



INBOX 1 X 1 NB1-11

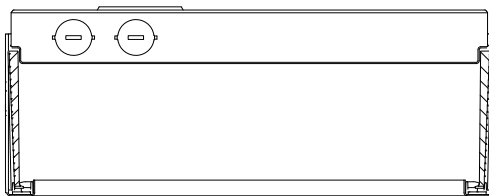
Specification Data



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



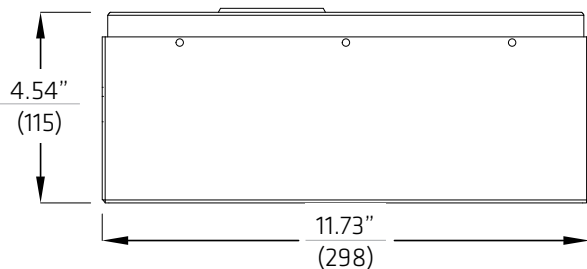
CROSS SECTION



| 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

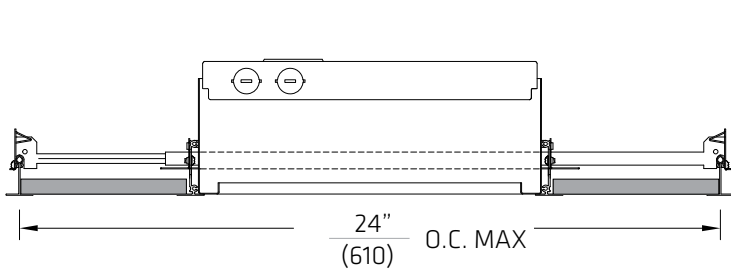
SPECIFICATION

| 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 | |

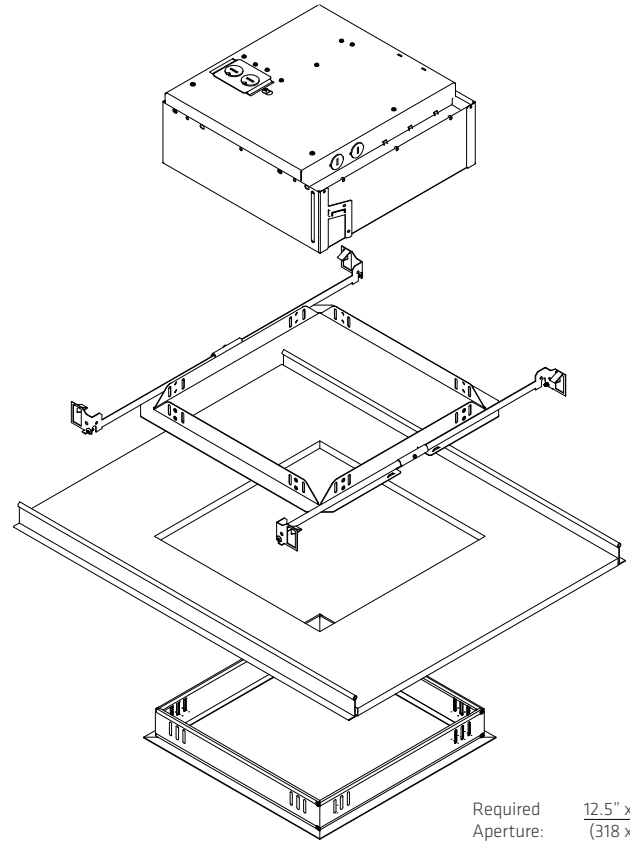
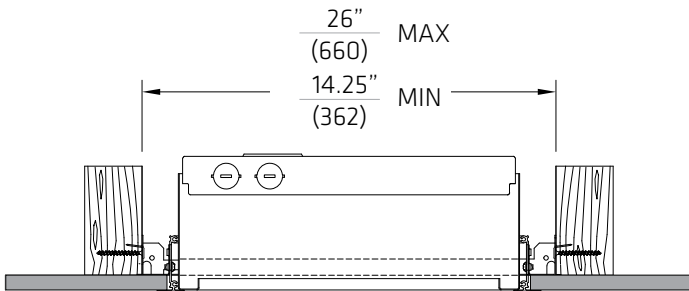
NOTES

| | | |
|--|--|-------------------------------------|
| 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 |
| | | | | 3000 K | 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 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1 | 108 | 102 | 98 | 94 | 105 | 100 | 92 | 96 | 89 | 92 | 86 | 88 | 84 | 82 | 82 | 79 | 76 | 69 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 74 | 83 | 72 | 79 | 70 | 76 | 69 | 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 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| 4 | 80 | 67 | 58 | 50 | 77 | 66 | 50 | 63 | 49 | 61 | 49 | 58 | 48 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 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 | 37 | 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 | 48 | 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 | 25 | 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 | 33 | 22 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 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 |
| | | | | 3000 K | 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 |

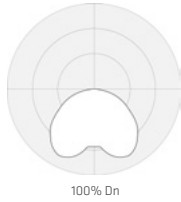
LUMINANCE DATA (CD/M²)

| 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 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1 | 108 | 102 | 98 | 94 | 105 | 100 | 92 | 96 | 89 | 92 | 86 | 88 | 84 | 82 | 82 | 79 | 76 | 69 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 74 | 83 | 72 | 79 | 70 | 76 | 69 | 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 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| 4 | 80 | 67 | 58 | 50 | 77 | 66 | 50 | 63 | 49 | 61 | 49 | 58 | 48 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 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 | 37 | 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 | 48 | 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 | 25 | 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 | 33 | 22 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| | | | | | | | | | | |
|---------|-------------|-----------------------------------|--------------------------|--------|------|------|------|----------------|----------|------------|
| Product | Inbox 1x1 | Description | Performance Summary | | | | | Color Accuracy | | |
| Version | NB1-11C40 | 1x1 LED C lumens CCT 4000 K | CCT Color Temperature | 4000 K | 2621 | 27.5 | 95.4 | (CRI) 83 | (R9) 8.8 | (SDCM) < 2 |
| Report | 11540236.14 | | | 3500 K | 2536 | 27.5 | 92 | 83 | 7.1 | < 2 |
| | | | | 3000 K | 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 |

CO-EFFICIENTS OF UTILIZATION

| Floor Ceiling Wall | 80 | | | | 70 | | | | 20 | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 10 | |
| 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.