	0	45	90	135	180
45	2	14	68	109	126
55	0	5	51	106	123
65	3	3	40	101	122
75	3	4	32	86	119
85	4	5	48	73	99

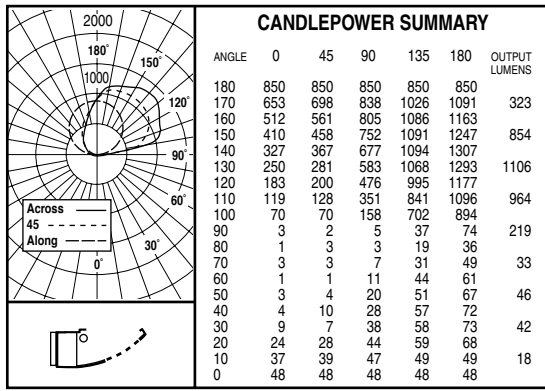


RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	.54	.54	.54	.54	.46	.46	.46	.46	.32	.32	.32	.19	.19	.19	.07	.07	.07	.07	.07	.07	.01
1	.49	.47	.45	.43	.42	.40	.39	.37	.28	.27	.26	.16	.16	.15	.06	.06	.06	.06	.06	.06	.01
2	.45	.41	.38	.35	.38	.35	.32	.30	.24	.23	.21	.14	.14	.13	.05	.05	.05	.05	.05	.05	.01
3	.41	.36	.32	.29	.35	.31	.28	.25	.21	.20	.18	.13	.12	.11	.05	.04	.04	.04	.04	.04	.01
4	.37	.32	.27	.24	.32	.27	.24	.21	.19	.17	.15	.11	.10	.09	.04	.04	.03	.03	.03	.03	.01
5	.34	.27	.24	.21	.29	.24	.21	.18	.17	.15	.13	.10	.09	.08	.04	.03	.03	.03	.03	.03	.00
6	.31	.25	.21	.18	.27	.21	.18	.15	.15	.13	.11	.09	.08	.07	.03	.03	.02	.02	.02	.02	.00
7	.29	.22	.18	.15	.24	.19	.16	.13	.13	.11	.09	.08	.07	.06	.03	.02	.02	.02	.02	.02	.00
8	.26	.20	.16	.13	.23	.17	.14	.12	.12	.10	.08	.07	.06	.05	.03	.02	.02	.02	.02	.02	.00
9	.24	.18	.14	.11	.21	.16	.12	.10	.11	.09	.07	.06	.05	.04	.02	.02	.02	.02	.02	.02	.00
10	.23	.16	.13	.10	.19	.14	.11	.09	.10	.08	.06	.06	.05	.04	.02	.02	.01	.01	.01	.01	.00

Floor Cavity Reflectance .20

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3216	55.45	97.94
90-0°	67	1.17	2.06
180-0°	3283	56.62	100.00

ANGLE	0	45	90	135	180
45	2	12	33	48	49
55	2	8	37	52	52
65	3	3	35	56	58
75	4	4	32	60	65
85	0	0	48	78	80



**W-AI-96P14T5HO-LP/ELB 71.9 % Efficiency**  
Litecontrol Certified Test Report #28916002

RCC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR	0	.69	.69	.69	.69	.60	.60	.60	.60	.42	.42	.42	.25	.25	.25	.10	.10	.10	.03		
1	.63	.60	.57	.55	.54	.52	.50	.47	.36	.35	.34	.22	.21	.21	.09	.09	.08	.02			
2	.57	.52	.48	.45	.49	.45	.42	.39	.32	.29	.28	.19	.18	.17	.08	.07	.07	.02			
3	.52	.46	.41	.37	.45	.40	.36	.33	.28	.25	.23	.17	.16	.14	.07	.06	.06	.02			
4	.48	.40	.35	.31	.41	.35	.31	.27	.25	.22	.20	.15	.13	.12	.06	.06	.05	.01			
5	.43	.35	.30	.26	.37	.31	.26	.23	.22	.19	.17	.13	.12	.10	.05	.05	.04	.01			
6	.40	.32	.26	.23	.34	.28	.23	.20	.19	.17	.14	.12	.10	.09	.05	.04	.04	.01			
7	.37	.28	.23	.19	.31	.25	.20	.17	.17	.14	.12	.11	.09	.08	.04	.04	.03	.01			
8	.34	.26	.20	.17	.29	.22	.18	.15	.16	.13	.11	.10	.08	.07	.04	.03	.03	.01			
9	.31	.23	.18	.15	.27	.20	.16	.13	.14	.11	.09	.09	.07	.06	.04	.03	.02	.01			
10	.29	.21	.16	.13	.25	.18	.14	.11	.13	.10	.08	.08	.06	.05	.03	.03	.02	.01			

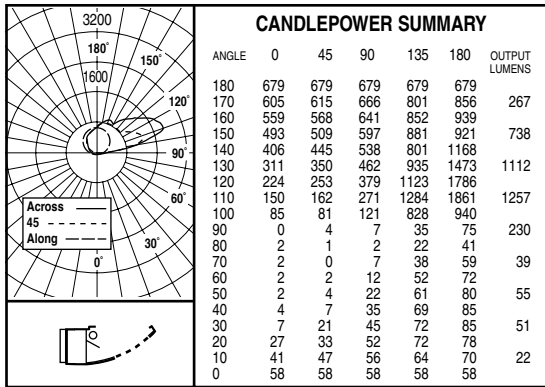
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3447	68.95	95.88
90-0°	148	2.96	4.12
180-0°	3595	71.91	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	2	16	74	109	148
55°	7	8	55	119	148
65°	3	3	35	113	148
75°	3	4	24	104	134
85°	4	5	48	73	111



**W-AI-96P14T5HO-HPR-LP/ELB 75.2 % Efficiency**  
Litecontrol Certified Test Report #29016001

RCC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR	0	.72	.72	.72	.62	.62	.62	.62	.44	.44	.44	.27	.27	.27	.11	.11	.11	.04			
1	.66	.63	.60	.58	.57	.54	.52	.49	.38	.37	.35	.23	.23	.22	.10	.09	.09	.03			
2	.60	.55	.50	.47	.51	.47	.44	.41	.33	.31	.29	.20	.19	.18	.08	.08	.08	.02			
3	.55	.48	.43	.39	.47	.42	.37	.34	.29	.27	.25	.18	.17	.15	.07	.07	.06	.02			
4	.50	.42	.37	.33	.43	.37	.32	.29	.26	.23	.21	.16	.14	.13	.07	.06	.05	.02			
5	.46	.37	.32	.28	.39	.32	.28	.24	.23	.20	.18	.14	.12	.11	.06	.05	.05	.01			
6	.42	.33	.28	.24	.36	.29	.24	.21	.20	.17	.15	.13	.11	.10	.05	.05	.04	.01			
7	.38	.30	.24	.20	.33	.26	.21	.18	.18	.15	.13	.11	.10	.08	.05	.04	.04	.01			
8	.35	.27	.21	.18	.30	.23	.19	.16	.16	.13	.11	.10	.08	.07	.04	.04	.03	.01			
9	.33	.24	.19	.15	.28	.21	.17	.14	.15	.12	.10	.09	.08	.06	.04	.03	.03	.01			
10	.30	.22	.17	.14	.26	.19	.15	.12	.14	.11	.09	.08	.07	.06	.04	.03	.02	.01			

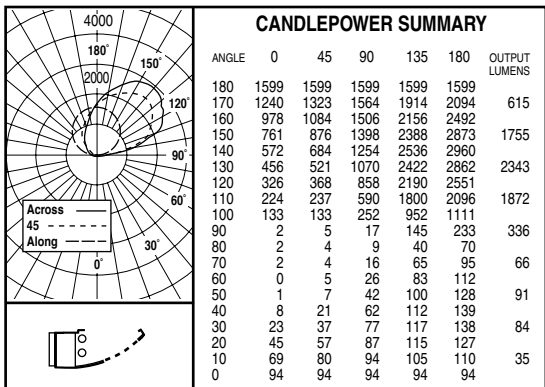
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3585	71.71	95.32
90-0°	176	3.52	4.68
180-0°	3761	75.23	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	4	16	80	149	175
55°	0	10	62	144	177
65°	5	0	45	137	168
75°	6	7	24	112	159
85°	8	10	24	89	123



**W-AI-96P24T5HO-LP/ELB 71.9 % Efficiency**  
Litecontrol Certified Test Report #2892600

RCC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR	0	.69	.69	.69	.60	.60	.60	.60	.42	.42	.42	.25	.25	.25	.10	.10	.10	.03			
1	.63	.60	.57	.55	.54	.52	.50	.47	.36	.35	.34	.22	.21	.21	.09	.09	.08	.02			
2	.57	.52	.48	.44	.49	.45	.42	.39	.32	.29	.28	.19	.18	.17	.08	.07	.07	.02			
3	.52	.46	.41	.37	.45	.40	.36	.33	.28	.25	.23	.17	.16	.14	.07	.06	.06	.02			
4	.47	.40	.35	.31	.41	.35	.31	.27	.25	.22	.20	.15	.13	.12	.06	.05	.05	.01			
5	.43	.35	.30	.26	.37	.31	.26	.23	.22	.19	.17	.13	.12	.10	.05	.05	.04	.01			
6	.40	.32	.26	.23	.34	.27	.23	.20	.19	.17	.14	.12	.10	.09	.05	.04	.04	.01			
7	.37	.28	.23	.19	.31	.25	.20	.17	.17	.14	.12	.11	.09	.08	.04	.04	.03	.01			
8	.34	.26	.20	.17	.29	.22	.18	.15	.16	.13	.11	.10	.08	.07	.04	.03	.03	.01			
9	.31	.23	.18	.15	.27	.20	.16	.13	.14	.11	.09	.09	.07	.06	.04	.03	.02	.01			
10	.29	.21	.16	.13	.25	.18	.14	.11	.13	.10	.08	.08	.06	.05	.03	.03	.02	.01			

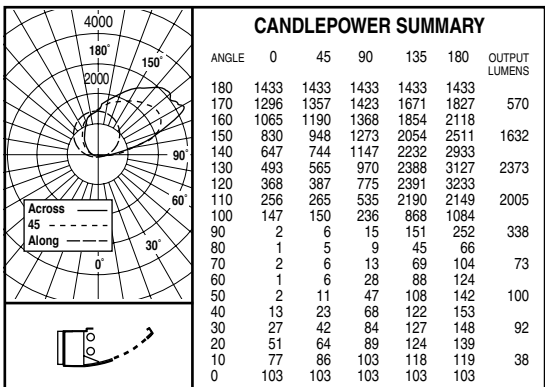
Floor Cavity Reflectance .20

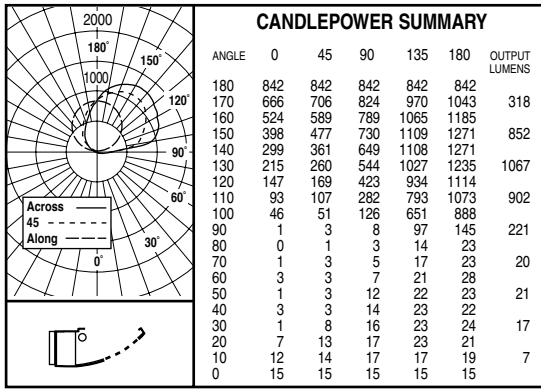
**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	6880	68.80	95.71
90-0°	308	3.08	4.29
180-0°	7188	71.89	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	8	36	148	242	276
55°	4	18	120	233	274
65°	3	12	104	220	260
75°	6	19	97	175	244
85°	4	21	168	157	226





**W-AI-96S14T5HO-LP/ELB 68.3 % Efficiency**  
Litecontrol Certified Test Report #28716000

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	.65	.65	.65	.65	.56	.56	.56	.56	.39	.39	.39	.23	.23	.23	.08	.08	.08	.02		
1	.59	.57	.54	.52	.51	.49	.47	.44	.34	.32	.31	.20	.19	.19	.07	.07	.07	.01			
2	.54	.49	.45	.42	.46	.42	.39	.36	.29	.27	.26	.17	.16	.15	.06	.06	.06	.01			
3	.49	.43	.39	.35	.42	.37	.33	.31	.26	.24	.22	.15	.14	.13	.06	.05	.05	.01			
4	.45	.38	.33	.29	.38	.33	.29	.26	.23	.20	.18	.14	.12	.11	.05	.04	.04	.01			
5	.41	.33	.29	.25	.35	.29	.25	.22	.20	.18	.15	.12	.11	.09	.04	.04	.03	.00			
6	.38	.30	.25	.21	.32	.26	.22	.19	.18	.15	.13	.11	.09	.08	.04	.03	.03	.00			
7	.35	.27	.22	.18	.29	.23	.19	.16	.16	.13	.11	.10	.08	.07	.04	.03	.03	.00			
8	.32	.24	.19	.16	.27	.21	.17	.14	.15	.12	.10	.09	.07	.06	.03	.03	.02	.00			
9	.29	.22	.17	.14	.25	.19	.15	.12	.13	.11	.09	.08	.06	.05	.03	.02	.02	.00			
10	.27	.20	.15	.12	.23	.17	.13	.11	.12	.09	.08	.07	.06	.05	.03	.02	.02	.00			

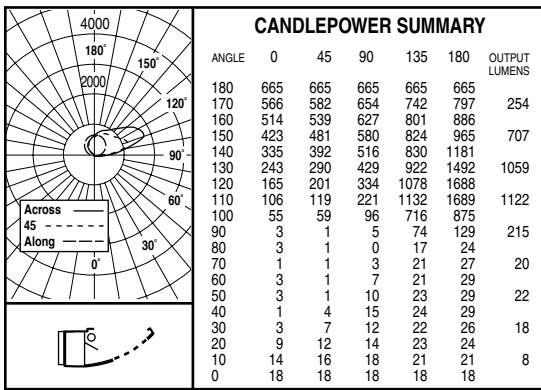
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3337	66.74	97.72
90-0°	77	1.56	2.28
180-0°	3415	68.30	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	2	5	39	53	54
55°	2	3	26	58	60
65°	9	3	35	63	67
75°	11	4	16	73	83
85°	5	7	24	85	90



**W-AI-96S14T5HO-HPR-LP/ELB 68.3 % Efficiency**  
Litecontrol Certified Test Report #28816000

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	.65	.65	.65	.65	.56	.56	.56	.56	.39	.39	.39	.23	.23	.23	.08	.08	.08	.02		
1	.59	.57	.54	.52	.51	.49	.47	.44	.34	.33	.31	.20	.19	.19	.07	.07	.07	.01			
2	.54	.49	.45	.42	.46	.42	.39	.36	.29	.27	.26	.17	.16	.15	.06	.06	.06	.01			
3	.49	.43	.39	.35	.42	.37	.34	.31	.26	.24	.22	.15	.14	.13	.06	.05	.05	.01			
4	.45	.38	.33	.29	.38	.33	.29	.26	.23	.20	.18	.14	.12	.11	.05	.05	.04	.01			
5	.41	.33	.29	.25	.35	.29	.25	.22	.20	.18	.15	.12	.11	.09	.04	.04	.04	.01			
6	.38	.30	.25	.21	.32	.26	.22	.19	.18	.15	.13	.11	.09	.08	.04	.03	.03	.01			
7	.35	.27	.22	.18	.29	.23	.19	.16	.16	.13	.11	.10	.08	.07	.04	.03	.03	.00			
8	.32	.24	.19	.16	.27	.21	.17	.14	.15	.12	.10	.09	.07	.06	.03	.03	.03	.00			
9	.29	.22	.17	.14	.25	.19	.15	.12	.13	.11	.09	.08	.06	.05	.03	.02	.02	.00			
10	.27	.20	.15	.12	.23	.17	.13	.11	.12	.09	.08	.07	.06	.05	.03	.02	.02	.00			

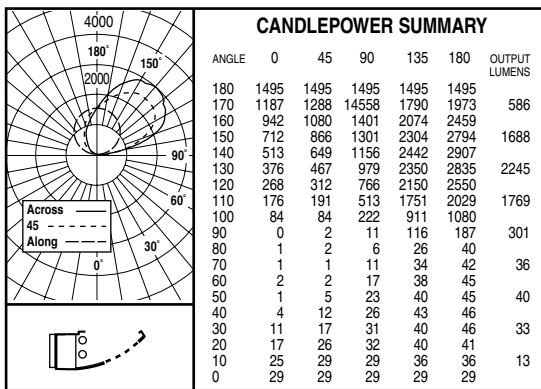
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3337	66.74	97.68
90-0°	79	1.59	2.32
180-0°	3416	68.33	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	2	2	41	55	65
55°	2	3	33	60	72
65°	3	3	35	69	84
75°	11	4	16	30	94
85°	5	7	24	85	105



**W-AI-96S24T5HO-LP/ELB 67.0 % Efficiency**  
Litecontrol Certified Test Report #28726000

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	.64	.64	.64	.64	.55	.55	.55	.55	.38	.38	.38	.22	.22	.22	.08	.08	.08	.01		
1	.58	.56	.53	.51	.50	.48	.46	.43	.33	.32	.31	.19	.19	.18	.07	.07	.07	.01			
2	.53	.48	.44	.41	.45	.41	.38	.36	.29	.27	.25	.17	.16	.15	.06	.06	.06	.01			
3	.48	.42	.38	.34	.41	.36	.33	.30	.25	.23	.21	.15	.14	.13	.05	.05	.05	.01			
4	.44	.37	.32	.29	.38	.32	.28	.25	.22	.20	.18	.13	.12	.11	.05	.04	.04	.01			
5	.40	.32	.28	.24	.34	.29	.24	.21	.20	.17	.15	.12	.10	.09	.04	.04	.03	.00			
6	.37	.29	.24	.21	.31	.25	.21	.18	.18	.15	.13	.11	.09	.08	.04	.03	.03	.00			
7	.34	.26	.21	.18	.29	.23	.19	.16	.16	.13	.11	.09	.08	.07	.03	.03	.03	.00			
8	.31	.24	.19	.16	.27	.20	.16	.14	.14	.12	.10	.09	.07	.06	.03	.03	.02	.00			
9	.29	.21	.17	.14	.25	.18	.15	.12	.13	.11	.09	.08	.06	.05	.03	.02	.02	.00			
10	.27	.19	.15	.12	.23	.17	.13	.10	.12	.09	.07	.07	.06	.05	.03	.02	.02	.00			

Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	6557	65.58	97.88
90-0°	142	1.42	2.12
180-0°	6700	67.00	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°	135°	180°
45°	4	17	77	96	100
55°	2	5	80	107	109
65°	6	3	50	119	131
75°	7	9	65	138	152
85°	0	0	72	163	181

