



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZUS-PRO-22-LED4-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101409101
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 10/30/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZDS-22-LED4-LO
 [LUMINAIRE] 26"SQ. X 3"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC,
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4295 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 139 |
| Total Luminaire Watts | 31 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 2.17 ft |
| Luminous Width (90-270) | 2.17 ft |
| Luminous Height | 0.10 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 176 | 215 | 173 |
| 55 | 243 | 310 | 243 |
| 65 | 369 | 488 | 393 |
| 75 | 595 | 745 | 655 |
| 85 | 1630 | 1652 | 1219 |

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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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 21 | 21 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 |
| 10 | 24 | 24 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 |
| 15 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 |
| 20 | 33 | 33 | 33 | 34 | 34 | 35 | 36 | 36 | 37 | 37 |
| 25 | 37 | 38 | 38 | 39 | 40 | 41 | 41 | 41 | 42 | 42 |
| 30 | 42 | 42 | 43 | 45 | 46 | 47 | 48 | 48 | 48 | 48 |
| 35 | 48 | 49 | 50 | 51 | 52 | 54 | 55 | 55 | 56 | 56 |
| 40 | 52 | 53 | 54 | 57 | 59 | 61 | 62 | 63 | 64 | 65 |
| 45 | 57 | 58 | 60 | 62 | 64 | 66 | 69 | 71 | 72 | 71 |
| 50 | 60 | 61 | 63 | 66 | 69 | 72 | 74 | 76 | 77 | 78 |
| 55 | 65 | 66 | 68 | 71 | 74 | 78 | 81 | 83 | 84 | 85 |
| 60 | 72 | 73 | 76 | 79 | 82 | 85 | 88 | 91 | 93 | 93 |
| 65 | 75 | 76 | 80 | 85 | 89 | 94 | 97 | 100 | 102 | 103 |
| 70 | 62 | 64 | 69 | 75 | 82 | 89 | 96 | 102 | 107 | 109 |
| 75 | 79 | 81 | 84 | 88 | 93 | 96 | 99 | 100 | 101 | 105 |
| 80 | 102 | 102 | 105 | 109 | 113 | 117 | 120 | 122 | 123 | 120 |
| 85 | 95 | 96 | 98 | 102 | 106 | 109 | 112 | 113 | 112 | 110 |
| 90 | 88 | 89 | 92 | 97 | 102 | 106 | 110 | 114 | 115 | 115 |
| 95 | 185 | 187 | 191 | 196 | 202 | 208 | 213 | 217 | 219 | 219 |
| 100 | 250 | 253 | 260 | 267 | 275 | 283 | 289 | 293 | 296 | 295 |
| 105 | 328 | 331 | 338 | 345 | 353 | 360 | 365 | 369 | 371 | 370 |
| 110 | 415 | 417 | 424 | 430 | 436 | 441 | 445 | 448 | 449 | 447 |
| 115 | 502 | 504 | 510 | 515 | 520 | 523 | 524 | 525 | 524 | 522 |
| 120 | 586 | 587 | 593 | 596 | 598 | 598 | 598 | 597 | 595 | 593 |
| 125 | 655 | 656 | 660 | 662 | 662 | 661 | 658 | 656 | 653 | 652 |
| 130 | 725 | 725 | 728 | 729 | 729 | 726 | 723 | 720 | 717 | 715 |
| 135 | 792 | 792 | 795 | 795 | 794 | 791 | 787 | 785 | 782 | 780 |
| 140 | 858 | 859 | 860 | 861 | 860 | 857 | 855 | 853 | 850 | 850 |
| 145 | 925 | 926 | 928 | 929 | 929 | 928 | 926 | 925 | 924 | 924 |
| 150 | 997 | 997 | 998 | 1000 | 1001 | 1002 | 1001 | 1002 | 1001 | 1001 |
| 155 | 1070 | 1070 | 1071 | 1073 | 1075 | 1076 | 1076 | 1077 | 1077 | 1077 |
| 160 | 1142 | 1141 | 1141 | 1141 | 1143 | 1145 | 1146 | 1146 | 1146 | 1147 |
| 165 | 1199 | 1200 | 1199 | 1199 | 1202 | 1204 | 1204 | 1204 | 1204 | 1204 |
| 170 | 1241 | 1240 | 1241 | 1241 | 1242 | 1242 | 1241 | 1241 | 1241 | 1242 |
| 175 | 1263 | 1263 | 1263 | 1263 | 1264 | 1264 | 1263 | 1262 | 1262 | 1262 |
| 180 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 21 |
| 10 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 15 | 30 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 28 |
| 20 | 37 | 36 | 36 | 35 | 34 | 34 | 33 | 33 | 32 |
| 25 | 42 | 41 | 41 | 40 | 40 | 39 | 38 | 37 | 37 |
| 30 | 48 | 48 | 47 | 46 | 46 | 44 | 43 | 42 | 42 |
| 35 | 56 | 55 | 55 | 53 | 52 | 51 | 49 | 48 | 47 |
| 40 | 64 | 63 | 62 | 61 | 59 | 56 | 54 | 52 | 51 |
| 45 | 72 | 71 | 69 | 67 | 64 | 61 | 59 | 57 | 56 |
| 50 | 78 | 77 | 75 | 73 | 69 | 66 | 63 | 61 | 59 |
| 55 | 85 | 84 | 82 | 79 | 76 | 72 | 69 | 66 | 65 |
| 60 | 93 | 92 | 89 | 87 | 84 | 80 | 77 | 74 | 73 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|
| 65 | 103 | 102 | 100 | 97 | 93 | 88 | 84 | 81 | 80 |
| 70 | 109 | 109 | 107 | 103 | 98 | 93 | 88 | 84 | 83 |
| 75 | 108 | 111 | 109 | 106 | 101 | 96 | 91 | 88 | 87 |
| 80 | 116 | 111 | 107 | 105 | 103 | 99 | 96 | 93 | 92 |
| 85 | 106 | 101 | 95 | 90 | 85 | 80 | 75 | 72 | 71 |
| 90 | 114 | 111 | 107 | 101 | 96 | 90 | 85 | 82 | 81 |
| 95 | 216 | 211 | 205 | 197 | 189 | 181 | 174 | 169 | 167 |
| 100 | 292 | 286 | 278 | 269 | 259 | 249 | 239 | 232 | 229 |
| 105 | 367 | 361 | 353 | 344 | 334 | 324 | 315 | 307 | 304 |
| 110 | 444 | 439 | 432 | 425 | 417 | 408 | 400 | 392 | 389 |
| 115 | 520 | 516 | 512 | 507 | 501 | 494 | 487 | 480 | 478 |
| 120 | 591 | 589 | 587 | 585 | 582 | 578 | 573 | 567 | 566 |
| 125 | 651 | 650 | 650 | 650 | 650 | 648 | 645 | 640 | 639 |
| 130 | 715 | 716 | 718 | 720 | 721 | 721 | 719 | 716 | 715 |
| 135 | 781 | 783 | 786 | 788 | 791 | 792 | 791 | 789 | 789 |
| 140 | 851 | 852 | 855 | 858 | 860 | 862 | 861 | 860 | 860 |
| 145 | 925 | 927 | 928 | 931 | 932 | 932 | 931 | 930 | 930 |
| 150 | 1002 | 1004 | 1004 | 1005 | 1006 | 1004 | 1002 | 1001 | 1002 |
| 155 | 1078 | 1079 | 1079 | 1078 | 1078 | 1076 | 1076 | 1075 | 1075 |
| 160 | 1147 | 1147 | 1148 | 1147 | 1145 | 1143 | 1144 | 1145 | 1146 |
| 165 | 1204 | 1204 | 1205 | 1205 | 1203 | 1202 | 1201 | 1201 | 1201 |
| 170 | 1241 | 1242 | 1242 | 1243 | 1243 | 1243 | 1243 | 1242 | 1242 |
| 175 | 1262 | 1263 | 1264 | 1265 | 1265 | 1264 | 1264 | 1264 | 1264 |
| 180 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 | 1269 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 10.34 | N.A. | 0.20 |
| 0-30 | 28.97 | N.A. | 0.70 |
| 0-40 | 62.00 | N.A. | 1.40 |
| 0-60 | 180.84 | N.A. | 4.20 |
| 0-80 | 374.34 | N.A. | 8.70 |
| 0-90 | 484.33 | N.A. | 11.30 |
| 10-90 | 482.48 | N.A. | 11.20 |
| 20-40 | 51.66 | N.A. | 1.20 |
| 20-50 | 101.85 | N.A. | 2.40 |
| 40-70 | 208.05 | N.A. | 4.80 |
| 60-80 | 193.50 | N.A. | 4.50 |
| 70-80 | 104.29 | N.A. | 2.40 |
| 80-90 | 109.98 | N.A. | 2.60 |
| 90-110 | 575.81 | N.A. | 13.40 |
| 90-120 | 1079.95 | N.A. | 25.10 |
| 90-130 | 1665.47 | N.A. | 38.80 |
| 90-150 | 2857.05 | N.A. | 66.50 |
| 90-180 | 3811.17 | N.A. | 88.70 |
| 110-180 | 3235.36 | N.A. | 75.30 |
| 0-180 | 4295.5 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 1.85 |
| 10-20 | 8.49 |
| 20-30 | 18.64 |
| 30-40 | 33.03 |
| 40-50 | 50.18 |
| 50-60 | 68.65 |
| 60-70 | 89.21 |
| 70-80 | 104.29 |
| 80-90 | 109.98 |
| 90-100 | 209.02 |
| 100-110 | 366.79 |
| 110-120 | 504.14 |
| 120-130 | 585.52 |
| 130-140 | 609.65 |
| 140-150 | 581.92 |
| 150-160 | 495.79 |
| 160-170 | 338.44 |
| 170-180 | 119.89 |

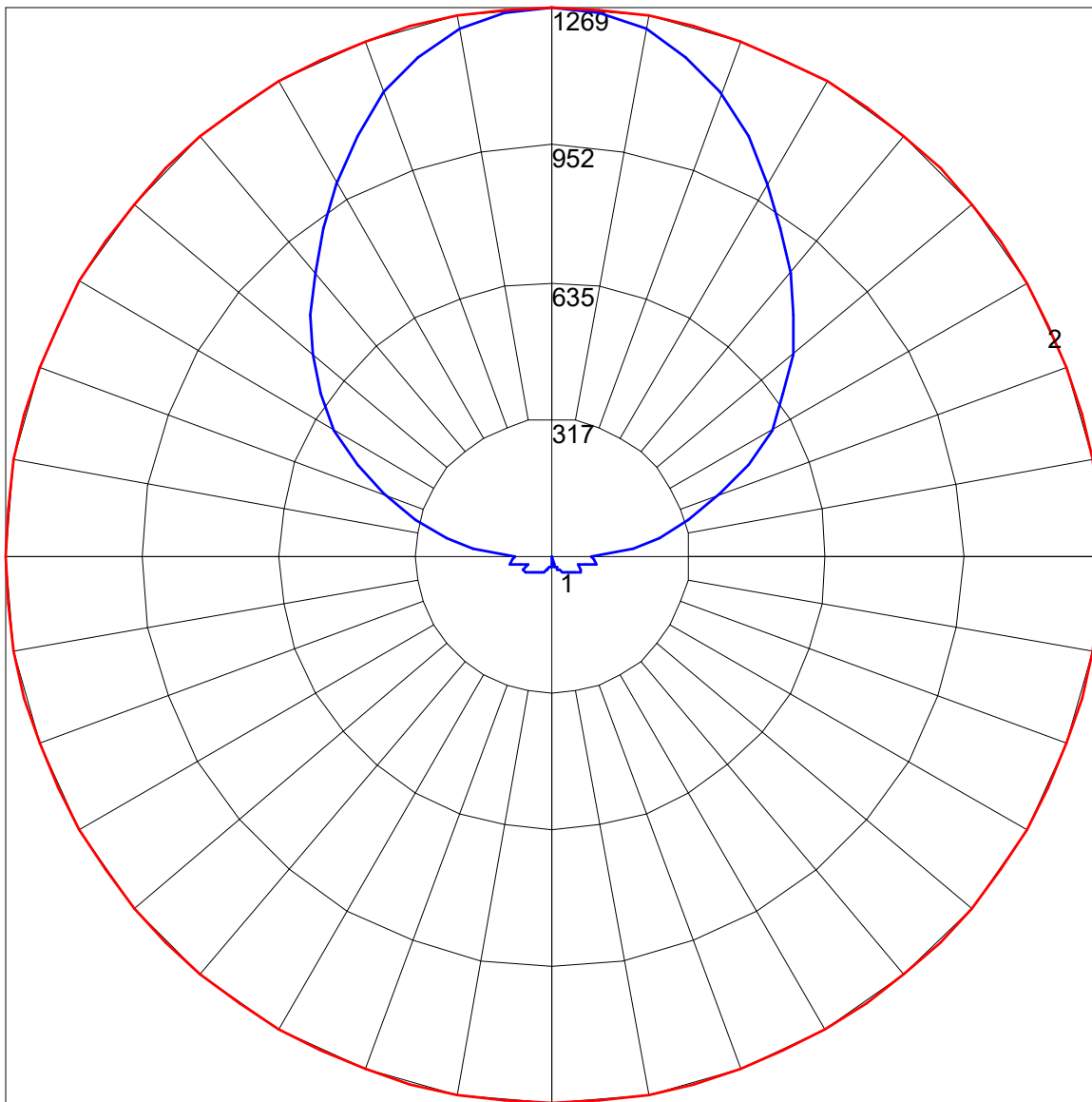
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 98 | 98 | 98 | 98 | 85 | 85 | 85 | 85 | 62 | 62 | 62 | 40 | 40 | 40 | 21 | 21 | 21 | 11 |
| 1 | 88 | 83 | 79 | 75 | 76 | 72 | 69 | 66 | 52 | 50 | 48 | 33 | 32 | 31 | 16 | 15 | 15 | 7 |
| 2 | 79 | 72 | 66 | 60 | 69 | 62 | 57 | 53 | 45 | 41 | 38 | 28 | 26 | 25 | 13 | 12 | 11 | 5 |
| 3 | 72 | 63 | 55 | 49 | 62 | 54 | 48 | 43 | 39 | 35 | 32 | 25 | 22 | 20 | 11 | 10 | 9 | 3 |
| 4 | 66 | 55 | 47 | 41 | 57 | 48 | 41 | 36 | 34 | 30 | 26 | 22 | 19 | 17 | 10 | 9 | 7 | 3 |
| 5 | 60 | 49 | 41 | 35 | 52 | 42 | 36 | 31 | 30 | 26 | 22 | 19 | 16 | 14 | 9 | 7 | 6 | 2 |
| 6 | 55 | 43 | 35 | 30 | 47 | 38 | 31 | 26 | 27 | 22 | 19 | 17 | 14 | 12 | 8 | 6 | 5 | 2 |
| 7 | 50 | 39 | 31 | 26 | 44 | 34 | 27 | 22 | 24 | 20 | 16 | 15 | 13 | 10 | 7 | 6 | 5 | 1 |
| 8 | 47 | 35 | 27 | 22 | 40 | 30 | 24 | 20 | 22 | 17 | 14 | 14 | 11 | 9 | 6 | 5 | 4 | 1 |
| 9 | 43 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 20 | 15 | 12 | 13 | 10 | 8 | 6 | 4 | 3 | 1 |
| 10 | 40 | 29 | 22 | 17 | 35 | 25 | 19 | 15 | 18 | 14 | 11 | 11 | 9 | 7 | 5 | 4 | 3 | 1 |

POLAR GRAPH



Maximum Candela = 1269 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)