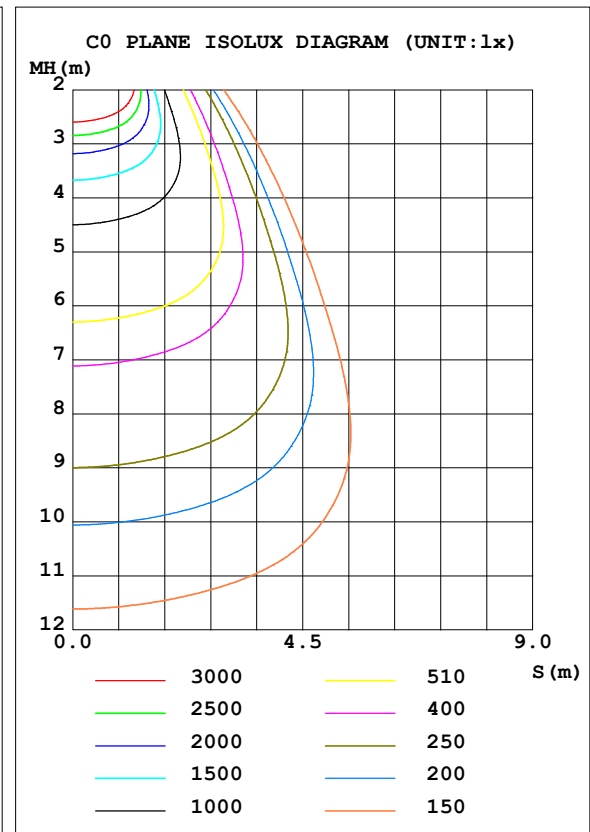
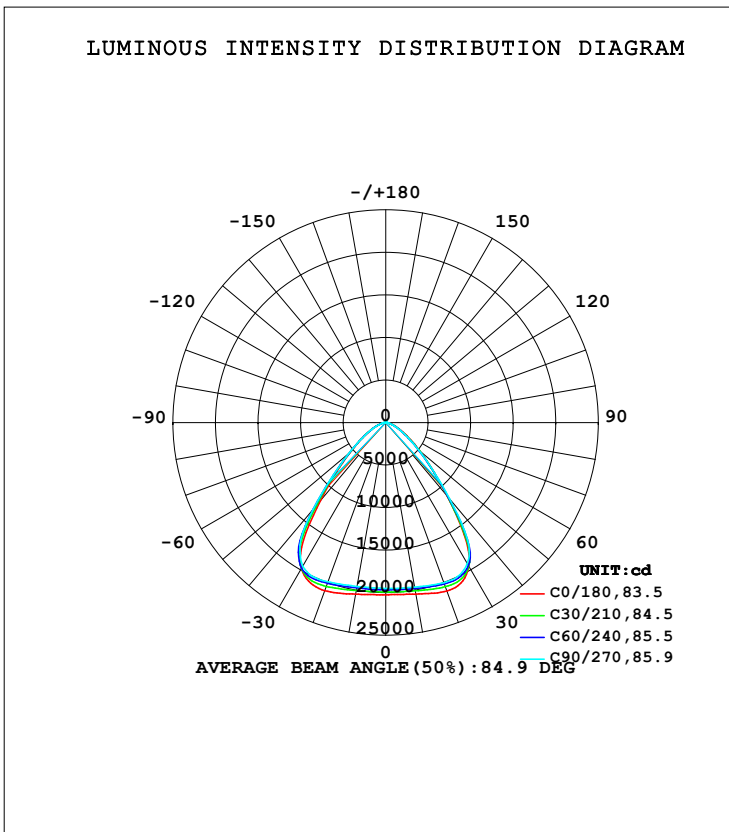


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| SPEC.: 240W 5000K | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 166.91 lm/W | | | |
|-----------------------------|---------|-----------------------------------|--------|---------------------|-----------|
| MODE/ASD-UHB2AHV-PRO-240-BK | | I _{max} (cd) | 21082 | S/MH (C0/180) | 1.21 |
| NOMINAL POWER (W) | 240 | LOR (%) | 100.0 | S/MH (C90/270) | 1.26 |
| RATED VOLTAGE (V) | 277 | TOTAL FLUX (lm) | 39570 | η UP, DN (C0-180) | 0.5, 48.7 |
| NOMINAL FLUX (lm) | 39570.2 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.6, 50.2 |
| LAMPS INSIDE | 1 | η up (%) | 1.1 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE (V) | 277 | η down (%) | 98.9 | CIBSE SHR MAX | 1.25 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: S
 Test Date: 2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

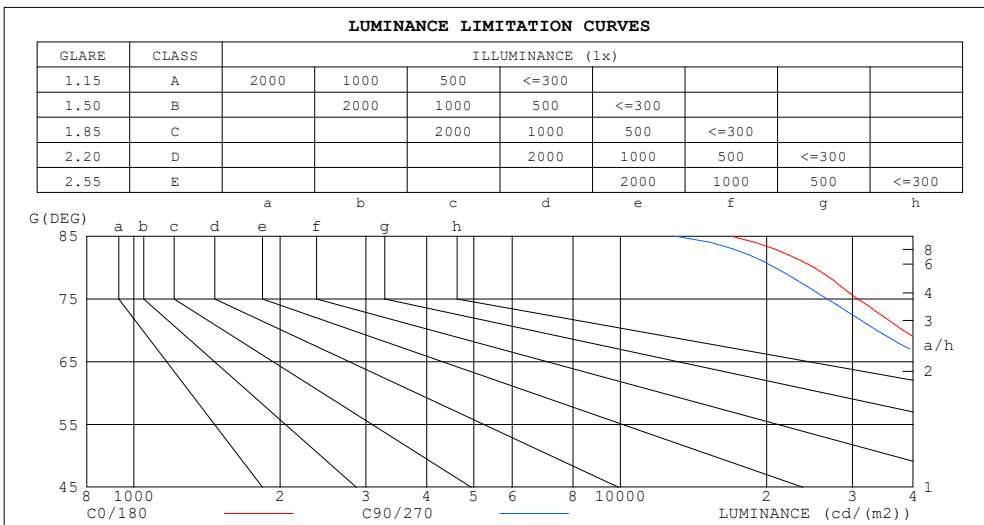
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|--------|--------|--------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 2046 | 1993 | 1963 | 1948 | 2047 | 1987 | 1955 | 1944 | 0- 10 | 1879 | 1879 | 4.75,4.75 |
| 20 | 2106 | 2032 | 2002 | 1985 | 2101 | 2027 | 1992 | 1992 | 10- 20 | 5664 | 7542 | 19.1,19.1 |
| 30 | 1954 | 1958 | 1917 | 1905 | 1983 | 1976 | 1949 | 1899 | 20- 30 | 9258 | 16800 | 42.5,42.5 |
| 40 | 1120 | 1151 | 1166 | 1172 | 1198 | 1281 | 1331 | 1203 | 30- 40 | 10205 | 27005 | 68.2,68.2 |
| 50 | 529.2 | 523.8 | 511.5 | 539.5 | 551.2 | 557.3 | 570.5 | 555.0 | 40- 50 | 6346 | 33351 | 84.3,84.3 |
| 60 | 248.1 | 238.7 | 228.0 | 244.0 | 251.6 | 249.0 | 254.7 | 254.7 | 50- 60 | 3339 | 36689 | 92.7,92.7 |
| 70 | 105.0 | 98.27 | 92.65 | 100.1 | 107.6 | 104.4 | 104.7 | 105.0 | 60- 70 | 1633 | 38322 | 96.8,96.8 |
| 80 | 34.97 | 31.71 | 29.05 | 31.94 | 36.96 | 34.45 | 34.18 | 34.21 | 70- 80 | 669.1 | 38991 | 98.5,98.5 |
| 90 | 0.5383 | 0.5304 | 0.5270 | 0.5194 | 1.617 | 1.572 | 1.535 | 1.551 | 80- 90 | 143.6 | 39135 | 98.9,98.9 |
| 100 | 1.106 | 1.098 | 1.102 | 1.087 | 2.309 | 2.236 | 2.178 | 2.220 | 90-100 | 14.37 | 39149 | 98.9,98.9 |
| 110 | 2.313 | 2.329 | 2.362 | 2.276 | 3.595 | 3.512 | 3.443 | 3.524 | 100-110 | 23.39 | 39173 | 99,99 |
| 120 | 4.619 | 4.730 | 4.781 | 4.549 | 5.946 | 5.912 | 5.830 | 5.929 | 110-120 | 39.51 | 39212 | 99.1,99.1 |
| 130 | 7.834 | 7.943 | 7.969 | 7.659 | 9.242 | 9.204 | 9.080 | 9.147 | 120-130 | 61.20 | 39273 | 99.2,99.2 |
| 140 | 11.05 | 11.07 | 11.03 | 10.75 | 12.46 | 12.30 | 12.13 | 12.13 | 130-140 | 77.76 | 39351 | 99.4,99.4 |
| 150 | 13.70 | 13.65 | 13.58 | 13.34 | 14.93 | 14.62 | 14.40 | 14.33 | 140-150 | 80.33 | 39431 | 99.6,99.6 |
| 160 | 16.46 | 16.42 | 16.28 | 15.95 | 17.17 | 16.86 | 16.57 | 16.44 | 150-160 | 69.92 | 39501 | 99.8,99.8 |
| 170 | 19.62 | 19.38 | 19.04 | 18.76 | 19.87 | 19.42 | 19.08 | 18.85 | 160-170 | 50.21 | 39551 | 100,100 |
| 180 | 21.03 | 20.59 | 20.07 | 19.92 | 21.19 | 20.48 | 20.13 | 19.88 | 170-180 | 18.79 | 39570 | 100,100 |
| DEG | LUMINOUS INTENSITY:X10cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 16945 | 13008 |
| 80 | 25051 | 20808 |
| 75 | 30801 | 26645 |
| 70 | 38204 | 33698 |
| 65 | 48517 | 43550 |
| 60 | 61737 | 56728 |
| 55 | 78984 | 74418 |
| 50 | 102413 | 98998 |
| 45 | 134787 | 135296 |

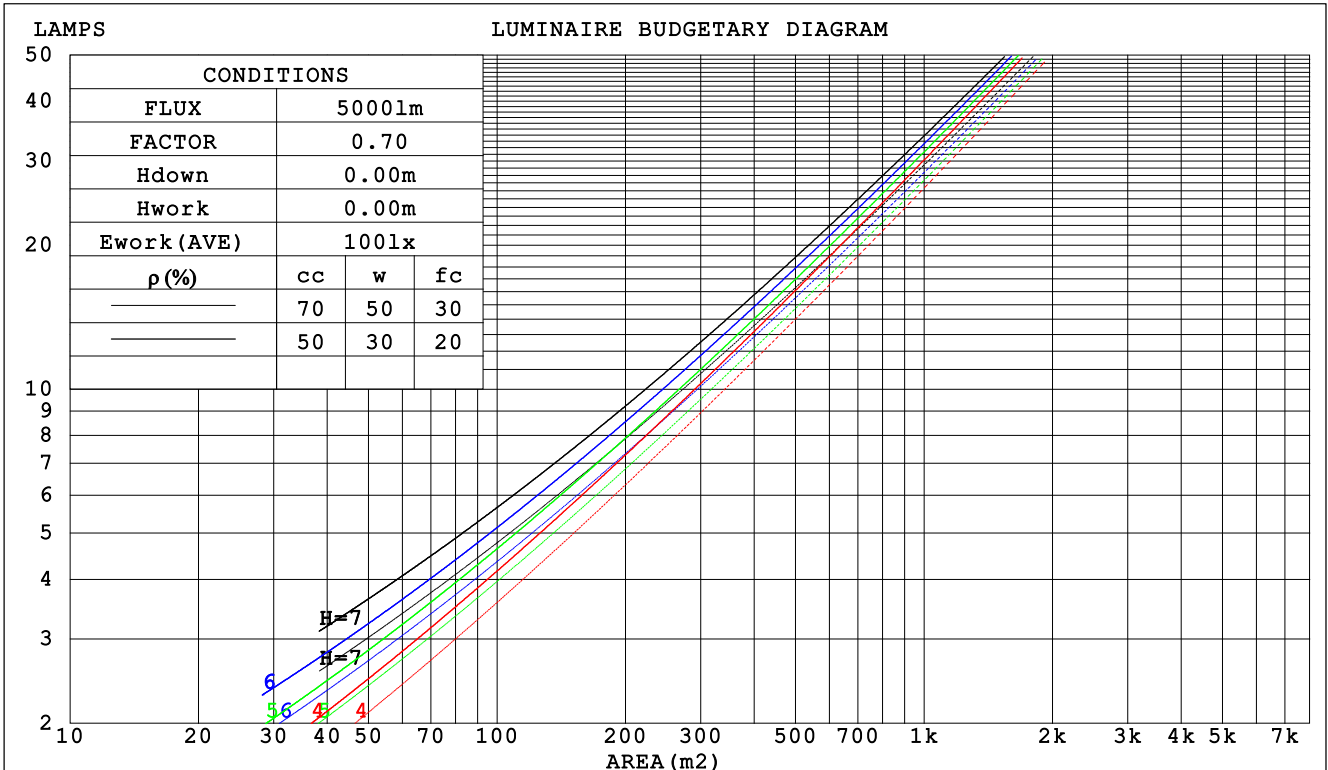
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρw | | | | | | | | | | | | | | | | |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0 | 1.08 | 1.05 | 1.02 | 1.05 | 1.02 | .00 | 1.01 | .99 | .97 | .97 | .95 | .93 | .93 | .92 | .91 | .89 |
| 2.0 | .97 | .92 | .88 | .95 | .91 | .86 | .92 | .88 | .84 | .89 | .85 | .82 | .86 | .83 | .80 | .78 |
| 3.0 | .88 | .82 | .76 | .86 | .80 | .76 | .83 | .78 | .74 | .81 | .76 | .73 | .78 | .75 | .72 | .70 |
| 4.0 | .80 | .73 | .67 | .79 | .72 | .67 | .76 | .70 | .66 | .74 | .69 | .65 | .72 | .67 | .64 | .62 |
| 5.0 | .73 | .65 | .60 | .72 | .65 | .60 | .70 | .64 | .59 | .68 | .62 | .58 | .66 | .61 | .57 | .56 |
| 6.0 | .67 | .59 | .54 | .66 | .59 | .53 | .64 | .58 | .53 | .62 | .57 | .52 | .61 | .56 | .52 | .50 |
| 7.0 | .61 | .54 | .48 | .60 | .53 | .48 | .59 | .53 | .48 | .57 | .52 | .47 | .56 | .51 | .47 | .45 |
| 8.0 | .56 | .49 | .44 | .56 | .49 | .44 | .54 | .48 | .43 | .53 | .47 | .43 | .52 | .47 | .43 | .41 |
| 9.0 | .52 | .45 | .40 | .52 | .45 | .40 | .51 | .44 | .40 | .49 | .44 | .40 | .48 | .43 | .39 | .38 |
| 10.0 | .49 | .41 | .37 | .48 | .41 | .37 | .47 | .41 | .36 | .46 | .40 | .36 | .45 | .40 | .36 | .35 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .231 | .131 | .042 | .224 | .128 | .041 | .210 | .121 | .039 | .198 | .114 | .037 | .187 | .108 | .035 | |
| 2.0 | .224 | .123 | .038 | .218 | .120 | .037 | .206 | .114 | .036 | .195 | .109 | .034 | .185 | .105 | .033 | |
| 3.0 | .213 | .113 | .034 | .207 | .111 | .033 | .197 | .107 | .032 | .188 | .103 | .032 | .179 | .099 | .031 | |
| 4.0 | .201 | .105 | .031 | .197 | .103 | .030 | .188 | .100 | .030 | .179 | .096 | .029 | .172 | .093 | .028 | |
| 5.0 | .190 | .097 | .028 | .186 | .096 | .028 | .178 | .093 | .027 | .171 | .090 | .027 | .164 | .088 | .026 | |
| 6.0 | .180 | .090 | .026 | .176 | .089 | .026 | .169 | .087 | .025 | .162 | .084 | .025 | .156 | .082 | .024 | |
| 7.0 | .170 | .084 | .024 | .167 | .083 | .024 | .161 | .081 | .023 | .155 | .079 | .023 | .149 | .077 | .023 | |
| 8.0 | .161 | .079 | .022 | .158 | .078 | .022 | .153 | .076 | .022 | .147 | .075 | .022 | .142 | .073 | .021 | |
| 9.0 | .153 | .074 | .021 | .150 | .073 | .021 | .145 | .072 | .020 | .140 | .070 | .020 | .136 | .069 | .020 | |
| 10.0 | .146 | .070 | .019 | .143 | .069 | .019 | .138 | .068 | .019 | .134 | .067 | .019 | .130 | .065 | .019 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients (CCEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .199 | .199 | .199 | .170 | .170 | .170 | .116 | .116 | .116 | .067 | .067 | .067 | .021 | .021 | .021 | |
| 2.0 | .172 | .141 | .115 | .147 | .121 | .099 | .101 | .084 | .069 | .058 | .049 | .041 | .019 | .016 | .013 | |
| 3.0 | .162 | .122 | .091 | .139 | .106 | .079 | .095 | .073 | .055 | .055 | .043 | .033 | .018 | .014 | .011 | |
| 4.0 | .154 | .109 | .074 | .132 | .094 | .064 | .091 | .065 | .045 | .052 | .038 | .027 | .017 | .012 | .009 | |
| 5.0 | .146 | .098 | .062 | .126 | .084 | .054 | .086 | .059 | .038 | .050 | .035 | .023 | .016 | .011 | .007 | |
| 6.0 | .139 | .089 | .053 | .120 | .077 | .046 | .083 | .054 | .032 | .048 | .032 | .019 | .015 | .010 | .006 | |
| 7.0 | .133 | .082 | .046 | .115 | .071 | .040 | .079 | .050 | .028 | .046 | .029 | .017 | .015 | .010 | .006 | |
| 8.0 | .128 | .076 | .040 | .110 | .066 | .035 | .076 | .046 | .025 | .044 | .027 | .015 | .014 | .009 | .005 | |
| 9.0 | .122 | .071 | .036 | .105 | .062 | .032 | .073 | .043 | .023 | .043 | .026 | .013 | .014 | .008 | .004 | |
| 10.0 | .117 | .067 | .033 | .101 | .058 | .029 | .070 | .041 | .021 | .041 | .024 | .012 | .013 | .008 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|-----------------------------------------------------------|------------------|------|------|------|-------|----------------|------|------|------|------|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | | | | | | | | | |
| Lamp Flux:39570.2x1 lm | | | | | | | | | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | | | | | TYPE: | | | | | |
| MFR.: ASD LIGHTING CORP | | | | | | | | | | |
| | | | | | | | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 24.5 | 25.7 | 24.8 | 26.1 | 26.4 | 24.2 | 25.5 | 24.6 | 25.8 | 26.2 |
| 3H | 25.3 | 26.4 | 25.7 | 26.8 | 27.2 | 24.9 | 26.1 | 25.3 | 26.4 | 26.8 |
| 4H | 25.5 | 26.6 | 25.9 | 26.9 | 27.4 | 25.1 | 26.2 | 25.5 | 26.6 | 27.0 |
| 6H | 25.6 | 26.6 | 26.1 | 27.0 | 27.4 | 25.2 | 26.2 | 25.7 | 26.6 | 27.0 |
| 8H | 25.7 | 26.6 | 26.1 | 27.0 | 27.4 | 25.2 | 26.2 | 25.7 | 26.6 | 27.0 |
| 12H | 25.7 | 26.6 | 26.1 | 27.0 | 27.4 | 25.2 | 26.1 | 25.7 | 26.5 | 27.0 |
| 4H 2H | 24.7 | 25.7 | 25.1 | 26.1 | 26.5 | 24.5 | 25.5 | 24.9 | 25.9 | 26.3 |
| 3H | 25.6 | 26.5 | 26.1 | 26.9 | 27.4 | 25.4 | 26.2 | 25.8 | 26.6 | 27.1 |
| 4H | 25.9 | 26.7 | 26.4 | 27.2 | 27.6 | 25.6 | 26.4 | 26.1 | 26.8 | 27.3 |
| 6H | 26.2 | 26.8 | 26.7 | 27.3 | 27.8 | 25.8 | 26.5 | 26.3 | 26.9 | 27.4 |
| 8H | 26.2 | 26.8 | 26.7 | 27.3 | 27.8 | 25.8 | 26.4 | 26.3 | 26.9 | 27.4 |
| 12H | 26.2 | 26.8 | 26.7 | 27.3 | 27.8 | 25.8 | 26.4 | 26.3 | 26.9 | 27.4 |
| 8H 4H | 26.0 | 26.6 | 26.5 | 27.1 | 27.6 | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 |
| 6H | 26.3 | 26.8 | 26.8 | 27.3 | 27.8 | 25.9 | 26.4 | 26.4 | 26.9 | 27.4 |
| 8H | 26.3 | 26.8 | 26.9 | 27.3 | 27.8 | 26.0 | 26.4 | 26.5 | 27.0 | 27.5 |
| 12H | 26.4 | 26.8 | 26.9 | 27.3 | 27.9 | 26.0 | 26.4 | 26.5 | 26.9 | 27.5 |
| 12H 4H | 25.9 | 26.5 | 26.5 | 27.0 | 27.5 | 25.7 | 26.2 | 26.2 | 26.7 | 27.2 |
| 6H | 26.2 | 26.7 | 26.8 | 27.2 | 27.8 | 25.9 | 26.4 | 26.4 | 26.8 | 27.4 |
| 8H | 26.3 | 26.7 | 26.9 | 27.3 | 27.9 | 26.0 | 26.4 | 26.5 | 26.9 | 27.5 |
| CIE190: 2010 | | | | | | | | | | |
| | | | | | | | | | | |

CIE190: 2010
 Area: 0.080384 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

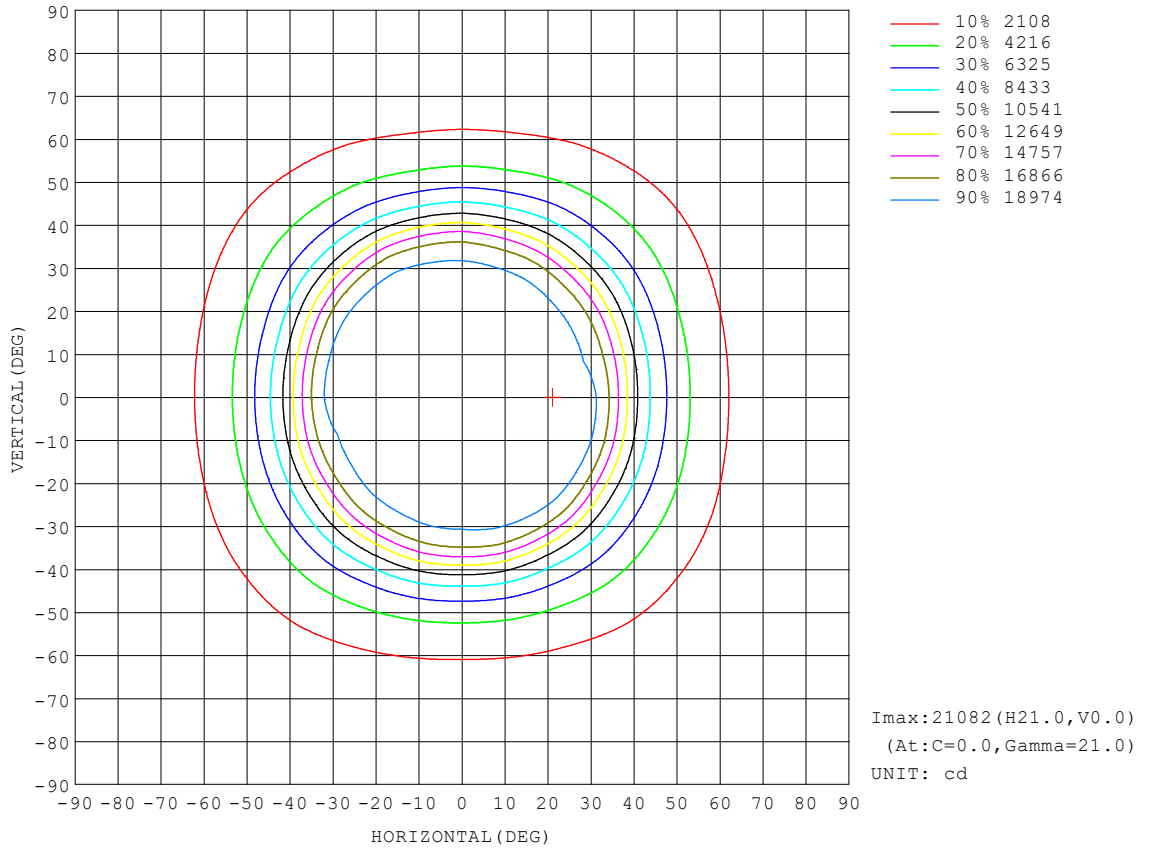
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 71 | 62 | 57 | 71 | 62 | 57 | 70 | 62 | 57 | 52 |
| 0.80 | 81 | 72 | 67 | 80 | 72 | 66 | 78 | 71 | 66 | 61 |
| 1.00 | 88 | 80 | 74 | 87 | 79 | 74 | 85 | 80 | 74 | 68 |
| 1.25 | 94 | 86 | 81 | 93 | 86 | 81 | 90 | 84 | 80 | 74 |
| 1.50 | 98 | 91 | 86 | 96 | 90 | 85 | 94 | 88 | 84 | 78 |
| 2.00 | 103 | 97 | 92 | 101 | 95 | 91 | 98 | 93 | 90 | 83 |
| 2.50 | 105 | 100 | 95 | 103 | 98 | 94 | 100 | 96 | 92 | 85 |
| 3.00 | 108 | 103 | 99 | 105 | 101 | 98 | 102 | 98 | 95 | 88 |
| 4.00 | 110 | 106 | 103 | 108 | 105 | 102 | 104 | 101 | 99 | 91 |
| 5.00 | 112 | 109 | 106 | 110 | 107 | 104 | 105 | 103 | 101 | 92 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

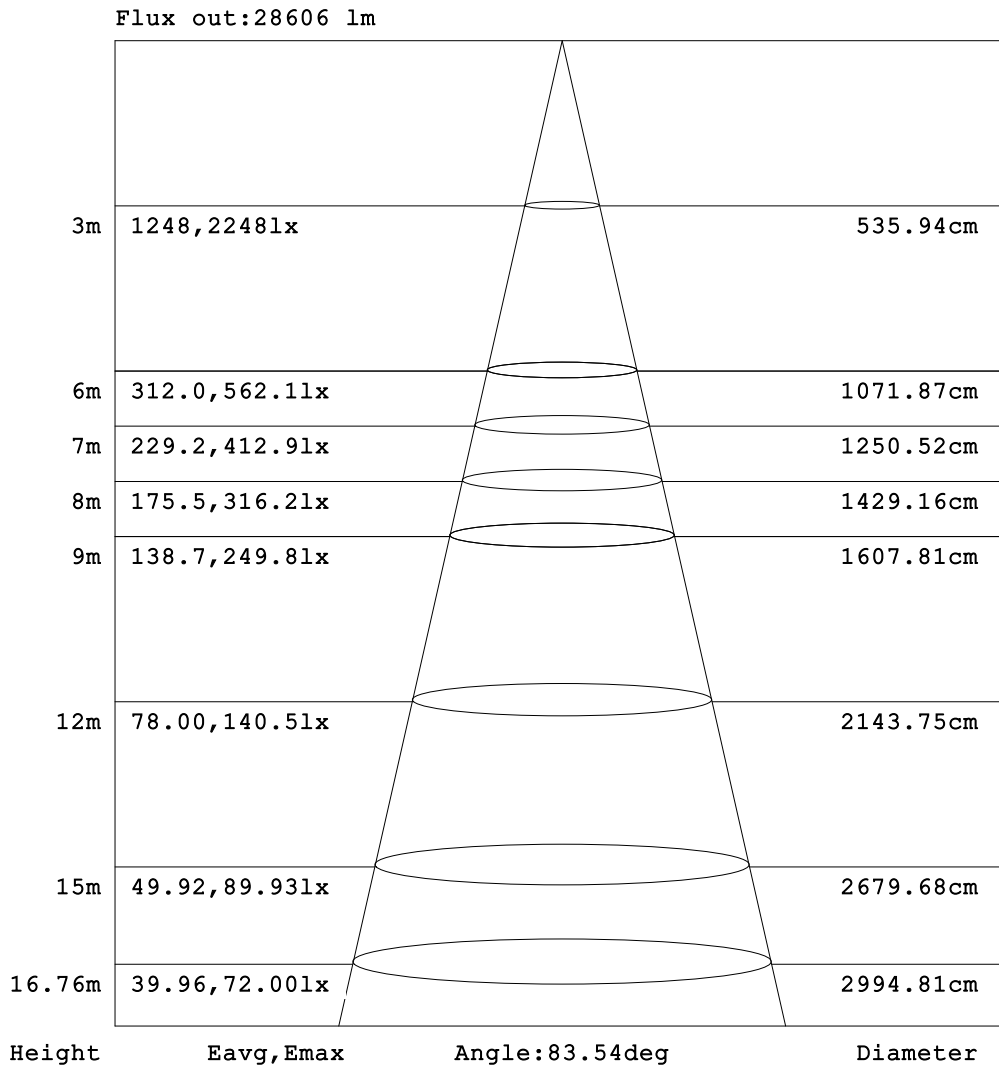


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |



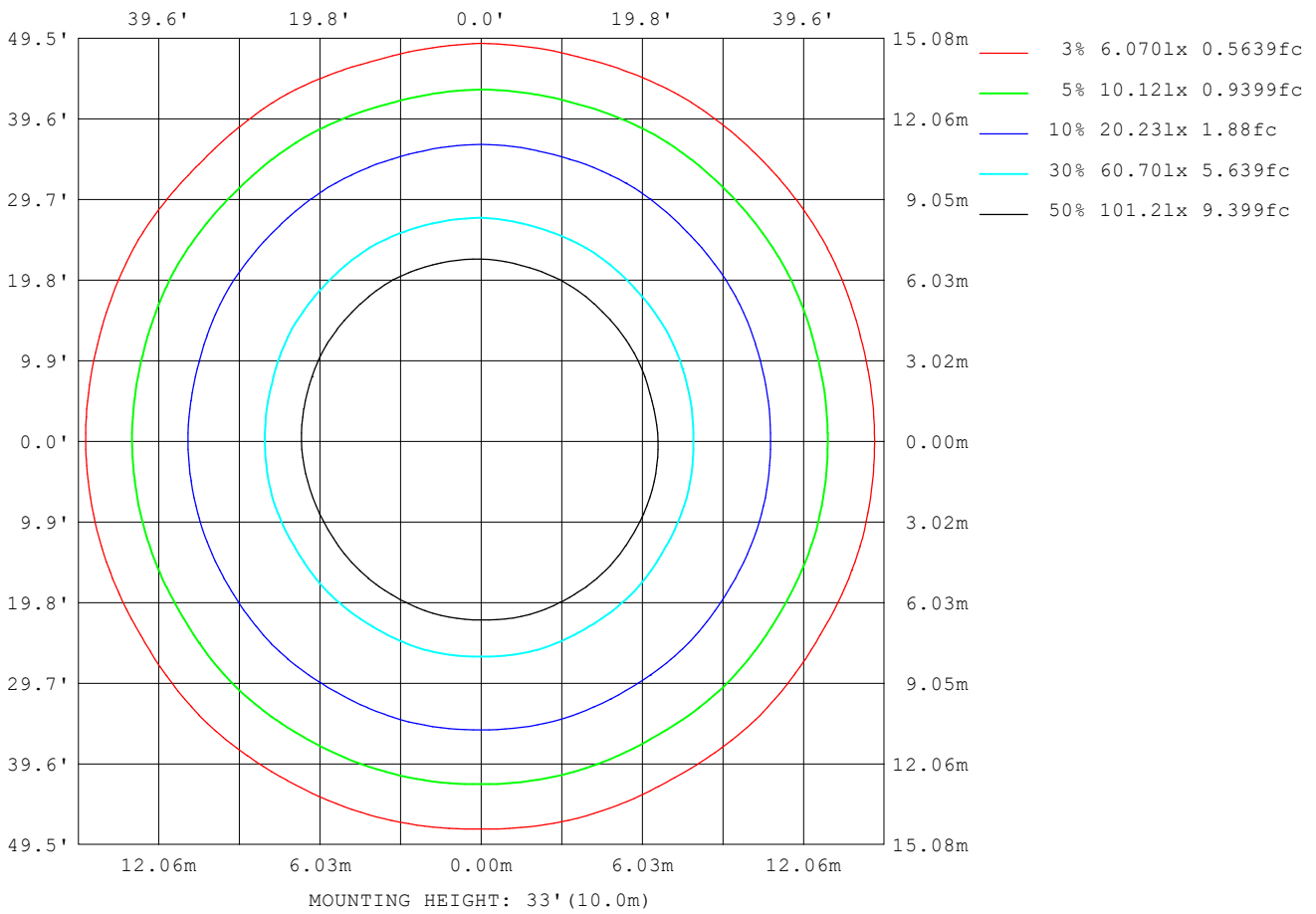
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---------------------------------------------------------------------------------------------------|--------------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|-------------------------------------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

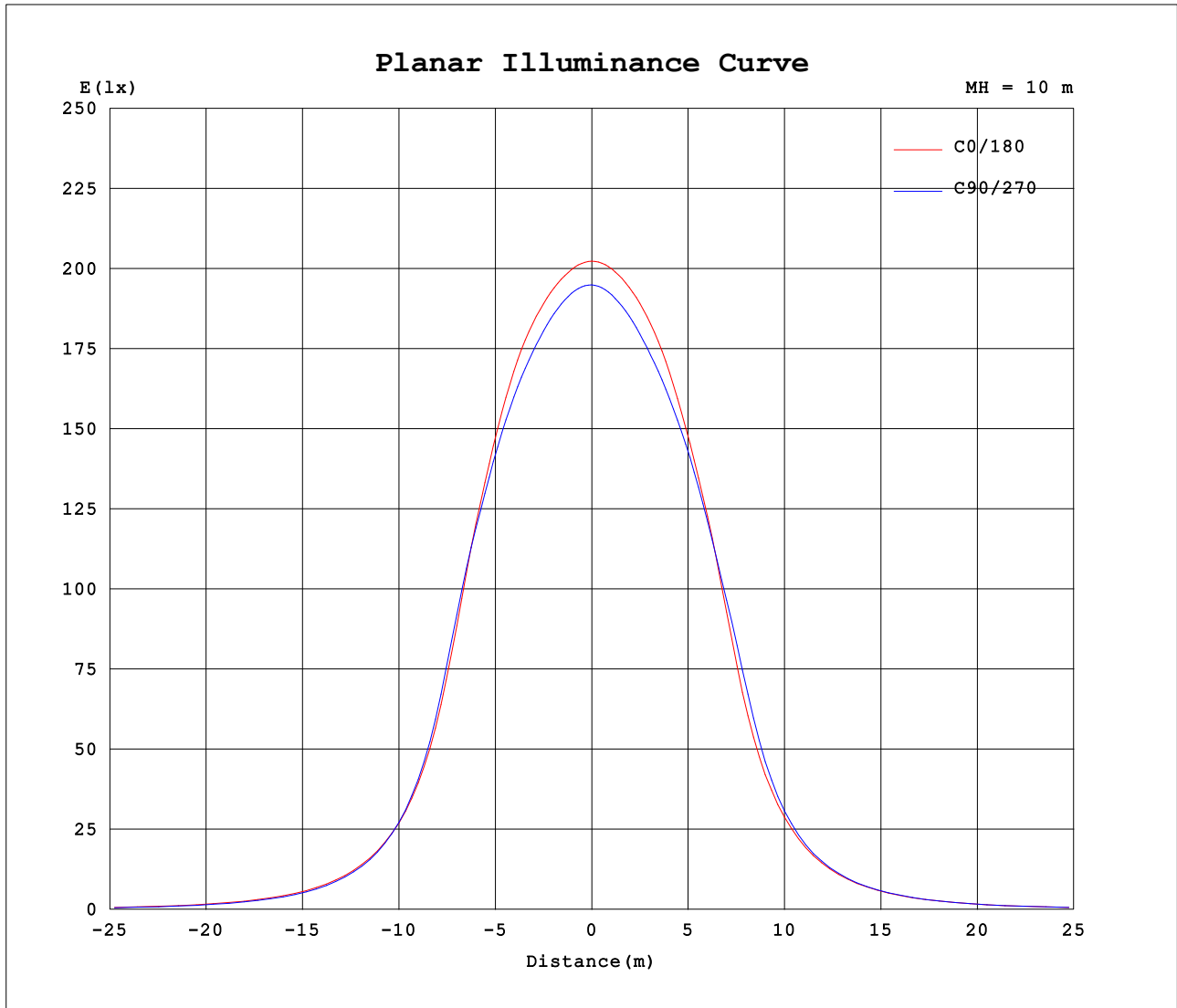
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 48883 |
| L_0~180 (75) av | 31461 |
| L_0~180 (85) av | 18283 |
| L_90~270 (65) av | 46199 |
| L_90~270 (75) av | 28532 |
| L_90~270 (85) av | 15906 |
| L_45 (65) av | 47580 |
| L_45 (75) av | 29519 |
| L_45 (85) av | 16809 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: S
 Test Date: 2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

Table--1

UNIT: X10cd

| C (DEG) \ γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 2023 | 2006 | 1991 | 1977 | 1966 | 1957 | 1949 | 1943 | 1938 | 1933 | 1930 | 1926 | 2023 | 2006 | 1991 | 1977 | 1966 | 1957 | 1949 |
| 5 | 2028 | 2010 | 1994 | 1982 | 1970 | 1961 | 1954 | 1947 | 1941 | 1937 | 1933 | 1928 | 2029 | 2011 | 1993 | 1978 | 1967 | 1957 | 1949 |
| 10 | 2046 | 2026 | 2007 | 1993 | 1981 | 1971 | 1963 | 1957 | 1953 | 1948 | 1944 | 1939 | 2047 | 2025 | 2004 | 1987 | 1973 | 1963 | 1955 |
| 15 | 2078 | 2052 | 2029 | 2011 | 1998 | 1989 | 1981 | 1975 | 1971 | 1966 | 1963 | 1957 | 2077 | 2050 | 2025 | 2005 | 1988 | 1978 | 1970 |
| 20 | 2106 | 2079 | 2052 | 2032 | 2017 | 2009 | 2002 | 1996 | 1990 | 1985 | 1980 | 1974 | 2101 | 2074 | 2050 | 2027 | 2009 | 1997 | 1992 |
| 25 | 2084 | 2071 | 2049 | 2035 | 2018 | 2008 | 1999 | 1993 | 1982 | 1976 | 1968 | 1965 | 2083 | 2065 | 2053 | 2037 | 2023 | 2009 | 2003 |
| 30 | 1954 | 1963 | 1954 | 1958 | 1943 | 1935 | 1917 | 1918 | 1905 | 1905 | 1894 | 1901 | 1983 | 1977 | 1980 | 1976 | 1978 | 1960 | 1949 |
| 35 | 1611 | 1637 | 1635 | 1678 | 1676 | 1698 | 1673 | 1677 | 1649 | 1652 | 1633 | 1663 | 1688 | 1700 | 1747 | 1758 | 1785 | 1767 | 1757 |
| 40 | 1120 | 1136 | 1124 | 1151 | 1144 | 1180 | 1166 | 1183 | 1159 | 1172 | 1159 | 1193 | 1198 | 1206 | 1263 | 1281 | 1331 | 1324 | 1331 |
| 45 | 766 | 773 | 762 | 773 | 760 | 779 | 769 | 784 | 777 | 795 | 791 | 805 | 815 | 812 | 843 | 849 | 869 | 864 | 871 |
| 50 | 529 | 531 | 520 | 524 | 510 | 517 | 512 | 520 | 522 | 540 | 534 | 544 | 551 | 549 | 564 | 557 | 569 | 559 | 570 |
| 55 | 364 | 364 | 353 | 355 | 344 | 347 | 343 | 349 | 354 | 364 | 358 | 367 | 373 | 373 | 381 | 372 | 382 | 370 | 381 |
| 60 | 248 | 247 | 238 | 239 | 230 | 231 | 228 | 233 | 237 | 244 | 240 | 246 | 252 | 251 | 255 | 249 | 257 | 248 | 255 |
| 65 | 165 | 164 | 156 | 157 | 150 | 151 | 148 | 153 | 155 | 159 | 157 | 161 | 167 | 166 | 167 | 164 | 168 | 163 | 166 |
| 70 | 105 | 104 | 98.7 | 98.3 | 94.0 | 94.2 | 92.6 | 96.0 | 96.7 | 100 | 99.3 | 102 | 108 | 105 | 107 | 104 | 107 | 103 | 105 |
| 75 | 64.1 | 63.2 | 59.1 | 58.8 | 55.7 | 56.4 | 55.4 | 57.4 | 57.9 | 60.1 | 59.4 | 61.5 | 66.8 | 64.3 | 65.3 | 63.4 | 64.4 | 62.1 | 63.3 |
| 80 | 35.0 | 34.7 | 31.8 | 31.7 | 29.3 | 30.1 | 29.0 | 30.5 | 30.1 | 31.9 | 31.2 | 32.6 | 37.0 | 35.0 | 35.9 | 34.5 | 34.9 | 33.3 | 34.2 |
| 85 | 11.9 | 12.0 | 10.7 | 10.6 | 9.46 | 9.83 | 9.11 | 9.96 | 9.67 | 10.4 | 10.2 | 11.2 | 13.7 | 13.2 | 13.9 | 13.2 | 13.8 | 12.7 | 13.2 |
| 90 | 0.54 | 0.53 | 0.54 | 0.53 | 0.54 | 0.52 | 0.53 | 0.52 | 0.53 | 0.52 | 0.53 | 0.51 | 1.62 | 1.61 | 1.58 | 1.57 | 1.55 | 1.55 | 1.53 |
| 95 | 0.77 | 0.76 | 0.77 | 0.76 | 0.77 | 0.75 | 0.76 | 0.75 | 0.76 | 0.75 | 0.76 | 0.74 | 1.91 | 1.90 | 1.86 | 1.85 | 1.82 | 1.82 | 1.81 |
| 100 | 1.11 | 1.09 | 1.12 | 1.10 | 1.11 | 1.09 | 1.10 | 1.09 | 1.10 | 1.09 | 1.10 | 1.07 | 2.31 | 2.29 | 2.25 | 2.24 | 2.20 | 2.20 | 2.18 |
| 105 | 1.60 | 1.59 | 1.62 | 1.60 | 1.62 | 1.60 | 1.61 | 1.59 | 1.61 | 1.58 | 1.59 | 1.55 | 2.85 | 2.83 | 2.78 | 2.77 | 2.72 | 2.73 | 2.70 |
| 110 | 2.31 | 2.30 | 2.35 | 2.33 | 2.37 | 2.34 | 2.36 | 2.31 | 2.33 | 2.28 | 2.28 | 2.22 | 3.59 | 3.58 | 3.51 | 3.51 | 3.46 | 3.48 | 3.44 |
| 115 | 3.31 | 3.30 | 3.39 | 3.37 | 3.44 | 3.39 | 3.43 | 3.34 | 3.35 | 3.26 | 3.26 | 3.18 | 4.61 | 4.61 | 4.53 | 4.55 | 4.49 | 4.53 | 4.48 |
| 120 | 4.62 | 4.62 | 4.74 | 4.73 | 4.81 | 4.75 | 4.78 | 4.68 | 4.67 | 4.55 | 4.54 | 4.43 | 5.95 | 5.96 | 5.87 | 5.91 | 5.84 | 5.89 | 5.83 |
| 125 | 6.16 | 6.17 | 6.30 | 6.29 | 6.37 | 6.31 | 6.33 | 6.21 | 6.18 | 6.05 | 6.03 | 5.91 | 7.53 | 7.55 | 7.46 | 7.51 | 7.42 | 7.48 | 7.40 |
| 130 | 7.83 | 7.83 | 7.95 | 7.94 | 8.02 | 7.95 | 7.97 | 7.84 | 7.80 | 7.66 | 7.63 | 7.51 | 9.24 | 9.25 | 9.15 | 9.20 | 9.12 | 9.16 | 9.08 |
| 135 | 9.49 | 9.49 | 9.58 | 9.58 | 9.63 | 9.57 | 9.56 | 9.44 | 9.39 | 9.26 | 9.22 | 9.11 | 10.9 | 10.9 | 10.8 | 10.8 | 10.8 | 10.8 | 10.7 |
| 140 | 11.1 | 11.0 | 11.1 | 11.1 | 11.1 | 11.0 | 11.0 | 10.9 | 10.9 | 10.8 | 10.7 | 10.6 | 12.5 | 12.4 | 12.3 | 12.3 | 12.2 | 12.2 | 12.1 |
| 145 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.3 | 12.2 | 12.2 | 12.1 | 12.0 | 12.0 | 13.8 | 13.7 | 13.6 | 13.5 | 13.5 | 13.4 | 13.3 |
| 150 | 13.7 | 13.7 | 13.7 | 13.6 | 13.6 | 13.6 | 13.6 | 13.5 | 13.4 | 13.3 | 13.3 | 13.2 | 14.9 | 14.8 | 14.7 | 14.6 | 14.5 | 14.5 | 14.4 |
| 155 | 15.0 | 15.0 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 14.7 | 14.6 | 14.5 | 14.4 | 16.0 | 15.9 | 15.8 | 15.6 | 15.5 | 15.5 | 15.4 |
| 160 | 16.5 | 16.4 | 16.4 | 16.4 | 16.4 | 16.3 | 16.3 | 16.1 | 16.1 | 15.9 | 15.9 | 15.8 | 17.2 | 17.1 | 17.0 | 16.9 | 16.7 | 16.7 | 16.6 |
| 165 | 18.1 | 18.1 | 18.0 | 18.0 | 18.0 | 17.9 | 17.8 | 17.6 | 17.5 | 17.4 | 17.4 | 17.3 | 18.6 | 18.4 | 18.4 | 18.2 | 18.1 | 18.0 | 17.9 |
| 170 | 19.6 | 19.6 | 19.4 | 19.4 | 19.2 | 19.2 | 19.0 | 18.9 | 18.8 | 18.8 | 18.7 | 18.6 | 19.9 | 19.6 | 19.6 | 19.4 | 19.3 | 19.2 | 19.1 |
| 175 | 20.6 | 20.5 | 20.3 | 20.2 | 20.0 | 20.0 | 19.8 | 19.7 | 19.6 | 19.6 | 19.5 | 19.4 | 20.8 | 20.4 | 20.3 | 20.1 | 20.1 | 19.9 | 19.8 |
| 180 | 21.0 | 21.0 | 20.6 | 20.6 | 20.3 | 20.3 | 20.1 | 20.0 | 19.9 | 19.9 | 19.8 | 19.7 | 21.2 | 20.8 | 20.8 | 20.5 | 20.4 | 20.2 | 20.1 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------------------------------------------|-------|--|
| Test:U:279.72V I:0.8479A P:237.07W PF:0.9995 Freq:50.04Hz | | |
| Lamp Flux:39570.2x1 lm | | |
| NAME: ASD-UHB2AHV-PRO-240-BK | TYPE: | |
| MFR.: ASD LIGHTING CORP | | |
| | | |

Table--2

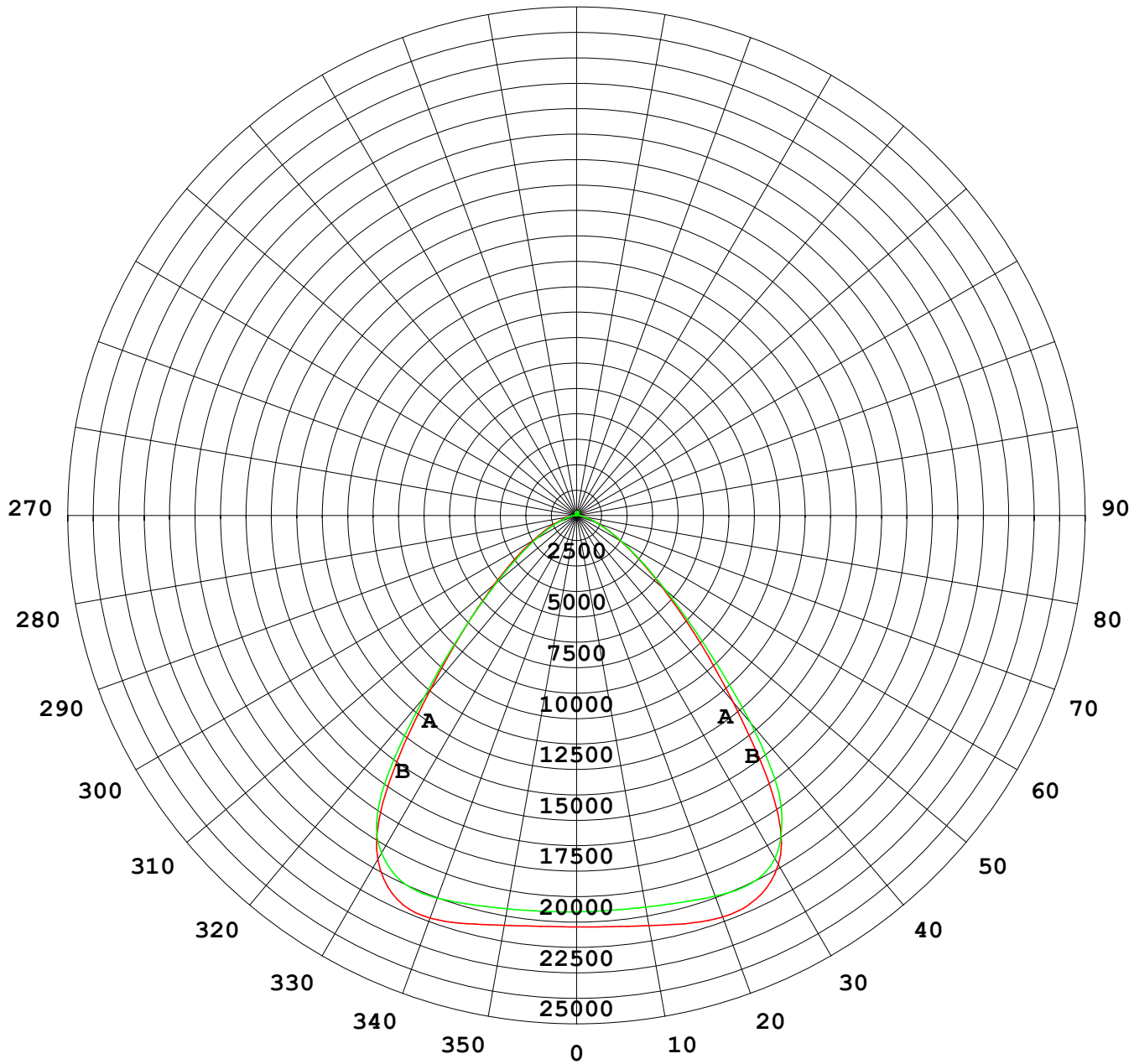
UNIT: X10cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 1943 | 1938 | 1933 | 1930 | 1926 | | | | | | | | | | | | | | |
| 5 | 1943 | 1938 | 1935 | 1932 | 1929 | | | | | | | | | | | | | | |
| 10 | 1950 | 1946 | 1944 | 1941 | 1940 | | | | | | | | | | | | | | |
| 15 | 1966 | 1965 | 1965 | 1963 | 1961 | | | | | | | | | | | | | | |
| 20 | 1991 | 1991 | 1992 | 1990 | 1986 | | | | | | | | | | | | | | |
| 25 | 1998 | 1997 | 1991 | 1986 | 1978 | | | | | | | | | | | | | | |
| 30 | 1931 | 1922 | 1899 | 1889 | 1878 | | | | | | | | | | | | | | |
| 35 | 1716 | 1701 | 1656 | 1645 | 1612 | | | | | | | | | | | | | | |
| 40 | 1279 | 1261 | 1203 | 1184 | 1142 | | | | | | | | | | | | | | |
| 45 | 849 | 847 | 813 | 807 | 778 | | | | | | | | | | | | | | |
| 50 | 563 | 570 | 555 | 552 | 533 | | | | | | | | | | | | | | |
| 55 | 375 | 385 | 378 | 376 | 363 | | | | | | | | | | | | | | |
| 60 | 252 | 259 | 255 | 254 | 247 | | | | | | | | | | | | | | |
| 65 | 165 | 170 | 167 | 168 | 163 | | | | | | | | | | | | | | |
| 70 | 103 | 108 | 105 | 107 | 103 | | | | | | | | | | | | | | |
| 75 | 61.8 | 64.8 | 63.3 | 64.3 | 62.5 | | | | | | | | | | | | | | |
| 80 | 33.0 | 35.1 | 34.2 | 35.1 | 33.8 | | | | | | | | | | | | | | |
| 85 | 12.5 | 13.4 | 12.8 | 13.5 | 12.5 | | | | | | | | | | | | | | |
| 90 | 1.54 | 1.54 | 1.55 | 1.55 | 1.56 | | | | | | | | | | | | | | |
| 95 | 1.82 | 1.81 | 1.83 | 1.83 | 1.85 | | | | | | | | | | | | | | |
| 100 | 2.20 | 2.19 | 2.22 | 2.22 | 2.24 | | | | | | | | | | | | | | |
| 105 | 2.73 | 2.72 | 2.76 | 2.76 | 2.79 | | | | | | | | | | | | | | |
| 110 | 3.48 | 3.47 | 3.52 | 3.52 | 3.57 | | | | | | | | | | | | | | |
| 115 | 4.54 | 4.51 | 4.58 | 4.55 | 4.63 | | | | | | | | | | | | | | |
| 120 | 5.89 | 5.86 | 5.93 | 5.89 | 5.99 | | | | | | | | | | | | | | |
| 125 | 7.47 | 7.42 | 7.50 | 7.45 | 7.56 | | | | | | | | | | | | | | |
| 130 | 9.14 | 9.08 | 9.15 | 9.10 | 9.20 | | | | | | | | | | | | | | |
| 135 | 10.7 | 10.7 | 10.7 | 10.7 | 10.8 | | | | | | | | | | | | | | |
| 140 | 12.1 | 12.1 | 12.1 | 12.1 | 12.2 | | | | | | | | | | | | | | |
| 145 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | | | | | | | | | | | | | | |
| 150 | 14.4 | 14.3 | 14.3 | 14.3 | 14.4 | | | | | | | | | | | | | | |
| 155 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | | | | | | | | | | | | | | |
| 160 | 16.5 | 16.4 | 16.4 | 16.4 | 16.5 | | | | | | | | | | | | | | |
| 165 | 17.8 | 17.7 | 17.7 | 17.7 | 17.7 | | | | | | | | | | | | | | |
| 170 | 19.0 | 18.9 | 18.8 | 18.8 | 18.8 | | | | | | | | | | | | | | |
| 175 | 19.7 | 19.7 | 19.6 | 19.5 | 19.4 | | | | | | | | | | | | | | |
| 180 | 20.0 | 20.0 | 19.9 | 19.8 | 19.7 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-5-27

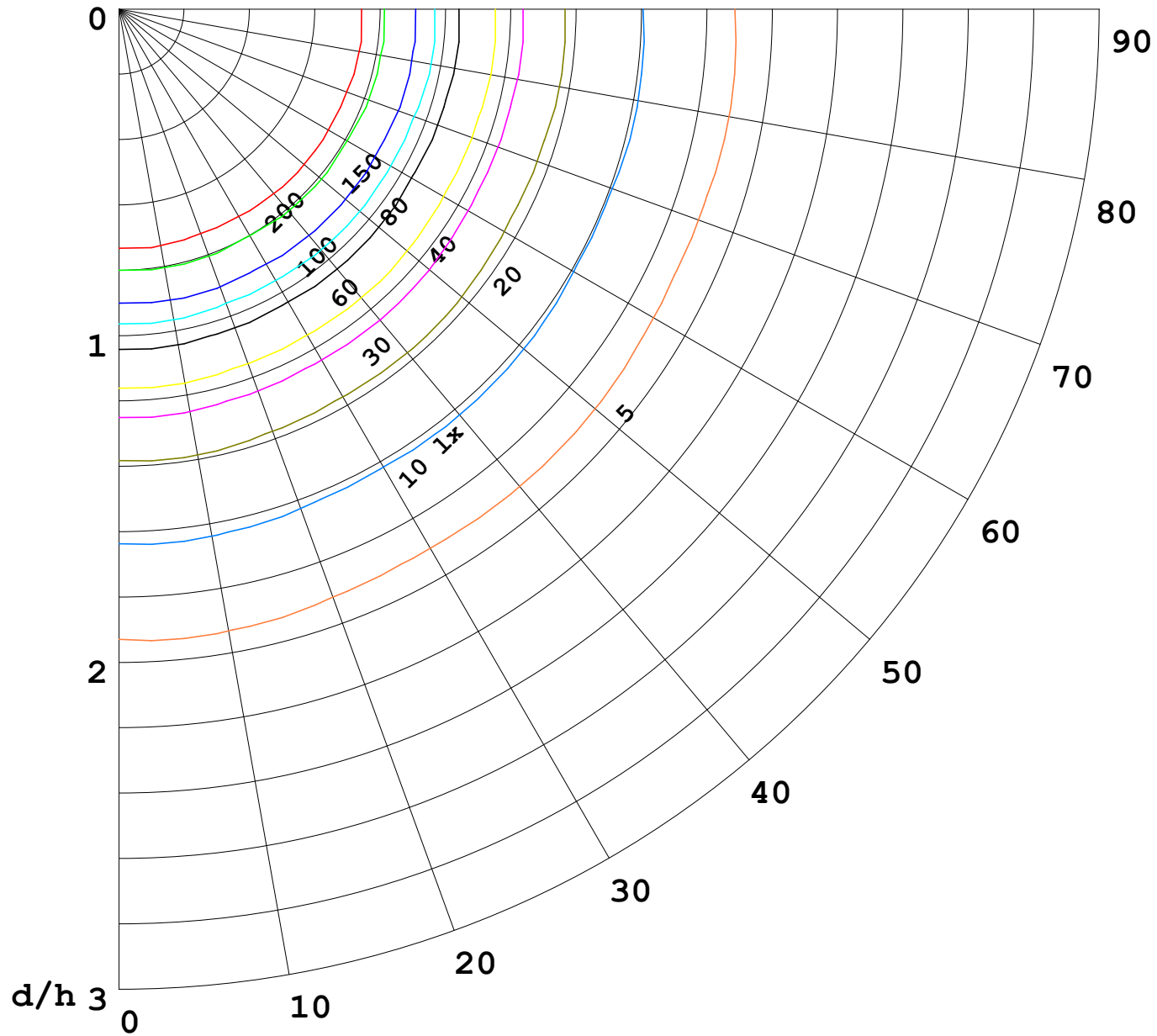
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

I (cd)



1000 lm

$K = 1$



F = 5000 lm
 K = 0.7
 Hcc = 0.0 m
 Hfc = 0.0 m
 Eave = 100 lx

| | | | |
|-------|-----|----|-----|
| ————— | Pcc | Pw | Pfc |
| ————— | 70 | 50 | 30 |
| ————— | 50 | 30 | 20 |

