

## Report of Test

**LLIA002278-001-R02\***

Indoor Distribution Photometry Test Report

Catalog Number: MLD2-BW-M-48-750-35K-1%

Pendant mounted, extruded aluminum housing with steel endcaps, formed white painted aluminum reflector, translucent frosted linear prismatic plastic lens.

112 white LEDs, two Advance FO Strip PR 23.7in 2200lm 835 LV5 LED boards with 56 LEDs each

One Advance XI040C110V054BST2 LED driver measured at 603mA



Prepared For:

Mercury Lighting Products Company, Inc.

20 Audrey Place

Fairfield, NJ 07004, USA

### Performance Summary

|               |           |                |                  |
|---------------|-----------|----------------|------------------|
| Input Voltage | 120.0 Vac | Luminous Flux  | 3017.6 Lumens    |
| Input Current | 0.2296 A  | Total Efficacy | 110.7 lm/W       |
| Input Power   | 27.26 W   | Downward Flux  | 3017.6 Lumens    |
| Frequency     | 60.00 Hz  | Downward Flux  | 100.0 % of Total |
| Power Factor  | 0.990     |                |                  |
| Current THD   | 7.5 %     |                |                  |

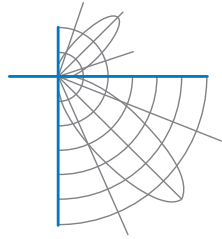
\*This test report supersedes previous versions - see the end of this report for a list of revisions

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 12/08/2023

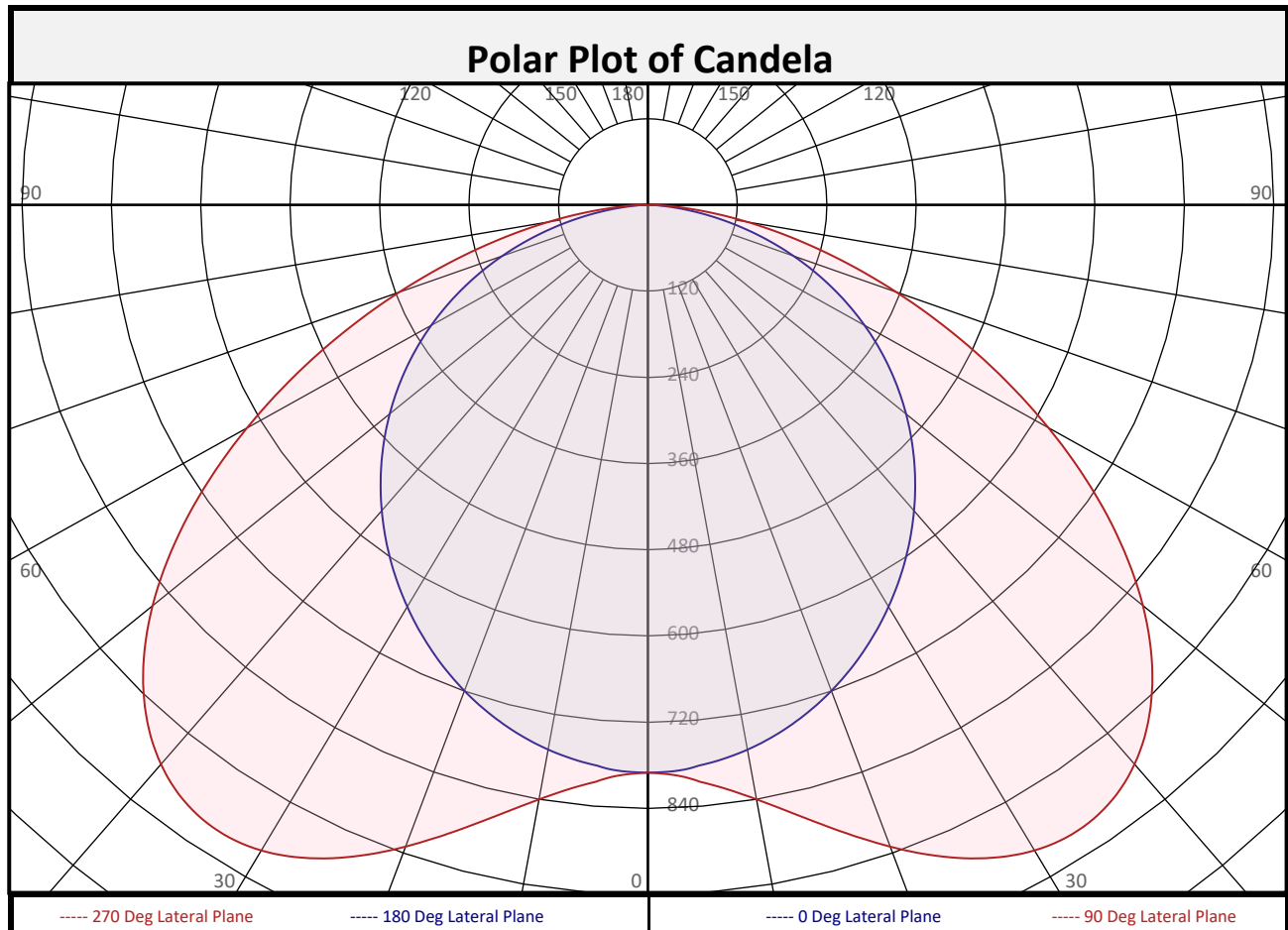
Report date: 11/05/2024

Signed: \_\_\_\_\_

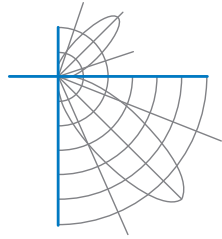


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### LLIA002278-001-R02



| Zonal Flux Summary |                  |                     |  |                    |                  |                     |  |                    |                  |                     |
|--------------------|------------------|---------------------|--|--------------------|------------------|---------------------|--|--------------------|------------------|---------------------|
| Zone<br>(Deg Vert) | Flux<br>(Lumens) | Percent<br>of Total |  | Zone<br>(Deg Vert) | Flux<br>(Lumens) | Percent<br>of Total |  | Zone<br>(Deg Vert) | Flux<br>(Lumens) | Percent<br>of Total |
| 0-10               | 76.1             | 2.5%                |  | 90-100             | 0.0              | 0.0%                |  | 0-20               | 308.6            | 10.2%               |
| 10-20              | 232.5            | 7.7%                |  | 100-110            | 0.0              | 0.0%                |  | 0-30               | 698.4            | 23.1%               |
| 20-30              | 389.8            | 12.9%               |  | 110-120            | 0.0              | 0.0%                |  | 0-40               | 1217             | 40.3%               |
| 30-40              | 518.4            | 17.2%               |  | 120-130            | 0.0              | 0.0%                |  | 0-60               | 2331             | 77.3%               |
| 40-50              | 576.7            | 19.1%               |  | 130-140            | 0.0              | 0.0%                |  | 0-80               | 2962             | 98.2%               |
| 50-60              | 537.6            | 17.8%               |  | 140-150            | 0.0              | 0.0%                |  | 10-90              | 2941             | 97.5%               |
| 60-70              | 406.5            | 13.5%               |  | 150-160            | 0.0              | 0.0%                |  | 20-50              | 1485             | 49.2%               |
| 70-80              | 224.6            | 7.4%                |  | 160-170            | 0.0              | 0.0%                |  | 40-90              | 1801             | 59.7%               |
| 80-90              | 55.4             | 1.8%                |  | 170-180            | 0.0              | 0.0%                |  | 60-90              | 686.5            | 22.7%               |
| 0-90               | 3018             | 100.0%              |  | 90-180             | 0.0              | 0.0%                |  | 0-180              | 3018             | 100.0%              |



## Report of Test

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Luminous Intensity (Candela) Table

| Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown. | Lateral (C-Plane) Angles |     |      |     |      |      |       |     |       |     |
|----------------------------------------------------------------------------------------|--------------------------|-----|------|-----|------|------|-------|-----|-------|-----|
|                                                                                        |                          | 0   | 22.5 | 45  | 67.5 | 90   | 112.5 | 135 | 157.5 | 180 |
|                                                                                        | 0                        | 790 | 790  | 790 | 790  | 790  | 790   | 790 | 790   | 790 |
|                                                                                        | 2.5                      | 789 | 789  | 791 | 793  | 794  | 793   | 791 | 789   | 789 |
|                                                                                        | 5                        | 783 | 785  | 793 | 802  | 806  | 802   | 793 | 785   | 783 |
|                                                                                        | 7.5                      | 778 | 782  | 797 | 814  | 821  | 814   | 797 | 782   | 778 |
|                                                                                        | 10                       | 770 | 778  | 803 | 829  | 840  | 829   | 803 | 778   | 770 |
|                                                                                        | 12.5                     | 760 | 773  | 810 | 848  | 864  | 848   | 810 | 773   | 760 |
|                                                                                        | 15                       | 748 | 767  | 817 | 870  | 892  | 870   | 817 | 767   | 748 |
|                                                                                        | 17.5                     | 735 | 759  | 825 | 893  | 921  | 893   | 825 | 759   | 735 |
|                                                                                        | 20                       | 720 | 750  | 832 | 917  | 951  | 917   | 832 | 750   | 720 |
|                                                                                        | 22.5                     | 703 | 740  | 838 | 939  | 979  | 939   | 838 | 740   | 703 |
|                                                                                        | 25                       | 685 | 728  | 843 | 959  | 1003 | 959   | 843 | 728   | 685 |
|                                                                                        | 27.5                     | 666 | 714  | 846 | 976  | 1024 | 976   | 846 | 714   | 666 |
|                                                                                        | 30                       | 646 | 698  | 846 | 988  | 1038 | 988   | 846 | 698   | 646 |
|                                                                                        | 32.5                     | 625 | 681  | 843 | 994  | 1044 | 994   | 843 | 681   | 625 |
|                                                                                        | 35                       | 602 | 662  | 837 | 994  | 1043 | 994   | 837 | 662   | 602 |
|                                                                                        | 37.5                     | 579 | 642  | 827 | 987  | 1034 | 987   | 827 | 642   | 579 |
|                                                                                        | 40                       | 555 | 619  | 813 | 973  | 1016 | 973   | 813 | 619   | 555 |
|                                                                                        | 42.5                     | 531 | 595  | 794 | 952  | 991  | 952   | 794 | 595   | 531 |
|                                                                                        | 45                       | 505 | 569  | 771 | 924  | 957  | 924   | 771 | 569   | 505 |
|                                                                                        | 47.5                     | 479 | 542  | 744 | 890  | 916  | 890   | 744 | 542   | 479 |
|                                                                                        | 50                       | 452 | 513  | 713 | 849  | 867  | 849   | 713 | 513   | 452 |
|                                                                                        | 52.5                     | 424 | 482  | 678 | 801  | 812  | 801   | 678 | 482   | 424 |
|                                                                                        | 55                       | 396 | 450  | 639 | 749  | 752  | 749   | 639 | 450   | 396 |
|                                                                                        | 57.5                     | 366 | 417  | 596 | 691  | 688  | 691   | 596 | 417   | 366 |
|                                                                                        | 60                       | 336 | 383  | 551 | 630  | 621  | 630   | 551 | 383   | 336 |
|                                                                                        | 62.5                     | 305 | 348  | 502 | 567  | 553  | 567   | 502 | 348   | 305 |
|                                                                                        | 65                       | 273 | 311  | 452 | 502  | 486  | 502   | 452 | 311   | 273 |
|                                                                                        | 67.5                     | 241 | 274  | 400 | 437  | 419  | 437   | 400 | 274   | 241 |
|                                                                                        | 70                       | 208 | 237  | 347 | 373  | 355  | 373   | 347 | 237   | 208 |
|                                                                                        | 72.5                     | 175 | 200  | 294 | 311  | 294  | 311   | 294 | 200   | 175 |
|                                                                                        | 75                       | 143 | 164  | 242 | 252  | 236  | 252   | 242 | 164   | 143 |
|                                                                                        | 77.5                     | 111 | 128  | 191 | 196  | 183  | 196   | 191 | 128   | 111 |
|                                                                                        | 80                       | 80  | 94   | 142 | 144  | 134  | 144   | 142 | 94    | 80  |
|                                                                                        | 82.5                     | 52  | 63   | 97  | 97   | 89   | 97    | 97  | 63    | 52  |
|                                                                                        | 85                       | 28  | 36   | 57  | 55   | 50   | 55    | 57  | 36    | 28  |
| 87.5                                                                                   | 10                       | 14  | 22   | 20  | 18   | 20   | 22    | 14  | 10    |     |
| 90                                                                                     | 0                        | 0   | 0    | 0   | 0    | 0    | 0     | 0   | 0     |     |
| 16 lateral half-planes of data were acquired, 22.5 degree increments shown.            |                          |     |      |     |      |      |       |     |       |     |

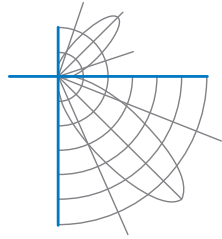
16 lateral half-planes of data were acquired, 22.5 degree increments shown.

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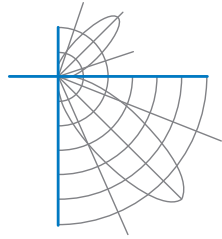


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Luminous Intensity (Candela) Table

| Lateral (C-Plane) Angles                                                               |       |   |      |    |      |    |       |     |       |     |
|----------------------------------------------------------------------------------------|-------|---|------|----|------|----|-------|-----|-------|-----|
| Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown. |       | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 |
|                                                                                        | 90    | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 92.5  | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 95    | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 97.5  | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 100   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 102.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 105   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 107.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 110   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 112.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 115   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 117.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 120   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 122.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 125   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 127.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 130   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 132.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 135   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 137.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 140   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 142.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 145   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 147.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 150   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 152.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 155   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 157.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 160   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 162.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 165   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 167.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 170   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 172.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 175   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 177.5 | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
|                                                                                        | 180   | 0 | 0    | 0  | 0    | 0  | 0     | 0   | 0     | 0   |
| 16 lateral half-planes of data were acquired, 22.5 degree increments shown.            |       |   |      |    |      |    |       |     |       |     |



## Report of Test

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### Coefficients of Utilization/Room Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

| RC  | 80  |     |     |     |  | 70  |     |     |     |  | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RW  | 70  | 50  | 30  | 10  |  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  |  | 106 | 101 | 97  | 93  |  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 89  | 82  | 76  |  | 95  | 88  | 81  | 75  |  | 84  | 78  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 69  | 63  |  | 86  | 76  | 68  | 62  |  | 73  | 67  | 61  |  | 70  | 65  | 60  |  | 68  | 63  | 59  | 57  |
| 4   | 81  | 69  | 59  | 52  |  | 79  | 67  | 59  | 52  |  | 65  | 57  | 51  |  | 62  | 56  | 51  |  | 60  | 54  | 50  | 48  |
| 5   | 74  | 61  | 51  | 45  |  | 72  | 60  | 51  | 44  |  | 58  | 50  | 44  |  | 55  | 49  | 43  |  | 54  | 48  | 43  | 41  |
| 6   | 68  | 54  | 45  | 38  |  | 66  | 53  | 45  | 38  |  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 7   | 63  | 49  | 40  | 34  |  | 61  | 48  | 40  | 33  |  | 47  | 39  | 33  |  | 45  | 38  | 33  |  | 44  | 37  | 33  | 31  |
| 8   | 59  | 45  | 36  | 30  |  | 57  | 44  | 35  | 30  |  | 42  | 35  | 29  |  | 41  | 34  | 29  |  | 40  | 34  | 29  | 27  |
| 9   | 55  | 41  | 32  | 26  |  | 53  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 38  | 31  | 26  |  | 37  | 30  | 26  | 24  |
| 10  | 51  | 37  | 29  | 24  |  | 50  | 37  | 29  | 24  |  | 36  | 29  | 24  |  | 35  | 28  | 23  |  | 34  | 28  | 23  | 22  |

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

### Circle of Light Plot

| Height(ft) | Illuminance<br>at Nadir (fc) | Ground-level distance to<br>half-of-nadir illuminance (ft) |            |
|------------|------------------------------|------------------------------------------------------------|------------|
|            |                              | 0-180 deg                                                  | 90-270 deg |
| 6.0        | 22.0                         | 7.31                                                       | 11.03      |
| 8.0        | 12.3                         | 9.75                                                       | 14.70      |
| 10.0       | 7.9                          | 12.18                                                      | 18.38      |
| 12.0       | 5.5                          | 14.62                                                      | 22.05      |
| 14.0       | 4.0                          | 17.06                                                      | 25.73      |
| 16.0       | 3.1                          | 19.49                                                      | 29.41      |

### Spacing Criterion

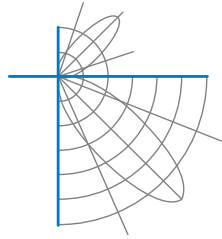
|          |     |
|----------|-----|
| 0 deg:   | 1.2 |
| 90 deg:  | 1.8 |
| 180 deg: | 1.2 |
| 270 deg: | 1.8 |

### Average Luminance (cd/m<sup>2</sup>)

|    | 0 deg Plane | 45 deg Plane | 90 deg Plane |
|----|-------------|--------------|--------------|
| 0  | 15704       | 15704        | 15704        |
| 45 | 14204       | 21676        | 26897        |
| 55 | 13707       | 22126        | 26065        |
| 65 | 12834       | 21265        | 22829        |
| 75 | 10952       | 18544        | 18125        |
| 85 | 6410        | 12906        | 11306        |

### Beam and Field Angle

|                     |        |
|---------------------|--------|
| 0-180 Degree Plane  |        |
| Beam Angle:         | 86.7°  |
| Field Angle:        | 156.0° |
| 90-270 Degree Plane |        |
| Beam Angle:         | 127.3° |
| Field Angle:        | 163.2° |



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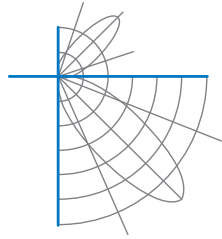
#### UGR Table - Corrected

##### Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls          | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity   | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

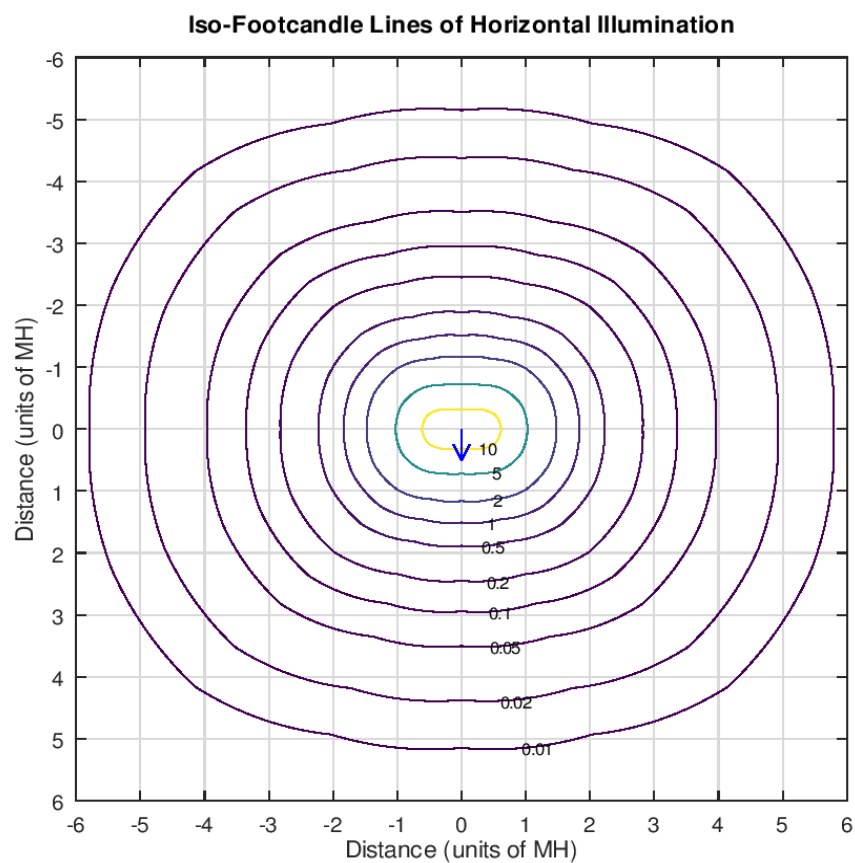
| Room Size |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 20.8                 | 22.5 | 21.1 | 22.8 | 23.1 | 24.4               | 26.1 | 24.8 | 26.5 | 26.8 |
|           | 3H   | 22.5                 | 24.0 | 22.9 | 24.4 | 24.7 | 26.1               | 27.6 | 26.5 | 28.0 | 28.3 |
|           | 4H   | 23.1                 | 24.6 | 23.5 | 24.9 | 25.3 | 26.7               | 28.1 | 27.1 | 28.4 | 28.8 |
|           | 6H   | 23.5                 | 24.9 | 23.9 | 25.2 | 25.6 | 27.0               | 28.4 | 27.4 | 28.7 | 29.1 |
|           | 8H   | 23.6                 | 24.9 | 24.0 | 25.3 | 25.7 | 27.1               | 28.4 | 27.6 | 28.8 | 29.2 |
|           | 12H  | 23.7                 | 24.9 | 24.1 | 25.3 | 25.7 | 27.2               | 28.4 | 27.6 | 28.8 | 29.2 |
| 4H        | 2H   | 22.2                 | 23.7 | 22.6 | 24.0 | 24.4 | 24.9               | 26.4 | 25.3 | 26.7 | 27.1 |
|           | 3H   | 24.1                 | 25.3 | 24.5 | 25.7 | 26.1 | 26.8               | 28.0 | 27.2 | 28.4 | 28.8 |
|           | 4H   | 24.7                 | 25.8 | 25.1 | 26.2 | 26.6 | 27.5               | 28.6 | 28.0 | 29.1 | 29.5 |
|           | 6H   | 25.2                 | 26.1 | 25.6 | 26.6 | 27.0 | 28.1               | 29.0 | 28.5 | 29.5 | 29.9 |
|           | 8H   | 25.3                 | 26.2 | 25.8 | 26.6 | 27.1 | 28.2               | 29.1 | 28.7 | 29.6 | 30.0 |
|           | 12H  | 25.4                 | 26.2 | 25.8 | 26.6 | 27.1 | 28.3               | 29.1 | 28.8 | 29.6 | 30.1 |
| 8H        | 4H   | 25.3                 | 26.2 | 25.8 | 26.7 | 27.1 | 27.8               | 28.7 | 28.2 | 29.1 | 29.6 |
|           | 6H   | 25.9                 | 26.7 | 26.4 | 27.2 | 27.6 | 28.4               | 29.2 | 28.9 | 29.7 | 30.1 |
|           | 8H   | 26.1                 | 26.8 | 26.6 | 27.3 | 27.7 | 28.6               | 29.3 | 29.1 | 29.8 | 30.3 |
|           | 12H  | 26.2                 | 26.8 | 26.7 | 27.3 | 27.8 | 28.8               | 29.4 | 29.3 | 29.9 | 30.4 |
| 12H       | 4H   | 25.4                 | 26.2 | 25.9 | 26.7 | 27.2 | 27.8               | 28.6 | 28.3 | 29.1 | 29.5 |
|           | 6H   | 26.0                 | 26.7 | 26.6 | 27.2 | 27.7 | 28.5               | 29.1 | 29.0 | 29.6 | 30.1 |
|           | 8H   | 26.3                 | 26.9 | 26.8 | 27.4 | 27.9 | 28.7               | 29.3 | 29.2 | 29.8 | 30.4 |

Maximum UGR = 30.4

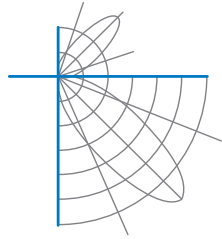


## Report of Test LLIA002278-001-R02

### Iso-Illuminance Plot



The isofootcandle values shown in the plot above are based on a mounting height of  $h = 8.0$  feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



## Report of Test

### LLIA002278-001-R02

Test Distance                      9.5 m  
Ambient Temperature            25.1 °C

#### Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of IES LM-79-19. Format of reports and angular increments based on IES LM-41-20 and LM-46-20.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE C-Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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                              R02 - 11/05/2024 - Revised catalog number