

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Direct/indirect distribution of soft light creates superior brightness control and balanced light
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

PRODUCT SPECIFICATIONS
Optics (BO Basket Style)

Shielding: High transmission polycarbonate features a textured opal surface on one side specifically designed for lighting lenses

- Unique combination of high light diffusion and high light transmission through a combination of optimized surface texture and advanced diffuser technology enhance fixture aesthetics while maximizing performance
- Easily removable for access to LED boards

Optics (BP Basket Style)

Shielding: Die-formed C.R.S. with 50% open perforation, white baked enamel finish with white polycarbonate diffuser

- Provides glare control and reflection veiling
- Easily removable for access to LED boards

Reflector

High reflectance white paint provides soft, uniformed indirect light distribution

Electrical

LED Light Engine: High-performance LEDs deliver consistent high-quality white light and uniform illumination without pixilation

- Consistent fixture-to-fixture color temperature within 3 MacAdam ellipses
- Light engine/reflector system produces 2600 to 3900 lumens while using only 44 watts of energy
- 3000K, 3500K, 4100K and 5000K color temperatures
- CRI>80
- Easily replaceable array boards allow for easy maintenance or updating technology

LED Driver: Accommodates 120V or 277V input volts AC at 50/60Hz

- Consult factory for 347V
- Power factor >0.9
- Dimmable to 10% with 0-10V DC control protocol
- For list of compatible dimmers see [LED-DIM](#)

Life: Rated for 50,000 hours at 70% lumen maintenance, 8-12 years commercial use expectancy

Housing

23 gauge C.R.S. • Highly reflective white powder coat bonded to phosphate-free, multi-staged pretreated metal

Mounting

For lay-in applications, sits on drop ceiling T-bars. Drywall frame available for plaster/drywall ceilings, see accessories.

Labels and Listings

- Tested and certified to UL and CSA standards using ETL laboratories
- I.B.E.W. Union made

Warranty: 5 years when used in accordance with manufacturing guidelines.

Product specifications subject to change without notice.

ORDERING INFORMATION: Accessories ordered separately

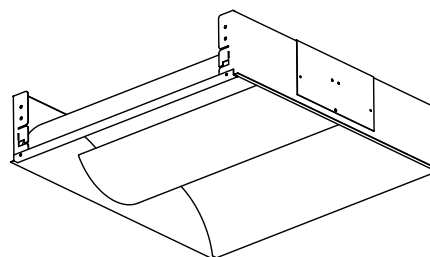
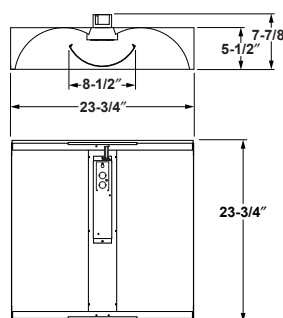
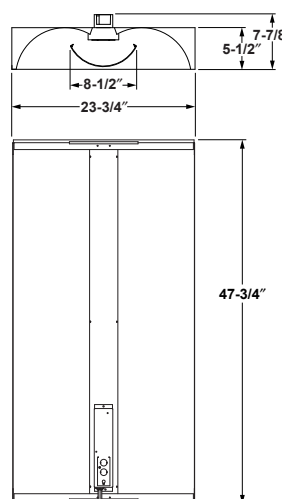
Example: **S2X2BP-26351-WH2**

Cat. #	Size	Basket Style	Lumens	Color Temp.	Voltage	Finish	Generation	Options	Accessories
S						WH	2		
S	2X2	BP	26¹	30 3000K	1 120V	WH	2 Gen2	BR	2X2DWA
Solid State, LED	2' x 2'	White Perforated	2600 Lumens	35 3500K	2 277V	White		Emergency Battery Pack w/ Remote Test Switch	2' X 2' Drywall Frame Adapter
	2X4	BO	39²	40 4100K	3 347V				2X4DWA
	2' x 4'	Opal Diffuser	3900 Lumens	50 5000K					2' X 4' Drywall Frame Adapter

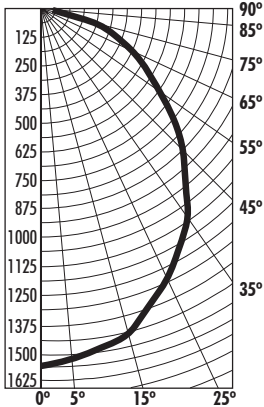
¹BP Diffuser Style only
²BO Diffuser Style only

2X2, 2X4 LED RECESSED DIRECT/INDIRECT LUMINAIRE S2X2B, S2X4B SERIES


Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	


DIMENSIONS
2'x2'

2'x4'


PHOTOMETRIC REPORT
Catalog Number: S2X2B0-39351-WH2
Test Number: PT03122002
Total Lumen Output: 3893 Lumens
Luminaire Efficacy: 91 lm/w
Luminaire Spacing Criteria: 1.14
Luminaire: 2' X 2' Indirect with Opal Diffuse Basket.
CIE-Type: Indirect/Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	3170	3754	4246
55°	2653	3408	4102
65°	2306	3088	3891
75°	2035	2861	3154
85°	1612	1712	1074

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	1174	30.2
0-40°	1877	48.2
0-60°	3153	81.0
0-90°	3893	100.0
90-180°	0	0.0
0-180°	3893	100.0

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1570	
5°	1558	148
15°	1474	416
25°	1320	611
35°	1112	703
45°	876	688
55°	639	588
65°	428	438
75°	227	247
85°	38	55

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

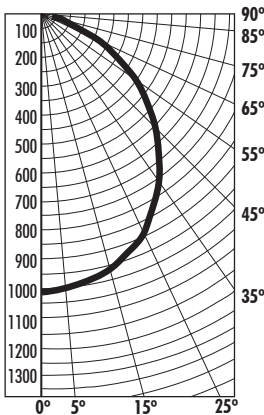
Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	164	112	75
6' x 6'	114	78	52
7' x 7'	83	57	38
8' x 8'	64	44	29
9' x 9'	50	35	23
10' x 10'	41	28	19
11' x 11'	34	23	15
12' x 12'	28	19	13

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0								
	PW	70	50	30	10	70	50	30	10	50	30	10	0						
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40	
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35	
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32	
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29	
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26	

PHOTOMETRIC REPORT
Catalog Number: S2X2BP-26401-WH2
Test Number: PT03122202
Total Lumen Output: 2673 Lumens
Luminaire Efficacy: 63 lm/w
Luminaire Spacing Criteria: 1.20
Luminaire: 2' X 2' Indirect with perforated Basket.
CIE-Type: Indirect/Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	2446	2719	2955
55°	2092	2556	2847
65°	1641	2306	2465
75°	1142	1673	2013
85°	772	907	705

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	783	29.3
0-40°	1272	47.6
0-60°	2196	82.2
0-90°	2673	100.0
90-180°	0	0.0
0-180°	2673	100.0

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1026	
5°	1020	97
15°	974	275
25°	890	411
35°	776	489
45°	635	495
55°	470	429
65°	293	300
75°	132	148
85°	20	30

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

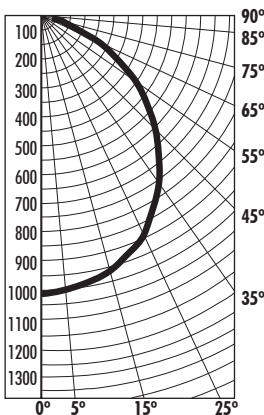
Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	112	77	51
6' x 6'	78	53	36
7' x 7'	57	39	26
8' x 8'	44	30	20
9' x 9'	35	24	16
10' x 10'	28	19	13
11' x 11'	23	16	11
12' x 12'	19	13	9

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0								
	PW	70	50	30	10	70	50	30	10	50	30	10	0						
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72	
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40	
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35	
8	62	48	40	34	60	47	39	34	46	39	34	45	38	34	44	38	33	31	
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28	
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26	

PHOTOMETRIC REPORT
Catalog Number: S2X2BP-26351-WH2
Test Number: PT03122203
Total Lumen Output: 2651 Lumens
Luminaire Efficacy: 62 lm/w
Luminaire Spacing Criteria: 1.20
Luminaire: 2' X 2' Indirect with perforated Basket.
CIE-Type: Indirect/Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	2396	2690	2938
55°	2041	2520	2826
65°	1565	2257	2451
75°	1085	1628	2001
85°	739	873	672

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	778	29.3
0-40°	1263	47.6
0-60°	2180	82.2
0-90°	2651	100.0
90-180°	0	0.0
0-180°	2651	100.0

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1020	
5°	1015	96
15°	967	273
25°	884	409
35°	771	485
45°	630	492
55°	467	425
65°	288	396
75°	130	146
85°	20	29

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	111	76	51
6' x 6'	77	53	35
7' x 7'	57	39	26
8' x 8'	43	30	20
9' x 9'	34	24	16
10' x 10'	28	19	13
11' x 11'	23	16	11
12' x 12'	19	13	9

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

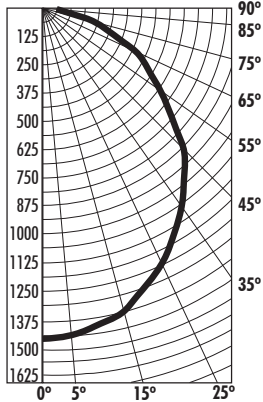
Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0								
	PW	70	50	30	10	70	50	30	10	50	30	10	0						
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72	
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40	
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35	
8	62	48	40	34	60	47	39	34	46	39	34	45	38	34	44	38	33	31	
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28	
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26	

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (800) 367-5866 • Fax (888) 708-6578
 Visit us

PHOTOMETRIC REPORT
Catalog Number: S2X4B0-39351-WH2
Test Number: J244729-1 + 727-2
Total Lumen Output: 3729 Lumens
Luminaire Efficacy: 87 lm/w
Luminaire Spacing Criteria: 1.24
Luminaire: 2' X 4' Indirect with Opal Diffuse Basket.
CIE-Type: Indirect/Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	1957	1778	1532
55°	1876	1625	1260
65°	1786	1470	1054
75°	1566	1368	952
85°	584	882	673

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	1099	29.5
0-40°	1773	47.5
0-60°	3007	80.6
0-90°	3729	100.0
90-180°	0	0.0
0-180°	3729	100.0

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	1440	
5°	1437	136
15°	1376	387
25°	1259	576
35°	1092	674
45°	886	667
55°	655	567
65°	440	419
75°	243	247
85°	43	57

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

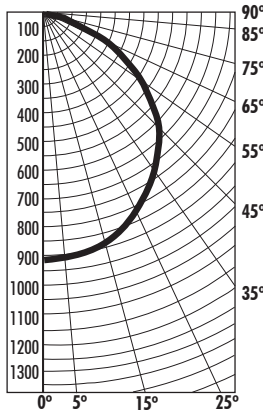
Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	155	107	72
6' x 6'	108	75	50
7' x 7'	79	55	37
8' x 8'	61	42	28
9' x 9'	48	33	22
10' x 10'	39	27	18
11' x 11'	32	22	15
12' x 12'	27	19	12

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80				70				50				30				10				0			
	PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	87	84						
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71						
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60						
4	83	72	63	56	81	70	62	56	68	61	55	65	56	54	63	58	54	52						
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45						
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39						
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35						
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31						
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28						
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26						

PHOTOMETRIC REPORT
Catalog Number: S2X4BP-26401-WH2
Test Number: J244729-1
Total Lumen Output: 2574 Lumens
Luminaire Efficacy: 60 lm/w
Luminaire Spacing Criteria: 1.32
Luminaire: 2' X 4' Indirect with perforated Basket.
CIE-Type: Indirect/Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	1414	1319	1170
55°	1377	1279	1002
65°	1184	1142	752
75°	1016	818	479
85°	372	387	199

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	726	28.2
0-40°	1192	46.3
0-60°	2098	81.5
0-90°	2574	100.0
90-180°	0	0.0
0-180°	2574	100.0

Candlepower Distribution (Candelas)

Angle	Candela	Lumens
0°	932	
5°	928	88
15°	898	253
25°	837	285
35°	751	466
45°	635	482
55°	483	424
65°	308	299
75°	147	150
85°	20	28

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	108	73	49
6' x 6'	75	51	34
7' x 7'	55	37	25
8' x 8'	42	29	19
9' x 9'	33	23	15
10' x 10'	27	18	12
11' x 11'	22	15	10
12' x 12'	19	13	9

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80				70				50				30				10				0			
	PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85						
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71						
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60						
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51						
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44						
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39						
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34						
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31						
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28						
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25						



Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (800) 367-5866 • Fax (888) 708-6578
 Visit us at www.junolightinggroup.com