

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKWDE1-RD4FMWSO-FACY2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Wed Aug 31 2016

[TEST] SP-00480_17_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-30L-xxK-WD-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" 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 40L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1832 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 53 |
| Total Luminaire Watts | 34.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.66 |
| Spacing Criterion (90-270) | 0.66 |
| Spacing Criterion (Diagonal) | 0.62 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.33 ft (Diameter) |
| Luminous Width (90-270) | 0.33 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 | 21314 | 21574 | 21338 |
| 55 | 16332 | 16391 | 16607 |
| 65 | 12617 | 12892 | 12728 |
| 75 | 10275 | 10248 | 10248 |
| 85 | 7901 | 8181 | 7963 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKWDE1-RD4FMWSO-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 | 2631.249 | 2631.249 | 2631.249 | 2631.249 | 2631.249 |
| 5 | 2543.769 | 2539.647 | 2534.013 | 2520.564 | 2545.795 |
| 10 | 2497.952 | 2477.163 | 2472.885 | 2481.409 | 2462.693 |
| 15 | 2022.593 | 2004.134 | 1995.399 | 2007.087 | 2007.375 |
| 20 | 1254.800 | 1257.785 | 1253.928 | 1257.660 | 1251.785 |
| 25 | 682.026 | 687.247 | 691.743 | 684.340 | 687.963 |
| 30 | 428.724 | 425.942 | 427.563 | 423.932 | 418.267 |
| 35 | 277.099 | 281.720 | 277.590 | 280.793 | 282.156 |
| 40 | 234.305 | 236.573 | 238.085 | 234.274 | 237.679 |
| 45 | 200.161 | 200.465 | 202.608 | 201.267 | 200.387 |
| 50 | 173.832 | 174.385 | 171.938 | 173.738 | 172.180 |
| 55 | 145.134 | 145.858 | 145.656 | 146.513 | 147.573 |
| 60 | 119.888 | 123.402 | 121.337 | 120.893 | 119.740 |
| 65 | 102.348 | 102.956 | 104.576 | 104.031 | 103.244 |
| 70 | 86.055 | 87.987 | 88.533 | 86.826 | 87.442 |
| 75 | 72.855 | 72.466 | 72.660 | 72.941 | 72.660 |
| 80 | 59.476 | 60.084 | 59.523 | 59.780 | 59.406 |
| 85 | 46.253 | 47.500 | 47.890 | 47.352 | 46.612 |
| 90 | 42.505 | 41.368 | 40.066 | 41.033 | 41.087 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKWDE1-RD4FMWSO-FACY2.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 775.78 | N.A. | 42.40 |
| 0-30 | 1120.31 | N.A. | 61.20 |
| 0-40 | 1310.27 | N.A. | 71.50 |
| 0-60 | 1598.17 | N.A. | 87.20 |
| 0-80 | 1778.56 | N.A. | 97.10 |
| 0-90 | 1831.83 | N.A. | 100.00 |
| 10-90 | 1590.75 | N.A. | 86.80 |
| 20-40 | 534.48 | N.A. | 29.20 |
| 20-50 | 691.12 | N.A. | 37.70 |
| 40-70 | 390.98 | N.A. | 21.30 |
| 60-80 | 180.39 | N.A. | 9.80 |
| 70-80 | 77.31 | N.A. | 4.20 |
| 80-90 | 53.27 | N.A. | 2.90 |
| 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 | 1831.83 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 241.08 |
| 10-20 | 534.71 |
| 20-30 | 344.52 |
| 30-40 | 189.96 |
| 40-50 | 156.64 |
| 50-60 | 131.26 |
| 60-70 | 103.08 |
| 70-80 | 77.31 |
| 80-90 | 53.27 |
| 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

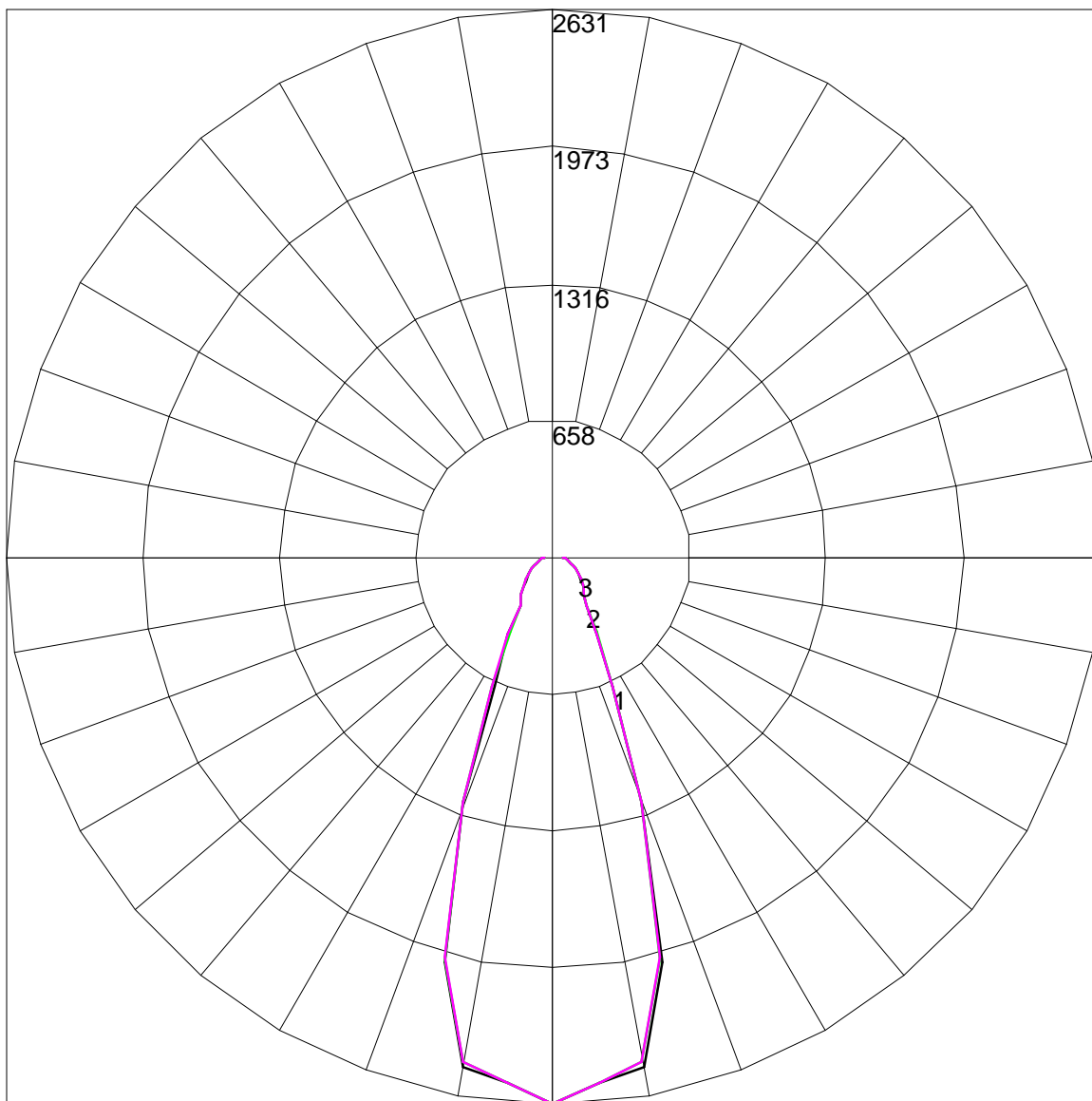
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 71 | 68 | 66 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 61 |
| 6 | 83 | 72 | 65 | 61 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 63 | 59 | 57 |
| 7 | 78 | 68 | 61 | 57 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 |
| 8 | 75 | 64 | 58 | 53 | 73 | 64 | 57 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 51 |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 48 |
| 10 | 68 | 58 | 52 | 48 | 67 | 57 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

POLAR GRAPH



Maximum Candela = 2631.249 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)