



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDLRK4-LED-20L-FL-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-9920
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 09/25/19
[TEST DATE] 03/20/18
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] SDLRK4-LED-20L-FL-35
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2015 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 133 |
| Total Luminaire Watts | 15.2 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.25 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4967 | 3239 | 3034 |
| 55 | 4665 | 2822 | 2710 |
| 65 | 4196 | 2417 | 2403 |
| 75 | 3369 | 2032 | 2107 |
| 85 | 1583 | 1725 | 1886 |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 491 | 491 | 491 | 491 | 491 |
| 2.5 | 504 | 495 | 492 | 488 | 483 |
| 5.0 | 504 | 495 | 491 | 488 | 483 |
| 7.5 | 503 | 495 | 491 | 488 | 484 |
| 10.0 | 501 | 493 | 489 | 487 | 483 |
| 12.5 | 497 | 489 | 487 | 485 | 482 |
| 15.0 | 492 | 485 | 484 | 483 | 480 |
| 17.5 | 487 | 480 | 480 | 480 | 477 |
| 20.0 | 479 | 474 | 474 | 476 | 475 |
| 22.5 | 471 | 466 | 468 | 471 | 470 |
| 25.0 | 462 | 459 | 462 | 467 | 466 |
| 27.5 | 451 | 449 | 454 | 460 | 460 |
| 30.0 | 439 | 438 | 445 | 453 | 454 |
| 32.5 | 426 | 427 | 435 | 445 | 446 |
| 35.0 | 412 | 414 | 425 | 436 | 438 |
| 37.5 | 397 | 400 | 413 | 427 | 429 |
| 40.0 | 382 | 386 | 401 | 417 | 420 |
| 42.5 | 365 | 370 | 387 | 405 | 409 |
| 45.0 | 347 | 353 | 373 | 394 | 399 |
| 47.5 | 328 | 336 | 358 | 382 | 388 |
| 50.0 | 309 | 319 | 342 | 368 | 376 |
| 52.5 | 292 | 301 | 327 | 355 | 363 |
| 55.0 | 271 | 283 | 312 | 341 | 351 |
| 57.5 | 251 | 265 | 296 | 327 | 338 |
| 60.0 | 230 | 245 | 280 | 312 | 324 |
| 62.5 | 209 | 226 | 263 | 298 | 311 |
| 65.0 | 187 | 206 | 248 | 283 | 297 |
| 67.5 | 165 | 187 | 232 | 269 | 282 |
| 70.0 | 143 | 169 | 216 | 254 | 268 |
| 72.5 | 121 | 151 | 201 | 240 | 255 |
| 75.0 | 100 | 134 | 186 | 226 | 240 |
| 77.5 | 79 | 117 | 172 | 212 | 227 |
| 80.0 | 58 | 102 | 158 | 199 | 213 |
| 82.5 | 39 | 88 | 146 | 187 | 202 |
| 85.0 | 22 | 74 | 134 | 175 | 190 |
| 87.5 | 9 | 63 | 122 | 164 | 179 |
| 90.0 | 2 | 53 | 111 | 153 | 167 |
| 92.5 | 1 | 45 | 101 | 141 | 155 |
| 95.0 | 1 | 37 | 91 | 129 | 143 |
| 97.5 | 1 | 31 | 82 | 119 | 132 |
| 100.0 | 1 | 26 | 73 | 109 | 122 |
| 102.5 | 1 | 21 | 66 | 100 | 113 |
| 105.0 | 1 | 18 | 58 | 92 | 104 |
| 107.5 | 1 | 15 | 52 | 83 | 95 |
| 110.0 | 1 | 12 | 46 | 75 | 86 |
| 112.5 | 0 | 10 | 41 | 68 | 78 |
| 115.0 | 1 | 9 | 36 | 61 | 71 |
| 117.5 | 1 | 7 | 31 | 55 | 64 |
| 120.0 | 1 | 6 | 27 | 49 | 58 |
| 122.5 | 0 | 5 | 24 | 43 | 51 |
| 125.0 | 0 | 4 | 20 | 38 | 45 |
| 127.5 | 0 | 3 | 18 | 33 | 40 |
| 130.0 | 0 | 3 | 15 | 29 | 35 |
| 132.5 | 1 | 2 | 13 | 25 | 30 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---|---|----|----|----|
| 135.0 | 0 | 2 | 11 | 22 | 26 |
| 137.5 | 0 | 1 | 9 | 18 | 22 |
| 140.0 | 1 | 1 | 7 | 15 | 19 |
| 142.5 | 0 | 1 | 6 | 13 | 15 |
| 145.0 | 0 | 0 | 5 | 10 | 13 |
| 147.5 | 1 | 0 | 4 | 8 | 10 |
| 150.0 | 1 | 1 | 3 | 6 | 8 |
| 152.5 | 1 | 1 | 2 | 5 | 6 |
| 155.0 | 1 | 1 | 1 | 4 | 4 |
| 157.5 | 1 | 0 | 1 | 2 | 3 |
| 160.0 | 1 | 0 | 0 | 1 | 2 |
| 162.5 | 1 | 0 | 0 | 1 | 1 |
| 165.0 | 1 | 0 | 0 | 0 | 0 |
| 167.5 | 1 | 0 | 0 | 0 | 0 |
| 170.0 | 1 | 1 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 1 | 0 | 0 | 0 | 0 |
| 177.5 | 1 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 183.86 | N.A. | 9.10 |
| 0-30 | 397.19 | N.A. | 19.70 |
| 0-40 | 663.22 | N.A. | 32.90 |
| 0-60 | 1230.14 | N.A. | 61.10 |
| 0-80 | 1662.19 | N.A. | 82.50 |
| 0-90 | 1796.57 | N.A. | 89.20 |
| 10-90 | 1749.65 | N.A. | 86.80 |
| 20-40 | 479.36 | N.A. | 23.80 |
| 20-50 | 767.44 | N.A. | 38.10 |
| 40-70 | 809.48 | N.A. | 40.20 |
| 60-80 | 432.05 | N.A. | 21.40 |
| 70-80 | 189.49 | N.A. | 9.40 |
| 80-90 | 134.38 | N.A. | 6.70 |
| 90-110 | 149.24 | N.A. | 7.40 |
| 90-120 | 184.67 | N.A. | 9.20 |
| 90-130 | 204.06 | N.A. | 10.10 |
| 90-150 | 217.01 | N.A. | 10.80 |
| 90-180 | 218.12 | N.A. | 10.80 |
| 110-180 | 68.88 | N.A. | 3.40 |
| 0-180 | 2014.69 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 46.92 |
| 10-20 | 136.94 |
| 20-30 | 213.33 |
| 30-40 | 266.04 |
| 40-50 | 288.07 |
| 50-60 | 278.85 |
| 60-70 | 242.56 |
| 70-80 | 189.49 |
| 80-90 | 134.38 |
| 90-100 | 90.60 |
| 100-110 | 58.64 |
| 110-120 | 35.43 |
| 120-130 | 19.39 |
| 130-140 | 9.34 |
| 140-150 | 3.60 |
| 150-160 | 1.01 |
| 160-170 | 0.10 |
| 170-180 | 0.01 |

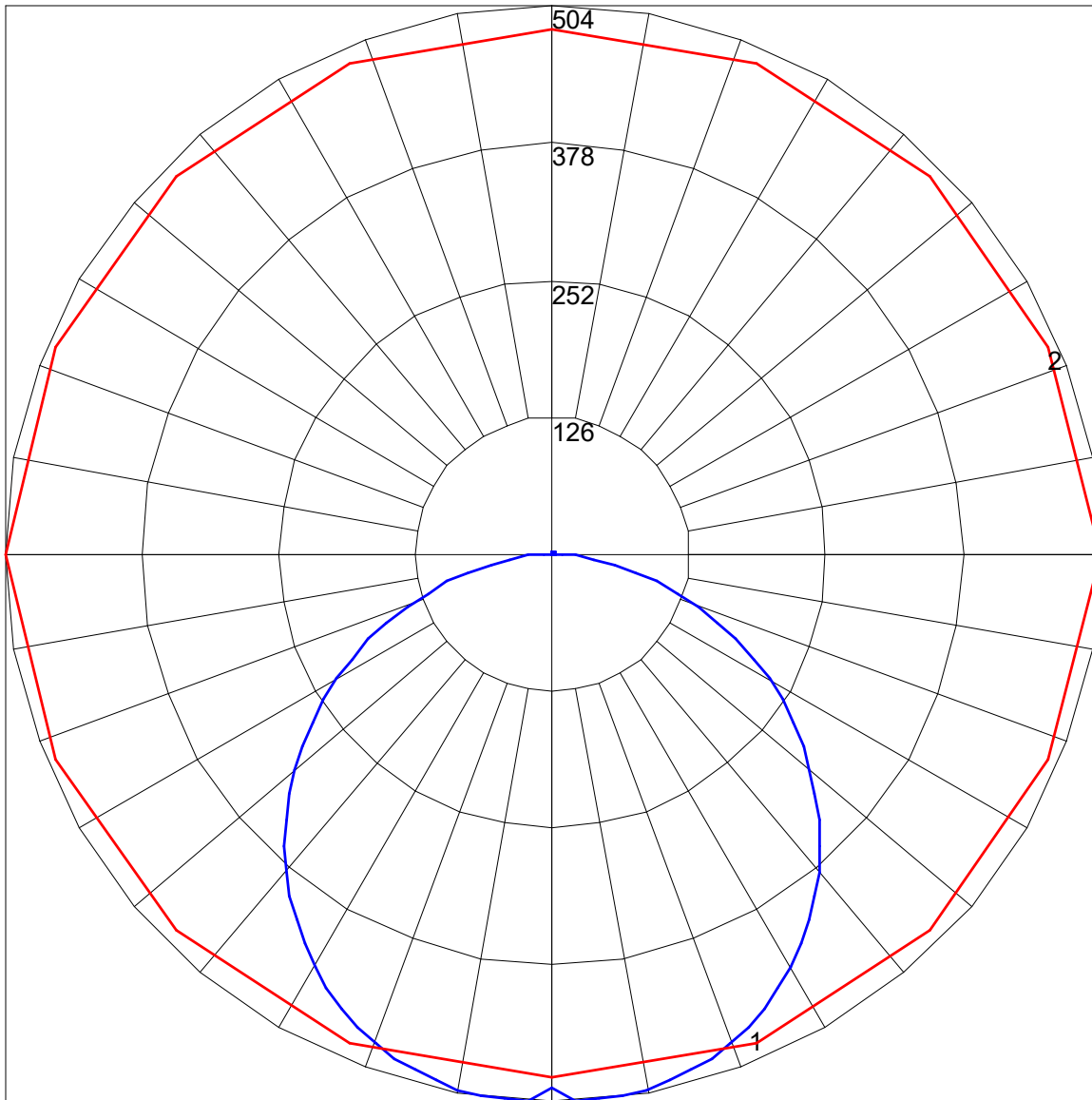
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 104 | 98 | 93 | 88 | 100 | 94 | 90 | 85 | 88 | 84 | 81 | 82 | 79 | 76 | 77 | 74 | 72 | 69 |
| 2 | 93 | 84 | 76 | 70 | 89 | 81 | 74 | 68 | 76 | 70 | 65 | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3 | 84 | 73 | 64 | 57 | 81 | 70 | 62 | 56 | 66 | 59 | 53 | 62 | 56 | 51 | 58 | 53 | 49 | 46 |
| 4 | 77 | 64 | 55 | 47 | 74 | 62 | 53 | 46 | 58 | 51 | 45 | 54 | 48 | 43 | 51 | 46 | 41 | 38 |
| 5 | 71 | 57 | 47 | 40 | 68 | 55 | 46 | 40 | 52 | 44 | 38 | 49 | 42 | 37 | 46 | 40 | 35 | 33 |
| 6 | 65 | 51 | 42 | 35 | 62 | 49 | 41 | 34 | 46 | 39 | 33 | 44 | 37 | 32 | 41 | 35 | 31 | 28 |
| 7 | 60 | 46 | 37 | 31 | 58 | 45 | 36 | 30 | 42 | 35 | 29 | 40 | 33 | 28 | 37 | 32 | 27 | 25 |
| 8 | 56 | 42 | 33 | 27 | 54 | 41 | 32 | 27 | 38 | 31 | 26 | 36 | 30 | 25 | 34 | 29 | 24 | 22 |
| 9 | 52 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 35 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 20 |
| 10 | 49 | 35 | 27 | 22 | 47 | 34 | 27 | 21 | 33 | 26 | 21 | 31 | 25 | 20 | 29 | 24 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 504 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)