



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L072111006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111006
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/17/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] WAVEP-2-840-U10-WSA2-DEF2
 [LUMINAIRE] WAVE+, 2' Length, Standard Aiming, 4000K, Standard Acrylic Lenses, w/ Deflector
 [BALLASTCAT] OSRAM OPTOTRONIC OTI85/120-277/2A3 DIM L HB (5 DRIVER)
 [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 | 64896 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 149 |
| Total Luminaire Watts | 434.96 |
| 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) | 1.25 ft |
| Luminous Width (90-270) | 1.92 ft |
| Luminous Height | 1.19 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 4889 | 4730 | 6877 |
| 55 | 4648 | 3656 | 5731 |
| 65 | 4776 | 3964 | 4393 |
| 75 | 3932 | 7634 | 2832 |
| 85 | 23682 | 16211 | 1157 |

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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 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 |
| 5 | 2670 | 2670 | 2676 | 2679 | 2683 | 2688 | 2689 | 2689 | 2688 | 2685 |
| 10 | 2607 | 2608 | 2613 | 2615 | 2619 | 2623 | 2625 | 2627 | 2628 | 2628 |
| 15 | 2618 | 2625 | 2638 | 2670 | 2688 | 2712 | 2700 | 2651 | 2576 | 2550 |
| 20 | 2405 | 2409 | 2421 | 2436 | 2451 | 2467 | 2477 | 2481 | 2514 | 2581 |
| 25 | 2176 | 2179 | 2188 | 2196 | 2207 | 2222 | 2247 | 2291 | 2336 | 2357 |
| 30 | 2117 | 2119 | 2123 | 2123 | 2116 | 2083 | 2086 | 2096 | 2106 | 2130 |
| 35 | 1825 | 1829 | 1838 | 1850 | 1868 | 1902 | 1960 | 2025 | 2004 | 1973 |
| 40 | 1688 | 1683 | 1679 | 1684 | 1691 | 1703 | 1720 | 1740 | 1779 | 1851 |
| 45 | 1506 | 1512 | 1522 | 1535 | 1555 | 1573 | 1593 | 1563 | 1565 | 1576 |
| 50 | 1420 | 1425 | 1439 | 1460 | 1459 | 1402 | 1385 | 1385 | 1407 | 1410 |
| 55 | 1404 | 1404 | 1392 | 1364 | 1328 | 1299 | 1307 | 1294 | 1263 | 1211 |
| 60 | 1401 | 1418 | 1456 | 1462 | 1475 | 1460 | 1374 | 1302 | 1186 | 1130 |
| 65 | 1370 | 1426 | 1501 | 1541 | 1578 | 1605 | 1578 | 1478 | 1368 | 1265 |
| 70 | 1277 | 1392 | 1564 | 1707 | 1816 | 1861 | 1904 | 1919 | 1802 | 1630 |
| 75 | 1034 | 1226 | 1551 | 1827 | 2087 | 2304 | 2447 | 2512 | 2441 | 2270 |
| 80 | 3304 | 3389 | 3542 | 3606 | 3608 | 3555 | 3479 | 3429 | 3343 | 3217 |
| 85 | 5473 | 5573 | 5698 | 5736 | 5688 | 5570 | 5370 | 5087 | 4741 | 4321 |
| 90 | 8844 | 8851 | 8834 | 8691 | 8458 | 8131 | 7699 | 7146 | 6526 | 5792 |
| 95 | 9496 | 9513 | 9526 | 9436 | 9199 | 8900 | 8435 | 7855 | 7207 | 6471 |
| 100 | 10234 | 10290 | 10395 | 10421 | 10251 | 10036 | 9720 | 9251 | 8698 | 7953 |
| 105 | 13410 | 13427 | 13418 | 13306 | 12987 | 12568 | 11937 | 11095 | 10204 | 9290 |
| 110 | 14955 | 14930 | 14824 | 14593 | 14153 | 13543 | 13069 | 12574 | 11939 | 11172 |
| 115 | 16594 | 16617 | 16671 | 16648 | 16359 | 15868 | 15396 | 14695 | 13789 | 12660 |
| 120 | 19248 | 19210 | 19026 | 18728 | 18267 | 17659 | 16850 | 15919 | 14801 | 13612 |
| 125 | 19821 | 19800 | 19676 | 19369 | 18943 | 18238 | 17446 | 16648 | 15729 | 14724 |
| 130 | 19888 | 19884 | 19824 | 19598 | 19263 | 18866 | 18192 | 17507 | 16592 | 15707 |
| 135 | 20467 | 20457 | 20284 | 20041 | 19647 | 19213 | 18735 | 18135 | 17498 | 16789 |
| 140 | 20698 | 20710 | 20674 | 20534 | 20169 | 19819 | 19463 | 18693 | 17776 | 16741 |
| 145 | 20856 | 20813 | 20636 | 20360 | 19803 | 19252 | 18665 | 17784 | 17075 | 16102 |
| 150 | 19353 | 19330 | 19204 | 18913 | 18435 | 17691 | 17110 | 16929 | 17181 | 17451 |
| 155 | 17780 | 17773 | 17784 | 17785 | 17844 | 17983 | 18190 | 18157 | 17813 | 17463 |
| 160 | 17644 | 17653 | 17785 | 17892 | 17811 | 17510 | 17232 | 16832 | 16387 | 15811 |
| 165 | 15884 | 15781 | 15345 | 15189 | 15260 | 15266 | 15060 | 14785 | 14366 | 14009 |
| 170 | 13749 | 13797 | 13966 | 14064 | 14106 | 14069 | 14256 | 14495 | 14750 | 14918 |
| 175 | 15474 | 15469 | 15370 | 15213 | 15119 | 15026 | 14871 | 14804 | 14712 | 14604 |
| 180 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 |

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> | <u>95</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 |
| 5 | 2684 | 2683 | 2683 | 2682 | 2685 | 2693 | 2692 | 2703 | 2739 | 2782 |
| 10 | 2630 | 2632 | 2634 | 2633 | 2636 | 2640 | 2642 | 2642 | 2683 | 2750 |
| 15 | 2548 | 2548 | 2550 | 2550 | 2555 | 2560 | 2562 | 2561 | 2597 | 2670 |
| 20 | 2582 | 2483 | 2445 | 2442 | 2446 | 2455 | 2458 | 2456 | 2499 | 2551 |
| 25 | 2366 | 2424 | 2438 | 2333 | 2325 | 2335 | 2342 | 2342 | 2382 | 2415 |
| 30 | 2181 | 2215 | 2235 | 2316 | 2203 | 2207 | 2214 | 2213 | 2243 | 2259 |
| 35 | 1970 | 2001 | 2055 | 2083 | 2131 | 2057 | 2065 | 2065 | 2097 | 2093 |
| 40 | 1867 | 1834 | 1837 | 1891 | 1939 | 1937 | 1907 | 1911 | 1936 | 1922 |
| 45 | 1617 | 1709 | 1678 | 1675 | 1727 | 1776 | 1731 | 1740 | 1758 | 1741 |
| 50 | 1392 | 1413 | 1497 | 1518 | 1514 | 1559 | 1570 | 1565 | 1576 | 1563 |
| 55 | 1222 | 1204 | 1220 | 1304 | 1330 | 1341 | 1370 | 1378 | 1383 | 1383 |
| 60 | 1069 | 1012 | 1018 | 1036 | 1108 | 1123 | 1158 | 1175 | 1177 | 1180 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65 | 1106 | 947 | 851 | 828 | 857 | 911 | 926 | 965 | 965 | 962 |
| 70 | 1390 | 1099 | 873 | 690 | 677 | 675 | 716 | 743 | 761 | 744 |
| 75 | 2008 | 1613 | 1174 | 786 | 543 | 454 | 492 | 520 | 542 | 524 |
| 80 | 2839 | 2464 | 1862 | 1233 | 762 | 532 | 289 | 326 | 353 | 342 |
| 85 | 3778 | 3015 | 2484 | 1760 | 1156 | 681 | 496 | 165 | 182 | 237 |
| 90 | 4975 | 4106 | 3039 | 2439 | 1737 | 1085 | 632 | 490 | 173 | 234 |
| 95 | 5655 | 4819 | 4003 | 3056 | 2452 | 1739 | 1162 | 734 | 590 | 433 |
| 100 | 7084 | 5998 | 5039 | 4168 | 3172 | 2518 | 1823 | 1389 | 1082 | 885 |
| 105 | 8402 | 7466 | 6425 | 5340 | 4220 | 3389 | 2735 | 2248 | 1868 | 1525 |
| 110 | 10127 | 8805 | 7504 | 6383 | 5362 | 4522 | 3887 | 3329 | 2886 | 2429 |
| 115 | 11277 | 9750 | 8578 | 7547 | 6589 | 5847 | 5129 | 4617 | 4257 | 3659 |
| 120 | 12397 | 11168 | 10026 | 9002 | 8110 | 7257 | 6904 | 6413 | 6222 | 5535 |
| 125 | 13660 | 12629 | 11642 | 10656 | 9455 | 9457 | 8775 | 8413 | 8428 | 7593 |
| 130 | 14845 | 14011 | 12897 | 11425 | 11381 | 11464 | 10121 | 10321 | 10302 | 9286 |
| 135 | 15744 | 14497 | 13112 | 13182 | 13606 | 12670 | 11299 | 12410 | 12193 | 10740 |
| 140 | 15543 | 14606 | 14850 | 15286 | 14636 | 13243 | 12745 | 14041 | 13777 | 12017 |
| 145 | 15932 | 16488 | 16646 | 16108 | 15146 | 13870 | 14604 | 15287 | 14850 | 13206 |
| 150 | 17560 | 17253 | 16607 | 15715 | 14751 | 14711 | 15854 | 15927 | 15669 | 14225 |
| 155 | 17004 | 16359 | 15486 | 14708 | 14627 | 15378 | 15801 | 15614 | 15412 | 14382 |
| 160 | 15207 | 14515 | 14016 | 14108 | 14674 | 14940 | 14655 | 14274 | 14065 | 13328 |
| 165 | 13966 | 14157 | 14526 | 14781 | 14685 | 14363 | 13960 | 13663 | 13556 | 13002 |
| 170 | 15031 | 14955 | 14815 | 14572 | 14307 | 14141 | 14044 | 13965 | 13895 | 13596 |
| 175 | 14552 | 14515 | 14472 | 14419 | 14379 | 14384 | 14423 | 14423 | 14399 | 14276 |
| 180 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 |

Vert. Horizontal Angles

| | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 |
| 5 | 2806 | 2807 | 2797 | 2779 | 2758 | 2748 | 2748 | 2755 | 2758 | 2756 |
| 10 | 2746 | 2708 | 2681 | 2692 | 2700 | 2710 | 2722 | 2760 | 2795 | 2814 |
| 15 | 2628 | 2600 | 2612 | 2626 | 2685 | 2739 | 2747 | 2746 | 2743 | 2738 |
| 20 | 2498 | 2503 | 2531 | 2613 | 2631 | 2638 | 2641 | 2657 | 2653 | 2643 |
| 25 | 2372 | 2395 | 2479 | 2497 | 2501 | 2525 | 2523 | 2518 | 2512 | 2492 |
| 30 | 2238 | 2317 | 2349 | 2362 | 2373 | 2367 | 2363 | 2323 | 2259 | 2206 |
| 35 | 2105 | 2183 | 2192 | 2205 | 2199 | 2166 | 2104 | 2042 | 2008 | 1986 |
| 40 | 1973 | 2018 | 2034 | 2025 | 1987 | 1905 | 1858 | 1846 | 1881 | 1900 |
| 45 | 1807 | 1837 | 1834 | 1791 | 1713 | 1679 | 1710 | 1732 | 1681 | 1685 |
| 50 | 1625 | 1640 | 1605 | 1527 | 1502 | 1548 | 1510 | 1507 | 1526 | 1563 |
| 55 | 1421 | 1412 | 1349 | 1317 | 1348 | 1328 | 1357 | 1414 | 1512 | 1724 |
| 60 | 1197 | 1162 | 1117 | 1140 | 1142 | 1209 | 1363 | 1600 | 1799 | 1949 |
| 65 | 952 | 907 | 922 | 952 | 1063 | 1263 | 1529 | 1728 | 1890 | 2007 |
| 70 | 713 | 703 | 759 | 894 | 1110 | 1351 | 1560 | 1711 | 1793 | 1822 |
| 75 | 515 | 565 | 692 | 878 | 1083 | 1269 | 1394 | 1460 | 1516 | 1561 |
| 80 | 398 | 502 | 638 | 813 | 952 | 1095 | 1191 | 1251 | 1275 | 1271 |
| 85 | 333 | 466 | 610 | 737 | 852 | 965 | 1082 | 1175 | 1227 | 1251 |
| 90 | 338 | 461 | 606 | 732 | 847 | 953 | 1044 | 1111 | 1156 | 1185 |
| 95 | 472 | 548 | 643 | 743 | 854 | 962 | 1055 | 1119 | 1174 | 1195 |
| 100 | 829 | 841 | 869 | 868 | 864 | 884 | 923 | 935 | 933 | 930 |
| 105 | 1400 | 1336 | 1312 | 1261 | 1190 | 1119 | 1041 | 996 | 967 | 941 |
| 110 | 2239 | 2046 | 1932 | 1816 | 1739 | 1627 | 1542 | 1434 | 1332 | 1229 |
| 115 | 3415 | 3098 | 2861 | 2689 | 2488 | 2364 | 2259 | 2094 | 1911 | 1797 |
| 120 | 5230 | 4765 | 4313 | 3924 | 3651 | 3447 | 3200 | 3006 | 2746 | 2557 |
| 125 | 7174 | 6796 | 6234 | 5671 | 5172 | 4830 | 4494 | 4119 | 3679 | 3439 |
| 130 | 8818 | 8348 | 8015 | 7369 | 6747 | 6114 | 5739 | 5341 | 4870 | 4500 |
| 135 | 10672 | 9537 | 9627 | 9091 | 8427 | 7762 | 7148 | 6555 | 6123 | 5780 |

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| | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 140 | 12513 | 10809 | 10572 | 10767 | 10164 | 9513 | 8851 | 8079 | 7508 | 6969 |
| 145 | 13245 | 13091 | 11098 | 11384 | 11682 | 11149 | 10507 | 9903 | 9269 | 8701 |
| 150 | 13706 | 14448 | 12884 | 11620 | 11896 | 12367 | 12161 | 11685 | 11050 | 10481 |
| 155 | 13310 | 13783 | 13996 | 12739 | 11783 | 11500 | 11850 | 12298 | 12211 | 11872 |
| 160 | 12369 | 11862 | 12281 | 12492 | 11904 | 11040 | 10659 | 10324 | 10604 | 10756 |
| 165 | 12350 | 11638 | 11250 | 11550 | 11816 | 11966 | 11781 | 11435 | 10982 | 10674 |
| 170 | 13105 | 12730 | 12295 | 11797 | 11505 | 11496 | 11700 | 11913 | 12099 | 12223 |
| 175 | 14125 | 13914 | 13721 | 13456 | 13220 | 12982 | 12791 | 12681 | 12569 | 12485 |
| 180 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 |

Vert. Horizontal Angles
Angles

| | 150 | 155 | 160 | 165 | 170 | 175 | 180 |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 | 2766 |
| 5 | 2754 | 2753 | 2752 | 2751 | 2748 | 2747 | 2746 |
| 10 | 2818 | 2813 | 2810 | 2806 | 2800 | 2799 | 2803 |
| 15 | 2733 | 2737 | 2740 | 2735 | 2730 | 2726 | 2733 |
| 20 | 2632 | 2626 | 2617 | 2611 | 2611 | 2610 | 2611 |
| 25 | 2454 | 2416 | 2378 | 2347 | 2324 | 2314 | 2314 |
| 30 | 2168 | 2142 | 2123 | 2106 | 2097 | 2093 | 2095 |
| 35 | 1999 | 2016 | 2008 | 2009 | 2014 | 2014 | 2015 |
| 40 | 1876 | 1840 | 1830 | 1827 | 1822 | 1825 | 1821 |
| 45 | 1689 | 1694 | 1708 | 1722 | 1732 | 1735 | 1743 |
| 50 | 1619 | 1672 | 1738 | 1866 | 1958 | 2019 | 2035 |
| 55 | 1915 | 2040 | 2143 | 2198 | 2235 | 2267 | 2270 |
| 60 | 2080 | 2180 | 2246 | 2293 | 2328 | 2349 | 2355 |
| 65 | 2077 | 2114 | 2124 | 2125 | 2125 | 2121 | 2112 |
| 70 | 1821 | 1808 | 1788 | 1766 | 1754 | 1746 | 1744 |
| 75 | 1551 | 1533 | 1508 | 1494 | 1481 | 1479 | 1478 |
| 80 | 1254 | 1233 | 1209 | 1195 | 1183 | 1177 | 1172 |
| 85 | 1263 | 1270 | 1269 | 1272 | 1276 | 1284 | 1288 |
| 90 | 1198 | 1206 | 1200 | 1189 | 1188 | 1192 | 1196 |
| 95 | 1199 | 1203 | 1192 | 1174 | 1166 | 1163 | 1163 |
| 100 | 936 | 953 | 955 | 946 | 944 | 947 | 951 |
| 105 | 909 | 871 | 827 | 771 | 741 | 720 | 712 |
| 110 | 1138 | 1078 | 1031 | 986 | 970 | 962 | 954 |
| 115 | 1661 | 1564 | 1482 | 1424 | 1411 | 1398 | 1386 |
| 120 | 2386 | 2218 | 2098 | 2029 | 2021 | 1999 | 1985 |
| 125 | 3234 | 3019 | 2857 | 2749 | 2708 | 2669 | 2641 |
| 130 | 4187 | 3885 | 3654 | 3514 | 3450 | 3389 | 3355 |
| 135 | 5378 | 5093 | 4831 | 4651 | 4522 | 4428 | 4401 |
| 140 | 6583 | 6252 | 6024 | 5870 | 5761 | 5658 | 5623 |
| 145 | 8219 | 7730 | 7346 | 7108 | 6932 | 6812 | 6777 |
| 150 | 9899 | 9472 | 9138 | 8866 | 8642 | 8471 | 8421 |
| 155 | 11537 | 11168 | 10854 | 10565 | 10345 | 10209 | 10172 |
| 160 | 10991 | 11303 | 11536 | 11625 | 11683 | 11661 | 11645 |
| 165 | 10466 | 10290 | 10299 | 10408 | 10479 | 10571 | 10659 |
| 170 | 12309 | 12259 | 12017 | 11728 | 11509 | 11708 | 11806 |
| 175 | 12378 | 12245 | 12296 | 12537 | 12726 | 12823 | 12764 |
| 180 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 | 14431 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 1004.06 | N.A. | 1.50 |
| 0-30 | 2096.44 | N.A. | 3.20 |
| 0-40 | 3367.07 | N.A. | 5.20 |
| 0-60 | 6021.46 | N.A. | 9.30 |
| 0-80 | 8929.87 | N.A. | 13.80 |
| 0-90 | 11458.98 | N.A. | 17.70 |
| 10-90 | 11199.48 | N.A. | 17.30 |
| 20-40 | 2363.01 | N.A. | 3.60 |
| 20-50 | 3671.93 | N.A. | 5.70 |
| 40-70 | 4042.96 | N.A. | 6.20 |
| 60-80 | 2908.41 | N.A. | 4.50 |
| 70-80 | 1519.83 | N.A. | 2.30 |
| 80-90 | 2529.11 | N.A. | 3.90 |
| 90-110 | 8870.13 | N.A. | 13.70 |
| 90-120 | 15765.23 | N.A. | 24.30 |
| 90-130 | 24229.15 | N.A. | 37.30 |
| 90-150 | 41783.51 | N.A. | 64.40 |
| 90-180 | 53437.52 | N.A. | 82.30 |
| 110-180 | 44567.39 | N.A. | 68.70 |
| 0-180 | 64896.5 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 259.50 |
| 10-20 | 744.57 |
| 20-30 | 1092.38 |
| 30-40 | 1270.63 |
| 40-50 | 1308.92 |
| 50-60 | 1345.47 |
| 60-70 | 1388.58 |
| 70-80 | 1519.83 |
| 80-90 | 2529.11 |
| 90-100 | 3747.67 |
| 100-110 | 5122.46 |
| 110-120 | 6895.1 |
| 120-130 | 8463.92 |
| 130-140 | 9049.09 |
| 140-150 | 8505.27 |
| 150-160 | 6583.35 |
| 160-170 | 3760.69 |
| 170-180 | 1309.97 |

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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 | |
| 0 | 99 | 99 | 99 | 99 | 88 | 88 | 88 | 88 | 65 | 65 | 65 | 45 | 45 | 45 | 26 | 26 | 26 | 18 |
| 1 | 89 | 84 | 80 | 76 | 78 | 74 | 70 | 67 | 55 | 52 | 50 | 37 | 35 | 34 | 21 | 20 | 19 | 12 |
| 2 | 81 | 73 | 67 | 61 | 70 | 64 | 59 | 54 | 47 | 44 | 41 | 32 | 30 | 28 | 18 | 16 | 15 | 9 |
| 3 | 73 | 64 | 56 | 50 | 64 | 56 | 50 | 45 | 41 | 37 | 34 | 28 | 25 | 23 | 15 | 14 | 13 | 7 |
| 4 | 67 | 56 | 48 | 42 | 58 | 49 | 43 | 38 | 37 | 32 | 28 | 25 | 22 | 19 | 14 | 12 | 11 | 6 |
| 5 | 61 | 50 | 42 | 36 | 53 | 44 | 37 | 32 | 32 | 28 | 24 | 22 | 19 | 17 | 12 | 11 | 9 | 5 |
| 6 | 56 | 44 | 36 | 31 | 49 | 39 | 32 | 27 | 29 | 24 | 21 | 20 | 17 | 14 | 11 | 9 | 8 | 4 |
| 7 | 52 | 40 | 32 | 27 | 45 | 35 | 28 | 24 | 26 | 21 | 18 | 18 | 15 | 12 | 10 | 8 | 7 | 4 |
| 8 | 48 | 36 | 28 | 23 | 42 | 32 | 25 | 21 | 24 | 19 | 16 | 16 | 13 | 11 | 9 | 7 | 6 | 3 |
| 9 | 44 | 33 | 25 | 20 | 39 | 29 | 23 | 18 | 22 | 17 | 14 | 15 | 12 | 10 | 8 | 7 | 6 | 3 |
| 10 | 41 | 30 | 23 | 18 | 36 | 26 | 20 | 16 | 20 | 15 | 12 | 14 | 11 | 9 | 8 | 6 | 5 | 3 |

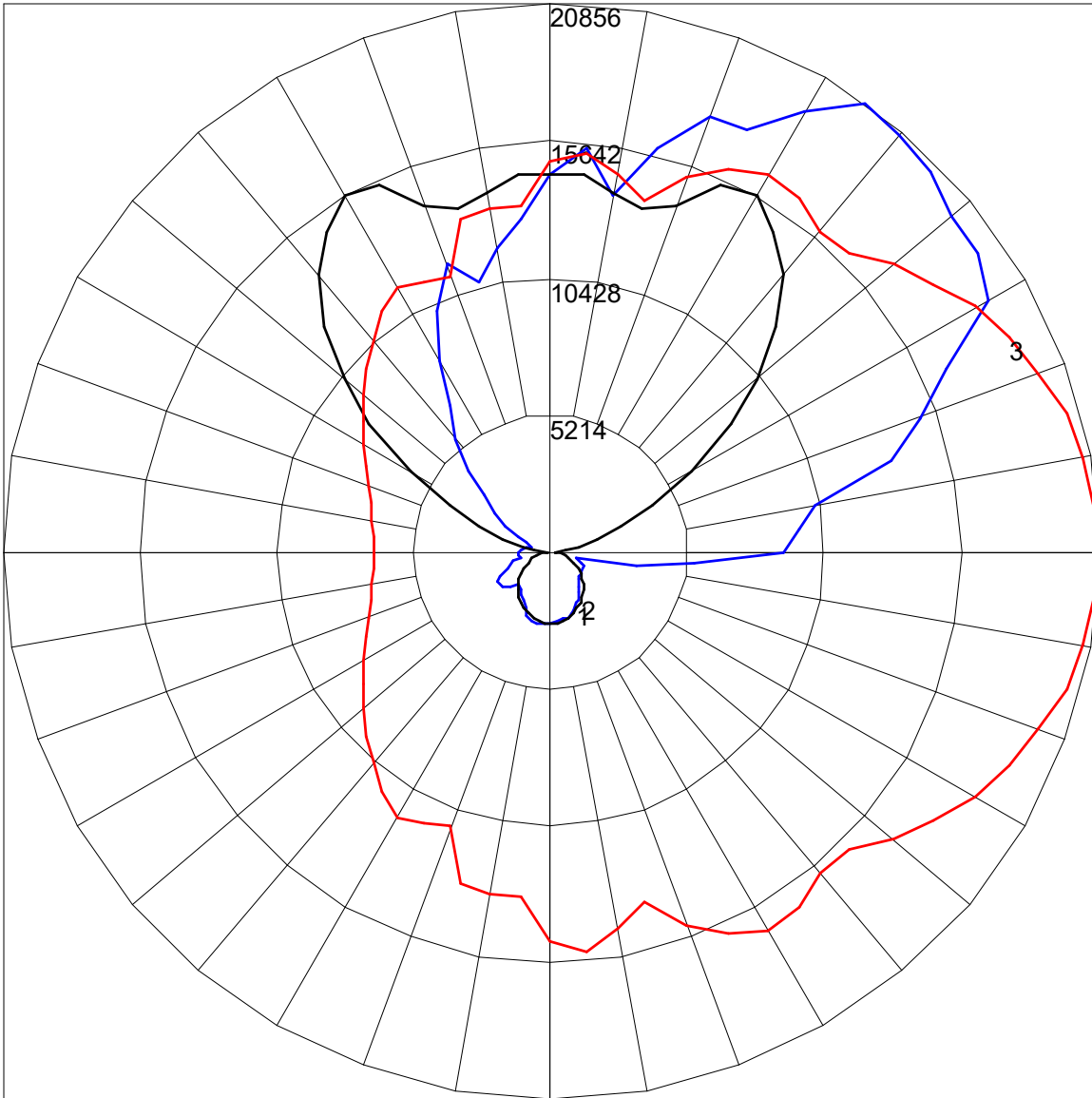
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UGR TABLE - CORRECTED

| 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 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 3H | 14.5 | 14.5 | 14.5 | 14.5 | 15.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 4H | 14.5 | 14.5 | 14.7 | 15.2 | 16.9 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 6H | 17.4 | 17.9 | 18.6 | 19.1 | 20.8 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 8H | 19.8 | 20.3 | 21.0 | 21.5 | 23.2 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 12H | 22.1 | 22.6 | 23.3 | 23.7 | 25.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 4H | 2H | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 3H | 14.5 | 14.5 | 14.6 | 15.1 | 16.8 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 4H | 15.4 | 15.9 | 16.6 | 17.0 | 18.8 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 6H | 19.3 | 19.7 | 20.5 | 20.9 | 22.6 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 8H | 21.7 | 22.0 | 22.9 | 23.2 | 24.9 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| | 12H | 24.0 | 24.3 | 25.2 | 25.5 | 27.2 | 14.5 | 14.5 | 14.5 | 14.5 | 14.6 |
| 8H | 4H | 16.4 | 16.8 | 17.6 | 18.0 | 19.7 | 14.5 | 14.5 | 14.5 | 14.5 | 16.2 |
| | 6H | 20.5 | 20.9 | 21.8 | 22.1 | 23.8 | 14.5 | 14.5 | 15.3 | 15.7 | 17.4 |
| | 8H | 23.0 | 23.3 | 24.2 | 24.5 | 26.2 | 14.5 | 14.8 | 15.8 | 16.0 | 17.8 |
| | 12H | 25.5 | 25.7 | 26.7 | 26.9 | 28.7 | 14.8 | 15.0 | 16.0 | 16.2 | 18.0 |
| 12H | 4H | 16.6 | 16.9 | 17.8 | 18.1 | 19.8 | 14.5 | 14.5 | 14.9 | 15.3 | 17.0 |
| | 6H | 20.8 | 21.1 | 22.1 | 22.3 | 24.1 | 15.4 | 15.7 | 16.6 | 16.9 | 18.7 |
| | 8H | 23.4 | 23.6 | 24.6 | 24.9 | 26.6 | 16.2 | 16.4 | 17.4 | 17.6 | 19.4 |

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 20856 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)