

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKNDE1-RD4FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu May 12 2016

[UPDATE] Fri May 13 2016

[TEST] SP-00480_13_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-30L-xxK-ND-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] Narrow 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 | 2174 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 63 |
| Total Luminaire Watts | 34.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.48 |
| Spacing Criterion (90-270) | 0.48 |
| Spacing Criterion (Diagonal) | 0.46 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.33 ft (Diameter) |
| Luminous Width (90-270) | 0.33 ft (Diameter) |
| Luminous Height | 0.33 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 10767 | 10932 | 10954 |
| 55 | 8776 | 8707 | 8815 |
| 65 | 7184 | 7293 | 7226 |
| 75 | 5784 | 5837 | 5974 |
| 85 | 4759 | 4684 | 4613 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKNDE1-RD4FMWSO-FACY4.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 6597.151 | 6597.151 | 6597.151 | 6597.151 | 6597.151 |
| 5 | 6134.307 | 6102.469 | 6092.955 | 6150.428 | 6130.348 |
| 10 | 4868.294 | 4911.126 | 4897.023 | 4898.581 | 4856.115 |
| 15 | 2721.263 | 2737.696 | 2723.850 | 2720.366 | 2759.513 |
| 20 | 1171.527 | 1176.101 | 1162.426 | 1164.569 | 1159.894 |
| 25 | 533.690 | 528.524 | 531.227 | 534.344 | 530.838 |
| 30 | 284.392 | 289.504 | 289.894 | 288.382 | 284.463 |
| 35 | 202.678 | 203.597 | 203.722 | 203.153 | 201.789 |
| 40 | 165.931 | 167.333 | 166.180 | 164.848 | 161.474 |
| 45 | 140.451 | 142.134 | 142.601 | 143.490 | 142.890 |
| 50 | 126.573 | 127.251 | 128.623 | 130.532 | 126.308 |
| 55 | 115.127 | 116.467 | 114.223 | 114.698 | 115.633 |
| 60 | 104.389 | 104.537 | 103.532 | 103.415 | 104.662 |
| 65 | 91.907 | 92.335 | 93.301 | 92.335 | 92.444 |
| 70 | 80.468 | 81.411 | 81.902 | 81.730 | 81.559 |
| 75 | 69.871 | 70.588 | 70.518 | 71.694 | 72.170 |
| 80 | 61.853 | 60.801 | 59.936 | 60.302 | 61.011 |
| 85 | 52.354 | 50.788 | 51.521 | 51.645 | 50.749 |
| 90 | 46.097 | 46.316 | 45.739 | 46.300 | 45.731 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKNDE1-RD4FMWSO-FACY4.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1319.36 | N.A. | 60.70 |
| 0-30 | 1601.26 | N.A. | 73.60 |
| 0-40 | 1735.11 | N.A. | 79.80 |
| 0-60 | 1950.42 | N.A. | 89.70 |
| 0-80 | 2117.33 | N.A. | 97.40 |
| 0-90 | 2174.44 | N.A. | 100.00 |
| 10-90 | 1628.49 | N.A. | 74.90 |
| 20-40 | 415.75 | N.A. | 19.10 |
| 20-50 | 527.47 | N.A. | 24.30 |
| 40-70 | 307.16 | N.A. | 14.10 |
| 60-80 | 166.91 | N.A. | 7.70 |
| 70-80 | 75.06 | N.A. | 3.50 |
| 80-90 | 57.11 | N.A. | 2.60 |
| 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 | 2174.44 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 545.95 |
| 10-20 | 773.41 |
| 20-30 | 281.90 |
| 30-40 | 133.85 |
| 40-50 | 111.72 |
| 50-60 | 103.59 |
| 60-70 | 91.85 |
| 70-80 | 75.06 |
| 80-90 | 57.11 |
| 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

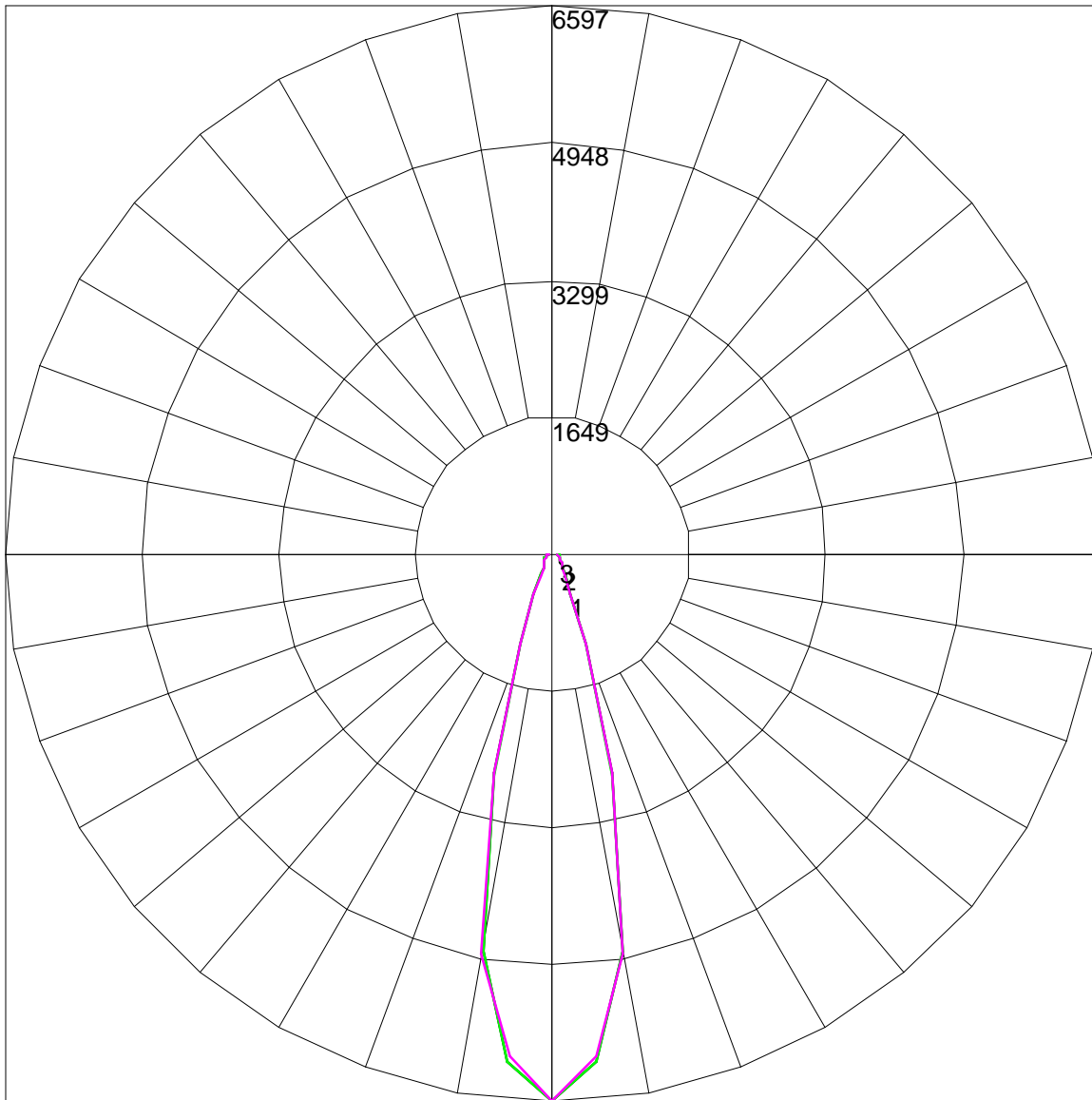
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 85 | 84 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 80 | 78 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 85 | 81 | 77 | 83 | 80 | 76 | 82 | 78 | 75 | 74 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 |
| 7 | 85 | 77 | 71 | 67 | 84 | 76 | 70 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 64 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 | 62 |
| 9 | 79 | 71 | 65 | 62 | 78 | 70 | 65 | 61 | 69 | 65 | 61 | 68 | 64 | 61 | 68 | 64 | 61 | 60 |
| 10 | 77 | 68 | 63 | 59 | 76 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 62 | 59 | 58 |

POLAR GRAPH



Maximum Candela = 6597.151 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)