

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKWDE1-RD6FMWSO-FACY2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Wed Sep 28 2016

[TEST] SP-00476_28_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-20L-xxK-WD-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

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

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

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1466 |
| 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) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.74 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 ft (Diameter) |
| Luminous Height | 0.17 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6837 | 6799 | 6948 |
| 55 | 4842 | 4875 | 5165 |
| 65 | 3830 | 3851 | 3725 |
| 75 | 3109 | 2995 | 2983 |
| 85 | 2536 | 2627 | 2706 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKWDE1-RD6FMWSO-FACY2.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1750.296 | 1750.296 | 1750.296 | 1750.296 | 1750.296 |
| 5 | 1754.704 | 1739.960 | 1761.080 | 1776.996 | 1730.164 |
| 10 | 1825.880 | 1797.672 | 1796.964 | 1820.312 | 1811.428 |
| 15 | 1717.208 | 1712.868 | 1702.144 | 1724.300 | 1725.096 |
| 20 | 1393.376 | 1377.908 | 1392.908 | 1398.484 | 1417.004 |
| 25 | 799.556 | 772.228 | 783.188 | 782.648 | 786.732 |
| 30 | 397.536 | 394.632 | 389.496 | 387.548 | 389.500 |
| 35 | 235.240 | 236.224 | 240.428 | 240.044 | 242.800 |
| 40 | 156.980 | 157.824 | 160.188 | 157.488 | 157.256 |
| 45 | 125.740 | 120.672 | 125.040 | 122.432 | 127.776 |
| 50 | 100.860 | 100.172 | 99.548 | 99.400 | 101.412 |
| 55 | 81.440 | 82.224 | 82.008 | 82.544 | 86.880 |
| 60 | 69.636 | 67.792 | 69.564 | 68.368 | 70.108 |
| 65 | 56.448 | 57.352 | 56.768 | 56.784 | 54.900 |
| 70 | 46.164 | 44.496 | 45.812 | 46.724 | 46.216 |
| 75 | 37.964 | 35.368 | 36.576 | 37.280 | 36.428 |
| 80 | 30.352 | 29.636 | 29.124 | 30.252 | 29.688 |
| 85 | 23.616 | 24.712 | 24.464 | 24.404 | 25.196 |
| 90 | 20.196 | 20.032 | 21.048 | 20.768 | 20.416 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKWDE1-RD6FMWSO-FACY2.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 634.60 | N.A. | 43.30 |
| 0-30 | 1011.45 | N.A. | 69.00 |
| 0-40 | 1170.51 | N.A. | 79.90 |
| 0-60 | 1342.71 | N.A. | 91.60 |
| 0-80 | 1438.47 | N.A. | 98.20 |
| 0-90 | 1465.55 | N.A. | 100.00 |
| 10-90 | 1296.16 | N.A. | 88.40 |
| 20-40 | 535.91 | N.A. | 36.60 |
| 20-50 | 633.32 | N.A. | 43.20 |
| 40-70 | 228.67 | N.A. | 15.60 |
| 60-80 | 95.76 | N.A. | 6.50 |
| 70-80 | 39.30 | N.A. | 2.70 |
| 80-90 | 27.07 | N.A. | 1.80 |
| 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 | 1465.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 169.38 |
| 10-20 | 465.22 |
| 20-30 | 376.85 |
| 30-40 | 159.06 |
| 40-50 | 97.41 |
| 50-60 | 74.80 |
| 60-70 | 56.46 |
| 70-80 | 39.30 |
| 80-90 | 27.07 |
| 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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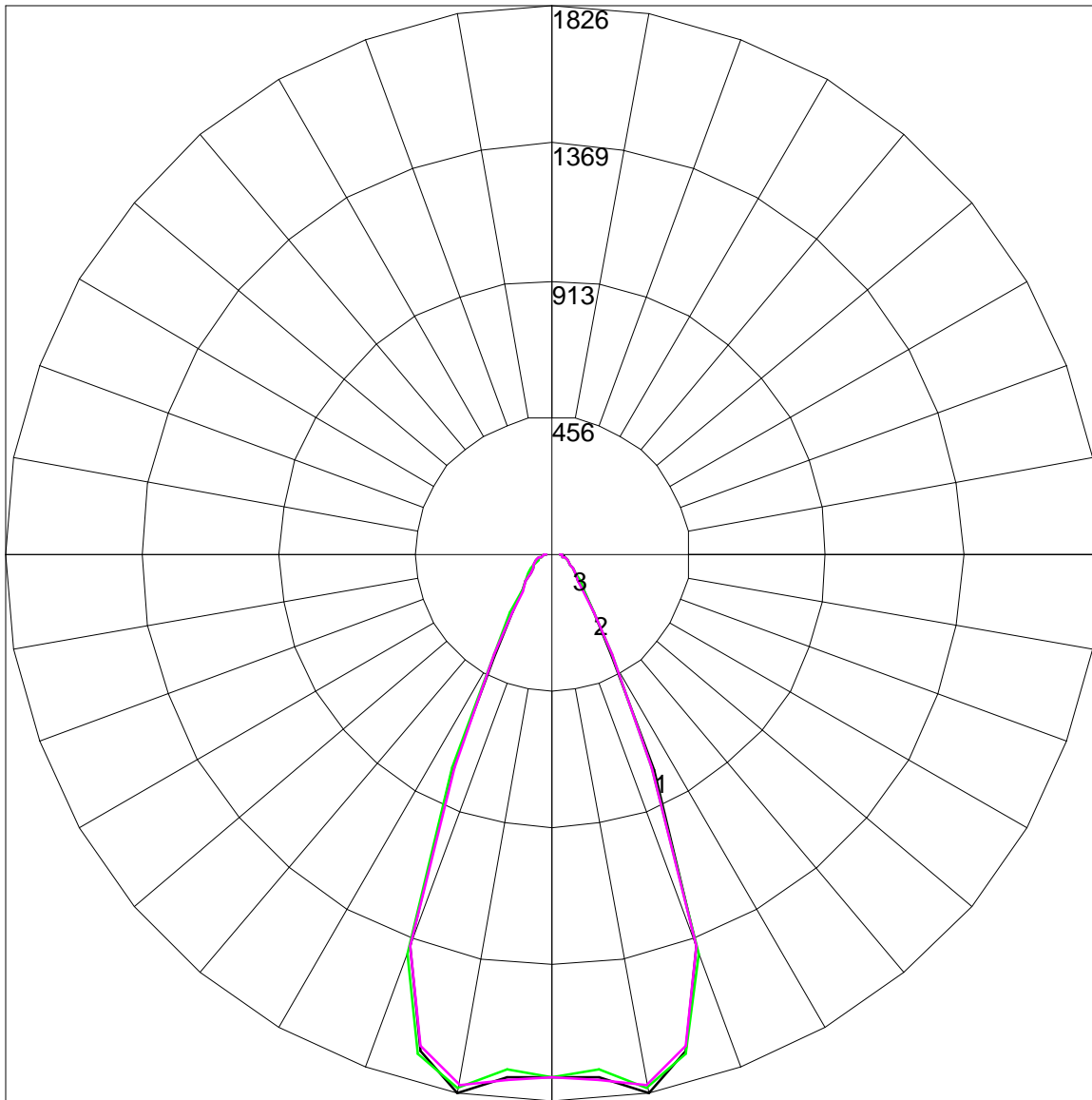
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 |
| 4 | 94 | 86 | 80 | 75 | 92 | 85 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 70 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 |
| 6 | 85 | 75 | 69 | 64 | 83 | 75 | 69 | 64 | 73 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 |
| 7 | 81 | 71 | 65 | 60 | 80 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 54 |
| 9 | 74 | 64 | 58 | 53 | 73 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |
| 10 | 70 | 61 | 55 | 51 | 69 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 58 | 53 | 50 | 49 |

POLAR GRAPH



Maximum Candela = 1825.88 Located At Horizontal Angle = 0, Vertical Angle = 10

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

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

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