

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX6XT-20LXXKNDE1-SD6XMWGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Sep 30 2015

[UPDATE] Tue Dec 1 2015

[TEST] SP-00488_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx6XT-20L-xxK-ND-E1-SD6x-MW-GLX

[LUMINAIRE] 6" Square, Downlight, Narrow Beam

[TRIM] Matte White, regressed clear glass Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFI6, SDFO6, SDZI6, and SDZO6 series

[OTHER] For Trims: SD6F and SD6N 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 | 1579 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 67 |
| Total Luminaire Watts | 23.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.42 |
| Spacing Criterion (90-270) | 0.42 |
| Spacing Criterion (Diagonal) | 0.44 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.79 ft |
| Luminous Width (90-270) | 0.93 ft |
| Luminous Height | 0.82 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX6XT-20LXXKNDE1-SD6XMWGLX.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 225 | 301 | 238 |
| 55 | 178 | 164 | 209 |
| 65 | 135 | 119 | 144 |
| 75 | 91 | 88 | 115 |
| 85 | 48 | 41 | 54 |

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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 | 6035.704 | 6035.704 | 6035.704 | 6035.704 | 6035.704 |
| 5 | 5201.160 | 5241.136 | 5186.944 | 5188.532 | 5197.448 |
| 10 | 3661.664 | 3628.460 | 3652.152 | 3654.184 | 3678.560 |
| 15 | 2055.776 | 2081.236 | 2068.984 | 2068.108 | 2075.668 |
| 20 | 924.692 | 928.388 | 919.884 | 923.544 | 924.068 |
| 25 | 593.392 | 591.784 | 599.840 | 598.440 | 594.956 |
| 30 | 501.784 | 518.400 | 522.724 | 524.996 | 492.152 |
| 35 | 144.364 | 275.628 | 369.596 | 275.684 | 145.816 |
| 40 | 24.180 | 47.180 | 148.648 | 46.856 | 22.668 |
| 45 | 22.104 | 21.948 | 34.104 | 21.468 | 21.576 |
| 50 | 21.972 | 21.256 | 20.592 | 20.284 | 19.584 |
| 55 | 17.240 | 19.100 | 18.824 | 17.988 | 18.492 |
| 60 | 15.408 | 16.156 | 16.668 | 16.600 | 15.492 |
| 65 | 12.456 | 13.464 | 13.356 | 13.580 | 11.988 |
| 70 | 9.720 | 11.100 | 11.868 | 11.048 | 9.724 |
| 75 | 7.808 | 9.612 | 9.384 | 9.172 | 8.720 |
| 80 | 6.108 | 7.668 | 7.400 | 7.708 | 6.572 |
| 85 | 3.632 | 4.584 | 4.036 | 4.696 | 3.580 |
| 90 | 1.224 | 1.600 | 1.640 | 1.416 | 1.060 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1037.42 | N.A. | 65.70 |
| 0-30 | 1337.55 | N.A. | 84.70 |
| 0-40 | 1508.31 | N.A. | 95.60 |
| 0-60 | 1550.97 | N.A. | 98.30 |
| 0-80 | 1573.83 | N.A. | 99.70 |
| 0-90 | 1578.51 | N.A. | 100.00 |
| 10-90 | 1127.37 | N.A. | 71.40 |
| 20-40 | 470.89 | N.A. | 29.80 |
| 20-50 | 497.02 | N.A. | 31.50 |
| 40-70 | 55.90 | N.A. | 3.50 |
| 60-80 | 22.86 | N.A. | 1.40 |
| 70-80 | 9.62 | N.A. | 0.60 |
| 80-90 | 4.68 | N.A. | 0.30 |
| 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 | 1578.51 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

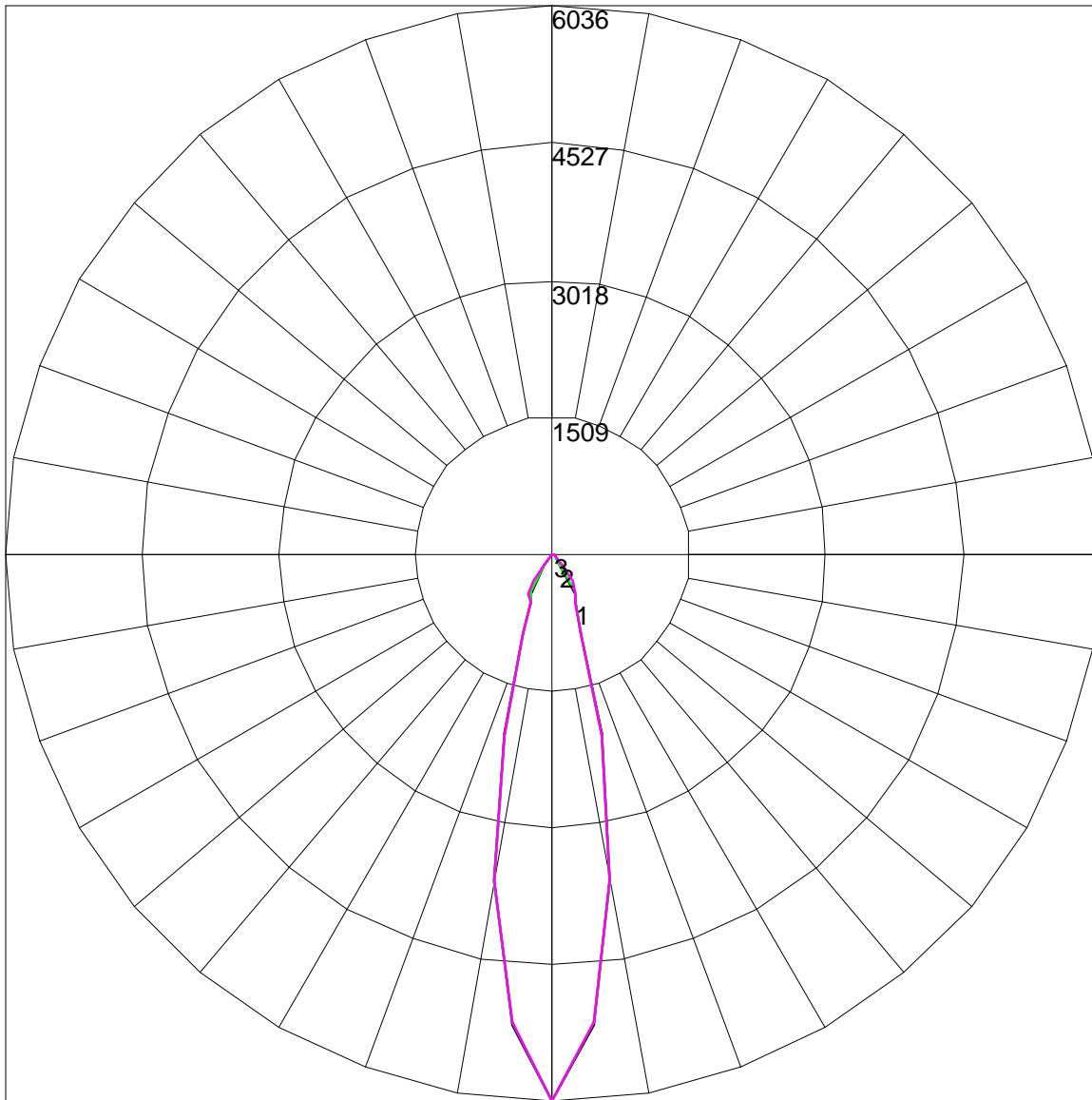
| Zone | Lumens |
|---------|--------|
| 0-10 | 451.15 |
| 10-20 | 586.27 |
| 20-30 | 300.13 |
| 30-40 | 170.76 |
| 40-50 | 26.12 |
| 50-60 | 16.53 |
| 60-70 | 13.24 |
| 70-80 | 9.62 |
| 80-90 | 4.68 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX6XT-20LXXKNDE1-SD6XMWGLX.IES****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 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 89 | 88 | 86 |
| 4 | 101 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 88 | 86 | 90 | 87 | 85 | 88 | 86 | 84 | 82 |
| 5 | 98 | 91 | 86 | 83 | 96 | 90 | 86 | 82 | 88 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 79 |
| 6 | 94 | 87 | 82 | 79 | 93 | 86 | 82 | 78 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 76 |
| 7 | 91 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 73 |
| 8 | 88 | 80 | 76 | 72 | 87 | 80 | 75 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 70 |
| 9 | 85 | 77 | 73 | 70 | 84 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 72 | 69 | 75 | 71 | 69 | 68 |
| 10 | 83 | 75 | 70 | 67 | 82 | 74 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 72 | 69 | 67 | 66 |

POLAR GRAPH



Maximum Candela = 6035.704 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)