



IES INDOOR REPORT

PHOTOMETRIC FILENAME : STSQ-LED35-LO-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R02
 [TESTLAB]
 [ISSUEDATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] STSQ-LED35-LO-CW
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] LEDS WITH OPTICS
 [BALLASTCAT] OSRAM OPTOTRONIC

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 930 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 116 |
| Total Luminaire Watts | 8 |
| Ballast Factor | 1.00 |
| CIE Type | Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.33 ft |
| Luminous Width (90-270) | 3.94 ft |
| Luminous Height | 0.00 ft |

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</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 44.787 | 46.470 | 50.556 | 59.021 | 71.671 | 89.661 | 107.987 | 113.135 | 96.712 | 66.044 |
| 100 | 264.930 | 270.644 | 277.981 | 287.865 | 291.418 | 276.166 | 233.580 | 175.258 | 117.139 | 67.656 |
| 105 | 320.997 | 319.517 | 310.899 | 296.665 | 271.711 | 236.852 | 196.405 | 156.415 | 117.931 | 80.856 |
| 110 | 316.679 | 314.023 | 305.168 | 289.047 | 264.292 | 233.145 | 197.846 | 162.058 | 129.305 | 99.842 |
| 115 | 302.324 | 299.299 | 291.852 | 276.100 | 255.442 | 230.214 | 200.860 | 171.127 | 143.176 | 119.675 |
| 120 | 293.359 | 291.038 | 283.558 | 271.062 | 253.253 | 231.556 | 207.240 | 181.979 | 157.779 | 137.176 |
| 125 | 288.371 | 286.440 | 279.208 | 268.428 | 253.781 | 235.400 | 214.572 | 192.352 | 171.622 | 152.895 |
| 130 | 282.387 | 280.665 | 274.775 | 264.396 | 251.686 | 236.533 | 218.169 | 199.562 | 181.660 | 165.869 |
| 135 | 272.041 | 270.188 | 265.205 | 256.295 | 245.603 | 232.458 | 217.212 | 201.773 | 187.215 | 174.658 |
| 140 | 256.174 | 253.996 | 249.156 | 242.490 | 234.289 | 223.900 | 211.998 | 200.772 | 189.712 | 180.098 |
| 145 | 237.111 | 235.637 | 232.029 | 227.172 | 221.221 | 213.813 | 205.970 | 198.000 | 190.020 | 182.562 |
| 150 | 220.512 | 219.362 | 217.124 | 214.214 | 210.705 | 205.920 | 200.695 | 195.025 | 189.365 | 183.189 |
| 155 | 208.984 | 208.599 | 207.070 | 204.969 | 202.686 | 199.716 | 196.075 | 191.901 | 187.671 | 182.903 |
| 160 | 199.804 | 200.217 | 198.864 | 197.648 | 196.136 | 194.095 | 191.450 | 188.617 | 185.625 | 182.314 |
| 165 | 192.280 | 192.236 | 191.477 | 190.691 | 189.651 | 188.463 | 186.874 | 185.169 | 183.420 | 181.616 |
| 170 | 186.346 | 186.120 | 185.306 | 185.213 | 184.756 | 184.327 | 183.739 | 182.925 | 182.281 | 181.539 |
| 175 | 183.002 | 182.397 | 182.611 | 182.281 | 182.166 | 182.193 | 182.342 | 182.171 | 182.061 | 181.869 |
| 180 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 |

Vert. Angles **Horizontal Angles**

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 39.160 | 24.635 | 17.892 | 14.933 | 13.789 | 13.651 | 12.601 | 9.449 | 7.843 |
| 100 | 50.215 | 37.499 | 32.714 | 30.883 | 29.387 | 26.752 | 23.309 | 19.465 | 17.529 |
| 105 | 65.824 | 53.856 | 48.147 | 45.221 | 42.873 | 39.650 | 35.090 | 30.861 | 29.062 |
| 110 | 81.450 | 71.819 | 65.632 | 62.128 | 58.630 | 53.592 | 47.938 | 43.615 | 41.899 |
| 115 | 101.354 | 91.102 | 85.602 | 80.548 | 74.690 | 67.821 | 61.633 | 57.371 | 55.820 |
| 120 | 121.490 | 111.051 | 102.861 | 95.794 | 89.117 | 81.615 | 75.268 | 71.176 | 69.729 |
| 125 | 138.578 | 128.145 | 119.664 | 111.557 | 102.157 | 94.556 | 89.161 | 85.294 | 84.046 |
| 130 | 153.274 | 143.116 | 134.255 | 125.433 | 116.694 | 108.229 | 102.498 | 99.484 | 98.390 |
| 135 | 164.021 | 154.688 | 145.932 | 136.901 | 128.332 | 121.094 | 115.555 | 112.343 | 111.419 |
| 140 | 171.111 | 162.558 | 154.264 | 145.640 | 137.902 | 131.351 | 126.632 | 123.877 | 123.096 |
| 145 | 174.856 | 167.492 | 159.902 | 152.521 | 145.987 | 140.712 | 136.895 | 134.811 | 134.228 |
| 150 | 176.946 | 170.676 | 164.412 | 158.472 | 153.516 | 149.496 | 146.872 | 145.349 | 144.920 |
| 155 | 177.942 | 173.360 | 168.531 | 164.439 | 160.996 | 157.993 | 156.189 | 155.375 | 155.089 |
| 160 | 178.921 | 175.907 | 172.794 | 170.049 | 167.750 | 165.600 | 164.747 | 164.186 | 164.164 |
| 165 | 179.856 | 177.931 | 176.440 | 174.884 | 173.443 | 172.304 | 171.853 | 171.424 | 171.226 |
| 170 | 180.477 | 179.966 | 179.311 | 178.470 | 177.766 | 176.930 | 176.985 | 176.814 | 176.891 |
| 175 | 181.506 | 181.390 | 180.978 | 180.697 | 180.477 | 179.812 | 179.933 | 180.026 | 179.894 |
| 180 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 | 181.500 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 0.00 | N.A. | 0.00 |
| 0-30 | 0.00 | N.A. | 0.00 |
| 0-40 | 0.00 | N.A. | 0.00 |
| 0-60 | 0.00 | N.A. | 0.00 |
| 0-80 | 0.00 | N.A. | 0.00 |
| 0-90 | 0.00 | N.A. | 0.00 |
| 10-90 | 0.00 | N.A. | 0.00 |
| 20-40 | 0.00 | N.A. | 0.00 |
| 20-50 | 0.00 | N.A. | 0.00 |
| 40-70 | 0.00 | N.A. | 0.00 |
| 60-80 | 0.00 | N.A. | 0.00 |
| 70-80 | 0.00 | N.A. | 0.00 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 90-110 | 210.84 | N.A. | 22.70 |
| 90-120 | 364.85 | N.A. | 39.20 |
| 90-130 | 519.39 | N.A. | 55.80 |
| 90-150 | 776.93 | N.A. | 83.50 |
| 90-180 | 930.09 | N.A. | 100.00 |
| 110-180 | 719.25 | N.A. | 77.30 |
| 0-180 | 930.09 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.00 |
| 10-20 | 0.00 |
| 20-30 | 0.00 |
| 30-40 | 0.00 |
| 40-50 | 0.00 |
| 50-60 | 0.00 |
| 60-70 | 0.00 |
| 70-80 | 0.00 |
| 80-90 | 0.00 |
| 90-100 | 62.55 |
| 100-110 | 148.29 |
| 110-120 | 154.01 |
| 120-130 | 154.54 |
| 130-140 | 142.14 |
| 140-150 | 115.40 |
| 150-160 | 84.33 |
| 160-170 | 51.51 |
| 170-180 | 17.32 |

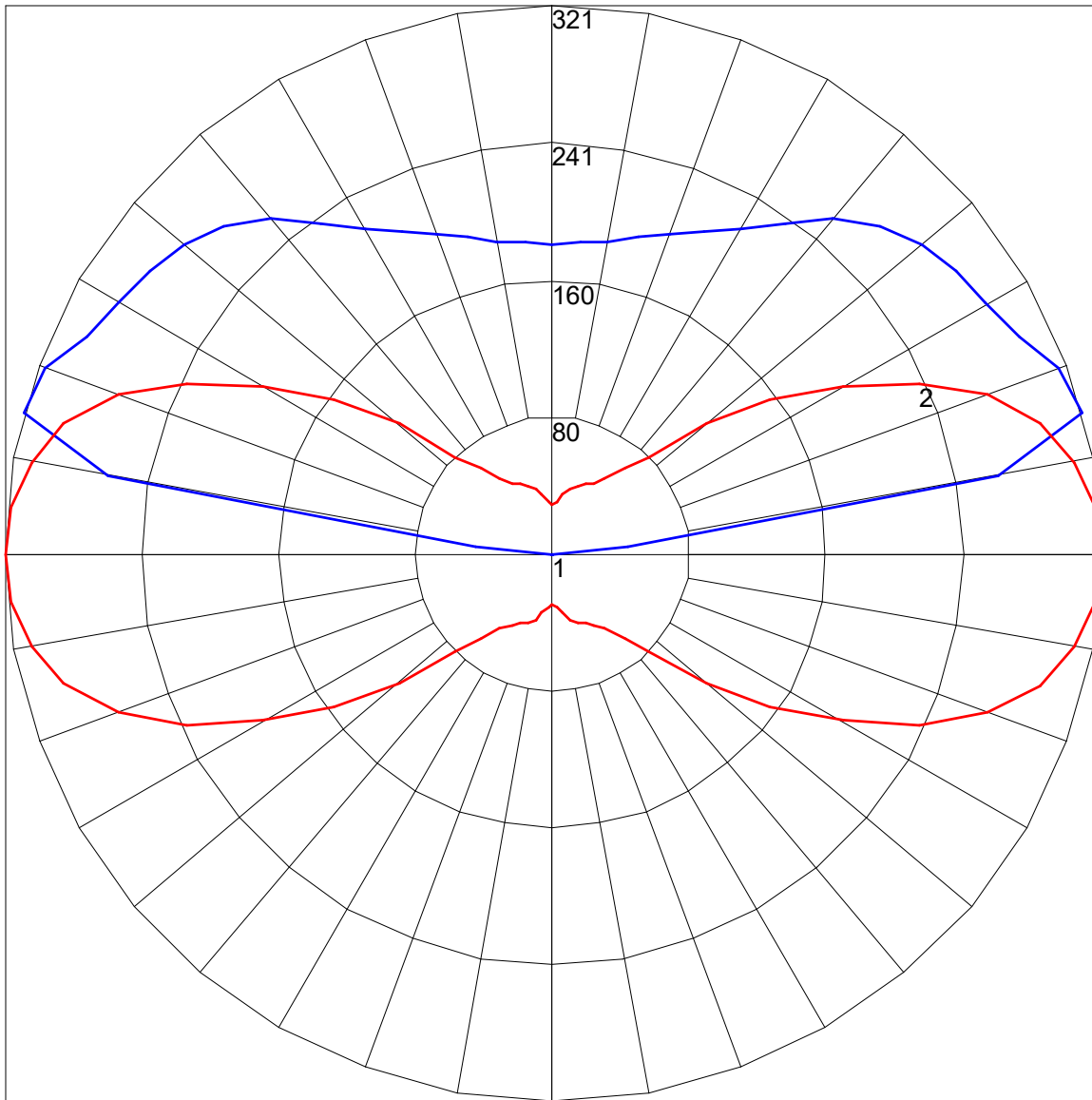
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 28 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

POLAR GRAPH



Maximum Candela = 320.997 Located At Horizontal Angle = 0, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)