



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-20L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9738
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/2018
[TEST DATE]02/19/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]S4-LED-20L-50
[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 | 2156 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 150 |
| Total Luminaire Watts | 14.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.40 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7939 | 7711 | 7513 |
| 55 | 8006 | 7668 | 7462 |
| 65 | 7786 | 7328 | 7125 |
| 75 | 6856 | 6399 | 6357 |
| 85 | 4812 | 5059 | 4935 |

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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 | 659 | 659 | 659 | 659 | 659 |
| 2.5 | 675 | 663 | 659 | 654 | 647 |
| 5.0 | 676 | 664 | 659 | 654 | 648 |
| 7.5 | 675 | 664 | 659 | 654 | 647 |
| 10.0 | 673 | 663 | 657 | 652 | 644 |
| 12.5 | 671 | 661 | 654 | 649 | 643 |
| 15.0 | 668 | 658 | 651 | 645 | 640 |
| 17.5 | 664 | 654 | 647 | 641 | 635 |
| 20.0 | 659 | 649 | 641 | 635 | 630 |
| 22.5 | 653 | 641 | 633 | 628 | 623 |
| 25.0 | 643 | 635 | 626 | 620 | 614 |
| 27.5 | 634 | 626 | 616 | 610 | 604 |
| 30.0 | 623 | 614 | 605 | 599 | 592 |
| 32.5 | 610 | 602 | 592 | 586 | 581 |
| 35.0 | 597 | 589 | 579 | 573 | 567 |
| 37.5 | 581 | 574 | 563 | 557 | 552 |
| 40.0 | 563 | 556 | 546 | 539 | 533 |
| 42.5 | 542 | 538 | 527 | 522 | 515 |
| 45.0 | 522 | 518 | 507 | 501 | 494 |
| 47.5 | 500 | 495 | 485 | 479 | 472 |
| 50.0 | 477 | 472 | 462 | 457 | 449 |
| 52.5 | 452 | 446 | 436 | 431 | 425 |
| 55.0 | 427 | 420 | 409 | 404 | 398 |
| 57.5 | 399 | 392 | 380 | 375 | 370 |
| 60.0 | 370 | 362 | 350 | 343 | 339 |
| 62.5 | 338 | 330 | 320 | 312 | 310 |
| 65.0 | 306 | 298 | 288 | 281 | 280 |
| 67.5 | 271 | 263 | 255 | 249 | 248 |
| 70.0 | 236 | 229 | 220 | 217 | 215 |
| 72.5 | 199 | 192 | 187 | 184 | 184 |
| 75.0 | 165 | 158 | 154 | 153 | 153 |
| 77.5 | 131 | 124 | 122 | 121 | 122 |
| 80.0 | 98 | 94 | 92 | 92 | 92 |
| 82.5 | 68 | 65 | 65 | 63 | 65 |
| 85.0 | 39 | 40 | 41 | 39 | 40 |
| 87.5 | 18 | 19 | 21 | 19 | 16 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 247.31 | N.A. | 11.50 |
| 0-30 | 536.65 | N.A. | 24.90 |
| 0-40 | 899.75 | N.A. | 41.70 |
| 0-60 | 1658.6 | N.A. | 76.90 |
| 0-80 | 2109.66 | N.A. | 97.90 |
| 0-90 | 2156.01 | N.A. | 100.00 |
| 10-90 | 2093.09 | N.A. | 97.10 |
| 20-40 | 652.43 | N.A. | 30.30 |
| 20-50 | 1044.38 | N.A. | 48.40 |
| 40-70 | 1044.84 | N.A. | 48.50 |
| 60-80 | 451.06 | N.A. | 20.90 |
| 70-80 | 165.08 | N.A. | 7.70 |
| 80-90 | 46.35 | N.A. | 2.10 |
| 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 | 2156.01 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 62.92 |
| 10-20 | 184.40 |
| 20-30 | 289.33 |
| 30-40 | 363.10 |
| 40-50 | 391.95 |
| 50-60 | 366.90 |
| 60-70 | 285.99 |
| 70-80 | 165.08 |
| 80-90 | 46.35 |
| 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 |

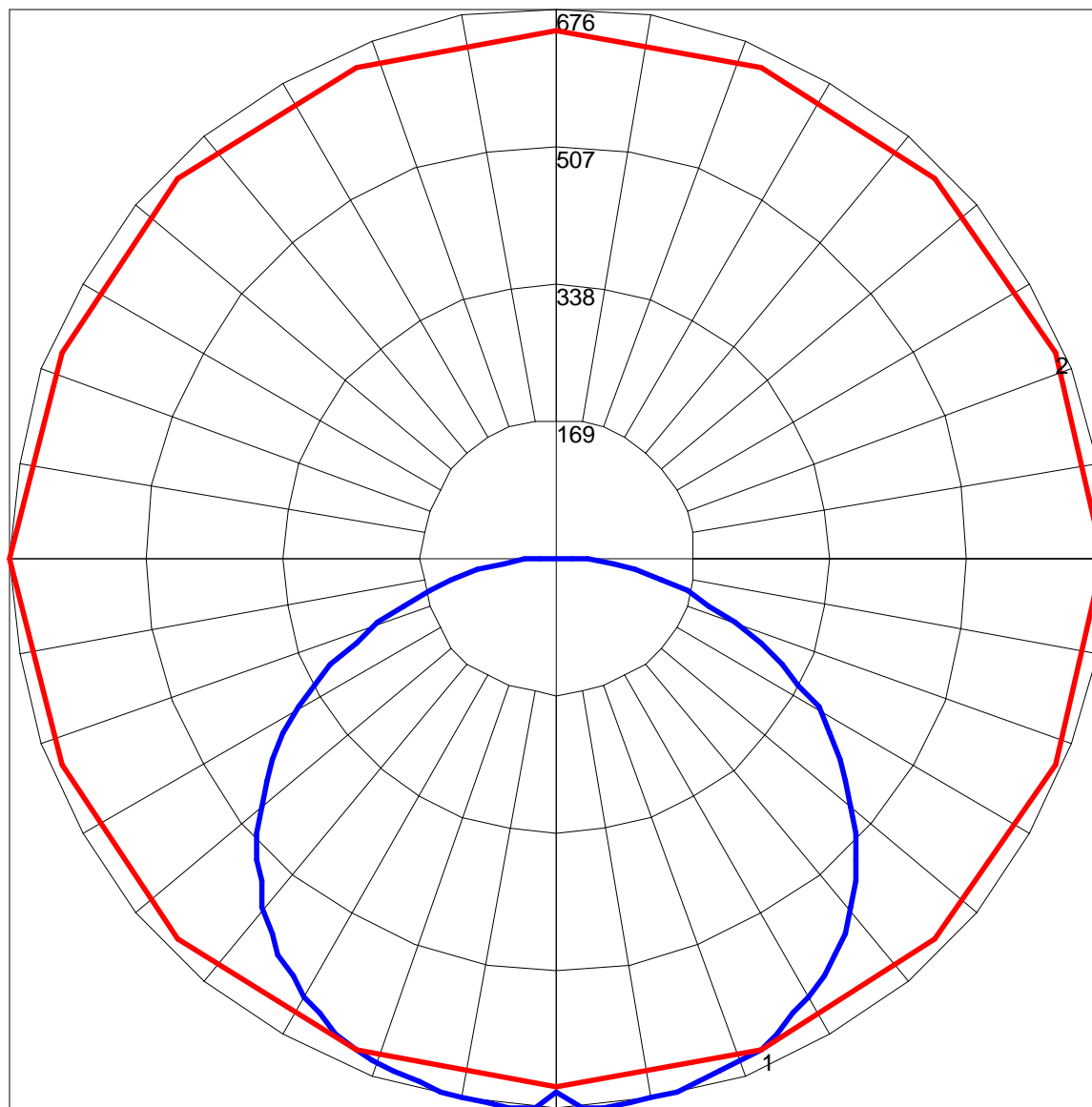
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 82 | 76 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 62 | 74 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 31 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 23 |

POLAR GRAPH



Maximum Candela = 676 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)