

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDXX4XT-20LXXKXWE1-RD4XSGSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Tue Jul 14 2015

[UPDATE] Thu Oct 22 2015

[TEST] SP-00480_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDxx4LEDXT-20L-xxK-XW-E1-RD4x-SG-SOX

[LUMINAIRE] 4" aperture, Xtra Wide Beam

[TRIM] Semi-diffuse, regressed Solite Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: RDFI4, RDFO4, RDZI4, and RDZO4 series

[OTHER] For Trims: RD4F and RD4N series with SOX or SOW

[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 | 1461 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 62 |
| Total Luminaire Watts | 23.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.76 |
| Spacing Criterion (90-270) | 0.76 |
| Spacing Criterion (Diagonal) | 0.74 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.00 ft |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDXX4XT-20LXXKXWE1-RD4XSGSOX.IES

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDXX4XT-20LXXKXWE1-RD4XSGSOX.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 2281.324 | 2281.324 | 2281.324 | 2281.324 | 2281.324 |
| 5 | 2215.656 | 2200.076 | 2206.808 | 2207.096 | 2191.316 |
| 10 | 2047.904 | 2053.076 | 2065.664 | 2055.932 | 2075.388 |
| 15 | 1778.696 | 1767.532 | 1766.104 | 1765.812 | 1770.096 |
| 20 | 1407.976 | 1406.720 | 1410.996 | 1409.248 | 1418.132 |
| 25 | 1003.532 | 1011.632 | 1003.760 | 1003.080 | 1008.724 |
| 30 | 601.656 | 597.548 | 600.472 | 598.392 | 599.340 |
| 35 | 286.628 | 287.800 | 286.188 | 283.740 | 283.080 |
| 40 | 137.660 | 142.340 | 140.488 | 139.652 | 138.116 |
| 45 | 82.520 | 82.432 | 82.468 | 81.324 | 80.272 |
| 50 | 49.932 | 49.224 | 49.480 | 49.680 | 48.644 |
| 55 | 30.124 | 28.868 | 29.392 | 28.588 | 28.548 |
| 60 | 17.908 | 17.464 | 17.788 | 17.448 | 17.696 |
| 65 | 8.216 | 8.540 | 8.948 | 8.988 | 8.568 |
| 70 | 0.936 | 1.248 | 1.284 | 1.920 | 2.688 |
| 75 | 0.676 | 1.192 | 1.060 | 4.336 | 5.524 |
| 80 | 0.384 | 1.872 | 1.452 | 3.100 | 3.428 |
| 85 | 0.216 | 0.924 | 1.436 | 1.772 | 1.980 |
| 90 | 0.068 | 0.420 | 0.872 | 1.244 | 1.396 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDXX4XT-20LXXKXWE1-RD4XSGSOX.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 695.14 | N.A. | 47.60 |
| 0-30 | 1151.71 | N.A. | 78.80 |
| 0-40 | 1353.05 | N.A. | 92.60 |
| 0-60 | 1448.53 | N.A. | 99.10 |
| 0-80 | 1459.79 | N.A. | 99.90 |
| 0-90 | 1461.29 | N.A. | 100.00 |
| 10-90 | 1255.15 | N.A. | 85.90 |
| 20-40 | 657.91 | N.A. | 45.00 |
| 20-50 | 725.55 | N.A. | 49.70 |
| 40-70 | 104.50 | N.A. | 7.20 |
| 60-80 | 11.26 | N.A. | 0.80 |
| 70-80 | 2.25 | N.A. | 0.20 |
| 80-90 | 1.50 | N.A. | 0.10 |
| 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 | 1461.29 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 206.14 |
| 10-20 | 489.00 |
| 20-30 | 456.57 |
| 30-40 | 201.33 |
| 40-50 | 67.64 |
| 50-60 | 27.85 |
| 60-70 | 9.01 |
| 70-80 | 2.25 |
| 80-90 | 1.50 |
| 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 |

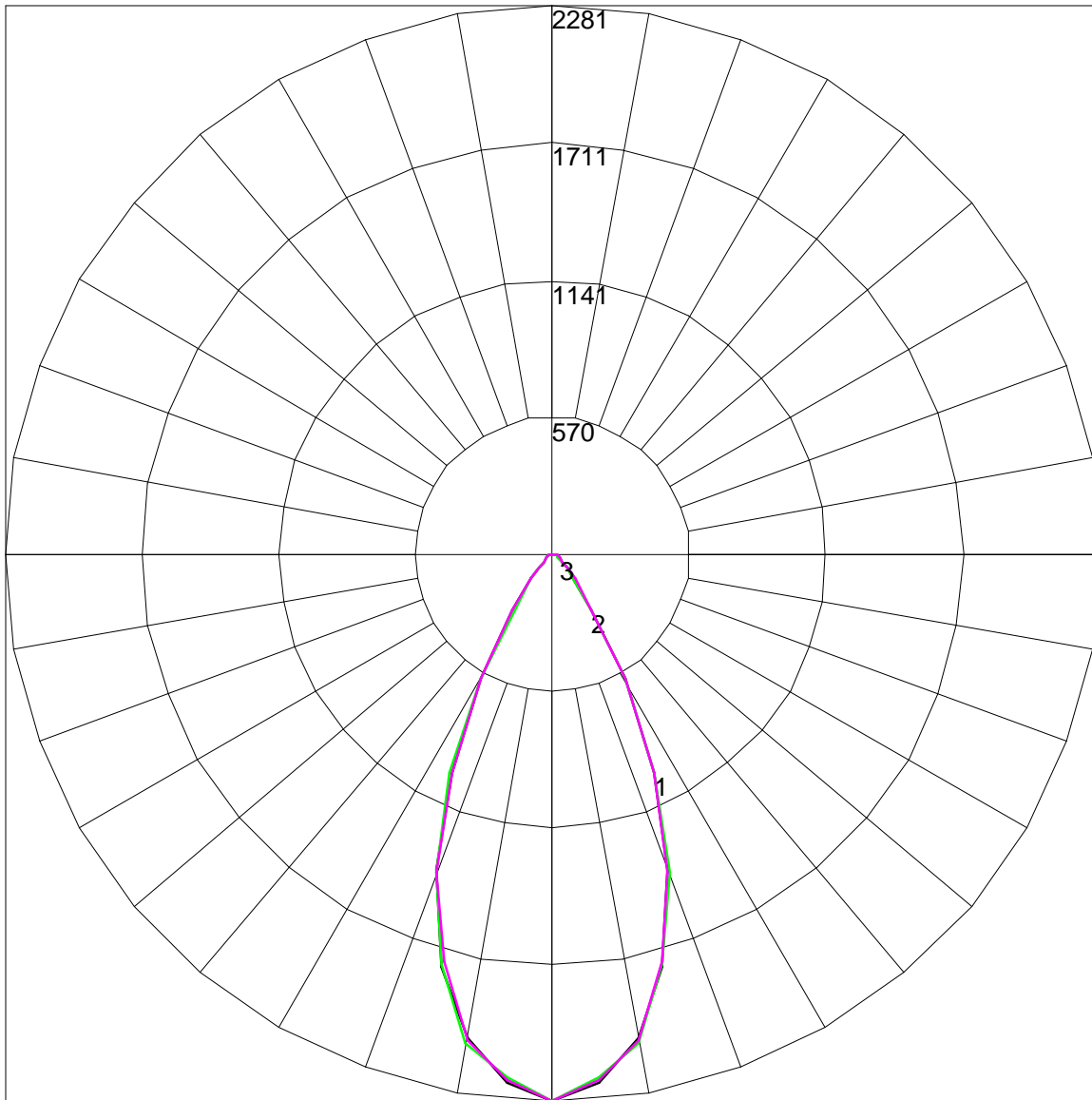
IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDXX4XT-20LXXKXWE1-RD4XSGSOX.IES

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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 3 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 88 | 93 | 90 | 87 | 91 | 88 | 85 | 89 | 86 | 84 | 83 |
| 4 | 99 | 91 | 86 | 82 | 97 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 84 | 81 | 79 | 77 |
| 5 | 94 | 86 | 81 | 77 | 92 | 85 | 80 | 76 | 83 | 79 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 |
| 6 | 90 | 81 | 76 | 72 | 88 | 81 | 75 | 72 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 |
| 7 | 86 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 | 70 | 66 | 63 | 61 |
| 9 | 79 | 69 | 64 | 60 | 77 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 |
| 10 | 75 | 66 | 61 | 57 | 74 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 60 | 57 | 55 |

POLAR GRAPH



Maximum Candela = 2281.324 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)