

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-13LXXKWDE1-SD4XMWSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487_2_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-13L-xxK-WD-E1-SD4x-MW-SOX

[LUMINAIRE] 4" Square, Downlight, Wide Beam

[TRIM] Matte White, regressed Solite Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFI4, SDFO4, SDZI4, and SDZO4 series

[OTHER] For Trims: SD4F and SD4N series

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 50L report

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 931 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 62 |
| Total Luminaire Watts | 15 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.78 |
| Spacing Criterion (90-270) | 0.78 |
| Spacing Criterion (Diagonal) | 0.84 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.33 ft |
| Luminous Width (90-270) | 0.33 ft |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8109 | 7506 | 8069 |
| 55 | 7990 | 7773 | 7845 |
| 65 | 8117 | 7768 | 8206 |
| 75 | 7532 | 7574 | 7219 |
| 85 | 6775 | 6734 | 5866 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1197.305 | 1197.305 | 1197.305 | 1197.305 | 1197.305 |
| 5 | 1117.743 | 1081.085 | 1110.151 | 1102.379 | 1115.257 |
| 10 | 1089.533 | 1083.662 | 1095.999 | 1099.701 | 1100.081 |
| 15 | 1059.284 | 1064.016 | 1078.737 | 1070.347 | 1056.325 |
| 20 | 810.979 | 869.011 | 913.162 | 865.145 | 810.235 |
| 25 | 539.336 | 604.404 | 684.629 | 617.838 | 538.260 |
| 30 | 245.562 | 347.433 | 504.533 | 349.045 | 240.612 |
| 35 | 86.593 | 107.523 | 240.752 | 110.274 | 83.954 |
| 40 | 71.274 | 70.949 | 83.301 | 71.750 | 72.472 |
| 45 | 59.233 | 54.332 | 54.831 | 55.169 | 58.937 |
| 50 | 55.034 | 50.656 | 50.297 | 51.134 | 55.983 |
| 55 | 47.341 | 46.277 | 46.059 | 46.270 | 46.480 |
| 60 | 42.003 | 41.701 | 40.726 | 41.392 | 44.002 |
| 65 | 35.438 | 35.651 | 33.912 | 35.883 | 35.823 |
| 70 | 28.322 | 28.387 | 28.350 | 28.756 | 26.094 |
| 75 | 20.137 | 20.524 | 20.249 | 20.405 | 19.300 |
| 80 | 12.056 | 12.298 | 13.325 | 12.753 | 11.544 |
| 85 | 6.100 | 6.105 | 6.063 | 6.542 | 5.281 |
| 90 | 1.791 | 1.565 | 1.794 | 1.911 | 2.072 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 393.50 | N.A. | 42.30 |
| 0-30 | 671.36 | N.A. | 72.10 |
| 0-40 | 779.65 | N.A. | 83.80 |
| 0-60 | 867.28 | N.A. | 93.20 |
| 0-80 | 923.48 | N.A. | 99.20 |
| 0-90 | 930.71 | N.A. | 100.00 |
| 10-90 | 824.65 | N.A. | 88.60 |
| 20-40 | 386.15 | N.A. | 41.50 |
| 20-50 | 432.05 | N.A. | 46.40 |
| 40-70 | 122.41 | N.A. | 13.20 |
| 60-80 | 56.20 | N.A. | 6.00 |
| 70-80 | 21.42 | N.A. | 2.30 |
| 80-90 | 7.23 | N.A. | 0.80 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 930.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 106.05 |
| 10-20 | 287.45 |
| 20-30 | 277.86 |
| 30-40 | 108.29 |
| 40-50 | 45.90 |
| 50-60 | 41.73 |
| 60-70 | 34.78 |
| 70-80 | 21.42 |
| 80-90 | 7.23 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

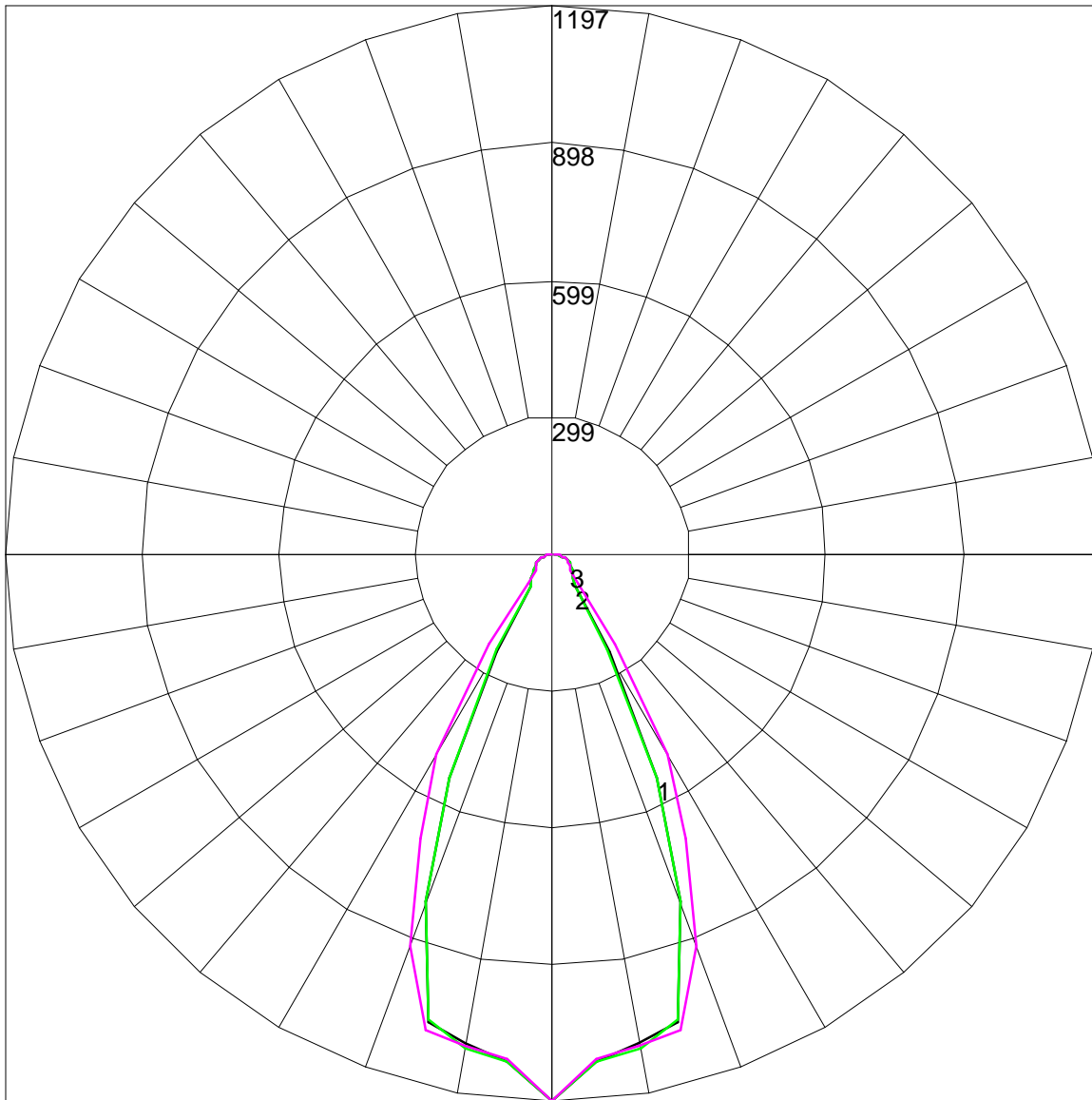
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 |
| 4 | 95 | 87 | 81 | 77 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 72 |
| 5 | 90 | 82 | 75 | 71 | 89 | 81 | 75 | 70 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 72 | 69 | 67 |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 |
| 7 | 82 | 72 | 66 | 62 | 80 | 72 | 66 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 59 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 75 | 65 | 59 | 55 | 73 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 58 | 54 | 61 | 57 | 54 | 53 |
| 10 | 71 | 61 | 56 | 52 | 70 | 61 | 55 | 52 | 60 | 55 | 51 | 59 | 55 | 51 | 59 | 54 | 51 | 50 |

POLAR GRAPH



Maximum Candela = 1197.305 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)