

Photometrics Pro

Luminaire Photometric Report

- [Evaluation Version]

Filename: WayneIES3

Manufacturer: Taiwan

Lamp Output: 1 lamp, rated Lumens/lamp: 13600

Max Candela: 6,648.1 at Horizontal: 157.5°, Vertical: 10°

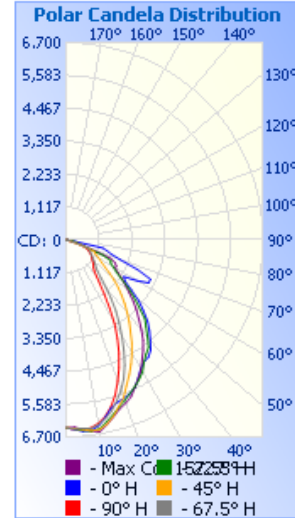
Input Wattage: 150

Luminous Opening: Rectangle (L: 5.51", W: 5.51")

Test Date: 3/26/2015

Photometry : Type C

Nema Type: 7X 7



Roadway Summary

| | | | |
|------------------------|---------------------|--------|--|
| Cutoff Classification: | CUTOFF | | |
| Distribution: | TYPE II, VERY SHORT | | |
| Max Cd, 90 Deg Vert: | 1.0 | | |
| Max Cd, 80 to <90 Deg: | 323.3 | | |
| | Lumens | % Lamp | |
| Downward Street Side: | 5,960.6 | 43.8% | |
| Downward House Side: | 5,994.6 | 44.1% | |
| Downward Total: | 11,955.2 | 87.9% | |
| Total Lumens: | 11,955.2 | 87.9% | |

Flood Summary

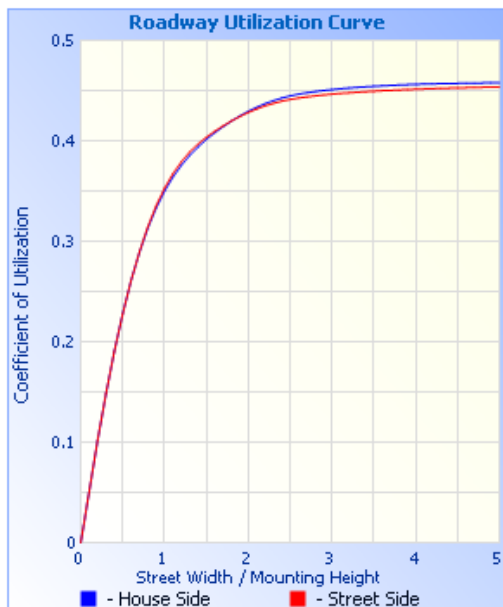
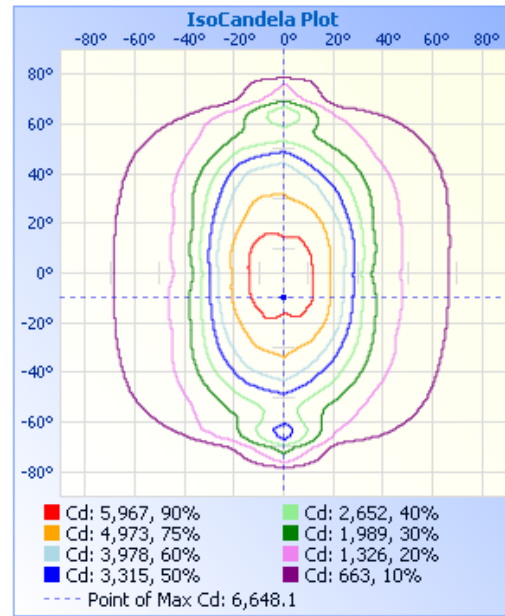
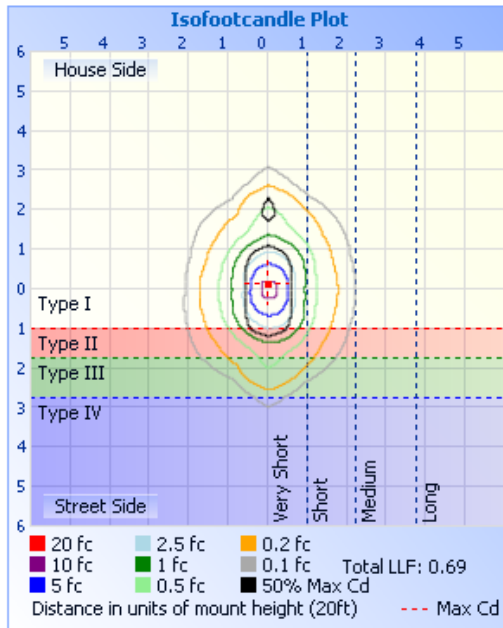
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|--------------|------------|----------|-------------------|-----------------|
| Field (10%): | 85.9% | 11,686.1 | 134.8 | 157.1 |
| Beam (50%): | 49.1% | 6,676.8 | 57.6 | 97.5 |
| Total: | 87.9% | 11,951.1 | | |

Zonal Lumen Summary

| Zone | Lumens | % Lamp | % Luminaire |
|-------|----------|--------|-------------|
| 0-30 | 4,538.4 | 33.4% | 38% |
| 0-40 | 6,764.8 | 49.7% | 56.6% |
| 0-60 | 10,203.1 | 75% | 85.4% |
| 60-90 | 1,749.5 | 12.9% | 14.6% |
| 0-90 | 11,952.6 | 87.9% | 100% |

Lumens Per Zone

| Zone | Lumens | % Total |
|-------|---------|---------|
| 0-10 | 616.5 | 5.2% |
| 10-20 | 1,676.8 | 14.0% |
| 20-30 | 2,245.0 | 18.8% |
| 30-40 | 2,226.4 | 18.6% |
| 40-50 | 1,910.7 | 16.0% |
| 50-60 | 1,527.6 | 12.8% |
| 60-70 | 1,308.4 | 10.9% |
| 70-80 | 411.0 | 3.4% |
| 80-90 | 30.1 | 0.3% |



Illuminance at a Distance

| | Center Beam fc | Beam Width | |
|---------|----------------|------------|----------|
| 17.0ft | 22.2 fc | 38.8 ft | 18.7 ft |
| 34.0ft | 5.55 fc | 77.6 ft | 37.4 ft |
| 51.0ft | 2.47 fc | 116.3 ft | 56.1 ft |
| 68.0ft | 1.39 fc | 155.1 ft | 74.8 ft |
| 85.0ft | 0.89 fc | 193.9 ft | 93.5 ft |
| 102.0ft | 0.62 fc | 232.7 ft | 112.2 ft |

■ Vert. Spread: 97.5°
 ■ Horiz. Spread: 57.6°

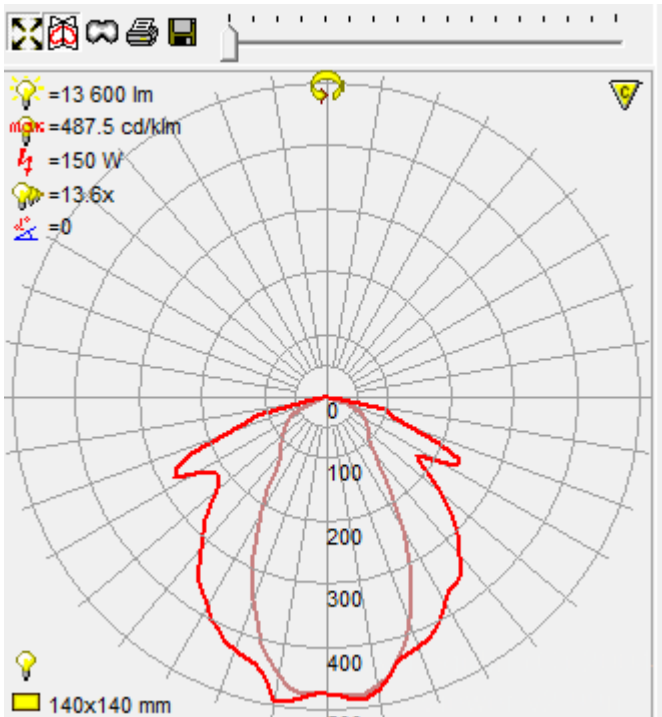
Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | <i>80</i> | | | | <i>70</i> | | | | <i>50</i> | | | <i>30</i> | | | <i>10</i> | | | <i>0</i> |
|--------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| RW %: | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>0</u> |
| RCR: 0 | 1.05 | 1.05 | 1.05 | 1.05 | 1.02 | 1.02 | 1.02 | .88 | .98 | .98 | .98 | .93 | .93 | .93 | .90 | .90 | .90 | .88 |
| 1 | .97 | .94 | .90 | .88 | .95 | .92 | .89 | .77 | .88 | .86 | .83 | .85 | .83 | .81 | .81 | .80 | .79 | .77 |
| 2 | .89 | .83 | .78 | .73 | .87 | .81 | .77 | .67 | .78 | .74 | .71 | .76 | .72 | .69 | .73 | .70 | .68 | .66 |
| 3 | .82 | .74 | .68 | .63 | .80 | .73 | .67 | .59 | .70 | .65 | .61 | .68 | .64 | .60 | .66 | .62 | .59 | .57 |
| 4 | .76 | .67 | .60 | .54 | .74 | .65 | .59 | .52 | .63 | .58 | .53 | .61 | .57 | .53 | .60 | .55 | .52 | .50 |
| 5 | .71 | .60 | .53 | .48 | .69 | .59 | .53 | .46 | .58 | .52 | .47 | .56 | .51 | .47 | .54 | .50 | .46 | .44 |
| 6 | .66 | .55 | .48 | .42 | .64 | .54 | .47 | .41 | .53 | .46 | .42 | .51 | .46 | .42 | .50 | .45 | .41 | .40 |
| 7 | .61 | .50 | .43 | .38 | .60 | .50 | .43 | .37 | .48 | .42 | .38 | .47 | .42 | .38 | .46 | .41 | .37 | .36 |
| 8 | .57 | .46 | .39 | .35 | .56 | .46 | .39 | .34 | .45 | .39 | .34 | .44 | .38 | .34 | .43 | .38 | .34 | .32 |
| 9 | .54 | .43 | .36 | .32 | .53 | .42 | .36 | .31 | .41 | .35 | .31 | .40 | .35 | .31 | .40 | .35 | .31 | .30 |
| 10 | .51 | .40 | .33 | .29 | .50 | .39 | .33 | .29 | .39 | .33 | .29 | .38 | .32 | .29 | .37 | .32 | .29 | .27 |

Candela Table - Type C

| | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | 360 |
|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 | 6416 |
| 2.5 | 6471 | 6447 | 6437 | 6462 | 6469 | 6415 | 6403 | 6398 | 6406 | 6395 | 6393 | 6417 | 6431 | 6455 | 6465 | 6466 | 6471 |
| 5 | 6552 | 6522 | 6492 | 6448 | 6491 | 6452 | 6474 | 6491 | 6524 | 6510 | 6411 | 6421 | 6442 | 6441 | 6491 | 6531 | 6552 |
| 7.5 | 6557 | 6574 | 6566 | 6487 | 6468 | 6465 | 6488 | 6570 | 6629 | 6528 | 6406 | 6366 | 6340 | 6356 | 6465 | 6473 | 6557 |
| 10 | 6428 | 6547 | 6567 | 6390 | 6348 | 6325 | 6511 | 6648 | 6630 | 6615 | 6384 | 6226 | 6106 | 6163 | 6334 | 6363 | 6428 |
| 12.5 | 6191 | 6355 | 6440 | 6232 | 6158 | 6194 | 6502 | 6450 | 6208 | 6352 | 6308 | 5890 | 5824 | 5894 | 6100 | 6128 | 6191 |
| 15 | 5934 | 6170 | 6223 | 6029 | 5894 | 6000 | 6253 | 6249 | 5974 | 6149 | 6048 | 5652 | 5507 | 5641 | 5833 | 6010 | 5934 |
| 17.5 | 5813 | 5986 | 5961 | 5749 | 5556 | 5732 | 5930 | 6048 | 5899 | 5988 | 5744 | 5356 | 5058 | 5376 | 5638 | 5912 | 5813 |
| 20 | 5748 | 5835 | 5729 | 5466 | 5134 | 5427 | 5681 | 5934 | 5812 | 5910 | 5535 | 5009 | 4660 | 4988 | 5408 | 5800 | 5748 |
| 22.5 | 5677 | 5674 | 5376 | 5132 | 4709 | 5063 | 5401 | 5789 | 5742 | 5710 | 5210 | 4552 | 4160 | 4590 | 5113 | 5588 | 5677 |
| 25 | 5556 | 5530 | 5085 | 4719 | 4271 | 4642 | 5138 | 5545 | 5547 | 5437 | 4879 | 4090 | 3774 | 4153 | 4817 | 5388 | 5556 |
| 27.5 | 5323 | 5380 | 4791 | 4267 | 3781 | 4159 | 4772 | 5330 | 5412 | 5158 | 4467 | 3637 | 3331 | 3803 | 4477 | 5079 | 5323 |
| 30 | 5086 | 5199 | 4483 | 3806 | 3306 | 3708 | 4497 | 5112 | 5173 | 4824 | 4056 | 3271 | 2834 | 3380 | 4101 | 4759 | 5086 |
| 32.5 | 4938 | 4941 | 4169 | 3361 | 2761 | 3259 | 4161 | 4822 | 5025 | 4401 | 3678 | 2858 | 2385 | 2954 | 3679 | 4470 | 4938 |
| 35 | 4886 | 4758 | 3823 | 2956 | 2278 | 2854 | 3801 | 4577 | 4852 | 4114 | 3343 | 2512 | 1985 | 2567 | 3346 | 4165 | 4886 |
| 37.5 | 4735 | 4618 | 3539 | 2513 | 1879 | 2507 | 3483 | 4317 | 4578 | 3833 | 3029 | 2215 | 1744 | 2217 | 3069 | 3977 | 4735 |
| 40 | 4463 | 4315 | 3237 | 2107 | 1593 | 2187 | 3198 | 3990 | 4277 | 3536 | 2752 | 2007 | 1577 | 1912 | 2747 | 3651 | 4463 |
| 42.5 | 4208 | 4033 | 2959 | 1760 | 1407 | 1888 | 2932 | 3676 | 4004 | 3192 | 2489 | 1746 | 1464 | 1672 | 2506 | 3286 | 4208 |
| 45 | 3927 | 3796 | 2674 | 1516 | 1308 | 1640 | 2662 | 3391 | 3752 | 2946 | 2255 | 1536 | 1388 | 1526 | 2298 | 2947 | 3927 |
| 47.5 | 3569 | 3358 | 2410 | 1374 | 1249 | 1448 | 2398 | 3109 | 3381 | 2700 | 2010 | 1407 | 1301 | 1435 | 2062 | 2679 | 3569 |
| 50 | 3229 | 2995 | 2133 | 1287 | 1191 | 1317 | 2156 | 2809 | 3128 | 2401 | 1803 | 1317 | 1236 | 1353 | 1851 | 2463 | 3229 |
| 52.5 | 2801 | 2651 | 1853 | 1210 | 1125 | 1205 | 1916 | 2549 | 2937 | 2182 | 1604 | 1239 | 1174 | 1287 | 1627 | 2179 | 2801 |
| 55 | 2451 | 2275 | 1616 | 1120 | 1069 | 1129 | 1690 | 2335 | 2907 | 1935 | 1428 | 1131 | 1106 | 1204 | 1440 | 1878 | 2451 |
| 57.5 | 2335 | 2033 | 1438 | 1051 | 1026 | 1054 | 1510 | 2112 | 3081 | 1701 | 1280 | 1032 | 1039 | 1108 | 1313 | 1714 | 2335 |
| 60 | 2779 | 1854 | 1313 | 991 | 965 | 988 | 1357 | 1934 | 3288 | 1563 | 1158 | 920 | 960 | 1012 | 1206 | 1577 | 2779 |
| 62.5 | 3174 | 1707 | 1186 | 937 | 890 | 922 | 1242 | 1932 | 3728 | 1453 | 1070 | 851 | 863 | 938 | 1126 | 1457 | 3174 |
| 65 | 3173 | 1685 | 1094 | 881 | 823 | 877 | 1153 | 1830 | 3574 | 1335 | 1039 | 764 | 711 | 893 | 1070 | 1375 | 3173 |
| 67.5 | 2632 | 1353 | 1050 | 835 | 739 | 840 | 1126 | 1653 | 3184 | 1204 | 1010 | 718 | 586 | 832 | 1040 | 1092 | 2632 |
| 70 | 1954 | 692 | 690 | 761 | 594 | 782 | 942 | 908 | 2315 | 550 | 863 | 626 | 463 | 759 | 731 | 407 | 1954 |
| 72.5 | 1608 | 485 | 228 | 464 | 433 | 612 | 321 | 473 | 1972 | 218 | 261 | 347 | 363 | 353 | 246 | 263 | 1608 |
| 75 | 1445 | 359 | 128 | 108 | 127 | 147 | 152 | 344 | 1556 | 155 | 105 | 85 | 189 | 104 | 166 | 177 | 1445 |
| 77.5 | 1283 | 283 | 72 | 55 | 46 | 51 | 83 | 203 | 786 | 107 | 56 | 59 | 88 | 67 | 85 | 98 | 1283 |
| 80 | 323 | 187 | 50 | 27 | 25 | 33 | 50 | 99 | 119 | 62 | 41 | 42 | 46 | 40 | 43 | 64 | 323 |
| 82.5 | 63 | 57 | 26 | 19 | 18 | 22 | 27 | 43 | 54 | 39 | 31 | 30 | 32 | 28 | 30 | 39 | 63 |
| 85 | 36 | 26 | 16 | 13 | 13 | 15 | 20 | 28 | 34 | 28 | 23 | 21 | 21 | 20 | 22 | 27 | 36 |
| 87.5 | 19 | 15 | 10 | 8 | 8 | 9 | 13 | 15 | 19 | 17 | 15 | 12 | 11 | 13 | 15 | 17 | 19 |
| 90 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |



Render (Beta 1.95) X

XY

-XY

Z

-Z

Brightness: R Center

Zoom: R

Distance: R Close