



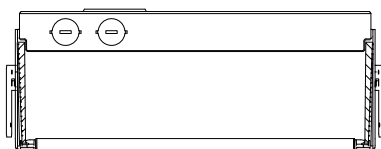
Specification Data



Luminaire	INBOX 1 X 4 (NB2-14)	Type
Project		
Product		
Notes		



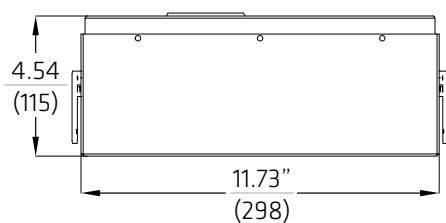
CROSS SECTION



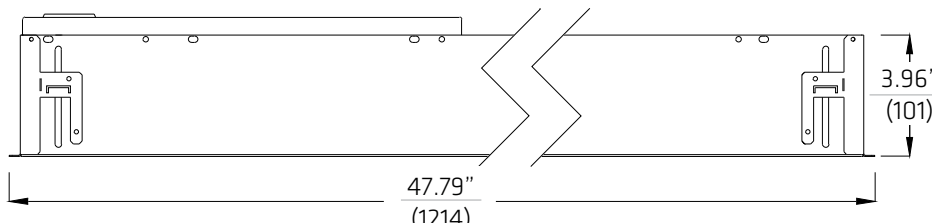
Performance Summary	Inbox 1 x 4			
	A	B	C	D
Light (lm)	2400	2950	3800	4600
Energy (W)	23	29	38	47
Efficacy (lm/W)	105	104	102	99
Color Rendering (CRI)	80+	80+	80+	80+
Color Accuracy (SDCM)	< 2	< 2	< 2	< 2
L70 Estimate (h)	200,000	200,000	200,000	200,000
Lumen Maintenance per TM21 (@ 60,000 h)	L90	L90	L90	L90

DLC qualified for 47 W (D) in 3000K, 3500K & 4000K.
 Note: Values are nominal and based on 4000K CCT.

DIMENSIONS



FRONT VIEW

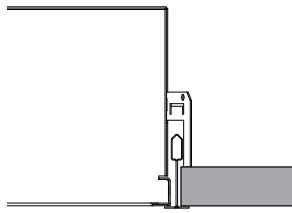


SIDE VIEW

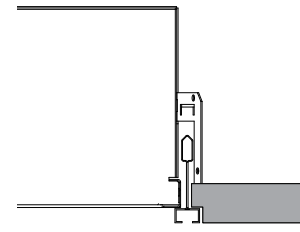
SPECIFICATION

NB2		14						OPTIONS	
1	2	3	4	5	6				
1. FAMILY	2. SIZE	3. ENERGY ¹	4. CCT	5. DRIVER	6. VOLTAGE	OPTIONS			
NB2 Inbox	12 1 x 2 (2-sided optics) 14 1 x 4 (2-sided optics) 22 2 x 2 (2-sided optics) 24 2 x 4 (2-sided optics)	A 23 W B 29 W C 38 W D 47 W ²	30 3000 K 35 3500 K 40 4000 K	E1 eldoLED ECO 0-10V Dim 1% E2 eldoLED SOLO 0-10V Dim 0.1% E3 eldoLED ECO DALI 1% E4 eldoLED SOLO DALI Dim 0.1% F1 Factory Non- Dim F2 Factory 0-10V Dim 3% L1 Lutron Hi-Lume 1%-H EcoSystem	M 120 - 277 V 3 347 V ³	B Battery Pack ⁴ C Chicago Plenum F 6' Flex Whip K Drywall Flange Kit			
NB1 Inbox	22 2 x 2 (4-sided optics)	¹ Add 4W to above for 347V with E1-4/L1 ² 1 x 4 2 x 4 2 x 2 (4 sided) only		³ 347 V Driver for F1/F2 347 V Transformer & Driver E1-4/L1		⁴ Available for 120-277V			

CEILING INTEGRATION GRID

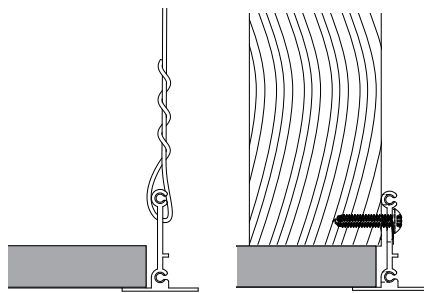


FLAT GRID

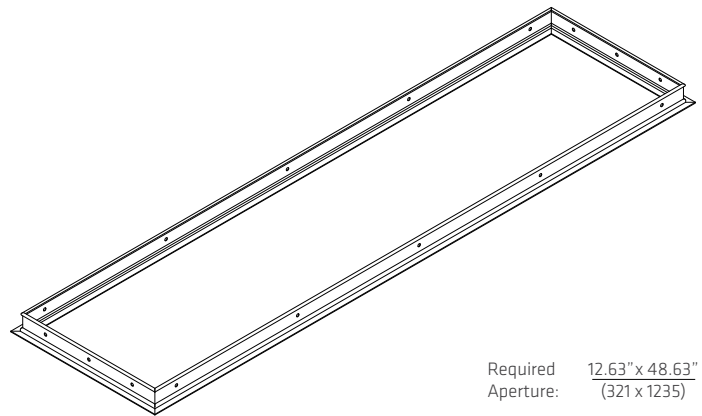


SLOT GRID

CEILING INTEGRATION DRYWALL



DRYWALL FLANGE KIT



Required Aperture: 12.63" x 48.63"
(321 x 1235)

CONSTRUCTION

- Die formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Option for (K) drywall flange kit
- High reflectance diffuse white textured powdercoat

OPTICAL

- Anidolic optical structures with linear light extraction elements
- Precision extruded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI \geq 80 and R9 \geq 0, all with color accurate binning \leq 2 SDCM

ELECTRICAL

- Integral high efficiency drivers 120 - 277 V or 347 V; 50 - 60 Hz
- Power Factor $>$ 0.90
- Total Harmonic Distortion $<$ 20%
- F2:0 - 10 V Dim Range: 3 - 100%
- Optional Battery Pack
- Optional Lutron: Hi-lume H-Series EcoSystem LED drivers for 100 - 1% (PWM) dim range
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

WEIGHT

- Maximum 18 lb (8.0 kg)
- Maximum 21 lb (10 kg) with battery pack

WARRANTY

- 5 year limited warranty on all components and workmanship

ENVIRONMENTAL

- Designed for use in damp or dry indoor environments with room side operating temperatures of 0 - 30° C (32 - 86° F)

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED@ 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- DesignLights Consortium®
- Lighting Facts®
- IC Rated

Product	Inbox 1x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy (CRI) (R9) (SDCM)		
Version	NB2-14A40	1x4 LED A Lumens CCT 4000 K	CCT Color Temperature	4000 K	2422	23	105	84	13.9	< 2
Report	FLUXWERX			3500 K	2330	23.2	100	83.9	12.9	< 2
				3000K	2207	22.7	97	83	8.5	< 2

100% Dn

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	90°
0°	485	485	485	485	485
5°	487	485	482	482	482
15°	473	478	572	644	670
25°	445	523	682	763	786
35°	404	552	708	759	769
45°	349	539	660	666	664
55°	284	477	553	516	484
65°	208	391	406	322	306
75°	128	274	216	168	150
85°	47	101	54	46	45
90°	1	2	2	2	2
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	507	N.A.	21	
0-60°	1801	N.A.	74	
0-90°	2422	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	2422	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	1588	3001	3018
55°	1589	3099	2711
65°	1582	3086	2331
75°	1584	2678	1866
85°	1748	1984	1656

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20				50				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10
0	119	119	119	119	116	116	116	116	111	111	106	106	102	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1	108	102	98	93	105	100	92	96	89	92	86	88	84	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
2	97	88	81	74	94	86	73	82	72	79	70	76	68	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
3	88	76	68	61	85	75	60	72	59	69	58	66	57	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
4	80	67	57	50	77	66	50	63	49	61	48	58	48	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
6	67	53	43	36	65	52	36	50	36	48	36	47	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
7	62	47	38	32	60	47	32	45	31	44	31	42	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
8	57	43	34	28	56	42	28	41	28	40	27	38	27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
9	53	39	31	25	52	39	25	37	24	36	24	35	24	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
10	50	36	28	22	48	35	22	34	22	33	22	32	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Integrating Sphere and Photometric results at 4000K , 47W (D) by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 47W (D) and 2x2-4sided integrated sphere results for Lumen outputs A, B, C. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	Inbox 1x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy (CRI) (R9) (SDCM)		
Version	NB2-14B40	1x4 LED B Lumens CCT 4000 K	CCT Color Temperature	4000 K	2961	28.5	104	84	13.9	< 2
Report	FLUXWERX			3500 K	2849	28.8	99	83.9	12.9	< 2
				3000K	2699	28.2	96	83	8.5	< 2

100% Dn

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	90°
0°	593	593	593	593	593
5°	595	593	589	590	590
15°	578	584	699	788	819
25°	544	639	834	933	961
35°	494	675	866	928	940
45°	427	658	807	814	812
55°	347	584	676	631	591
65°	254	478	496	394	375
75°	156	335	264	206	184
85°	58	124	66	57	55
90°	2	2	2	3	3
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	620	N.A.	21	
0-60°	2202	N.A.	74	
0-90°	2961	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	2961	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	1941	3669	3690
55°	1943	3789	3315
65°	1934	3774	2850
75°	1936	3274	2280
85°	2139	2427	2025

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20				50				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10
0	119	119	119	119	116	116	116	116	111	111	106	106	102	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1	108	102	98	93	105	100	92	96	89	92	86	88	84	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
2	97	88	81	74	94	86	73	82	72	79	70	76	68	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66
3	88	76	68	61	85	75	60	72	59	69	58	66	57	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
4	80	67	57	50	77	66	50	63	49	61	48	58	48	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
6	67	53	43	36	65	52	36	50	36	48	36	47	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
7	62	47	38	32	60	47	32	45	31	44	31	42	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
8	57	43	34	28	56	42	28	41	28	40	27	38	27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
9	53	39	31	25	52	39	25	37	24	36	24	35	24	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
10	50	36	28	22	48	35	22	34	22	33	22	32	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Product	Inbox 1x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy (CRI) (R9) (SDCM)		
Version	NB2-14C40	1x4 LED C Lumens CCT 4000 K	CCT Color Temperature	4000 K	3776	37	102	84	13.9	< 2
Report	FLUXWERX			3500 K	3633	37.4	97	83.9	12.9	< 2
				3000K	3441	36.6	94	83	8.5	< 2

100% Dn

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	756	756	756	756	756
5°	759	757	751	752	73
15°	737	745	891	1004	252
25°	694	815	1063	1190	465
35°	630	861	1104	1183	636
45°	544	840	1029	1038	712
55°	442	744	862	805	670
65°	324	609	633	503	478
75°	199	428	336	262	234
85°	74	158	84	72	70
90°	2	3	3	3	3
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	790	N.A.	21	
0-60°	2807	N.A.	74	
0-90°	3776	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	3776	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	2475	4678	4706
55°	2477	4831	4227
65°	2467	4812	3634
75°	2469	4175	2909
85°	2726	3095	2582

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling	80				70				20				30				10				0					
	70	50	30	10	70	50	30	10	50	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100												
1	108	102	98	93	105	100	92	96	89	92	86	88	84	81												
2	97	88	81	74	94	86	73	82	72	79	70	76	68	66												
3	88	76	68	61	85	75	60	72	59	69	58	66	57	54												
4	80	67	57	50	77	66	50	63	49	61	48	58	48	45												
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39												
6	67	53	43	36	65	52	36	50	36	48	36	47	35	33												
7	62	47	38	32	60	47	32	45	31	44	31	42	31	29												
8	57	43	34	28	56	42	28	41	28	40	27	38	27	25												
9	53	39	31	25	52	39	25	37	24	36	24	35	24	22												
10	50	36	28	22	48	35	22	34	22	33	22	32	22	20												

Integrating Sphere and Photometric results at 4000K . 47W (D) by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 47W (D) and 2x2-4sided integrated sphere results for Lumen outputs A, B, C. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	Inbox 1x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy (CRI) (R9) (SDCM)		
Version	NB2-14D40	1x4 LED D Lumens CCT 4000 K	CCT Color Temperature	4000 K	4579	46.46	98.7	84	13.9	< 2
Report	1189571			3500 K	4406	47	93.7	83.9	12.9	< 2
				3000K	4173	45.9	90.9	83	8.5	< 2

100% Dn

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	917	917	917	917	917
5°	920	917	911	912	89
15°	894	904	1081	1218	306
25°	842	988	1289	1443	564
35°	764	1044	1339	1435	771
45°	660	1018	1248	1259	863
55°	536	902	1045	976	914
65°	393	739	767	609	579
75°	241	518	408	318	284
85°	90	191	102	87	85
90°	2	4	4	4	4
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	959	N.A.	21	
0-60°	3405	N.A.	74	
0-90°	4579	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	4579	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	3002	5673	5706
55°	3004	5859	5125
65°	2992	5835	4407
75°	2995	5063	3528
85°	3309	3751	3132

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling	80				70				20				30				10				0			
	70	50	30	10	70	50	30	10	50	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100										
1	108	102	98	93	105	100	92	96	89	92	86	88	84	81										
2	97	88	81	74	94	86	73	82	72	79	70	76	68	66										
3	88	76	68	61	85	75	60	72	59	69	58	66	57	54										
4	80	67	57	50	77	66	50	63	49	61	48	58	48	45										
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39										
6	67	53	43	36	65	52	36	50	36	48	36	47	35	33										
7	62	47	38	32	60	47	32	45	31	44	31	42	31	29										
8	57	43	34	28	56	42	28	41	28	40	27	38	27	25										
9	53	39	31	25	52	39	25	37	24	36	24	35	24	22										
10	50	36	28	22	48	35	22	34	22	33	22	32	22	20										

