



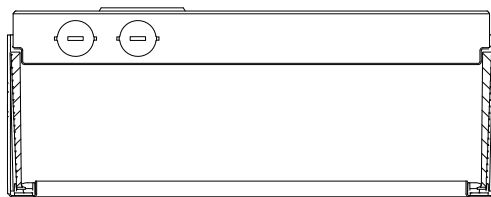
INBOX 1 X 1 NB1-11

Specification Data

Luminaire	INBOX 1 X 1 (NB1-11)	Type
Project		
Product		
Notes		



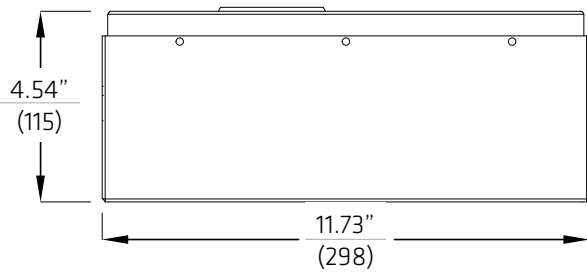
CROSS SECTION



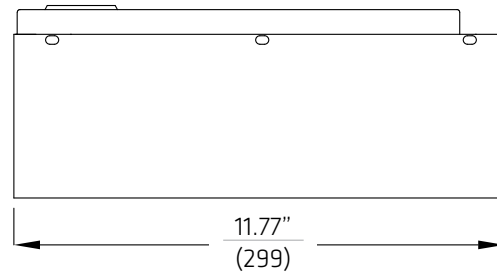
Performance Summary	Inbox 1 x 1 (4-Sided Optics)		
	A	B	C
Light (lm)	1800	2150	2600
Energy (W)	17	22	27
Efficacy (lm/W)	103	97	95
Color Rendering (CRI)	80+	80+	80+
Color Accuracy (SDCM)	< 2	< 2	< 2
L70 Estimate (h)	200,000	200,000	200,000
Lumen Maintenance per TM21 (@ 60,000 h)	L90	L90	L90

Summary values are nominal and based on 4000K CCT

DIMENSIONS inches
mm



FRONT VIEW



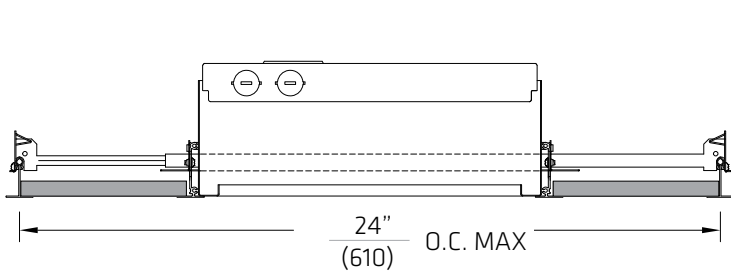
SIDE VIEW

SPECIFICATION

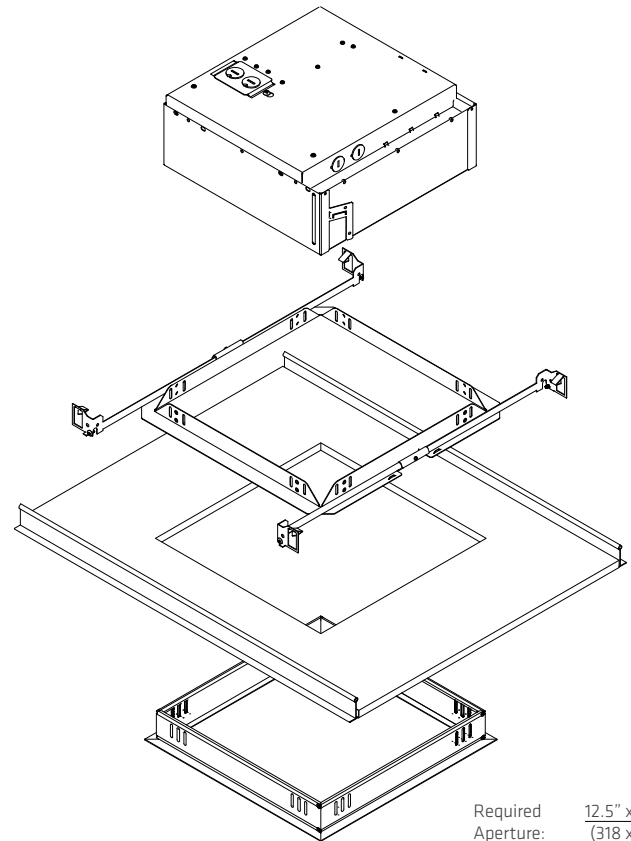
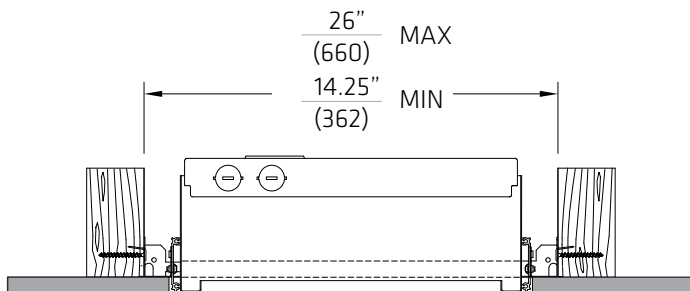
NB1	11							
1	2	3	4	5	6	OPTIONS		

1. FAMILY	2. SIZE	3. ENERGY ¹	4. CCT	5. DRIVER	6. VOLTAGE	OPTIONS
NB1 Inbox	11 1 x 1 (4-sided optics)	A 17 W B 22 W C 27 W	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 ²	B Battery Pack ³ C Chicago Plenum F 6' Flex Whip
		¹ Nominal Values (For 347V with E1-4/L1, add 3W to above)			² 347V Driver for F1/F2 347V Transformer + Driver for E1-4/L1	³ Available for 120-277V

CEILING INTEGRATION GRID



CEILING INTEGRATION DRYWALL



Required Aperture: 12.5" x 12.5"
(318 x 318)

CONSTRUCTION

- Die formed 22 ga. cold rolled steel housing
- Quick wire access plate
- Flange kit supplied
- 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 3000K, 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 9 lb. (4.1 kg)
- Maximum 13 lb. (5.9 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
- Lighting Facts®
- IC Rated

Product	Inbox 1x1	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	NB1-11A40	1x1 LED A lumens CCT 4000 K	CCT Color Temperature	4000 K	1796	17.5	102.8	83	9.2	< 2
Report	11540236.12			3500 K	1740	17.4	100	83	7	< 2
				3000K	1684	17.4	96.5	82	3.8	< 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	90°
0°	354	354	354	354	354
5°	355	354	353	354	355
15°	427	421	433	416	423
25°	457	479	505	483	458
35°	436	489	524	489	435
45°	375	443	488	441	375
55°	293	373	407	371	290
65°	199	265	302	263	196
75°	109	160	167	155	106
85°	37	47	39	42	33
90°	0	0	0	0	0
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

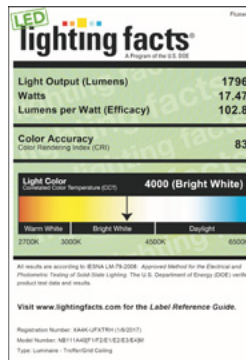
Zone	Lumens	% Lamp	% Fixture
0-30°	378	N.A.	21
0-60°	1338	N.A.	75
0-90°	1796	N.A.	100
90-180°	0	N.A.	0
Total Luminaire	1796	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	7455	9692	7441
55°	7163	9969	7099
65°	6620	10034	6517
75°	5932	9041	5725
85°	6027	6301	5270


CO-EFFICIENTS OF UTILIZATION

Floor Ceiling	80				70				20				30				10				0																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
0	119	119	119	119	116	116	116	111	111	111	111	106	106	106	102	102	100																				
1	108	102	98	94	105	100	92	96	89	92	86	88	84	82																							
2	97	88	81	75	94	86	74	83	72	79	70	76	69	66																							
3	88	76	68	61	85	75	60	72	59	69	58	66	57	55																							
4	80	67	58	50	77	66	50	63	49	61	49	58	48	46																							
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39																							
6	67	53	43	37	65	52	36	50	36	48	36	47	35	33																							
7	62	48	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	25	36	24	35	24	22																							
10	50	36	28	22	48	35	22	34	22	33	22	33	22	20																							



Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3500K scaled based on LED manufacturers data. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	Inbox 1x1	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	NB1-11B40	1x1 LED B lumens CCT 4000 K	CCT Color Temperature	4000 K	2152	22.2	97.1	83	9.1	< 2
Report	11540236.13			3500 K	2082	22.1	94	83	7	< 2
				3000K	2013	22.1	91	82	3	< 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	90°
0°	424	424	424	424	424
5°	425	424	423	424	425
15°	511	504	519	499	507
25°	548	574	605	579	549
35°	522	585	627	586	521
45°	450	531	585	529	449
55°	350	447	488	444	347
65°	239	317	362	315	235
75°	131	191	200	186	126
85°	45	56	47	50	39
90°					
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

LUMEN SUMMARY

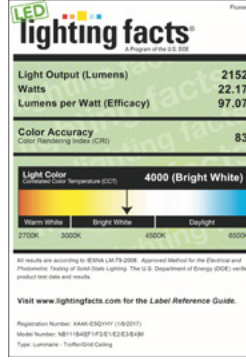
Zone	Lumens	% Lamp	% Fixture
0-30°	453	N.A.	21
0-60°	1604	N.A.	75
0-90°	2152	N.A.	100
90-180°	0	N.A.	0
Total Luminaire	2152	N.A.	100

LUMINANCE DATA (CD/M²)

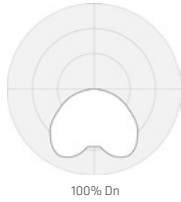
Vertical Angle	0°	45°	90°
45°	8931	11612	8915
55°	8581	11948	8507
65°	7930	12025	7810
75°	7109	10832	6860
85°	7220	7542	6301

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling	80				70				20				30				10				0																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10					
0	119	119	119	119	116	116	116	111	111	111	111	106	106	106	102	102	100																				
1	108	102	98	94	105	100	92	96	89	92	86	88	84	82																							
2	97	88	81	75	94	86	74	83	72	79	70	76	69	66																							
3	88	76	68	61	85	75	60	72	59	69	58	66	57	55																							
4	80	67	58	50	77	66	50	63	49	61	49	58	48	46																							
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39																							
6	67	53	43	37	65	52	36	50	36	48	36	47	35	33																							
7	62	48	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	25	36	24	35	24	22																							
10	50	36	28	22	48	35	22	34	22	33	22	33	22	20																							



Product	Inbox 1x1	Description	Performance Summary					Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	NB1-11C40	1x1 LED C lumens CCT 4000 K	CCT Color Temperature	4000 K	2621	27.5	95.4	83	8.8	< 2			
Report	11540236.14			3500 K	2536	27.5	92	83	7.1	< 2			
				3000K	2452	27.4	89.5	82	2.8	< 2			



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	517	517	517	517	517	517
5°	518	517	515	517	518	51
15°	622	614	632	608	617	177
25°	667	699	737	705	669	324
35°	636	713	764	714	635	441
45°	548	646	712	644	547	491
55°	427	545	594	541	423	468
65°	291	387	441	384	286	372
75°	160	233	243	226	154	230
85°	55	68	57	61	48	67
90°						
95°						
100°						
105°						
115°						
125°						
135°						
145°						
155°						
165°						
175°						
180°						

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	552	N.A.	21
0-60°	1953	N.A.	75
0-90°	2621	N.A.	100
90-180°	0	N.A.	0
Total Luminaire	2621	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	10877	14143	10858
55°	10452	14551	10361
65°	9658	14643	9512
75°	8656	13193	8357
85°	8783	9186	7687

LED lighting facts
A Report of the U.S. DOE

Light Output (Lumens) **2621**
Watts **27.48**
Lumens per Watt (Efficacy) **95.38**

Color Accuracy **83**
Color Rendering Index (CRI)

Light Color **4000 (Bright White)**
Temperature (CCT)

2700K 3000K 4000K 5000K

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: KAN088722.A (1/8/2017)
Model Number: NB11C40P-1P2E-60000000
Type: Luminaire - Traffic-Grid Ceiling

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20						
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100	
1	108	102	98	94	105	100	92	96	89	92	86	88	84	82	
2	97	88	81	75	94	86	74	83	72	79	70	76	69	66	
3	88	76	68	61	85	75	60	72	59	69	58	66	57	55	
4	80	67	58	50	77	66	50	63	49	61	49	58	48	46	
5	73	59	50	43	71	58	42	56	42	54	41	52	41	39	
6	67	53	43	37	65	52	36	50	36	48	36	47	35	33	
7	62	48	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	25	36	24	35	24	22	
10	50	36	28	22	48	35	22	34	22	33	22	33	22	20	

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3500K scaled based on LED manufacturers data. Candlepower Distribution scaled per total lumens of Integrating Sphere results.