

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-10LXXKXWE1-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_3_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-10L-xxK-XW-E1-SD4x-MW-SOX

[LUMINAIRE] 4" Square, Downlight, Xtra 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 | 717 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 65 |
| Total Luminaire Watts | 11.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.76 |
| Spacing Criterion (90-270) | 0.76 |
| Spacing Criterion (Diagonal) | 0.86 |
| 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 | 6579 | 6092 | 6599 |
| 55 | 5541 | 5337 | 5778 |
| 65 | 5447 | 5425 | 5528 |
| 75 | 4622 | 4781 | 4704 |
| 85 | 4287 | 4688 | 4684 |

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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 | 929.639 | 929.639 | 929.639 | 929.639 | 929.639 |
| 5 | 915.766 | 921.081 | 907.633 | 912.166 | 911.551 |
| 10 | 875.633 | 875.045 | 862.810 | 870.702 | 869.745 |
| 15 | 755.414 | 754.381 | 756.649 | 756.064 | 743.448 |
| 20 | 584.375 | 590.898 | 614.774 | 598.373 | 583.854 |
| 25 | 450.035 | 489.595 | 521.914 | 490.899 | 449.869 |
| 30 | 234.408 | 301.391 | 419.657 | 303.568 | 227.854 |
| 35 | 98.030 | 113.719 | 214.299 | 116.591 | 96.361 |
| 40 | 61.351 | 61.181 | 72.035 | 60.243 | 62.374 |
| 45 | 48.053 | 44.913 | 44.502 | 45.251 | 48.202 |
| 50 | 37.041 | 34.736 | 34.348 | 35.387 | 37.577 |
| 55 | 32.829 | 32.129 | 31.625 | 31.507 | 34.238 |
| 60 | 30.218 | 28.456 | 27.991 | 27.836 | 29.380 |
| 65 | 23.780 | 24.580 | 23.685 | 25.113 | 24.133 |
| 70 | 19.451 | 19.395 | 18.655 | 19.188 | 18.970 |
| 75 | 12.358 | 13.684 | 12.782 | 13.601 | 12.578 |
| 80 | 8.407 | 8.590 | 8.504 | 8.490 | 7.784 |
| 85 | 3.860 | 4.275 | 4.221 | 3.908 | 4.217 |
| 90 | 1.218 | 1.139 | 1.272 | 1.175 | 1.220 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 293.57 | N.A. | 41.00 |
| 0-30 | 508.88 | N.A. | 71.00 |
| 0-40 | 608.30 | N.A. | 84.90 |
| 0-60 | 673.72 | N.A. | 94.00 |
| 0-80 | 711.77 | N.A. | 99.30 |
| 0-90 | 716.62 | N.A. | 100.00 |
| 10-90 | 630.77 | N.A. | 88.00 |
| 20-40 | 314.73 | N.A. | 43.90 |
| 20-50 | 351.41 | N.A. | 49.00 |
| 40-70 | 89.27 | N.A. | 12.50 |
| 60-80 | 38.05 | N.A. | 5.30 |
| 70-80 | 14.20 | N.A. | 2.00 |
| 80-90 | 4.86 | N.A. | 0.70 |
| 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 | 716.62 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 85.85 |
| 10-20 | 207.72 |
| 20-30 | 215.31 |
| 30-40 | 99.42 |
| 40-50 | 36.68 |
| 50-60 | 28.74 |
| 60-70 | 23.85 |
| 70-80 | 14.20 |
| 80-90 | 4.86 |
| 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 |

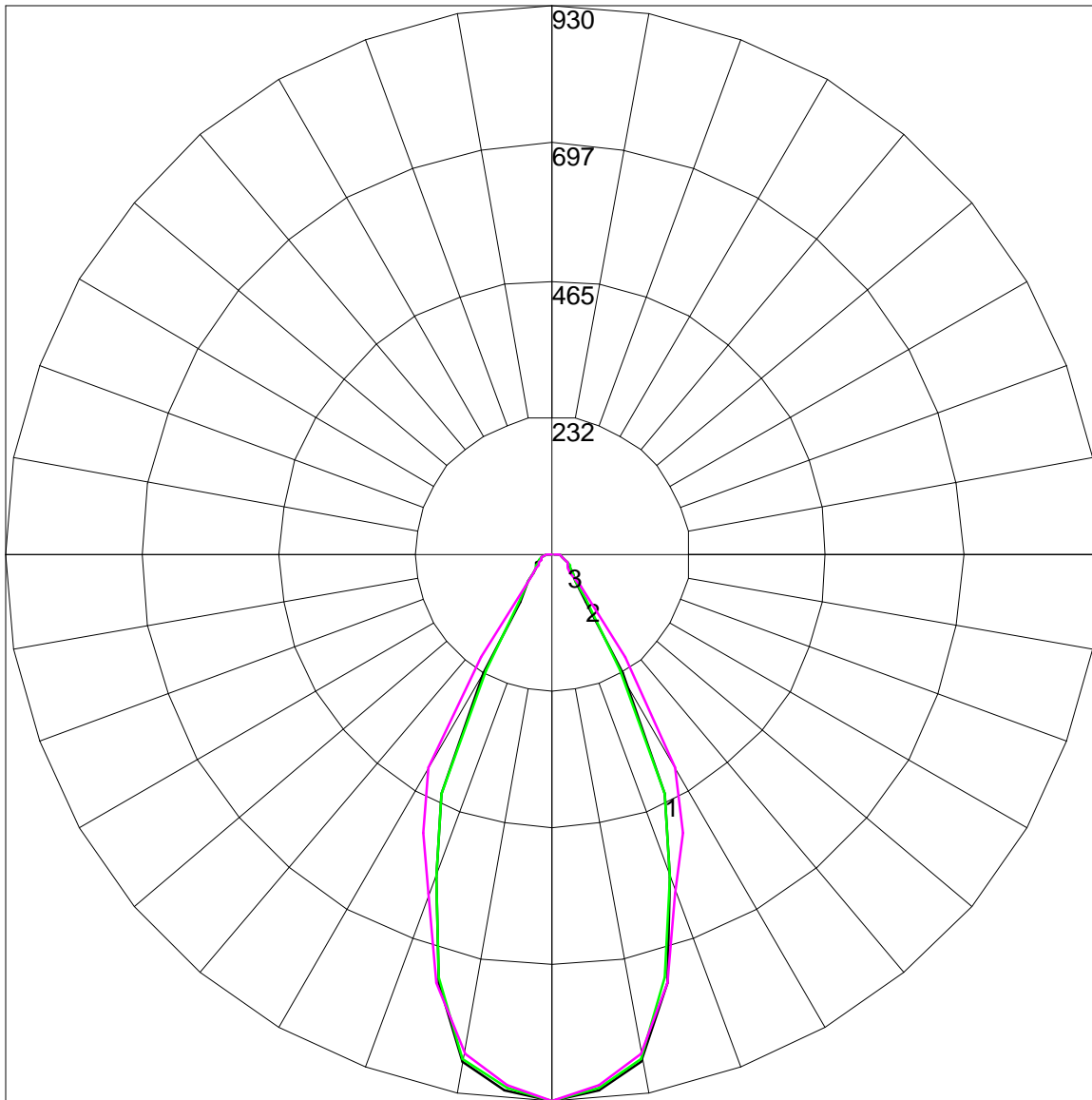
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 |
| 2 | 106 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 79 | 78 |
| 4 | 95 | 87 | 81 | 77 | 94 | 86 | 81 | 76 | 84 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 72 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 67 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 64 | 63 |
| 7 | 82 | 72 | 66 | 62 | 81 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 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 | 62 | 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 = 929.639 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)