

Report of Test

LLIA000550-013

Catalog Number: W61001/F11/D61/L401 10" Half Drum Sconce

Wall mounted sconce, welded steel housing with white "lumenate" diffuser, translucent etched white acrylic bottom enclosure and white acrylic top enclosure

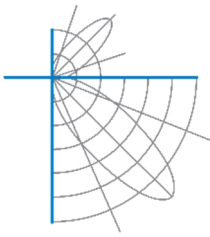
One Samsung SI-N8U0814B0WW round board with 24 white LEDs. Board is rated at 8.4W, 350mA, 1070 lumens. One Inventronics LUC-0125035DSP LED driver 120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44%THD(i)



Performance Summary

| | |
|--------------------|-----------|
| Total Light Output | 722 lm |
| Luminaire Power | 9.92 W |
| Luminous Efficacy | 72.8 lm/W |

PREPARED FOR : Lumetta, Inc, 33 Minnesota Avenue, Warwick, RI 02888, USA



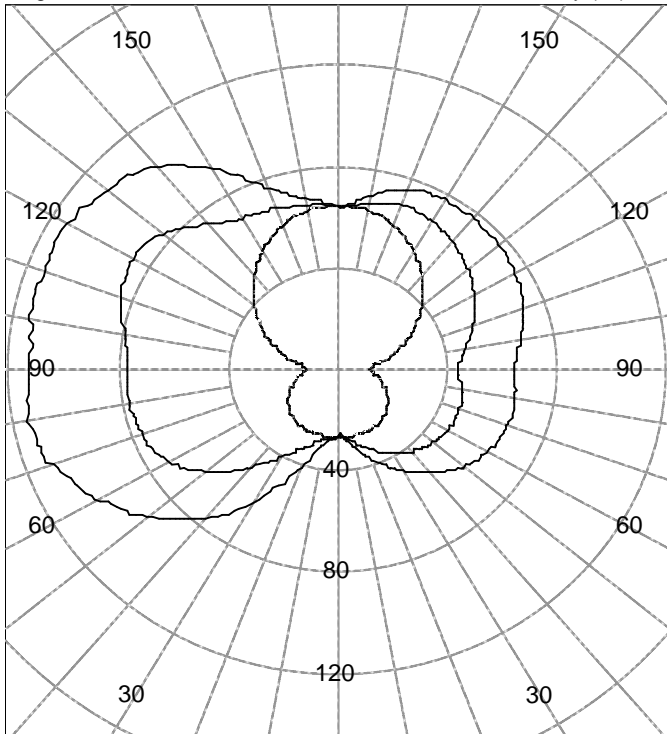
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120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44% THD(i)

Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



C180-C270 (Symmetric about C0/C180) C0-C90

INTENSITY SUMMARY (cd)

| Gamma | C-Plane | | | | | Flux (lm) |
|-------|---------|-------|-----|-------|-----|-----------|
| | C0 | C22.5 | C45 | C67.5 | C90 | |
| 0.0 | 26 | 26 | 26 | 26 | 26 | |
| 5.0 | 28 | 27 | 27 | 26 | 26 | 3 |
| 10.0 | 31 | 30 | 29 | 27 | 27 | |
| 15.0 | 34 | 33 | 31 | 28 | 27 | 9 |
| 20.0 | 38 | 37 | 33 | 29 | 27 | |
| 25.0 | 43 | 41 | 36 | 30 | 27 | 17 |
| 30.0 | 46 | 44 | 38 | 31 | 26 | |
| 35.0 | 50 | 47 | 40 | 32 | 26 | 27 |
| 40.0 | 54 | 50 | 42 | 32 | 25 | |
| 45.0 | 57 | 53 | 44 | 33 | 24 | 38 |
| 50.0 | 60 | 56 | 45 | 33 | 23 | |
| 55.0 | 62 | 57 | 46 | 32 | 22 | 48 |
| 60.0 | 64 | 59 | 47 | 32 | 21 | |
| 65.0 | 65 | 60 | 47 | 31 | 19 | 56 |
| 70.0 | 66 | 60 | 47 | 30 | 18 | |
| 75.0 | 66 | 60 | 46 | 29 | 16 | 60 |
| 80.0 | 66 | 60 | 46 | 28 | 14 | |
| 85.0 | 65 | 59 | 45 | 27 | 13 | 60 |
| 90.0 | 64 | 59 | 44 | 26 | 11 | |

ZONAL FLUX AND PERCENTAGES

| Zone | Flux (lm) | % Lamp | % Luminaire |
|--------|-----------|--------|-------------|
| 0-30 | 28 | N / A | 3.9 |
| 0-40 | 55 | N / A | 7.6 |
| 0-60 | 141 | N / A | 19.5 |
| 0-90 | 317 | N / A | 43.8 |
| 40-90 | 261 | N / A | 36.2 |
| 60-90 | 175 | N / A | 24.3 |
| 90-180 | 406 | N / A | 56.2 |
| 0-180 | 722 | N / A | 100.0 |

Total Light Output = 722 lm

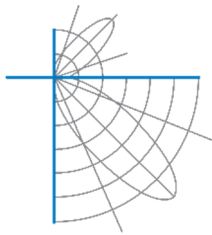
AVERAGE LUMINANCE (cd/m²)

| Gamma | C0 | C45 | C90 |
|-------|-----|-----|-----|
| 45.0 | 809 | 639 | 627 |
| 55.0 | 835 | 636 | 583 |
| 65.0 | 850 | 634 | 537 |
| 75.0 | 869 | 631 | 492 |
| 85.0 | 888 | 630 | 446 |

Signed:

Michael L. Grather
Authorized Signatory

Date of test 24-Mar-2016
Date of report 28-Mar-2016



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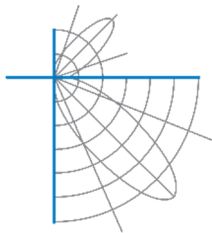
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120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44% THD(i)

Intensity data (cd)

| Gamma | C-Plane | | | | |
|-------|---------|-------|-----|-------|-----|
| | C0 | C22.5 | C45 | C67.5 | C90 |
| 0.0 | 26 | 26 | 26 | 26 | 26 |
| 2.5 | 26 | 26 | 26 | 26 | 26 |
| 5.0 | 28 | 27 | 27 | 26 | 26 |
| 7.5 | 29 | 29 | 28 | 27 | 26 |
| 10.0 | 31 | 30 | 29 | 27 | 27 |
| 12.5 | 32 | 32 | 30 | 28 | 27 |
| 15.0 | 34 | 33 | 31 | 28 | 27 |
| 17.5 | 36 | 35 | 32 | 29 | 27 |
| 20.0 | 38 | 37 | 33 | 29 | 27 |
| 22.5 | 40 | 39 | 35 | 30 | 27 |
| 25.0 | 43 | 41 | 36 | 30 | 27 |
| 27.5 | 44 | 42 | 37 | 31 | 26 |
| 30.0 | 46 | 44 | 38 | 31 | 26 |
| 32.5 | 48 | 46 | 39 | 31 | 26 |
| 35.0 | 50 | 47 | 40 | 32 | 26 |
| 37.5 | 52 | 49 | 41 | 32 | 25 |
| 40.0 | 54 | 50 | 42 | 32 | 25 |
| 42.5 | 55 | 52 | 43 | 32 | 25 |
| 45.0 | 57 | 53 | 44 | 33 | 24 |
| 47.5 | 58 | 54 | 44 | 33 | 24 |
| 50.0 | 60 | 56 | 45 | 33 | 23 |
| 52.5 | 61 | 57 | 46 | 33 | 23 |
| 55.0 | 62 | 57 | 46 | 32 | 22 |
| 57.5 | 63 | 58 | 46 | 32 | 21 |
| 60.0 | 64 | 59 | 47 | 32 | 21 |
| 62.5 | 64 | 59 | 47 | 32 | 20 |
| 65.0 | 65 | 60 | 47 | 31 | 19 |
| 67.5 | 65 | 60 | 47 | 31 | 18 |
| 70.0 | 66 | 60 | 47 | 30 | 18 |
| 72.5 | 66 | 60 | 47 | 30 | 17 |
| 75.0 | 66 | 60 | 46 | 29 | 16 |
| 77.5 | 66 | 60 | 46 | 29 | 15 |
| 80.0 | 66 | 60 | 46 | 28 | 14 |
| 82.5 | 65 | 60 | 45 | 27 | 13 |
| 85.0 | 65 | 59 | 45 | 27 | 13 |
| 87.5 | 65 | 59 | 44 | 26 | 12 |
| 90.0 | 64 | 59 | 44 | 26 | 11 |



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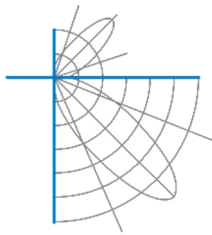
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One Samsung SI-N8U0814B0WW round board with 24 white LEDs. Board is rated at 8.4W, 350mA, 1070 lumens. One Inventronics LUC-0125035DSP LED driver 120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44% THD(i)

Intensity data (cd)

| Gamma | C-Plane | | | | |
|-------|---------|-------|-----|-------|-----|
| | C0 | C22.5 | C45 | C67.5 | C90 |
| 90.0 | 64 | 59 | 44 | 26 | 11 |
| 92.5 | 65 | 59 | 44 | 26 | 12 |
| 95.0 | 65 | 60 | 45 | 27 | 13 |
| 97.5 | 66 | 61 | 46 | 28 | 14 |
| 100.0 | 67 | 62 | 47 | 30 | 16 |
| 102.5 | 68 | 63 | 49 | 31 | 18 |
| 105.0 | 70 | 64 | 50 | 33 | 20 |
| 107.5 | 71 | 65 | 51 | 35 | 22 |
| 110.0 | 72 | 66 | 53 | 36 | 24 |
| 112.5 | 73 | 67 | 54 | 38 | 26 |
| 115.0 | 73 | 68 | 55 | 40 | 28 |
| 117.5 | 74 | 69 | 57 | 41 | 30 |
| 120.0 | 75 | 70 | 58 | 43 | 32 |
| 122.5 | 75 | 71 | 59 | 44 | 34 |
| 125.0 | 76 | 71 | 60 | 46 | 36 |
| 127.5 | 76 | 72 | 61 | 47 | 38 |
| 130.0 | 76 | 72 | 62 | 49 | 40 |
| 132.5 | 77 | 73 | 63 | 50 | 42 |
| 135.0 | 77 | 73 | 63 | 52 | 44 |
| 137.5 | 77 | 73 | 64 | 53 | 46 |
| 140.0 | 77 | 74 | 65 | 55 | 47 |
| 142.5 | 77 | 74 | 66 | 56 | 49 |
| 145.0 | 77 | 74 | 67 | 57 | 51 |
| 147.5 | 77 | 74 | 67 | 59 | 53 |
| 150.0 | 77 | 75 | 68 | 60 | 54 |
| 152.5 | 77 | 75 | 68 | 61 | 56 |
| 155.0 | 77 | 74 | 69 | 62 | 58 |
| 157.5 | 76 | 74 | 69 | 63 | 59 |
| 160.0 | 75 | 73 | 69 | 63 | 60 |
| 162.5 | 74 | 72 | 68 | 64 | 61 |
| 165.0 | 73 | 71 | 68 | 64 | 62 |
| 167.5 | 71 | 70 | 67 | 64 | 63 |
| 170.0 | 69 | 68 | 66 | 64 | 64 |
| 172.5 | 68 | 67 | 66 | 64 | 64 |
| 175.0 | 66 | 65 | 65 | 64 | 64 |
| 177.5 | 64 | 64 | 64 | 64 | 64 |
| 180.0 | 64 | 64 | 64 | 64 | 64 |



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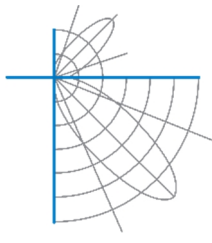
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120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44% THD(i)

Intensity data (cd)

| Gamma | C-Plane | | | | |
|-------|---------|--------|------|--------|------|
| | C90 | C112.5 | C135 | C157.5 | C180 |
| 0.0 | 26 | 26 | 26 | 26 | 26 |
| 2.5 | 26 | 26 | 27 | 27 | 27 |
| 5.0 | 26 | 27 | 27 | 28 | 28 |
| 7.5 | 26 | 27 | 28 | 28 | 28 |
| 10.0 | 27 | 28 | 28 | 29 | 30 |
| 12.5 | 27 | 28 | 29 | 31 | 32 |
| 15.0 | 27 | 28 | 30 | 33 | 35 |
| 17.5 | 27 | 28 | 31 | 36 | 39 |
| 20.0 | 27 | 28 | 33 | 39 | 42 |
| 22.5 | 27 | 28 | 34 | 43 | 46 |
| 25.0 | 27 | 29 | 35 | 46 | 51 |
| 27.5 | 26 | 29 | 37 | 50 | 55 |
| 30.0 | 26 | 29 | 39 | 54 | 60 |
| 32.5 | 26 | 29 | 42 | 59 | 65 |
| 35.0 | 26 | 30 | 44 | 64 | 69 |
| 37.5 | 25 | 30 | 47 | 68 | 73 |
| 40.0 | 25 | 30 | 51 | 73 | 77 |
| 42.5 | 25 | 30 | 54 | 76 | 81 |
| 45.0 | 24 | 30 | 57 | 80 | 84 |
| 47.5 | 24 | 30 | 60 | 84 | 87 |
| 50.0 | 23 | 30 | 63 | 88 | 90 |
| 52.5 | 23 | 30 | 66 | 91 | 93 |
| 55.0 | 22 | 31 | 68 | 93 | 96 |
| 57.5 | 21 | 31 | 70 | 95 | 99 |
| 60.0 | 21 | 31 | 72 | 97 | 102 |
| 62.5 | 20 | 30 | 73 | 100 | 104 |
| 65.0 | 19 | 30 | 74 | 101 | 106 |
| 67.5 | 18 | 30 | 75 | 102 | 108 |
| 70.0 | 18 | 30 | 76 | 103 | 110 |
| 72.5 | 17 | 30 | 76 | 103 | 113 |
| 75.0 | 16 | 30 | 76 | 104 | 113 |
| 77.5 | 15 | 30 | 77 | 105 | 114 |
| 80.0 | 14 | 29 | 77 | 104 | 115 |
| 82.5 | 13 | 29 | 77 | 104 | 113 |
| 85.0 | 13 | 29 | 77 | 104 | 112 |
| 87.5 | 12 | 28 | 77 | 104 | 113 |
| 90.0 | 11 | 28 | 76 | 104 | 112 |



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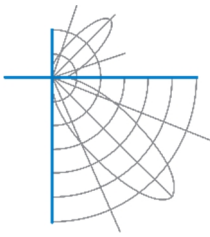
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Intensity data (cd)

| Gamma | C-Plane | | | | |
|-------|---------|--------|------|--------|------|
| | C90 | C112.5 | C135 | C157.5 | C180 |
| 90.0 | 11 | 28 | 76 | 104 | 112 |
| 92.5 | 12 | 29 | 77 | 104 | 112 |
| 95.0 | 13 | 30 | 77 | 104 | 112 |
| 97.5 | 14 | 31 | 78 | 105 | 112 |
| 100.0 | 16 | 33 | 79 | 106 | 114 |
| 102.5 | 18 | 34 | 80 | 107 | 114 |
| 105.0 | 20 | 36 | 81 | 108 | 114 |
| 107.5 | 22 | 38 | 82 | 109 | 114 |
| 110.0 | 24 | 39 | 84 | 109 | 113 |
| 112.5 | 26 | 40 | 85 | 110 | 114 |
| 115.0 | 28 | 42 | 85 | 110 | 114 |
| 117.5 | 30 | 43 | 86 | 111 | 114 |
| 120.0 | 32 | 44 | 86 | 111 | 114 |
| 122.5 | 34 | 45 | 86 | 111 | 112 |
| 125.0 | 36 | 46 | 86 | 110 | 111 |
| 127.5 | 38 | 47 | 84 | 109 | 111 |
| 130.0 | 40 | 49 | 83 | 108 | 109 |
| 132.5 | 42 | 50 | 81 | 106 | 109 |
| 135.0 | 44 | 52 | 79 | 103 | 108 |
| 137.5 | 46 | 53 | 77 | 101 | 106 |
| 140.0 | 47 | 55 | 75 | 99 | 104 |
| 142.5 | 49 | 57 | 72 | 96 | 101 |
| 145.0 | 51 | 58 | 71 | 92 | 98 |
| 147.5 | 53 | 60 | 69 | 89 | 94 |
| 150.0 | 54 | 60 | 69 | 85 | 91 |
| 152.5 | 56 | 61 | 68 | 81 | 87 |
| 155.0 | 58 | 61 | 68 | 78 | 83 |
| 157.5 | 59 | 62 | 68 | 76 | 80 |
| 160.0 | 60 | 62 | 67 | 73 | 76 |
| 162.5 | 61 | 63 | 67 | 71 | 74 |
| 165.0 | 62 | 63 | 66 | 70 | 72 |
| 167.5 | 63 | 64 | 66 | 68 | 70 |
| 170.0 | 64 | 64 | 66 | 67 | 68 |
| 172.5 | 64 | 64 | 65 | 66 | 67 |
| 175.0 | 64 | 64 | 65 | 66 | 66 |
| 177.5 | 64 | 64 | 64 | 65 | 65 |
| 180.0 | 64 | 64 | 64 | 64 | 64 |



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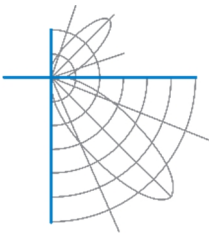
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120.0Vac, 60.0Hz, 0.0829A, 9.92W, 0.997PF, 6.44%THD(i)

| Coefficients Of 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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 50 | 50 | 50 | 44 |
| 1 | 92 | 86 | 81 | 76 | 84 | 78 | 73 | 69 | 64 | 60 | 57 | 50 | 48 | 45 | 38 | 36 | 34 | 28 |
| 2 | 82 | 73 | 65 | 58 | 74 | 66 | 59 | 53 | 53 | 48 | 44 | 42 | 38 | 34 | 31 | 28 | 26 | 20 |
| 3 | 74 | 63 | 54 | 47 | 67 | 57 | 49 | 43 | 46 | 40 | 35 | 35 | 31 | 27 | 26 | 23 | 20 | 15 |
| 4 | 67 | 54 | 45 | 38 | 60 | 49 | 41 | 35 | 40 | 33 | 28 | 31 | 26 | 22 | 22 | 19 | 16 | 12 |
| 5 | 61 | 48 | 39 | 32 | 55 | 43 | 35 | 29 | 35 | 29 | 24 | 27 | 22 | 18 | 20 | 16 | 13 | 10 |
| 6 | 56 | 42 | 33 | 27 | 50 | 39 | 30 | 25 | 31 | 25 | 20 | 24 | 19 | 16 | 18 | 14 | 11 | 8 |
| 7 | 51 | 38 | 29 | 23 | 46 | 34 | 27 | 21 | 28 | 22 | 17 | 22 | 17 | 13 | 16 | 12 | 9 | 7 |
| 8 | 48 | 34 | 26 | 20 | 43 | 31 | 24 | 18 | 25 | 19 | 15 | 20 | 15 | 12 | 14 | 11 | 8 | 6 |
| 9 | 44 | 31 | 23 | 17 | 40 | 28 | 21 | 16 | 23 | 17 | 13 | 18 | 13 | 10 | 13 | 10 | 7 | 5 |
| 10 | 41 | 28 | 20 | 15 | 37 | 26 | 19 | 14 | 21 | 15 | 11 | 16 | 12 | 9 | 12 | 9 | 6 | 4 |

For absolute test reports, CUs are expressed as a percentage of total lumen 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.



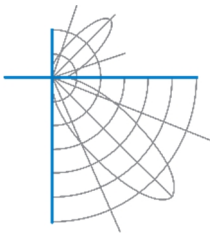
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Test Distance 9.5 m
Test Temperature 24.3 °C

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 publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2011, ANSI C82.77:2002.

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 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.