



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-8-TA-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111026
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-8-TA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (4 DRIVER)
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 277VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 191075 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 155 |
| Total Luminaire Watts | 1235.94 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.44 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 3.83 ft |
| Luminous Width (90-270) | 2.46 ft |
| Luminous Height | 0.06 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 54028 | 71308 | 53568 |
| 55 | 45008 | 81693 | 44466 |
| 65 | 34433 | 82478 | 33821 |
| 75 | 21432 | 60041 | 20792 |
| 85 | 9619 | 14088 | 8869 |

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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 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 |
| 5 | 62700 | 62414 | 62208 | 61928 | 61840 | 61928 | 62264 | 62462 | 62692 | 62836 |
| 10 | 61622 | 61158 | 61076 | 61582 | 62440 | 62830 | 62652 | 62570 | 62584 | 62550 |
| 15 | 59862 | 59152 | 59630 | 61104 | 60878 | 60374 | 60524 | 60646 | 60776 | 60790 |
| 20 | 57366 | 56710 | 57822 | 57952 | 57946 | 58272 | 58342 | 58000 | 58314 | 58362 |
| 25 | 54256 | 53744 | 54548 | 54338 | 55136 | 54890 | 55762 | 56616 | 57092 | 57188 |
| 30 | 50244 | 49896 | 50456 | 50796 | 50844 | 52672 | 53812 | 54720 | 55170 | 55374 |
| 35 | 45456 | 45524 | 45784 | 46288 | 47748 | 49986 | 51254 | 51554 | 51472 | 51526 |
| 40 | 39822 | 40668 | 40810 | 41800 | 44454 | 46424 | 47742 | 47802 | 48068 | 48116 |
| 45 | 33996 | 35210 | 35708 | 37754 | 40326 | 42788 | 44016 | 44460 | 45102 | 45428 |
| 50 | 28416 | 29318 | 30510 | 33614 | 36350 | 38854 | 40968 | 43806 | 45660 | 45988 |
| 55 | 23124 | 23670 | 25484 | 28894 | 32564 | 36356 | 39876 | 41526 | 42454 | 42714 |
| 60 | 18076 | 18430 | 20662 | 24536 | 29740 | 33526 | 36350 | 38274 | 38642 | 38662 |
| 65 | 13178 | 13666 | 16010 | 20852 | 26266 | 29914 | 31918 | 31836 | 32402 | 32394 |
| 70 | 8754 | 9322 | 12018 | 17004 | 21756 | 24058 | 24582 | 24382 | 23844 | 23276 |
| 75 | 5144 | 5776 | 8414 | 12366 | 15622 | 15956 | 16458 | 16602 | 15630 | 15054 |
| 80 | 2528 | 3090 | 4860 | 6730 | 8952 | 9804 | 9024 | 7612 | 6618 | 6278 |
| 85 | 866 | 1162 | 1620 | 2442 | 3196 | 3050 | 2454 | 1834 | 1520 | 1424 |
| 90 | 262 | 266 | 280 | 302 | 326 | 348 | 364 | 376 | 384 | 388 |
| 95 | 402 | 312 | 286 | 300 | 318 | 334 | 348 | 360 | 370 | 374 |
| 100 | 538 | 770 | 300 | 288 | 296 | 308 | 318 | 326 | 336 | 338 |
| 105 | 692 | 1170 | 1086 | 282 | 262 | 266 | 270 | 276 | 282 | 284 |
| 110 | 854 | 1562 | 1824 | 976 | 268 | 228 | 230 | 234 | 238 | 240 |
| 115 | 1036 | 1822 | 2136 | 2260 | 1040 | 328 | 204 | 206 | 210 | 210 |
| 120 | 1214 | 1946 | 2464 | 2544 | 2534 | 1374 | 550 | 344 | 258 | 240 |
| 125 | 1360 | 2018 | 2648 | 2590 | 2754 | 2726 | 2046 | 1334 | 916 | 810 |
| 130 | 1482 | 1992 | 2668 | 2858 | 2776 | 2850 | 2806 | 2774 | 2532 | 2426 |
| 135 | 1568 | 1950 | 2600 | 2878 | 2860 | 2818 | 2892 | 2844 | 2862 | 2852 |
| 140 | 1592 | 1878 | 2446 | 2682 | 3012 | 2908 | 2854 | 2862 | 2914 | 2908 |
| 145 | 1584 | 1796 | 2244 | 2644 | 2674 | 3058 | 3080 | 2942 | 2954 | 2948 |
| 150 | 1588 | 1716 | 2098 | 2434 | 2646 | 2660 | 3014 | 3146 | 3240 | 3232 |
| 155 | 1600 | 1674 | 1936 | 2142 | 2378 | 2544 | 2666 | 2706 | 2842 | 2864 |
| 160 | 1588 | 1624 | 1720 | 1896 | 2032 | 2188 | 2308 | 2400 | 2498 | 2500 |
| 165 | 1538 | 1554 | 1602 | 1680 | 1780 | 1824 | 1894 | 1964 | 1982 | 1998 |
| 170 | 1522 | 1526 | 1560 | 1594 | 1628 | 1664 | 1682 | 1724 | 1762 | 1764 |
| 175 | 1562 | 1562 | 1556 | 1566 | 1588 | 1612 | 1642 | 1666 | 1678 | 1692 |
| 180 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 |

Vert. 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 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 | 62642 |
| 5 | 62692 | 62462 | 62264 | 61928 | 61840 | 61928 | 62208 | 62414 | 62700 |
| 10 | 62584 | 62570 | 62652 | 62830 | 62440 | 61582 | 61076 | 61158 | 61622 |
| 15 | 60776 | 60646 | 60524 | 60374 | 60878 | 61104 | 59630 | 59152 | 59862 |
| 20 | 58314 | 58000 | 58342 | 58272 | 57946 | 57952 | 57822 | 56710 | 57366 |
| 25 | 57092 | 56616 | 55762 | 54890 | 55136 | 54338 | 54548 | 53744 | 54256 |
| 30 | 55170 | 54720 | 53812 | 52672 | 50844 | 50796 | 50456 | 49896 | 50244 |
| 35 | 51472 | 51554 | 51254 | 49986 | 47748 | 46288 | 45784 | 45524 | 45456 |
| 40 | 48068 | 47802 | 47742 | 46424 | 44454 | 41800 | 40810 | 40668 | 39822 |
| 45 | 45102 | 44460 | 44016 | 42788 | 40326 | 37754 | 35708 | 35210 | 33996 |
| 50 | 45660 | 43806 | 40968 | 38854 | 36350 | 33614 | 30510 | 29318 | 28416 |
| 55 | 42454 | 41526 | 39876 | 36356 | 32564 | 28894 | 25484 | 23670 | 23124 |
| 60 | 38642 | 38274 | 36350 | 33526 | 29740 | 24536 | 20662 | 18430 | 18076 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65 | 32402 | 31836 | 31918 | 29914 | 26266 | 20852 | 16010 | 13666 | 13178 |
| 70 | 23844 | 24382 | 24582 | 24058 | 21756 | 17004 | 12018 | 9322 | 8754 |
| 75 | 15630 | 16602 | 16458 | 15956 | 15622 | 12366 | 8414 | 5776 | 5144 |
| 80 | 6618 | 7612 | 9024 | 9804 | 8952 | 6730 | 4860 | 3090 | 2528 |
| 85 | 1520 | 1834 | 2454 | 3050 | 3196 | 2442 | 1620 | 1162 | 866 |
| 90 | 384 | 376 | 364 | 348 | 326 | 302 | 280 | 266 | 262 |
| 95 | 370 | 360 | 348 | 334 | 318 | 300 | 286 | 312 | 402 |
| 100 | 336 | 326 | 318 | 308 | 296 | 288 | 300 | 770 | 538 |
| 105 | 282 | 276 | 270 | 266 | 262 | 282 | 1086 | 1170 | 692 |
| 110 | 238 | 234 | 230 | 228 | 268 | 976 | 1824 | 1562 | 854 |
| 115 | 210 | 206 | 204 | 328 | 1040 | 2260 | 2136 | 1822 | 1036 |
| 120 | 258 | 344 | 550 | 1374 | 2534 | 2544 | 2464 | 1946 | 1214 |
| 125 | 916 | 1334 | 2046 | 2726 | 2754 | 2590 | 2648 | 2018 | 1360 |
| 130 | 2532 | 2774 | 2806 | 2850 | 2776 | 2858 | 2668 | 1992 | 1482 |
| 135 | 2862 | 2844 | 2892 | 2818 | 2860 | 2878 | 2600 | 1950 | 1568 |
| 140 | 2914 | 2862 | 2854 | 2908 | 3012 | 2682 | 2446 | 1878 | 1592 |
| 145 | 2954 | 2942 | 3080 | 3058 | 2674 | 2644 | 2244 | 1796 | 1584 |
| 150 | 3240 | 3146 | 3014 | 2660 | 2646 | 2434 | 2098 | 1716 | 1588 |
| 155 | 2842 | 2706 | 2666 | 2544 | 2378 | 2142 | 1936 | 1674 | 1600 |
| 160 | 2498 | 2400 | 2308 | 2188 | 2032 | 1896 | 1720 | 1624 | 1588 |
| 165 | 1982 | 1964 | 1894 | 1824 | 1780 | 1680 | 1602 | 1554 | 1538 |
| 170 | 1762 | 1724 | 1682 | 1664 | 1628 | 1594 | 1560 | 1526 | 1522 |
| 175 | 1678 | 1666 | 1642 | 1612 | 1588 | 1566 | 1556 | 1562 | 1562 |
| 180 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 | 1620 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 22957.93 | N.A. | 12.00 |
| 0-30 | 48459.3 | N.A. | 25.40 |
| 0-40 | 78905.74 | N.A. | 41.30 |
| 0-60 | 140588.3 | N.A. | 73.60 |
| 0-80 | 178863.9 | N.A. | 93.60 |
| 0-90 | 181915.5 | N.A. | 95.20 |
| 10-90 | 175972.4 | N.A. | 92.10 |
| 20-40 | 55947.8 | N.A. | 29.30 |
| 20-50 | 87470.16 | N.A. | 45.80 |
| 40-70 | 86246.1 | N.A. | 45.10 |
| 60-80 | 38275.57 | N.A. | 20.00 |
| 70-80 | 13712.04 | N.A. | 7.20 |
| 80-90 | 3051.58 | N.A. | 1.60 |
| 90-110 | 910.64 | N.A. | 0.50 |
| 90-120 | 1913.49 | N.A. | 1.00 |
| 90-130 | 3704.44 | N.A. | 1.90 |
| 90-150 | 7393.46 | N.A. | 3.90 |
| 90-180 | 9159.62 | N.A. | 4.80 |
| 110-180 | 8248.97 | N.A. | 4.30 |
| 0-180 | 191075.1 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|----------|
| 0-10 | 5943.1 |
| 10-20 | 17014.84 |
| 20-30 | 25501.37 |
| 30-40 | 30446.43 |
| 40-50 | 31522.37 |
| 50-60 | 30160.2 |
| 60-70 | 24563.53 |
| 70-80 | 13712.04 |
| 80-90 | 3051.58 |
| 90-100 | 375.25 |
| 100-110 | 535.39 |
| 110-120 | 1002.84 |
| 120-130 | 1790.96 |
| 130-140 | 2039.76 |
| 140-150 | 1649.26 |
| 150-160 | 1089.66 |
| 160-170 | 521.49 |
| 170-180 | 155.00 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |
| 1 | 107 | 103 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 92 | 89 | 90 | 87 | 85 | 86 | 84 | 82 | 79 |
| 2 | 97 | 89 | 82 | 76 | 94 | 87 | 81 | 75 | 82 | 77 | 73 | 78 | 74 | 70 | 75 | 71 | 68 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 59 | 66 | 61 | 57 | 55 |
| 4 | 81 | 69 | 60 | 53 | 78 | 67 | 59 | 53 | 64 | 57 | 51 | 61 | 55 | 50 | 59 | 53 | 49 | 47 |
| 5 | 74 | 61 | 52 | 46 | 72 | 60 | 52 | 45 | 57 | 50 | 44 | 55 | 48 | 43 | 53 | 47 | 42 | 40 |
| 6 | 69 | 55 | 46 | 40 | 66 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 37 | 35 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 45 | 38 | 34 | 43 | 37 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 57 | 45 | 37 | 31 | 43 | 36 | 30 | 41 | 35 | 30 | 40 | 34 | 29 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |

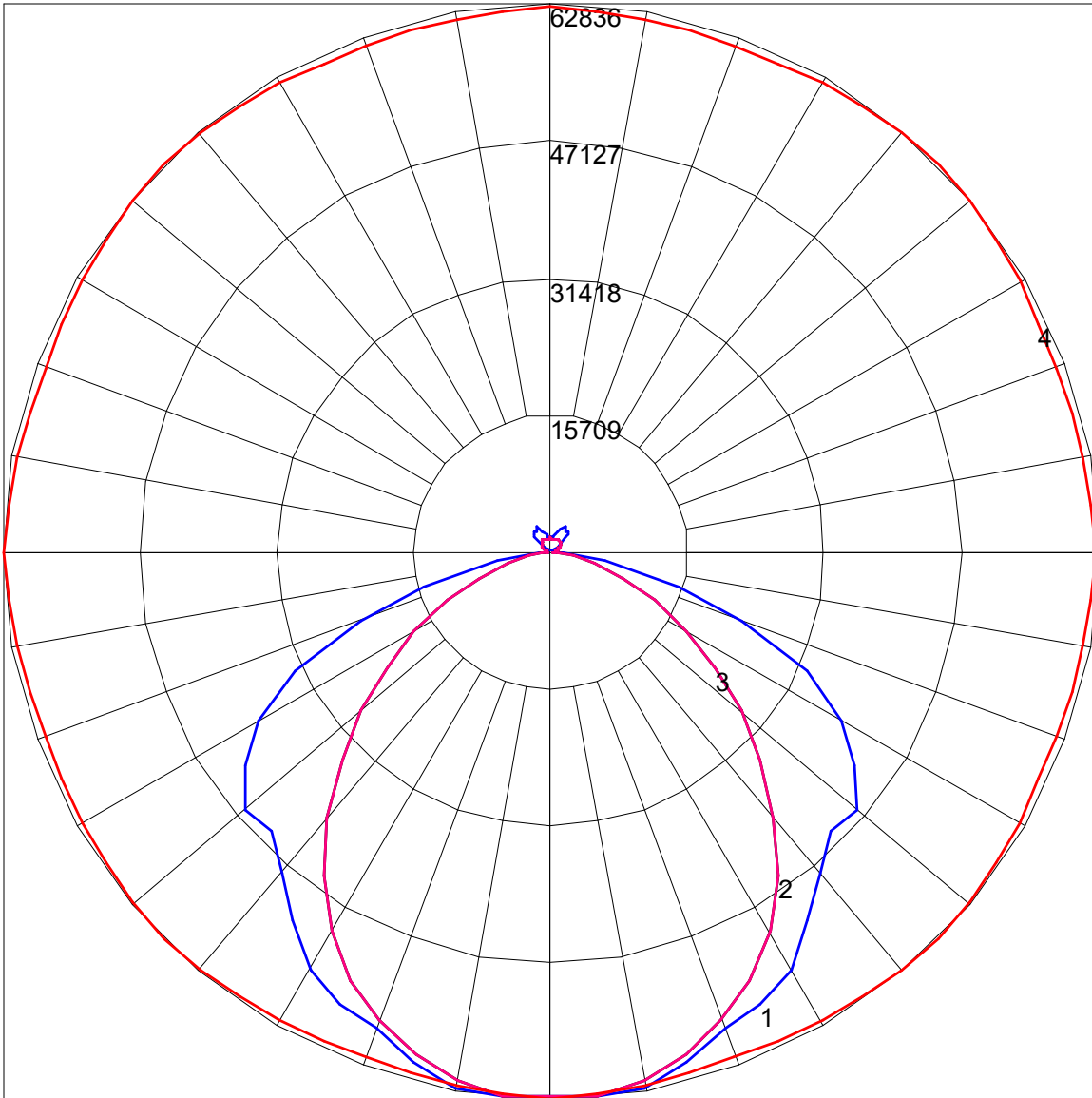
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UGR TABLE - CORRECTED

| Reflectances | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 26.0 | 27.5 | 26.4 | 28.0 | 28.4 | 26.0 | 27.6 | 26.5 | 28.0 | 28.4 |
| | 3H | 27.2 | 28.5 | 27.6 | 29.0 | 29.5 | 27.2 | 28.6 | 27.7 | 29.0 | 29.5 |
| | 4H | 27.4 | 28.8 | 27.9 | 29.2 | 29.7 | 27.5 | 28.8 | 28.0 | 29.2 | 29.7 |
| | 6H | 27.6 | 28.8 | 28.1 | 29.2 | 29.8 | 27.6 | 28.8 | 28.1 | 29.3 | 29.8 |
| | 8H | 27.6 | 28.7 | 28.1 | 29.2 | 29.7 | 27.6 | 28.8 | 28.1 | 29.3 | 29.8 |
| | 12H | 27.6 | 28.7 | 28.1 | 29.2 | 29.7 | 27.6 | 28.7 | 28.1 | 29.2 | 29.8 |
| 4H | 2H | 27.4 | 28.7 | 27.8 | 29.1 | 29.6 | 27.4 | 28.7 | 27.9 | 29.1 | 29.6 |
| | 3H | 29.1 | 30.2 | 29.6 | 30.7 | 31.2 | 29.1 | 30.2 | 29.6 | 30.7 | 31.3 |
| | 4H | 29.7 | 30.7 | 30.2 | 31.2 | 31.8 | 29.8 | 30.8 | 30.3 | 31.3 | 31.8 |
| | 6H | 30.1 | 30.9 | 30.6 | 31.5 | 32.0 | 30.1 | 31.0 | 30.6 | 31.5 | 32.1 |
| | 8H | 30.1 | 30.9 | 30.6 | 31.5 | 32.0 | 30.2 | 31.0 | 30.7 | 31.5 | 32.1 |
| | 12H | 30.1 | 30.8 | 30.7 | 31.4 | 32.0 | 30.2 | 30.9 | 30.7 | 31.5 | 32.0 |
| 8H | 4H | 30.2 | 31.0 | 30.7 | 31.6 | 32.1 | 30.2 | 31.0 | 30.8 | 31.6 | 32.2 |
| | 6H | 30.7 | 31.4 | 31.3 | 32.0 | 32.6 | 30.8 | 31.5 | 31.4 | 32.0 | 32.6 |
| | 8H | 30.9 | 31.5 | 31.5 | 32.1 | 32.7 | 30.9 | 31.5 | 31.5 | 32.1 | 32.7 |
| | 12H | 31.0 | 31.5 | 31.6 | 32.1 | 32.8 | 31.0 | 31.6 | 31.6 | 32.1 | 32.8 |
| 12H | 4H | 30.2 | 31.0 | 30.8 | 31.5 | 32.1 | 30.3 | 31.0 | 30.8 | 31.6 | 32.1 |
| | 6H | 30.8 | 31.4 | 31.4 | 32.0 | 32.6 | 30.8 | 31.4 | 31.4 | 32.0 | 32.6 |
| | 8H | 31.0 | 31.5 | 31.6 | 32.1 | 32.8 | 31.0 | 31.6 | 31.6 | 32.1 | 32.8 |

Maximum UGR = 32.8

POLAR GRAPH



Maximum Candela = 62836 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)