

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDXX6XT-40LXXKNDE1-RD6XSGGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu Jun 25 2015

[UPDATE] Thu Jan 21 2016

[TEST] SP-00476_7_M-40L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDxx6LEDXT-40L-xxK-ND-E1-RD6x-SG-GLX

[LUMINAIRE] 6" aperture, Narrow Beam

[TRIM] Semi-diffuse, regressed clear glass lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: RDFO6 and RDZO6 series

[OTHER] For Trims: RD6F and RD6N series with GLX or GLW

[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 | 3411 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 85 |
| Total Luminaire Watts | 39.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.46 |
| Spacing Criterion (90-270) | 0.46 |
| Spacing Criterion (Diagonal) | 0.46 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.00 ft |
| Luminous Height | 0.00 ft |

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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 |

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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 | 12604.376 | 12604.376 | 12604.376 | 12604.376 | 12604.376 |
| 5 | 12032.235 | 12257.029 | 12170.943 | 12190.532 | 12288.961 |
| 10 | 9235.888 | 9249.217 | 9131.561 | 9212.287 | 9133.054 |
| 15 | 4983.794 | 4989.307 | 4960.047 | 5018.898 | 5018.090 |
| 20 | 2431.298 | 2435.063 | 2428.264 | 2425.361 | 2414.227 |
| 25 | 1504.495 | 1487.070 | 1513.597 | 1495.371 | 1510.178 |
| 30 | 915.522 | 908.315 | 928.735 | 920.905 | 915.900 |
| 35 | 111.034 | 108.793 | 111.712 | 111.234 | 108.616 |
| 40 | 12.074 | 14.230 | 13.529 | 11.773 | 11.943 |
| 45 | 3.534 | 3.873 | 3.203 | 4.058 | 3.942 |
| 50 | 1.933 | 2.233 | 2.179 | 2.425 | 2.064 |
| 55 | 0.801 | 0.916 | 0.785 | 0.901 | 0.839 |
| 60 | 0.485 | 0.577 | 0.678 | 0.439 | 0.485 |
| 65 | 0.200 | 0.400 | 0.231 | 0.508 | 0.223 |
| 70 | 0.177 | 0.254 | 0.285 | 0.192 | 0.316 |
| 75 | 0.154 | 0.139 | 0.115 | 0.293 | 0.216 |
| 80 | 0.038 | 0.108 | 0.054 | 0.046 | 0.062 |
| 85 | 0.139 | 0.046 | 0.000 | 0.038 | 0.000 |
| 90 | 0.000 | 0.046 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2514.69 | N.A. | 73.70 |
| 0-30 | 3232.9 | N.A. | 94.80 |
| 0-40 | 3404.97 | N.A. | 99.80 |
| 0-60 | 3410.23 | N.A. | 100.00 |
| 0-80 | 3410.77 | N.A. | 100.00 |
| 0-90 | 3410.81 | N.A. | 100.00 |
| 10-90 | 2349.19 | N.A. | 68.90 |
| 20-40 | 890.28 | N.A. | 26.10 |
| 20-50 | 894.55 | N.A. | 26.20 |
| 40-70 | 5.62 | N.A. | 0.20 |
| 60-80 | 0.54 | N.A. | 0.00 |
| 70-80 | 0.18 | N.A. | 0.00 |
| 80-90 | 0.04 | N.A. | 0.00 |
| 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 | 3410.81 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1061.62 |
| 10-20 | 1453.07 |
| 20-30 | 718.21 |
| 30-40 | 172.07 |
| 40-50 | 4.27 |
| 50-60 | 0.99 |
| 60-70 | 0.36 |
| 70-80 | 0.18 |
| 80-90 | 0.04 |
| 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 |

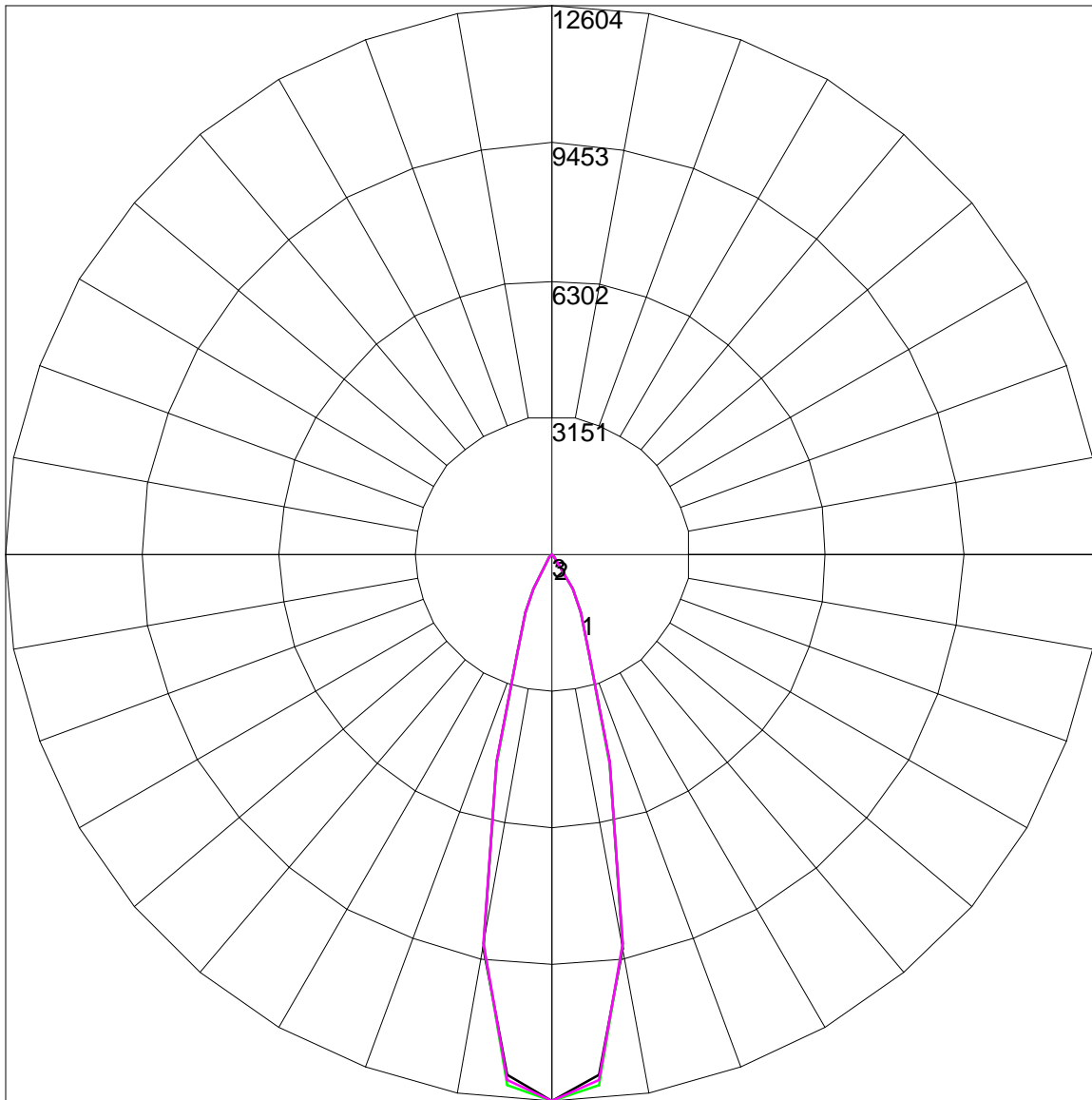
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 100 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 96 | 94 | 93 |
| 3 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 91 | 89 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 92 | 89 | 93 | 91 | 88 | 92 | 89 | 87 | 86 |
| 5 | 100 | 94 | 90 | 87 | 99 | 93 | 90 | 87 | 92 | 88 | 86 | 90 | 87 | 85 | 89 | 86 | 84 | 83 |
| 6 | 97 | 91 | 86 | 83 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | 88 | 84 | 82 | 86 | 84 | 82 | 80 |
| 7 | 94 | 88 | 83 | 80 | 93 | 87 | 83 | 80 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 |
| 8 | 92 | 85 | 80 | 77 | 91 | 84 | 80 | 77 | 83 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 76 | 75 |
| 9 | 89 | 82 | 78 | 75 | 88 | 82 | 77 | 75 | 81 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |
| 10 | 86 | 79 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 72 | 71 |

POLAR GRAPH



Maximum Candela = 12604.376 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)