

## DESCRIPTION

4 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 6000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. VividTune: Dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space. Tunable white technology - adjust the color temperature from warm white to cool white while independently controlling intensity.

| Catalog #   | Type |
|-------------|------|
| Project     |      |
| Comments    | Date |
| Prepared by |      |

## SPECIFICATION FEATURES

### Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

### Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

### Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outts positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

### Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

### LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI.

**D2W™** – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

**W2N** - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI.

### Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

### Connected Lighting Systems

WaveLinX tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Distributed low voltage power system combines power, lighting, and controls with ease of installation.

### Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

### Warranty

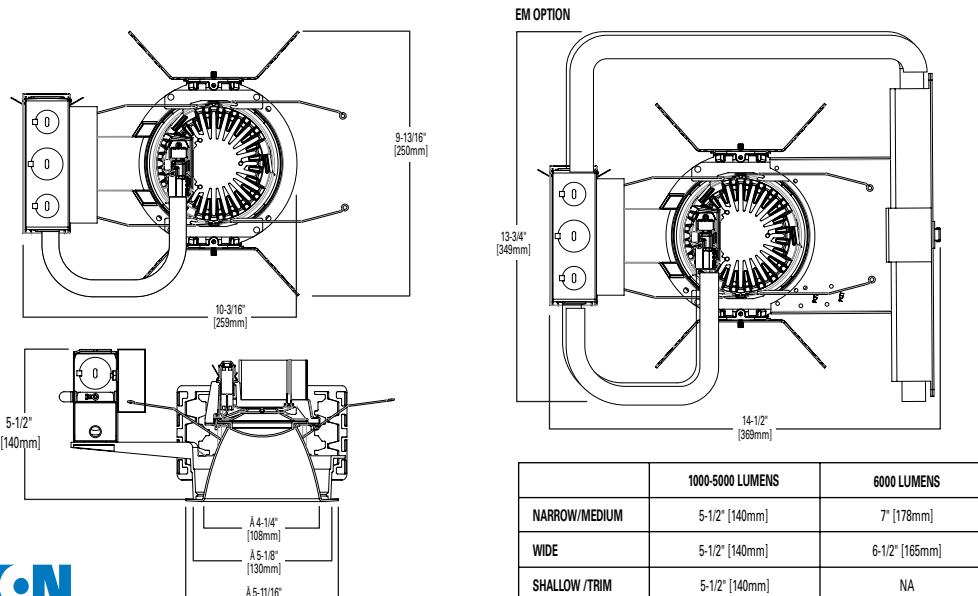
5-year warranty



**LD4B EU4B  
4LBW 4LBM  
4LBN**

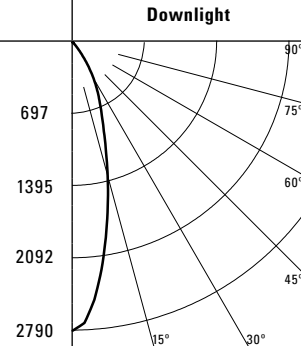
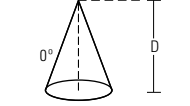
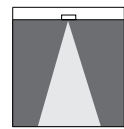
1000-6000 Lumen LED

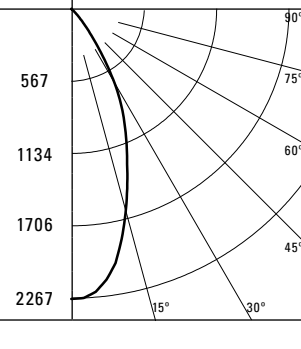
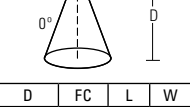
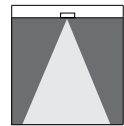
Narrow, Medium, or Wide Beam  
New Construction

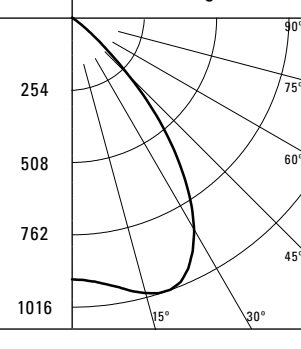
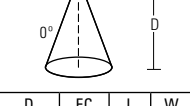
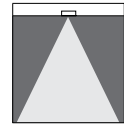


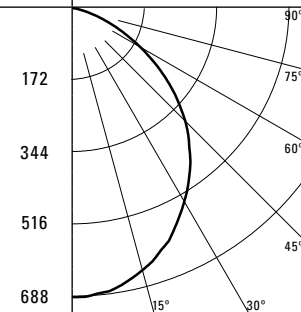
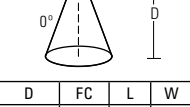
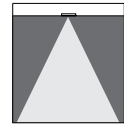


## PHOTOMETRY

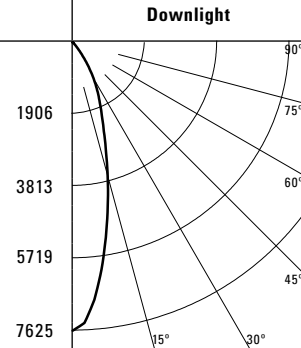
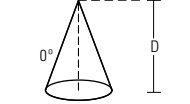
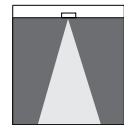
| NARROW (30° BEAM)                                                                 |              | CANDLEPOWER DISTRIBUTION                                                          |  | CONE OF LIGHT                                                                     |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|
| Test Number                                                                       | P201208      |  |  |  |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing                                                                           | LD4B15D010   |                                                                                   |  |                                                                                   |  | 0                | 2790    | 0-30                | 926    | 82.1      | 45                      | 489                  |
| Module                                                                            | EU4B10208035 |                                                                                   |  |                                                                                   |  | 5                | 2550    | 0-40                | 1094   | 97        | 55                      | 55                   |
| Trim                                                                              | 4LBN1LI      |                                                                                   |  |                                                                                   |  | 15               | 1421    | 0-60                | 1127   | 99.9      | 65                      | 26                   |
| Lumens                                                                            | 1128         |                                                                                   |  |                                                                                   |  | 25               | 667     | 0-90                | 1128   | 100       | 75                      | 0                    |
| Efficacy                                                                          | 78.9 Lm/W    |                                                                                   |  |                                                                                   |  | 35               | 266     | 90-180              | 0      | 0         | 85                      | 0                    |
| SC                                                                                | 0.5          |                                                                                   |  |                                                                                   |  | 45               | 32      | 0-180               | 1128   | 100       |                         |                      |
|  |              |                                                                                   |  |                                                                                   |  |                  |         |                     |        |           |                         |                      |

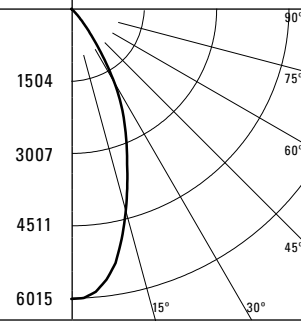
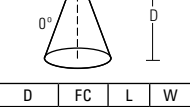
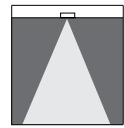
| MEDIUM (50° BEAM)                                                                 |              | CANDLEPOWER DISTRIBUTION                                                          |  | CONE OF LIGHT                                                                     |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|
| Test Number                                                                       | P201206      |  |  |  |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing                                                                           | LD4B15D010   |                                                                                   |  |                                                                                   |  | 0                | 2267    | 0-30                | 1144   | 77.3      | 45                      | 1072                 |
| Module                                                                            | EU4B10208035 |                                                                                   |  |                                                                                   |  | 5                | 2227    | 0-40                | 1406   | 95        | 55                      | 151                  |
| Trim                                                                              | 4LBM1LI      |                                                                                   |  |                                                                                   |  | 15               | 1690    | 0-60                | 1477   | 99.7      | 65                      | 77                   |
| Lumens                                                                            | 1481         |                                                                                   |  |                                                                                   |  | 25               | 1027    | 0-90                | 1481   | 100       | 75                      | 42                   |
| Efficacy                                                                          | 103.6 Lm/W   |                                                                                   |  |                                                                                   |  | 35               | 409     | 90-180              | 0      | 0         | 85                      | 0                    |
| SC                                                                                | 0.71         |                                                                                   |  |                                                                                   |  | 45               | 70      | 0-180               | 1481   | 100       |                         |                      |
|  |              |                                                                                   |  |                                                                                   |  |                  |         |                     |        |           |                         |                      |

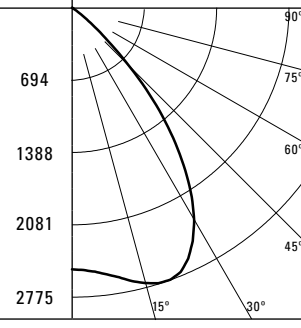
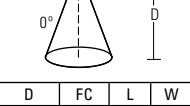
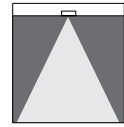
| WIDE (75° BEAM)                                                                     |              | CANDLEPOWER DISTRIBUTION                                                            |  | CONE OF LIGHT                                                                       |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|
| Test Number                                                                         | P201204      |  |  |  |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing                                                                             | LD4B15D010   |                                                                                     |  |                                                                                     |  | 0                | 914     | 0-30                | 816    | 53.8      | 45                      | 4372                 |
| Module                                                                              | EU4B10208035 |                                                                                     |  |                                                                                     |  | 5                | 925     | 0-40                | 1252   | 82.5      | 55                      | 574                  |
| Trim                                                                                | 4LBW1LI      |                                                                                     |  |                                                                                     |  | 15               | 998     | 0-60                | 1513   | 99.7      | 65                      | 100                  |
| Lumens                                                                              | 1518         |                                                                                     |  |                                                                                     |  | 25               | 977     | 0-90                | 1518   | 100       | 75                      | 42                   |
| Efficacy                                                                            | 106.2 Lm/W   |                                                                                     |  |                                                                                     |  | 35               | 707     | 90-180              | 0      | 0         | 85                      | 0                    |
| SC                                                                                  | 1.3          |                                                                                     |  |                                                                                     |  | 45               | 286     | 0-180               | 1518   | 100       |                         |                      |
|  |              |                                                                                     |  |                                                                                     |  |                  |         |                     |        |           |                         |                      |

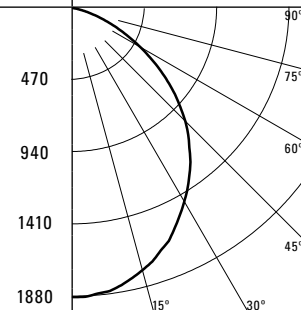
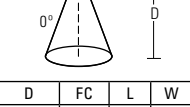
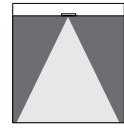
| SHALLOW (75° BEAM)                                                                  |              | CANDLEPOWER DISTRIBUTION                                                            |  | CONE OF LIGHT                                                                       |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|
| Test Number                                                                         | P201210      |  |  |  |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing                                                                             | LD4B15D010   |                                                                                     |  |                                                                                     |  | 0                | 688     | 0-30                | 512    | 34.2      | 45                      | 5827                 |
| Module                                                                              | EU4B10208035 |                                                                                     |  |                                                                                     |  | 5                | 682     | 0-40                | 816    | 54.5      | 55                      | 4771                 |
| Trim                                                                                | 4LBCS1MMS    |                                                                                     |  |                                                                                     |  | 15               | 645     | 0-60                | 1333   | 89        | 65                      | 3226                 |
| Lumens                                                                              | 1497         |                                                                                     |  |                                                                                     |  | 25               | 577     | 0-90                | 1497   | 100       | 75                      | 1339                 |
| Efficacy                                                                            | 104.7 Lm/W   |                                                                                     |  |                                                                                     |  | 35               | 486     | 90-180              | 0      | 0         | 85                      | 124                  |
| SC                                                                                  | 1.16         |                                                                                     |  |                                                                                     |  | 45               | 380     | 0-180               | 1497   | 100       |                         |                      |
|  |              |                                                                                     |  |                                                                                     |  |                  |         |                     |        |           |                         |                      |

## PHOTOMETRY

| NARROW (25° BEAM)                                                                 |              | CANDLEPOWER DISTRIBUTION                                                          |     | CONE OF LIGHT                                                                                                                                                                                                                                                                                                                                                                                                      |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|--|--|--|--|--|--|
| Test Number                                                                       | PP201209     |  |     |                                                                                                                                                                                                                                                                                                                                   |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| Housing                                                                           | LD4B40D010   |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 0                | 7625    | 0-30                | 2531   | 82.1      | 45                      | 1337                 |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| Module                                                                            | EU4B30408035 |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 5                | 6969    | 0-40                | 2989   | 97        | 55                      | 149                  |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| Trim                                                                              | 4LBN1LI      |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 15               | 3883    | 0-60                | 3080   | 99.9      | 65                      | 67                   |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| Lumens                                                                            | 3083         |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 25               | 1822    | 0-90                | 3083   | 100       | 75                      | 0                    |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| Efficacy                                                                          | 73.8 Lm/W    |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 35               | 727     | 90-180              | 0      | 0         | 85                      | 0                    |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| SC                                                                                | 0.5          |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 45               | 87      | 0-180               | 3083   | 100       |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
|  |              |                                                                                   |     | <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>252</td><td>2.6</td><td>2.6</td></tr><tr><td>7'</td><td>156</td><td>3.4</td><td>3.4</td></tr><tr><td>8'</td><td>119</td><td>3.8</td><td>3.8</td></tr><tr><td>9'</td><td>94</td><td>4.4</td><td>4.4</td></tr><tr><td>10'</td><td>76</td><td>4.8</td><td>4.8</td></tr><tr><td>12'</td><td>53</td><td>5.8</td><td>5.8</td></tr></table> |  | D                | FC      | L                   | W      | 5.5'      | 252                     | 2.6                  | 2.6 | 7' | 156 | 3.4 | 3.4 | 8' | 119 | 3.8 | 3.8 | 9' | 94 | 4.4 | 4.4 | 10' | 76 | 4.8 | 4.8 | 12' | 53 | 5.8 | 5.8 |  |  |  |  |  |  |
| D                                                                                 | FC           | L                                                                                 | W   |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 5.5'                                                                              | 252          | 2.6                                                                               | 2.6 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 7'                                                                                | 156          | 3.4                                                                               | 3.4 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 8'                                                                                | 119          | 3.8                                                                               | 3.8 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 9'                                                                                | 94           | 4.4                                                                               | 4.4 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 10'                                                                               | 76           | 4.8                                                                               | 4.8 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
| 12'                                                                               | 53           | 5.8                                                                               | 5.8 |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |
|                                                                                   |              |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                  |         |                     |        |           |                         |                      |     |    |     |     |     |    |     |     |     |    |    |     |     |     |    |     |     |     |    |     |     |  |  |  |  |  |  |

| MEDIUM (50° BEAM)                                                                 |              | CANDLEPOWER DISTRIBUTION                                                          |     | CONE OF LIGHT                                                                                                                                                                                                                                                                                                                                                                                             |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|-----|----|-----|---|---|----|----|-----|-----|----|----|-----|-----|-----|----|---|---|-----|----|-----|-----|--|--|--|--|--|--|
| Test Number                                                                       | P201207      |  |     |                                                                                                                                                                                                                                                                                                                          |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| Housing                                                                           | LD4B40D010   |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 0                | 6015    | 0-30                | 3036   | 77.3      | 45                      | 2844                 |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| Module                                                                            | EU4B30408035 |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 5                | 5909    | 0-40                | 3731   | 95        | 55                      | 400                  |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| Trim                                                                              | 4LBM1LI      |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 15               | 4484    | 0-60                | 3918   | 99.7      | 65                      | 205                  |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| Lumens                                                                            | 3929         |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 25               | 2725    | 0-90                | 3929   | 100       | 75                      | 113                  |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| Efficacy                                                                          | 94 Lm/W      |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 35               | 1085    | 90-180              | 0      | 0         | 85                      | 0                    |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| SC                                                                                | 0.71         |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  | 45               | 186     | 0-180               | 3929   | 100       |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
|  |              |                                                                                   |     | <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>199</td><td>3.8</td><td>3.8</td></tr><tr><td>7'</td><td>123</td><td>5</td><td>5</td></tr><tr><td>8'</td><td>94</td><td>5.6</td><td>5.6</td></tr><tr><td>9'</td><td>74</td><td>6.4</td><td>6.4</td></tr><tr><td>10'</td><td>60</td><td>7</td><td>7</td></tr><tr><td>12'</td><td>42</td><td>8.4</td><td>8.4</td></tr></table> |  | D                | FC      | L                   | W      | 5.5'      | 199                     | 3.8                  | 3.8 | 7' | 123 | 5 | 5 | 8' | 94 | 5.6 | 5.6 | 9' | 74 | 6.4 | 6.4 | 10' | 60 | 7 | 7 | 12' | 42 | 8.4 | 8.4 |  |  |  |  |  |  |
| D                                                                                 | FC           | L                                                                                 | W   |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 5.5'                                                                              | 199          | 3.8                                                                               | 3.8 |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 7'                                                                                | 123          | 5                                                                                 | 5   |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 8'                                                                                | 94           | 5.6                                                                               | 5.6 |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 9'                                                                                | 74           | 6.4                                                                               | 6.4 |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 10'                                                                               | 60           | 7                                                                                 | 7   |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
| 12'                                                                               | 42           | 8.4                                                                               | 8.4 |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |
|                                                                                   |              |                                                                                   |     |                                                                                                                                                                                                                                                                                                                                                                                                           |  |                  |         |                     |        |           |                         |                      |     |    |     |   |   |    |    |     |     |    |    |     |     |     |    |   |   |     |    |     |     |  |  |  |  |  |  |

| WIDE (75° BEAM)                                                                     |              | CANDLEPOWER DISTRIBUTION                                                            |      | CONE OF LIGHT                                                                                                                                                                                                                                                                                                                                                                                               |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|---|----|----|---|---|----|----|------|------|----|----|------|------|-----|----|----|----|-----|----|------|------|--|--|--|--|--|--|
| Test Number                                                                         | P201205      |  |      |                                                                                                                                                                                                                                                                                                                          |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| Housing                                                                             | LD4B40D010   |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 0                | 2499    | 0-30                | 2230   | 53.8      | 45                      | 11948                |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| Module                                                                              | EU4B30408035 |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 5                | 2528    | 0-40                | 3421   | 82.5      | 55                      | 1569                 |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| Trim                                                                                | 4LBW1LI      |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 15               | 2727    | 0-60                | 4134   | 99.7      | 65                      | 274                  |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| Lumens                                                                              | 4148         |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 25               | 2670    | 0-90                | 4148   | 100       | 75                      | 113                  |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| Efficacy                                                                            | 99.2 Lm/W    |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 35               | 1933    | 90-180              | 0      | 0         | 85                      | 0                    |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| SC                                                                                  | 1.3          |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  | 45               | 780     | 0-180               | 4148   | 100       |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
|  |              |                                                                                     |      | <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>83</td><td>7</td><td>7</td></tr><tr><td>7'</td><td>51</td><td>9</td><td>9</td></tr><tr><td>8'</td><td>39</td><td>10.4</td><td>10.4</td></tr><tr><td>9'</td><td>31</td><td>11.6</td><td>11.6</td></tr><tr><td>10'</td><td>25</td><td>13</td><td>13</td></tr><tr><td>12'</td><td>17</td><td>15.6</td><td>15.6</td></tr></table> |  | D                | FC      | L                   | W      | 5.5'      | 83                      | 7                    | 7 | 7' | 51 | 9 | 9 | 8' | 39 | 10.4 | 10.4 | 9' | 31 | 11.6 | 11.6 | 10' | 25 | 13 | 13 | 12' | 17 | 15.6 | 15.6 |  |  |  |  |  |  |
| D                                                                                   | FC           | L                                                                                   | W    |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 5.5'                                                                                | 83           | 7                                                                                   | 7    |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 7'                                                                                  | 51           | 9                                                                                   | 9    |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 8'                                                                                  | 39           | 10.4                                                                                | 10.4 |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 9'                                                                                  | 31           | 11.6                                                                                | 11.6 |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 10'                                                                                 | 25           | 13                                                                                  | 13   |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
| 12'                                                                                 | 17           | 15.6                                                                                | 15.6 |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |
|                                                                                     |              |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                             |  |                  |         |                     |        |           |                         |                      |   |    |    |   |   |    |    |      |      |    |    |      |      |     |    |    |    |     |    |      |      |  |  |  |  |  |  |

| SHALLOW (75° BEAM)                                                                  |              | CANDLEPOWER DISTRIBUTION                                                            |      | CONE OF LIGHT                                                                                                                                                                                                                                                                                                                                                                                                     |  | CANDELA TABLE    |         | ZONAL LUMEN SUMMARY |        |           | LUMINANCE               |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|-----|----|----|---|---|----|----|-----|-----|----|----|------|------|-----|----|------|------|-----|----|------|------|--|--|--|--|--|--|
| Test Number                                                                         | P201211      |  |      |                                                                                                                                                                                                                                                                                                                                |  | Degrees Vertical | Candela | Zone                | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| Housing                                                                             | LD4B40D010   |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 0                | 1880    | 0-30                | 1400   | 34.2      | 45                      | 15933                |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| Module                                                                              | EU4B30508035 |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 5                | 1864    | 0-40                | 2230   | 54.5      | 55                      | 13046                |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| Trim                                                                                | 4LBCS1MMS    |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 15               | 1763    | 0-60                | 3645   | 89        | 65                      | 8819                 |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| Lumens                                                                              | 4093         |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 25               | 1578    | 0-90                | 4093   | 100       | 75                      | 3657                 |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| Efficacy                                                                            | 97.9 Lm/W    |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 35               | 1329    | 90-180              | 0      | 0         | 85                      | 323                  |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| SC                                                                                  | 1.16         |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 45               | 1040    | 0-180               | 4093   | 100       |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
|  |              |                                                                                     |      | <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>62</td><td>6.2</td><td>6.2</td></tr><tr><td>7'</td><td>38</td><td>8</td><td>8</td></tr><tr><td>8'</td><td>29</td><td>9.2</td><td>9.2</td></tr><tr><td>9'</td><td>23</td><td>10.4</td><td>10.4</td></tr><tr><td>10'</td><td>19</td><td>11.6</td><td>11.6</td></tr><tr><td>12'</td><td>13</td><td>13.8</td><td>13.8</td></tr></table> |  | D                | FC      | L                   | W      | 5.5'      | 62                      | 6.2                  | 6.2 | 7' | 38 | 8 | 8 | 8' | 29 | 9.2 | 9.2 | 9' | 23 | 10.4 | 10.4 | 10' | 19 | 11.6 | 11.6 | 12' | 13 | 13.8 | 13.8 |  |  |  |  |  |  |
| D                                                                                   | FC           | L                                                                                   | W    |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 5.5'                                                                                | 62           | 6.2                                                                                 | 6.2  |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 7'                                                                                  | 38           | 8                                                                                   | 8    |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 8'                                                                                  | 29           | 9.2                                                                                 | 9.2  |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 9'                                                                                  | 23           | 10.4                                                                                | 10.4 |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 10'                                                                                 | 19           | 11.6                                                                                | 11.6 |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
| 12'                                                                                 | 13           | 13.8                                                                                | 13.8 |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |
|                                                                                     |              |                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                  |         |                     |        |           |                         |                      |     |    |    |   |   |    |    |     |     |    |    |      |      |     |    |      |      |     |    |      |      |  |  |  |  |  |  |