

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- The Indy 2x4 Architectural Basket Series delivers up to 6500 lumens and efficacies as high as 123 lumens per watt
- Direct/Indirect distribution of soft light creates superior brightness control and balanced light
- 2 shielding options; textured opal or round pattern high performance acrylic
- Available in a wide range of color temperatures and control through both standard 0-10V dimming and available nLight wired and wireless



**2X4 LED LOW-PROFILE
RECESSED LUMINAIRE WITH
BASKET DIFFUSER
S2X4 SERIES**

PRODUCT SPECIFICATIONS

Basket Style Optics

Shielding: Specially formulated high transmission optic features a textured opal and patterned round 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 and driver

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 2100 to 6500 lumens at 80 CRI, and 1700 to 5200 lumens at 90 CRI while using only 28 to 63 watts of energy • 3000K, 3500K, 4100K and 5000K color temperatures • 80 and 90 CRI options available • Easily replaceable array boards allow for easy maintenance or updating technology

LED Driver: Accommodates 120 - 277V and 347V input volts AC at 50/60Hz • Power factor >0.9 • Dimming standard to 1% with either generic or ELDOLED drivers • Easy access to driver for maintenance and new technology • Dimmable to 33% and 66% with optional step dimming

Life: Rated for 60,000 hours at 80% lumen maintenance, 8-12 years commercial use expectancy

Controls

Wired or wireless dimming available through nLight wired or nLight air.

Housing

Enclosed LED chamber with removable lens • Cold rolled steel or electro galvanized substrate • Highly reflective white finish on phosphate-free, multi-staged pretreated metal • Built-in earth quake clips

Mounting

Lightweight and easy to install in any standard T-Bar or screw slot grids • Drywall frame available for plaster/drywall ceilings, see accessories • Ideal for new construction and remodel applications • Recommended to use LFC clips on all 9/16" grid

Packaging

For large jobs, order with Bulk Pack option to reduce labor and packaging waste • 2x4 units are packed 10 per pallet

Labels and Listings

- CSA Certified to meet U.S. and Canadian standards.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Type IC rated

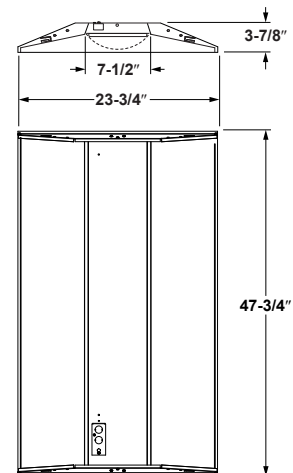
Warranty: 5 years when used in accordance with manufacturing guidelines.

Specifications subject to change without notice.

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



DIMENSIONS



ENGINEERING DATA

Voltage	120V - 277V			
Light Engine Lumens	2600/2100/1700	3900/3200/3100/2600	5500/4600/4400/3700	6500/5200/4200
CCT	3K/35K/4K/5K	3K/35K/4K/5K	3K/35K/4K/5K	3K/35K/4K/5K
Input Wattage	27W	36W	53W	63W
Input Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	0.9	0.9	0.9	

Consult factory for 347V

2X4 LED LOW-PROFILE RECESSED LUMINAIRE WITH BASKET DIFFUSER S2X4 SERIES

ORDERING INFORMATION Accessories ordered separately Ordering Example: S2X4BL 6550U WH5 EZ1 N100, S2X4BLPR 4230U WH5 PWS1846 E10WLCP EZ1 NLTAIR2 RIO 90

Series/Diffuser Type	Lumens ¹ /Color Temp./Voltage				Finish/Generation		Options	Accessories	
S2X4 2' x 4' Solid State, Low Profile LED BL Textured Opal BLPR Pattern Round	80 CRI ONLY				30	3000K	U	120-277	WH White 5 Gen 5 PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit ⁴ PWS1846PWSLV Two cables: 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray ⁵ PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage purple and gray wires ⁶ BR Emergency battery pack w/ remote test Switch E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS EZ1 eldoLED dims to 1% (0-10V dimming) EZ1 N100 eldoLED dims to 1%, nLight wired network without lumen management ⁷ EZ1 NLTAIR2 RIO eldoLED dims to 1%, nLight Air wireless generation 2 enabled with radio module ⁷ CP Chicago Plenum GSKT Gasket (contamination deterrent gasket) AM Anti-Microbial Paint (provides mildew and odor resistance to product) BPK Bulk Pack, Qty 22 per pallet SD Step Dimming ⁸ 90 90 CRI
	26	2600 Lumens	35	3500K	3	347V ³			
	39	3900 Lumens	40	4100K					
	55	5500 Lumens	50	5000K					
	65	6500 Lumens							
	90 CRI ONLY								
	21	2100 Lumens ²							
	32	3200 Lumens ²							
	46	4600 Lumens ²							
	52	5200 Lumens ²							
	80 CRI ONLY								
	21	2100 Lumens							
	31	3100 Lumens							
	44	4400 Lumens							
	52	5200 Lumens							
	90 CRI ONLY								
	17	1700 Lumens ²							
	26	2600 Lumens ²							
	37	3700 Lumens ²							
	42	4200 Lumens ²							

Notes

- 1 Approximate lumen output.
- 2 Only available with "90" option indicating 90 CRI.
- 3 Not available with SD, EZ1, EZ1 N100, EZ1 NLTAIR2 RIO, BR or E10WLCP.
- 4 For use with SD or BR or E10WLCP.
- 5 For use with BR or E10WLCP only.
- 6 Not available with SD or BR or E10WLCP.
- 7 Not available with CP.
- 8 Not available with 65, 52, 42 lumen options, EZ1, EZ1 N100, or EZ1 NLTAIR2 RIO.

Performance Data			
Catalog Number	Input Watts	Lumens	LPW
S2X4BL 2630 U WH5	27	2782	103.04
S2X4BL 2635 U WH5	27	2824	104.59
S2X4BL 2640 U WH5	27	2908	107.70
S2X4BL 2650 U WH5	27	2949	109.22
S2X4BL 2130 U WH5 90	27	2099	77.74
S2X4BL 2135 U WH5 90	27	2163	80.11
S2X4BL 2140 U WH5 90	27	2208	81.78
S2X4BL 2150 U WH5 90	27	2326	86.15
S2X4BL 3930 U WH5	36	3954	109.83
S2X4BL 3935 U WH5	36	4013	111.47
S2X4BL 3940 U WH5	36	4132	114.78
S2X4BL 3950 U WH5	36	4191	116.42
S2X4BL 3230 U WH5 90	36	3205	89.03
S2X4BL 3235 U WH5 90	36	3298	91.61
S2X4BL 3240 U WH5 90	36	3365	93.47
S2X4BL 3250 U WH5 90	36	3544	98.44
S2X4BL 5530 U WH5	53	5840	110.19
S2X4BL 5535 U WH5	53	5928	111.85
S2X4BL 5540 U WH5	53	6103	115.15
S2X4BL 5550 U WH5	53	6191	116.81
S2X4BL 4630 U WH5 90	53	4602	86.83
S2X4BL 4635 U WH5 90	53	4743	89.49
S2X4BL 4640 U WH5 90	53	4839	91.30
S2X4BL 4650 U WH5 90	53	5099	96.21

2X4 LED LOW-PROFILE RECESSED LUMINAIRE WITH BASKET DIFFUSER S2X4 SERIES

PHOTOMETRIC REPORT

Catalog Number: S2X4BL 5535U WH5

Test Number: PT009140801P

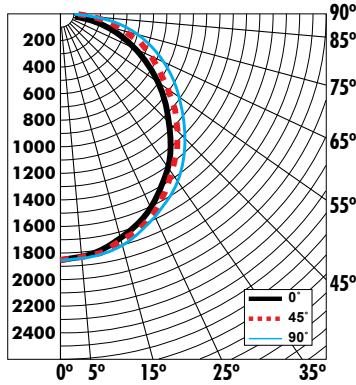
Total Lumen Output: 5652 Lumens

Luminaire Efficacy: 108 lm/w

Luminaire Spacing Criteria: END = 1.22 ACROSS = 1.30

Luminaire: 2' X 4' Troffer with Opal Basket Diffuser

CIE-Type: Direct



Luminance Data (Candela/M)

Table with columns: Angle in Degrees, Avg. 0°, Avg. 45°, Avg. 90°. Rows for angles 45°, 55°, 65°, 75°, 85°.

Zonal Lumen Summary

Table with columns: Zone, Lumens, %ofixture. Rows for zones 0-30°, 0-40°, 0-60°, 0-90°, 90-180°, 0-180°.

Candlepower Distribution (Candelas)

Table with columns: Angle, Candela, Lumens. Rows for angles 0°, 5°, 15°, 25°, 35°, 45°, 55°, 65°, 75°, 85°.

AVERAGE INITIAL FOOTCANDLES

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

Table with columns: Luminaire Spacing, RCR1, RCR4, RCR8. Rows for spacing sizes 5' x 5', 6' x 6', 7' x 7', 8' x 8', 9' x 9', 10' x 10', 11' x 11', 12' x 12'.

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

Large table with columns: PCC, PW, and various spacing/RCR values for different room cavity ratios.

PHOTOMETRIC REPORT

Catalog Number: S2X4BL 3950U WH5

Test Number: PT009140801P

Total Lumen Output: 4305 Lumens

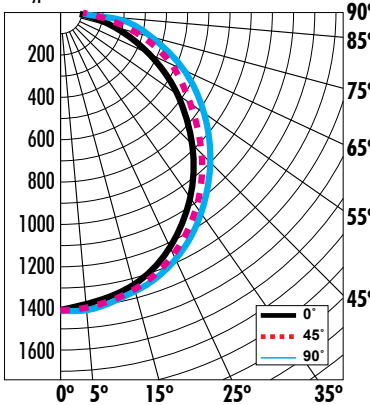
Luminaire Efficacy: 123 lm/w

Luminaire Spacing Criteria: END = 1.22 ACROSS = 1.30

Luminaire: 2' X 4' Troffer with Opal Basket Diffuser

CIE-Type: Direct

CCT MULTIPLIER: 3K X 0.909, 35K X 0.930, 4K X 0.950



Luminance Data (Candela/M)

Table with columns: Angle in Degrees, Avg. 0°, Avg. 45°, Avg. 90°. Rows for angles 45°, 55°, 65°, 75°, 85°.

Zonal Lumen Summary

Table with columns: Zone, Lumens, %ofixture. Rows for zones 0-30°, 0-40°, 0-60°, 0-90°, 90-180°, 0-180°.

Candlepower Distribution (Candelas)

Table with columns: Angle, Candela, Lumens. Rows for angles 0°, 5°, 15°, 25°, 35°, 45°, 55°, 65°, 75°, 85°.

AVERAGE INITIAL FOOTCANDLES

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

Table with columns: Luminaire Spacing, RCR1, RCR4, RCR8. Rows for spacing sizes 5' x 5', 6' x 6', 7' x 7', 8' x 8', 9' x 9', 10' x 10', 11' x 11', 12' x 12'.

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

Large table with columns: PCC, PW, and various spacing/RCR values for different room cavity ratios.

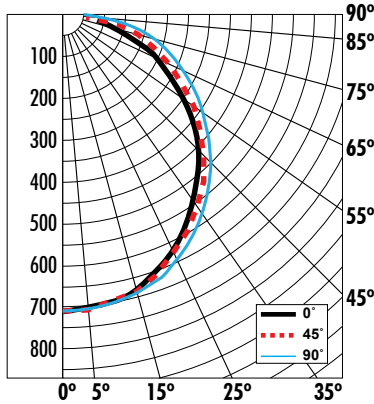
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

SHIELDING MULTIPLIER: S2X4BLPR X 0.80

CCT MULTIPLIER: 3K X 0.977, 4K X 1.021, 5K X 1.075

2X4 LED LOW-PROFILE RECESSED LUMINAIRE WITH BASKET DIFFUSER S2X4 SERIES

PHOTOMETRIC REPORT
Catalog Number: S2X4BL 2135U WHS 90
 Test Number: PT08150701P
 Total Lumen Output: 2164 Lumens
 Luminaire Efficacy: 77 lm/w
 Luminaire Spacing Criteria: END = 1.24
 ACROSS = 1.30
 Luminaire: 2' X 4' Troffer with Opal Basket Diffuser
 CIE-Type: Direct



Luminaire Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	915	962	1015
55°	877	945	1028
65°	826	944	1084
75°	747	1015	1274
85°	619	1357	1609

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	553	25.5
0-40°	906	41.9
0-60°	1614	74.6
0-90°	2164	100.0
90-180°	0	0.0
0-180°	2164	100.0

Candlepower Distribution (Candelas)

Angle	Candela			Lumens
	0.0	45.0	90.0	
0°	712	712	712	
5°	704	708	714	67
15°	675	684	691	193
25°	621	634	648	292
35°	544	564	583	353
45°	453	476	503	368
55°	352	379	413	341
65°	244	279	320	278
75°	135	184	231	193
85°	38	83	98	78

AVERAGE INITIAL FOOTCANDLES
 Reflectances: 80% Ceiling, 50% Walls, 30% Floors

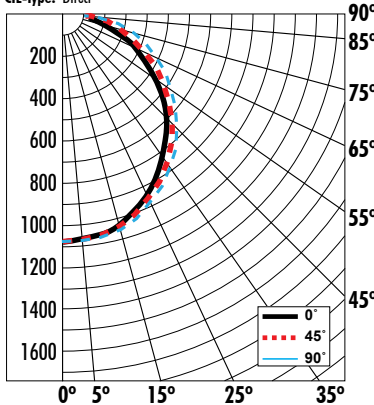
Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	88	59	39
6' x 6'	61	41	27
7' x 7'	45	30	20
8' x 8'	34	23	15
9' x 9'	27	18	12
10' x 10'	22	15	10
11' x 11'	18	12	8
12' x 12'	15	10	7

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80				70				50				30				0	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	84	81
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	37	31	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

PHOTOMETRIC REPORT
Catalog Number: S2X4BL 3235U WHS 90
 Test Number: PT08150701P
 Total Lumen Output: 3299 Lumens
 Luminaire Efficacy: 91 lm/w
 Luminaire Spacing Criteria: END = 1.24
 ACROSS = 1.30
 Luminaire: 2' X 4' Troffer with Opal Basket Diffuser
 CIE-Type: Direct



Luminaire Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	1395	1467	1548
55°	1337	1441	1567
65°	1259	1439	1652
75°	1139	1548	1943
85°	943	2068	2453

Zonal Lumen Summary

Zone	Lumens	%fixture
0-30°	843	25.5
0-40°	1381	41.9
0-60°	2461	74.6
0-90°	3299	100.0
90-180°	0	0.0
0-180°	3299	100.0

Candlepower Distribution (Candelas)

Angle	Candela			Lumens
	0.0	45.0	90.0	
0°	1085	1085	1085	
5°	1073	1079	1088	103
15°	1030	1042	1054	294
25°	946	966	988	446
35°	829	859	889	538
45°	690	726	766	561
55°	537	579	629	519
65°	372	426	489	424
75°	206	280	352	295
85°	58	126	150	120

AVERAGE INITIAL FOOTCANDLES
 Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	143	107	78
6' x 6'	99	74	54
7' x 7'	73	55	40
8' x 8'	56	42	30
9' x 9'	44	33	24
10' x 10'	36	27	19
11' x 11'	29	22	16
12' x 12'	25	19	14

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

PCC	80				70				50				30				0	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	84	81
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	37	31	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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.

SHIELDING MULTIPLIER:
 S2X4BLPR X 0.80

CCT MULTIPLIER:
 3K X 0.970
 4K X 1.020
 5K X 1.075

2X4 LED LOW-PROFILE RECESSED LUMINAIRE WITH BASKET DIFFUSER S2X4 SERIES

PHOTOMETRIC REPORT

Catalog Number: S2X4BL 6535U WH5

Test Number: PT06163002

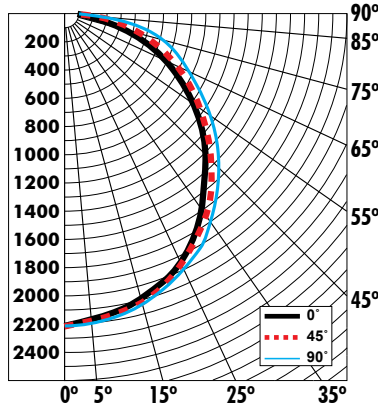
Total Lumen Output: 6714 Lumens

Luminaire Efficacy: 105.7 lm/w

Luminaire Spacing Criteria: END = 1.20
ACROSS = 1.30

Luminaire: 2' X 4' Troffer with Opal Basket Diffuser

CIE-Type: Direct



Luminance Data (Candela/M)

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	2868	3004	3150
55°	2767	2960	3189
65°	2629	2980	3394
75°	2398	3238	4056
85°	1998	3938	4295

Zonal Lumen Summary

Zone	Lumens	% of fixture
0-30°	1715	25.5
0-40°	2807	41.8
0-60°	5003	74.5
0-90°	6714	100.0
90-180°	0	0.0
0-180°	6714	100.0

Candlepower Distribution (Candelas)

Angle	Candela			Lumens
	0.0	45.0	90.0	
0°	2210	2210	2210	
5°	2186	2198	2213	212
15°	2098	2123	2143	598
25°	1929	1966	2004	905
35°	1695	1746	1801	1091
45°	1415	1476	1548	1139
55°	1107	1180	1271	1057
65°	775	875	887	871
75°	433	584	730	611
85°	121	239	260	229

AVERAGE INITIAL FOOTCANDLES

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

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	285	193	126
6' x 6'	198	134	88
7' x 7'	145	99	64
8' x 8'	111	76	49
9' x 9'	88	60	39
10' x 10'	71	48	32
11' x 11'	59	40	26
12' x 12'	49	34	22

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	108	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	84	81				
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	50	47				
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41				
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35				
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31				
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28				
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				

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.

SHIELDING MULTIPLIER:
S2X4BLPR X 0.80

CCT MULTIPLIER:
3K X 0.970
4K X 1.020
5K X 1.075