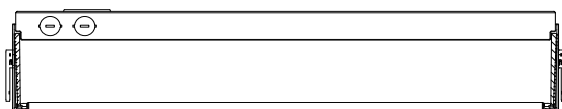




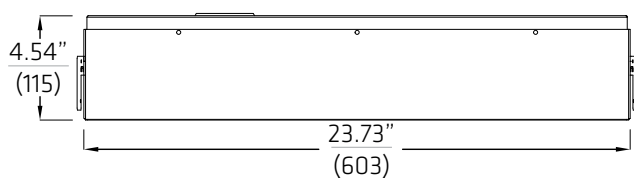
Specification Data



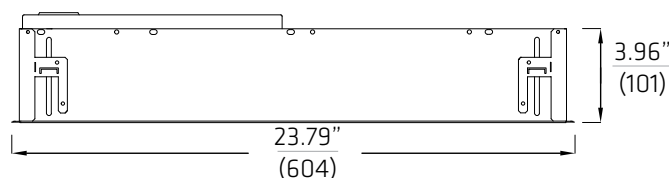
CROSS SECTION



DIMENSIONS inches (mm)



FRONT VIEW



SIDE VIEW

| | | |
|-----------|---------------------------------------|------|
| Luminaire | INBOX 2 X 2 2-Sided Optics (NB2-22) | Type |
| Project | | |
| Product | | |
| Notes | | |



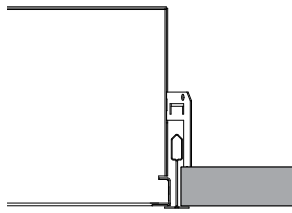
| Performance Summary | Inbox 2 x 2 2 - Sided | | |
|---|-------------------------|---------|---------|
| | A | B | C |
| Light (lm) | 2300 | 2800 | 3500 |
| Energy (W) | 23 | 29 | 38 |
| Efficacy (lm/W) | 97 | 96 | 90 |
| Color Rendering (CRI) | 80+ | 80+ | 80+ |
| Color Accuracy (SDCM) | < 2 | < 2 | < 2 |
| L70 Estimate (h) | 200,000 | 200,000 | 200,000 |
| Lumen Maintenance per TM21 (@ 60,000 h) | L90 | L90 | L90 |

Note: Values are nominal and based on 4000K CCT

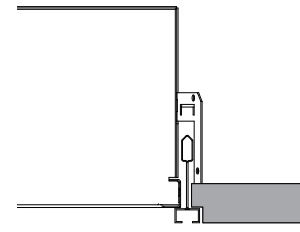
SPECIFICATION

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

CEILING INTEGRATION GRID

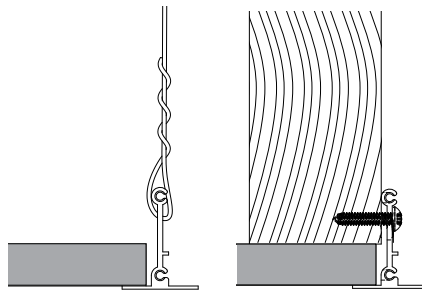


FLAT GRID

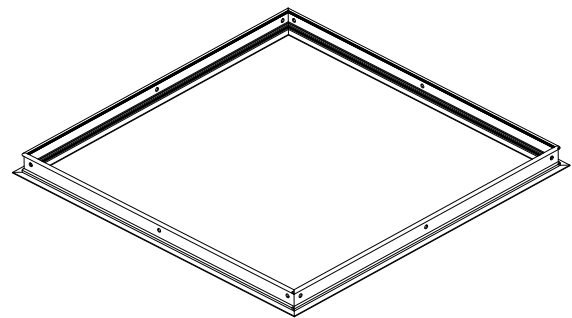


SLOT GRID

CEILING INTEGRATION DRYWALL



DRYWALL FLANGE KIT



Required Aperture: 24.63" x 24.63" (625 x 625)

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 15 lb (6.5 kg)
- Maximum 19 lb (8.6 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 2x2 2-sided | Description | Performance Summary | | Light (lm) | Energy (W) | Efficacy (lm/W) | Color Accuracy | | |
| Version | NB2-22A40 | 2x2 - 2 sided LED A Lumens CCT 4000 K | CCT Color Temperature | 4000 K | 2282 | 23.5 | 97.1 | 82.6 | 8.4 | < 2 |
| Report | 1236985 | | | 3500 K | 2280 | 23.4 | 97 | 83.8 | 12.4 | < 2 |
| | | | | 3000K | 2171 | 23.4 | 93 | 82.6 | 7.4 | < 2 |

CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | | Zonal Lumens |
|----------------|------------------|-------|-----|-------|--------------|
| | 0° | 22.5° | 45° | 67.5° | |
| 0° | 508 | 508 | 508 | 508 | 508 |
| 5° | 505 | 505 | 507 | 508 | 510 |
| 15° | 491 | 502 | 589 | 649 | 669 |
| 25° | 460 | 534 | 665 | 725 | 739 |
| 35° | 417 | 543 | 659 | 698 | 707 |
| 45° | 360 | 504 | 594 | 601 | 597 |
| 55° | 292 | 429 | 483 | 463 | 446 |
| 65° | 215 | 342 | 356 | 304 | 303 |
| 75° | 134 | 222 | 197 | 194 | 203 |
| 85° | 43 | 65 | 62 | 54 | 53 |
| 90° | | | | | |
| 95° | | | | | |
| 105° | | | | | |
| 115° | | | | | |
| 125° | | | | | |
| 135° | | | | | |
| 145° | | | | | |
| 155° | | | | | |
| 165° | | | | | |
| 175° | | | | | |
| 180° | | | | | |

LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixture |
|------------------------|---------------|-------------|-------------|
| 0-30° | 506 | N.A. | 22 |
| 0-60° | 1698 | N.A. | 74 |
| 0-90° | 2282 | N.A. | 100 |
| 90-180° | 0 | N.A. | 0 |
| Total Luminaire | 0-180° | 2282 | N.A. |

LUMINANCE DATA (CD/M²)

| Vertical Angle | Horizontal Angle | | |
|----------------|------------------|------|------|
| | 0° | 45° | 90° |
| 45° | 1530 | 2529 | 2540 |
| 55° | 1531 | 2532 | 2337 |
| 65° | 1530 | 2536 | 2158 |
| 75° | 1554 | 2288 | 2362 |
| 85° | 1491 | 2137 | 1840 |

CO-EFFICIENTS OF UTILIZATION

| Floor Ceiling | 80 | | | | 70 | | | | 20 | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 106 | 106 | 102 |
| 1 | 108 | 102 | 98 | 93 | 105 | 100 | 92 | 96 | 89 | 92 | 86 | 88 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 74 | 83 | 72 | 79 | 70 | 76 |
| 3 | 88 | 77 | 68 | 61 | 85 | 75 | 60 | 72 | 59 | 69 | 58 | 66 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 50 | 63 | 50 | 61 | 49 | 59 |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 43 | 56 | 42 | 54 | 42 | 52 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 37 | 50 | 37 | 49 | 36 | 47 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 32 | 46 | 32 | 44 | 32 | 43 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 28 | 41 | 28 | 40 | 28 | 39 |
| 9 | 54 | 40 | 31 | 25 | 52 | 39 | 25 | 38 | 25 | 37 | 25 | 36 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 23 | 35 | 23 | 34 | 23 | 33 |

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 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 2x2 2-sided | Description | Performance Summary | | Light (lm) | Energy (W) | Efficacy (lm/W) | Color Accuracy | | |
| Version | NB2-22B40 | 2x2 - 2 sided LED B Lumens CCT 4000 K | CCT Color Temperature | 4000 K | 2809 | 29.41 | 95.5 | 82.5 | 8.2 | < 2 |
| Report | 1236986 | | | 3500 K | 2806 | 29.3 | 96 | 83.8 | 12.4 | < 2 |
| | | | | 3000K | 2672 | 29.3 | 91 | 82.6 | 7.4 | < 2 |

CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | | Zonal Lumens |
|----------------|------------------|-------|-----|-------|--------------|
| | 0° | 22.5° | 45° | 67.5° | |
| 0° | 626 | 626 | 626 | 626 | 626 |
| 5° | 622 | 622 | 625 | 625 | 627 |
| 15° | 604 | 618 | 725 | 799 | 824 |
| 25° | 567 | 657 | 819 | 892 | 910 |
| 35° | 513 | 668 | 811 | 860 | 870 |
| 45° | 443 | 620 | 732 | 740 | 735 |
| 55° | 359 | 528 | 594 | 570 | 549 |
| 65° | 265 | 421 | 438 | 374 | 373 |
| 75° | 165 | 274 | 242 | 239 | 250 |
| 85° | 53 | 80 | 76 | 67 | 66 |
| 90° | | | | | |
| 95° | | | | | |
| 105° | | | | | |
| 115° | | | | | |
| 125° | | | | | |
| 135° | | | | | |
| 145° | | | | | |
| 155° | | | | | |
| 165° | | | | | |
| 175° | | | | | |
| 180° | | | | | |

LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixture |
|------------------------|---------------|-------------|-------------|
| 0-30° | 623 | N.A. | 22 |
| 0-60° | 2090 | N.A. | 74 |
| 0-90° | 2809 | N.A. | 100 |
| 90-180° | 0 | N.A. | 0 |
| Total Luminaire | 0-180° | 2809 | N.A. |

LUMINANCE DATA (CD/M²)

| Vertical Angle | Horizontal Angle | | |
|----------------|------------------|------|------|
| | 0° | 45° | 90° |
| 45° | 1884 | 3112 | 3127 |
| 55° | 1884 | 3116 | 2877 |
| 65° | 1884 | 3121 | 2657 |
| 75° | 1913 | 2815 | 2907 |
| 85° | 1833 | 2630 | 2264 |

CO-EFFICIENTS OF UTILIZATION

| Floor Ceiling | 80 | | | | 70 | | | | 20 | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 106 | 106 | 102 |
| 1 | 108 | 102 | 98 | 93 | 105 | 100 | 92 | 96 | 89 | 92 | 86 | 88 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 74 | 83 | 72 | 79 | 70 | 76 |
| 3 | 88 | 77 | 68 | 61 | 85 | 75 | 60 | 72 | 59 | 69 | 58 | 66 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 50 | 63 | 50 | 61 | 49 | 59 |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 43 | 56 | 42 | 54 | 42 | 52 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 37 | 50 | 37 | 49 | 36 | 47 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 32 | 46 | 32 | 44 | 32 | 43 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 28 | 41 | 28 | 40 | 28 | 39 |
| 9 | 54 | 40 | 31 | 25 | 52 | 39 | 25 | 38 | 25 | 37 | 25 | 36 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 23 | 35 | 23 | 34 | 23 | 33 |

| | | | | | | | | | | | | | |
|---------|---------------------|---|-----------------------|--------|------|-------|------|------------|------------|-----------------|----------------|--|--|
| Product | Inbox 2x2 2-sided | Description | Performance Summary | | | | | Light (lm) | Energy (W) | Efficacy (lm/W) | Color Accuracy | | |
| Version | NB2-22C40 | 2x2 - 2 sided LED C Lumens CCT 4000 K | CCT Color Temperature | 4000 K | 3508 | 39.09 | 89.7 | 82.6 | 8.7 | < 2 | | | |
| Report | 1236987 | | | 3500 K | 3504 | 39 | 90 | 83.8 | 12.4 | < 2 | | | |
| | | | | 3000K | 3337 | 38.9 | 86 | 82.6 | 7.4 | < 2 | | | |

100% Dn

CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle | | | | | Zonal Lumens |
|----------------|------------------|-------|------|-------|------|--------------|
| | 0° | 22.5° | 45° | 67.5° | 90° | |
| 0° | 781 | 781 | 781 | 781 | 781 | 781 |
| 5° | 776 | 777 | 780 | 781 | 783 | 76 |
| 15° | 754 | 772 | 905 | 998 | 1029 | 254 |
| 25° | 708 | 821 | 1023 | 1114 | 1136 | 447 |
| 35° | 641 | 834 | 1013 | 1074 | 1086 | 590 |
| 45° | 553 | 775 | 914 | 924 | 918 | 644 |
| 55° | 449 | 660 | 742 | 711 | 685 | 599 |
| 65° | 330 | 526 | 548 | 467 | 466 | 479 |
| 75° | 206 | 342 | 303 | 298 | 312 | 317 |
| 85° | 66 | 100 | 95 | 83 | 82 | 102 |
| 90° | | | | | | |
| 95° | | | | | | |
| 105° | | | | | | |
| 115° | | | | | | |
| 125° | | | | | | |
| 135° | | | | | | |
| 145° | | | | | | |
| 155° | | | | | | |
| 165° | | | | | | |
| 175° | | | | | | |
| 180° | | | | | | |

LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Fixture | |
|------------------------|---------------|-------------|-------------|------------|
| 0-30° | 778 | N.A. | 22 | |
| 0-60° | 2610 | N.A. | 74 | |
| 0-90° | 3508 | N.A. | 100 | |
| 90-180° | 0 | N.A. | 0 | |
| Total Luminaire | 0-180° | 3508 | N.A. | 100 |

LUMINANCE DATA (CD/M²)

| Vertical Angle | Horizontal Angle | | |
|----------------|------------------|------|------|
| | 0° | 45° | 90° |
| 45° | 2352 | 3887 | 3905 |
| 55° | 2353 | 3892 | 3593 |
| 65° | 2352 | 3897 | 3318 |
| 75° | 2390 | 3516 | 3630 |
| 85° | 2292 | 3286 | 2827 |

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 | 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 | 75 | 94 | 86 | 74 | 83 | 72 | 79 | 70 | 76 | 69 | 66 | | | | | | | | | | | | | | |
| 3 | 88 | 77 | 68 | 61 | 85 | 75 | 60 | 72 | 59 | 69 | 58 | 66 | 57 | 55 | | | | | | | | | | | | | | |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 50 | 63 | 50 | 61 | 49 | 59 | 48 | 46 | | | | | | | | | | | | | | |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 43 | 56 | 42 | 54 | 42 | 52 | 41 | 39 | | | | | | | | | | | | | | |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 37 | 50 | 37 | 49 | 36 | 47 | 36 | 34 | | | | | | | | | | | | | | |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 32 | 46 | 32 | 44 | 32 | 43 | 31 | 29 | | | | | | | | | | | | | | |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 28 | 41 | 28 | 40 | 28 | 39 | 28 | 26 | | | | | | | | | | | | | | |
| 9 | 54 | 40 | 31 | 25 | 52 | 39 | 25 | 38 | 25 | 37 | 25 | 36 | 25 | 23 | | | | | | | | | | | | | | |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 23 | 35 | 23 | 34 | 23 | 33 | 22 | 21 | | | | | | | | | | | | | | |

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 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.