

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00580_5 ~ C0310XT-10LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00580_5
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 10/18/2017
[UPDATE] 2/7/2018
[LUMCAT] C0310XT-10L-xxK-ND-EX-GL-xx-MW (Downlight Only)
[LUMINAIRE] Nom. 3" Diam. x 10" H Direct Cylinder
[OTHER] This file is for Downlight Only;
[OTHER] To be used w/ companion uplight only file: SP-00623 series
[OTHER] This allows separate Up/Down Illumination Calcs to be run
[OTHER] Medium Beam, Clear Glass Lens
[OTHER] Downlight: 24.5 Degree Beam Angle
[OTHER] Trim: Matte White
[LAMP] N/A
[LAMPCAT] N/A, 19mm LES
[OTHER] Used .88 multiplier to convert 'NL' candela values to 'GL'
[OTHER] in original IES file
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 595 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 65 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.42 |
| Spacing Criterion (90-270) | 0.42 |
| Spacing Criterion (Diagonal) | 0.42 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.21 ft (Diameter) |
| Luminous Width (90-270) | 0.21 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00580_5 ~ C0310XT-10LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 514 | 663 | 621 |
| 55 | 715 | 603 | 775 |
| 65 | 997 | 1033 | 851 |
| 75 | 1346 | 1543 | 1355 |
| 85 | 2745 | 4354 | 3530 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00580_5 ~ C0310XT-10LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 2473.967 | 2473.967 | 2473.967 | 2473.967 | 2473.967 |
| 2.5 | 2390.990 | 2407.501 | 2405.840 | 2412.634 | 2387.295 |
| 5.0 | 2308.013 | 2341.035 | 2337.713 | 2351.299 | 2300.622 |
| 7.5 | 1959.941 | 2004.577 | 1957.735 | 1977.533 | 1912.041 |
| 10.0 | 1611.869 | 1668.117 | 1577.756 | 1603.767 | 1523.460 |
| 12.5 | 1194.110 | 1240.334 | 1183.013 | 1209.114 | 1155.341 |
| 15.0 | 776.351 | 812.550 | 788.270 | 814.461 | 787.222 |
| 17.5 | 619.738 | 649.200 | 630.222 | 649.147 | 626.697 |
| 20.0 | 463.125 | 485.850 | 472.173 | 483.832 | 466.171 |
| 22.5 | 363.960 | 383.676 | 372.354 | 383.009 | 366.839 |
| 25.0 | 264.796 | 281.503 | 272.535 | 282.184 | 267.506 |
| 27.5 | 186.685 | 201.733 | 193.458 | 202.635 | 190.931 |
| 30.0 | 108.574 | 121.962 | 114.381 | 123.086 | 114.356 |
| 32.5 | 60.048 | 68.628 | 62.536 | 69.008 | 65.820 |
| 35.0 | 11.522 | 15.294 | 10.691 | 14.929 | 17.284 |
| 37.5 | 6.442 | 8.436 | 6.002 | 8.188 | 9.394 |
| 40.0 | 1.361 | 1.577 | 1.313 | 1.448 | 1.503 |
| 42.5 | 1.256 | 1.416 | 1.397 | 1.580 | 1.445 |
| 45.0 | 1.149 | 1.255 | 1.482 | 1.711 | 1.387 |
| 47.5 | 1.266 | 1.210 | 1.403 | 1.434 | 1.279 |
| 50.0 | 1.382 | 1.165 | 1.324 | 1.158 | 1.170 |
| 52.5 | 1.339 | 1.221 | 1.208 | 1.228 | 1.288 |
| 55.0 | 1.296 | 1.275 | 1.092 | 1.297 | 1.405 |
| 57.5 | 1.206 | 1.344 | 1.123 | 1.131 | 1.328 |
| 60.0 | 1.115 | 1.412 | 1.153 | 0.964 | 1.250 |
| 62.5 | 1.224 | 1.258 | 1.266 | 0.994 | 1.193 |
| 65.0 | 1.332 | 1.104 | 1.380 | 1.024 | 1.136 |
| 67.5 | 1.352 | 1.111 | 1.272 | 1.165 | 1.236 |
| 70.0 | 1.371 | 1.119 | 1.163 | 1.306 | 1.337 |
| 72.5 | 1.236 | 1.184 | 1.213 | 1.374 | 1.222 |
| 75.0 | 1.101 | 1.248 | 1.262 | 1.441 | 1.108 |
| 77.5 | 1.148 | 1.250 | 1.179 | 1.363 | 1.279 |
| 80.0 | 1.194 | 1.253 | 1.096 | 1.285 | 1.448 |
| 82.5 | 0.975 | 1.134 | 1.148 | 1.168 | 1.210 |
| 85.0 | 0.756 | 1.015 | 1.199 | 1.050 | 0.972 |
| 87.5 | 0.722 | 1.078 | 1.113 | 0.771 | 1.146 |
| 90.0 | 0.686 | 1.141 | 1.027 | 0.492 | 1.320 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00580_5 ~ C0310XT-10LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 440.22 | N.A. | 73.90 |
| 0-30 | 567.92 | N.A. | 95.40 |
| 0-40 | 589.55 | N.A. | 99.00 |
| 0-60 | 591.72 | N.A. | 99.40 |
| 0-80 | 594.23 | N.A. | 99.80 |
| 0-90 | 595.38 | N.A. | 100.00 |
| 10-90 | 399.62 | N.A. | 67.10 |
| 20-40 | 149.32 | N.A. | 25.10 |
| 20-50 | 150.39 | N.A. | 25.30 |
| 40-70 | 3.36 | N.A. | 0.60 |
| 60-80 | 2.51 | N.A. | 0.40 |
| 70-80 | 1.32 | N.A. | 0.20 |
| 80-90 | 1.15 | N.A. | 0.20 |
| 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 | 595.38 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 195.76 |
| 10-20 | 244.46 |
| 20-30 | 127.69 |
| 30-40 | 21.63 |
| 40-50 | 1.07 |
| 50-60 | 1.10 |
| 60-70 | 1.19 |
| 70-80 | 1.32 |
| 80-90 | 1.15 |
| 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

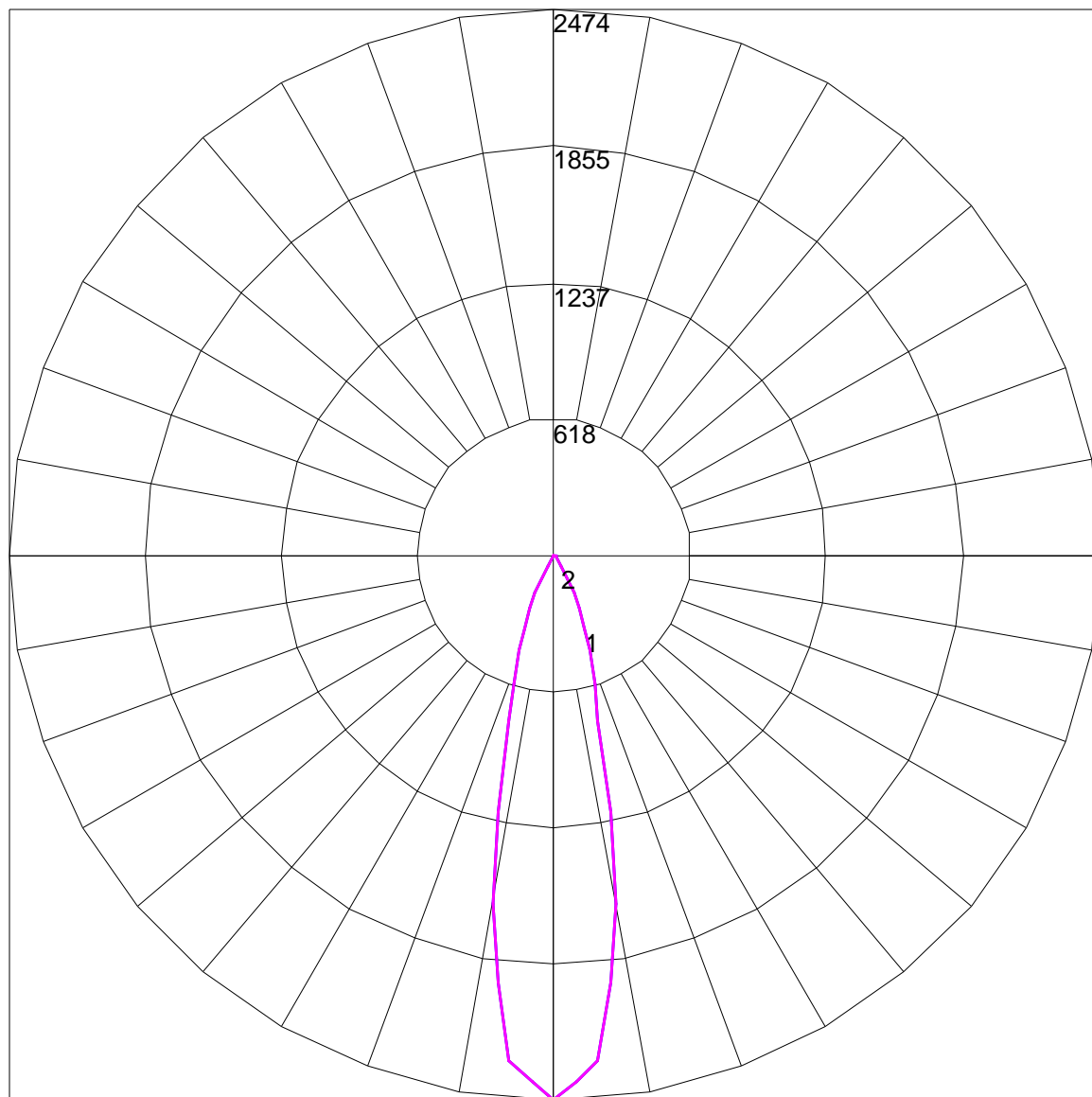
Effective Floor Cavity Reflectance 0.20

| 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 | 112 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 106 | 103 | 100 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 95 | 94 | 93 |
| 3 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 93 | 96 | 94 | 92 | 94 | 92 | 91 | 89 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 92 | 89 | 93 | 91 | 88 | 92 | 89 | 88 | 86 |
| 5 | 101 | 94 | 90 | 87 | 99 | 94 | 90 | 87 | 92 | 89 | 86 | 90 | 88 | 85 | 89 | 87 | 85 | 83 |
| 6 | 97 | 91 | 87 | 84 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 81 |
| 7 | 95 | 88 | 84 | 81 | 93 | 87 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 |
| 8 | 92 | 85 | 81 | 78 | 91 | 85 | 80 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 77 | 76 |
| 9 | 89 | 82 | 78 | 75 | 88 | 82 | 78 | 75 | 81 | 78 | 75 | 80 | 77 | 75 | 80 | 77 | 75 | 74 |
| 10 | 87 | 80 | 76 | 73 | 86 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 78 | 75 | 72 | 71 |

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POLAR GRAPH



Maximum Candela = 2473.967 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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