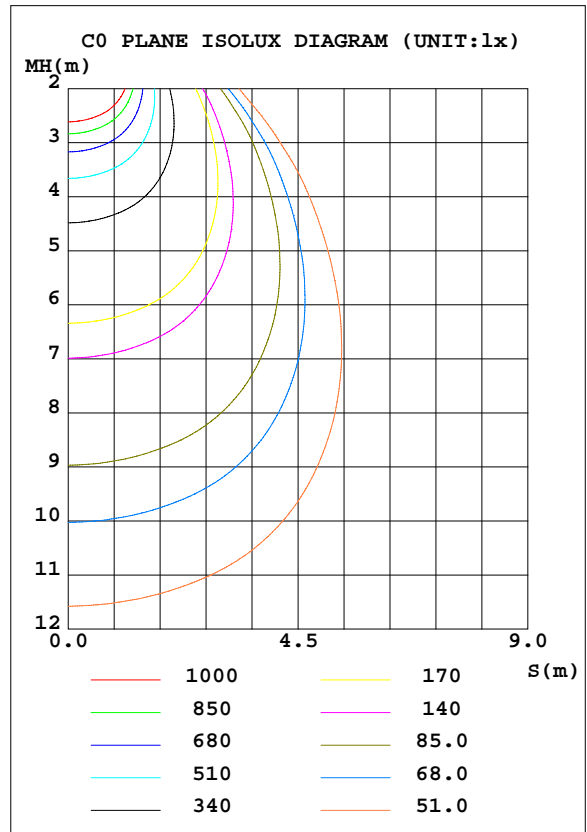
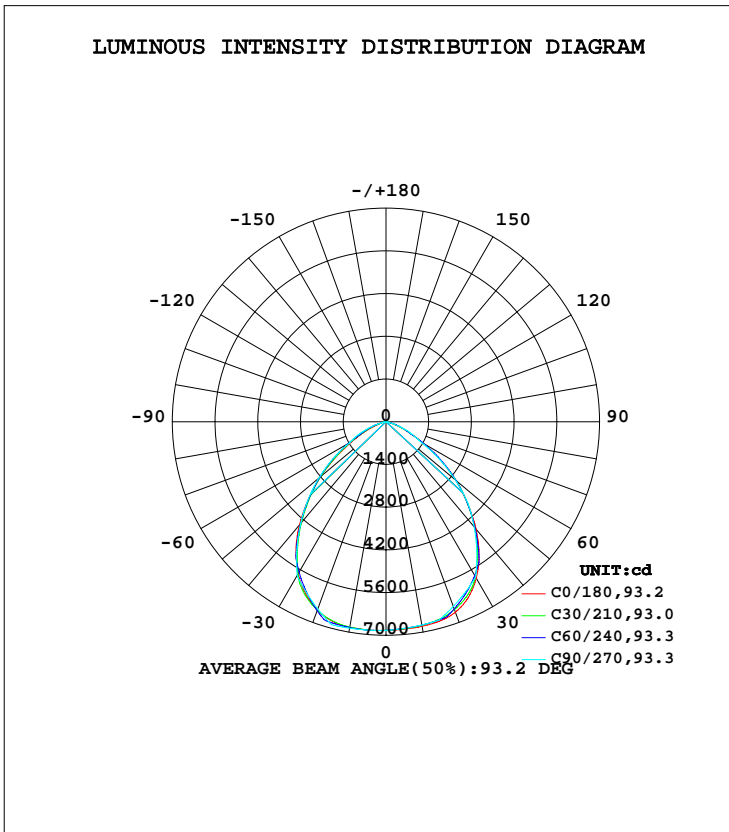


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 145.47 lm/W | | | |
|------------------|---------|-----------------------------------|--------|--------------------|----------|
| MODEL | | I _{max} (cd) | 6891 | S/MH(C0/180) | 1.24 |
| NOMINAL POWER(W) | 100 | LOR(%) | 100.0 | S/MH(C90/270) | 1.24 |
| RATED VOLTAGE(V) | 220.0 | TOTAL FLUX(lm) | 14423 | η UP, DN(C0-180) | 0.0,50.1 |
| NOMINAL FLUX(lm) | 14422.7 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.0,49.9 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 220.0 | η down(%) | 100.0 | CIBSE SHR MAX | 1.30 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

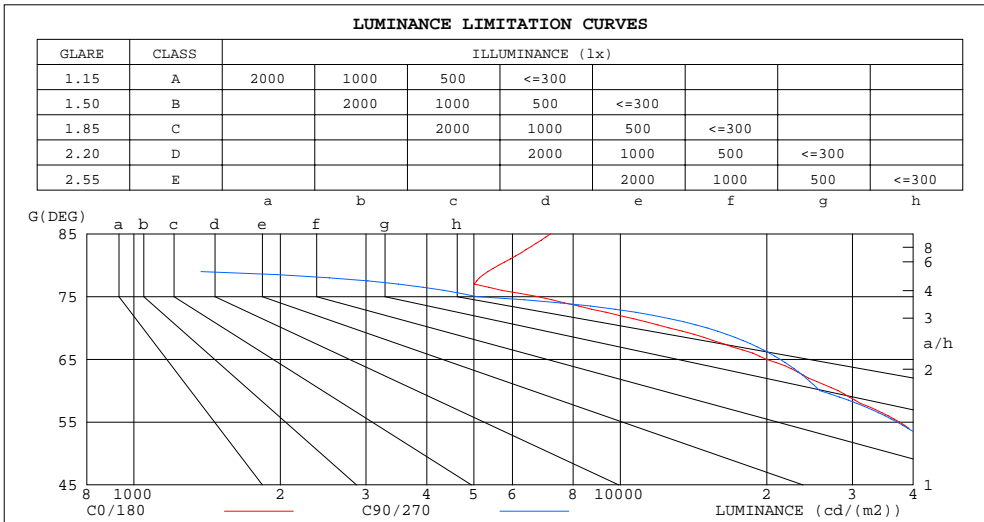
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | lum, lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|--------|---------|-----------|
| 5 | 6821 | 6804 | 6800 | 6821 | 6849 | 6853 | 6853 | 6842 | 0- 5 | 163.4 | 163.4 | 1.13,1.13 |
| 10 | 6806 | 6769 | 6764 | 6775 | 6842 | 6836 | 6871 | 6833 | 5- 10 | 487.9 | 651.3 | 4.52,4.52 |
| 15 | 6766 | 6709 | 6728 | 6693 | 6774 | 6790 | 6888 | 6777 | 10- 15 | 805.1 | 1456 | 10.1,10.1 |
| 20 | 6642 | 6605 | 6445 | 6544 | 6566 | 6671 | 6533 | 6651 | 15- 20 | 1098 | 2555 | 17.7,17.7 |
| 25 | 6367 | 6243 | 6161 | 6175 | 6227 | 6236 | 6178 | 6248 | 20- 25 | 1339 | 3894 | 27,27 |
| 30 | 5917 | 5779 | 5878 | 5703 | 5752 | 5683 | 5822 | 5738 | 25- 30 | 1518 | 5413 | 37.5,37.5 |
| 35 | 5319 | 5238 | 5188 | 5144 | 5141 | 5070 | 5087 | 5161 | 30- 35 | 1614 | 7027 | 48.7,48.7 |
| 40 | 4592 | 4611 | 4498 | 4490 | 4411 | 4398 | 4352 | 4492 | 35- 40 | 1603 | 8630 | 59.8,59.8 |
| 45 | 3779 | 3773 | 3809 | 3643 | 3598 | 3586 | 3617 | 3654 | 40- 45 | 1500 | 10131 | 70.2,70.2 |
| 50 | 2983 | 2931 | 2968 | 2817 | 2801 | 2785 | 2872 | 2825 | 45- 50 | 1320 | 11451 | 79.4,79.4 |
| 55 | 2151 | 2107 | 2126 | 2010 | 1978 | 2042 | 2128 | 2044 | 50- 55 | 1075 | 12526 | 86.8,86.8 |
| 60 | 1403 | 1441 | 1285 | 1349 | 1267 | 1410 | 1384 | 1429 | 55- 60 | 790.3 | 13316 | 92.3,92.3 |
| 65 | 843.1 | 846.4 | 900.4 | 784.5 | 745.7 | 850.4 | 982.9 | 881.0 | 60- 65 | 526.3 | 13843 | 96,96 |
| 70 | 430.5 | 457.8 | 515.8 | 413.8 | 362.8 | 462.8 | 581.4 | 493.5 | 65- 70 | 326.9 | 14169 | 98.2,98.2 |
| 75 | 174.8 | 256.2 | 131.1 | 227.9 | 136.8 | 253.4 | 179.9 | 270.8 | 70- 75 | 169.2 | 14339 | 99.4,99.4 |
| 80 | 97.67 | 82.99 | 0 | 73.75 | 85.00 | 73.88 | 0 | 79.39 | 75- 80 | 62.42 | 14401 | 99.9,99.9 |
| 85 | 62.75 | 0 | 0 | 0 | 52.15 | 0 | 0 | 0 | 80- 85 | 18.68 | 14420 | 100,100 |
| 90 | 10.93 | 0 | 0 | 0 | 18.83 | 0 | 0 | 0 | 85- 90 | 2.938 | 14423 | 100,100 |
| 95 | | | | | | | | | 90- 95 | | | |
| 100 | | | | | | | | | 95-100 | | | |
| 105 | | | | | | | | | 100-105 | | | |
| 110 | | | | | | | | | 105-110 | | | |
| 115 | | | | | | | | | 110-115 | | | |
| 120 | | | | | | | | | 115-120 | | | |
| 125 | | | | | | | | | 120-125 | | | |
| 130 | | | | | | | | | 125-130 | | | |
| 135 | | | | | | | | | 130-135 | | | |
| 140 | | | | | | | | | 135-140 | | | |
| 145 | | | | | | | | | 140-145 | | | |
| 150 | | | | | | | | | 145-150 | | | |
| 155 | | | | | | | | | 150-155 | | | |
| 160 | | | | | | | | | 155-160 | | | |
| 165 | | | | | | | | | 160-165 | | | |
| 170 | | | | | | | | | 165-170 | | | |
| 175 | | | | | | | | | 170-175 | | | |
| 180 | | | | | | | | | 175-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | UNIT:lm | | | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 7200 | 0 |
| 80 | 5625 | 0 |
| 75 | 6753 | 5065 |
| 70 | 12587 | 15080 |
| 65 | 19950 | 21306 |
| 60 | 28058 | 25702 |
| 55 | 37496 | 37071 |
| 50 | 46405 | 46167 |
| 45 | 53447 | 53865 |

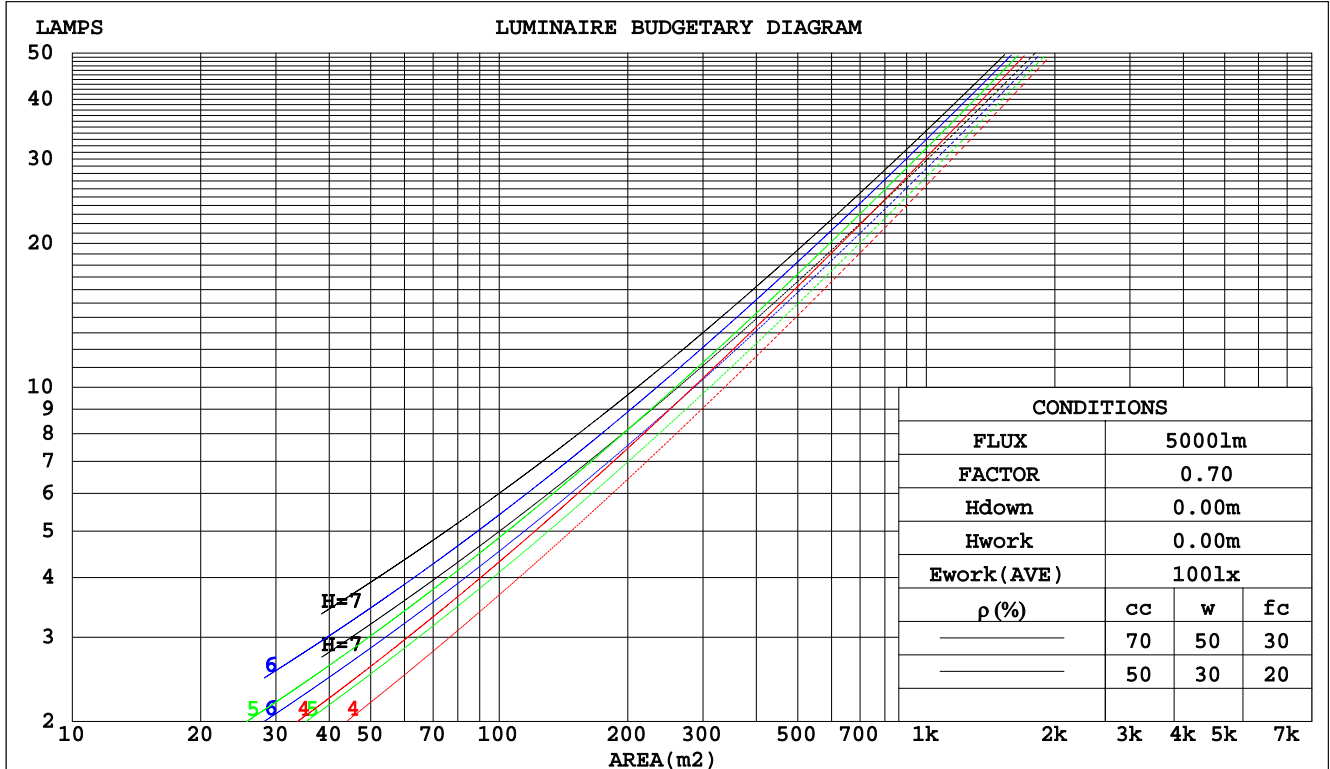
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity: 65.2%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pw | | | | | | | | | | | | | | | | 0 |
| pfc | 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 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.07 | 1.04 | 1.01 | 1.05 | 1.02 | .99 | 1.01 | .99 | .96 | .97 | .95 | .93 | .94 | .92 | .91 | .89 |
| 2.0 | .96 | .91 | .86 | .94 | .89 | .85 | .91 | .87 | .83 | .88 | .84 | .81 | .85 | .82 | .80 | .78 |
| 3.0 | .86 | .80 | .74 | .85 | .79 | .73 | .82 | .77 | .72 | .79 | .75 | .71 | .77 | .73 | .70 | .68 |
| 4.0 | .78 | .70 | .65 | .77 | .70 | .64 | .74 | .68 | .63 | .72 | .67 | .62 | .70 | .65 | .62 | .60 |
| 5.0 | .70 | .63 | .57 | .69 | .62 | .56 | .67 | .61 | .56 | .66 | .60 | .55 | .64 | .59 | .55 | .53 |
| 6.0 | .64 | .56 | .50 | .63 | .56 | .50 | .61 | .55 | .50 | .60 | .54 | .49 | .58 | .53 | .49 | .47 |
| 7.0 | .59 | .51 | .45 | .58 | .50 | .45 | .56 | .50 | .45 | .55 | .49 | .44 | .54 | .48 | .44 | .42 |
| 8.0 | .54 | .46 | .41 | .53 | .46 | .41 | .52 | .45 | .40 | .51 | .45 | .40 | .50 | .44 | .40 | .38 |
| 9.0 | .50 | .42 | .37 | .49 | .42 | .37 | .48 | .41 | .37 | .47 | .41 | .37 | .46 | .40 | .36 | .35 |
| 10.0 | .46 | .39 | .34 | .45 | .38 | .34 | .45 | .38 | .34 | .44 | .38 | .33 | .43 | .37 | .33 | .32 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity: 65.2%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

| 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 | .241 | .137 | .043 | .234 | .133 | .042 | .221 | .127 | .040 | .209 | .121 | .039 | .198 | .115 | .037 | |
| 2.0 | .236 | .129 | .040 | .230 | .127 | .039 | .219 | .122 | .038 | .208 | .117 | .037 | .199 | .112 | .035 | |
| 3.0 | .225 | .120 | .036 | .220 | .118 | .035 | .210 | .114 | .035 | .201 | .110 | .034 | .192 | .107 | .033 | |
| 4.0 | .213 | .111 | .033 | .208 | .109 | .032 | .200 | .106 | .032 | .191 | .103 | .031 | .184 | .100 | .030 | |
| 5.0 | .201 | .102 | .030 | .197 | .101 | .029 | .189 | .098 | .029 | .182 | .096 | .029 | .175 | .094 | .028 | |
| 6.0 | .189 | .095 | .027 | .186 | .094 | .027 | .179 | .092 | .027 | .172 | .090 | .026 | .166 | .088 | .026 | |
| 7.0 | .178 | .088 | .025 | .175 | .087 | .025 | .169 | .085 | .025 | .163 | .084 | .024 | .158 | .082 | .024 | |
| 8.0 | .169 | .082 | .023 | .166 | .082 | .023 | .160 | .080 | .023 | .155 | .079 | .023 | .150 | .077 | .022 | |
| 9.0 | .159 | .077 | .022 | .157 | .076 | .021 | .152 | .075 | .021 | .147 | .074 | .021 | .143 | .073 | .021 | |
| 10.0 | .151 | .072 | .020 | .149 | .072 | .020 | .144 | .071 | .020 | .140 | .070 | .020 | .136 | .068 | .020 | |

| 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 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .176 | .157 | .140 | .150 | .135 | .120 | .103 | .093 | .083 | .059 | .054 | .048 | .019 | .017 | .016 | |
| 2.0 | .165 | .132 | .105 | .141 | .114 | .091 | .097 | .079 | .063 | .056 | .046 | .037 | .018 | .015 | .012 | |
| 3.0 | .156 | .114 | .081 | .134 | .098 | .070 | .092 | .068 | .049 | .053 | .040 | .029 | .017 | .013 | .009 | |
| 4.0 | .148 | .100 | .064 | .127 | .087 | .055 | .087 | .060 | .039 | .050 | .035 | .023 | .016 | .012 | .008 | |
| 5.0 | .141 | .089 | .052 | .121 | .077 | .045 | .083 | .054 | .032 | .048 | .032 | .019 | .016 | .010 | .006 | |
| 6.0 | .134 | .081 | .043 | .115 | .070 | .037 | .079 | .049 | .026 | .046 | .029 | .016 | .015 | .009 | .005 | |
| 7.0 | .128 | .074 | .036 | .110 | .064 | .031 | .076 | .045 | .022 | .044 | .026 | .013 | .014 | .009 | .004 | |
| 8.0 | .122 | .068 | .031 | .105 | .059 | .027 | .073 | .041 | .019 | .042 | .024 | .011 | .014 | .008 | .004 | |
| 9.0 | .116 | .063 | .027 | .100 | .055 | .023 | .069 | .038 | .017 | .040 | .023 | .010 | .013 | .007 | .003 | |
| 10.0 | .111 | .059 | .024 | .096 | .051 | .021 | .067 | .036 | .015 | .039 | .021 | .009 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | | | | | | | | | |
| NAME: NSH-NA100W-90D | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: NEWSTAR | | | | | SUR.: | | | Shielding Angle: | | |
| 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 | 24.9 | 26.2 | 25.1 | 26.4 | 26.6 | 24.9 | 26.3 | 25.2 | 26.5 | 26.6 |
| 3H | 25.1 | 26.3 | 25.4 | 26.5 | 26.7 | 25.3 | 26.5 | 25.6 | 26.7 | 26.9 |
| 4H | 25.1 | 26.2 | 25.4 | 26.4 | 26.7 | 25.3 | 26.4 | 25.6 | 26.6 | 26.9 |
| 6H | 25.0 | 26.1 | 25.3 | 26.3 | 26.6 | 25.2 | 26.2 | 25.5 | 26.5 | 26.8 |
| 8H | 25.0 | 26.0 | 25.3 | 26.3 | 26.5 | 25.1 | 26.1 | 25.4 | 26.4 | 26.7 |
| 12H | 24.9 | 25.9 | 25.3 | 26.2 | 26.5 | 25.1 | 26.0 | 25.4 | 26.3 | 26.6 |
| 4H 2H | 25.0 | 26.2 | 25.3 | 26.4 | 26.7 | 25.1 | 26.2 | 25.4 | 26.5 | 26.7 |
| 3H | 25.3 | 26.3 | 25.6 | 26.6 | 26.9 | 25.5 | 26.5 | 25.8 | 26.8 | 27.1 |
| 4H | 25.3 | 26.2 | 25.7 | 26.5 | 26.8 | 25.5 | 26.4 | 25.9 | 26.7 | 27.0 |
| 6H | 25.3 | 26.0 | 25.7 | 26.4 | 26.7 | 25.4 | 26.2 | 25.8 | 26.6 | 26.9 |
| 8H | 25.3 | 26.0 | 25.7 | 26.3 | 26.7 | 25.4 | 26.1 | 25.8 | 26.5 | 26.8 |
| 12H | 25.3 | 25.9 | 25.7 | 26.3 | 26.7 | 25.3 | 26.0 | 25.8 | 26.4 | 26.8 |
| 8H 4H | 25.3 | 26.0 | 25.7 | 26.3 | 26.7 | 25.4 | 26.2 | 25.8 | 26.5 | 26.9 |
| 6H | 25.2 | 25.8 | 25.7 | 26.2 | 26.7 | 25.4 | 26.0 | 25.8 | 26.4 | 26.8 |
| 8H | 25.3 | 25.8 | 25.7 | 26.2 | 26.6 | 25.3 | 25.8 | 25.8 | 26.3 | 26.7 |
| 12H | 25.3 | 25.7 | 25.8 | 26.2 | 26.6 | 25.3 | 25.7 | 25.8 | 26.2 | 26.6 |
| 12H 4H | 25.2 | 25.9 | 25.6 | 26.2 | 26.6 | 25.4 | 26.1 | 25.8 | 26.4 | 26.8 |
| 6H | 25.2 | 25.7 | 25.7 | 26.1 | 26.6 | 25.3 | 25.9 | 25.8 | 26.3 | 26.7 |
| 8H | 25.2 | 25.7 | 25.7 | 26.1 | 26.6 | 25.3 | 25.7 | 25.8 | 26.2 | 26.7 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.8 / - 1.0 | | | | | + 0.7 / - 0.9 | | | | |
| 1.5H | + 0.4 / - 0.4 | | | | | + 0.4 / - 0.4 | | | | |
| 2.0H | + 1.6 / - 2.2 | | | | | + 1.7 / - 2.7 | | | | |

CIE Pub.117 Corrected 14423 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.3)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

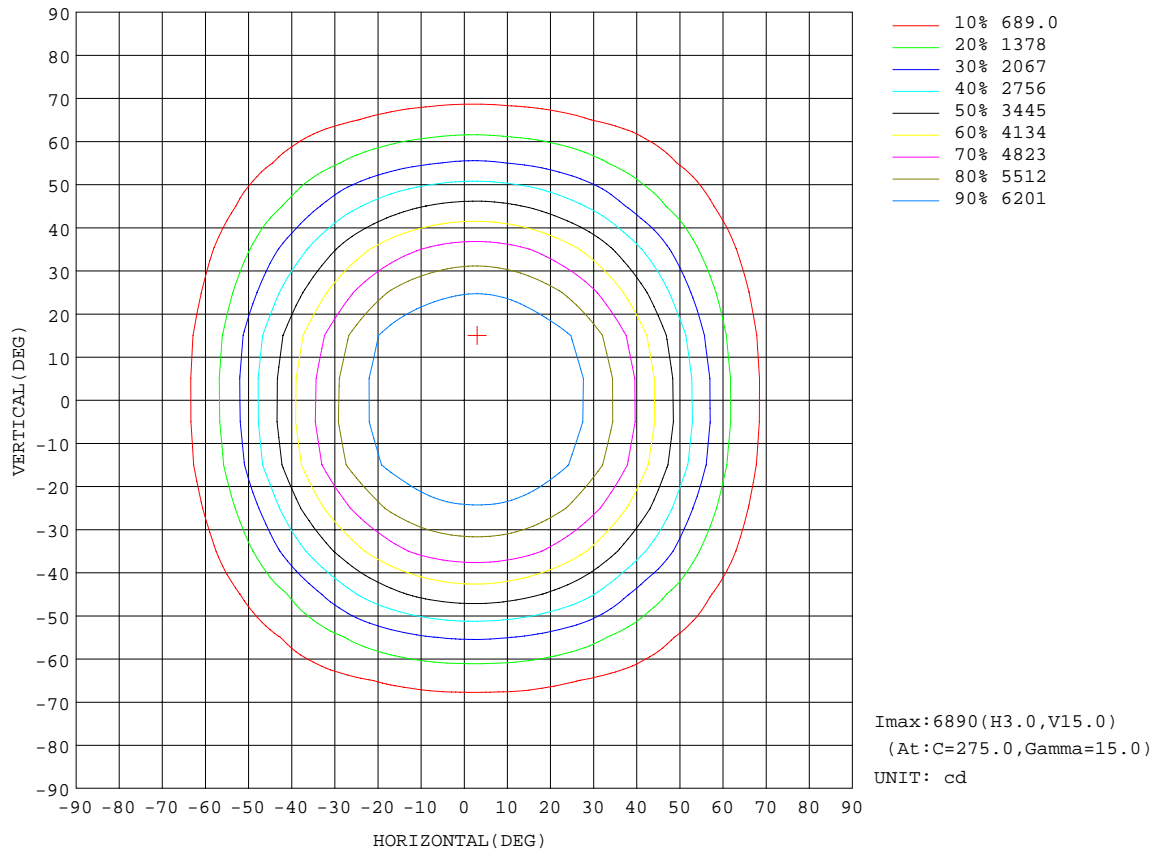
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 66 | 56 | 50 | 65 | 56 | 50 | 64 | 55 | 49 | 44 |
| 0.80 | 76 | 66 | 60 | 75 | 66 | 60 | 74 | 65 | 60 | 54 |
| 1.00 | 84 | 75 | 69 | 83 | 75 | 69 | 81 | 76 | 69 | 63 |
| 1.25 | 91 | 83 | 77 | 90 | 82 | 77 | 87 | 81 | 76 | 70 |
| 1.50 | 95 | 88 | 82 | 94 | 87 | 82 | 91 | 85 | 81 | 74 |
| 2.00 | 101 | 94 | 89 | 99 | 93 | 89 | 96 | 91 | 87 | 81 |
| 2.50 | 104 | 98 | 93 | 102 | 97 | 92 | 99 | 94 | 91 | 83 |
| 3.00 | 107 | 101 | 97 | 105 | 100 | 96 | 101 | 97 | 94 | 86 |
| 4.00 | 110 | 105 | 102 | 107 | 104 | 100 | 103 | 100 | 98 | 90 |
| 5.00 | 111 | 108 | 105 | 109 | 106 | 103 | 105 | 102 | 100 | 91 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

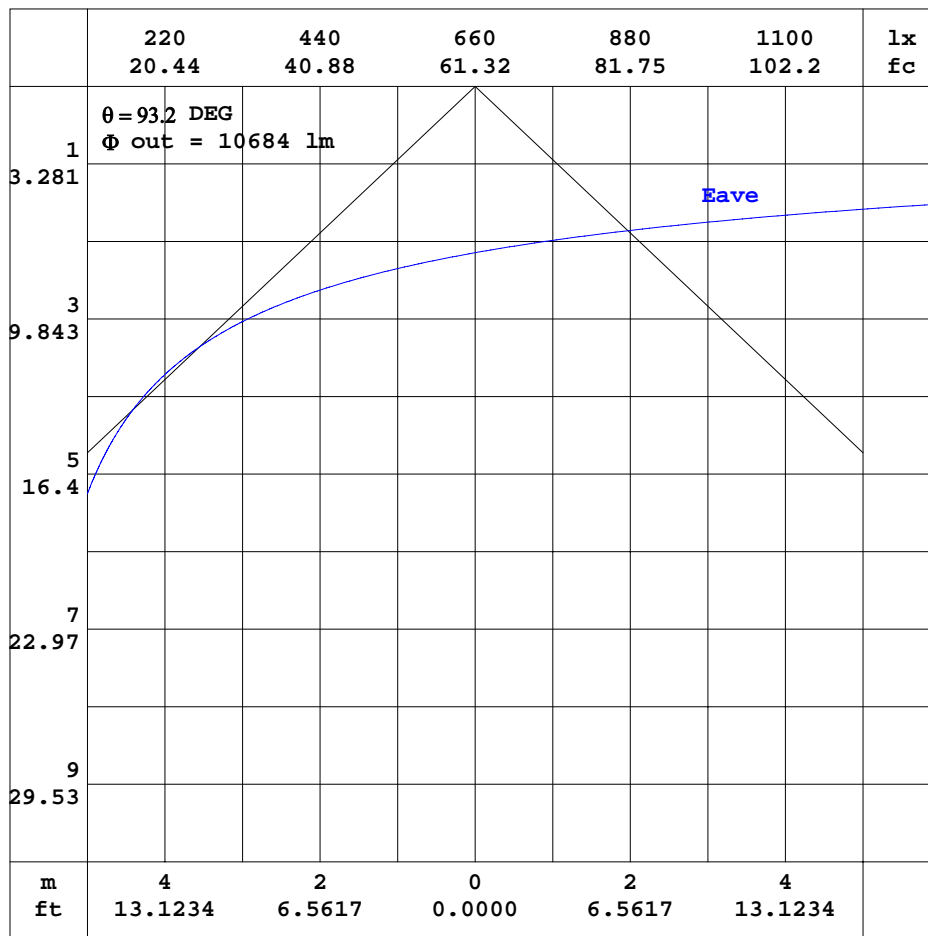


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity: 65.2%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

AAI CURVES

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |



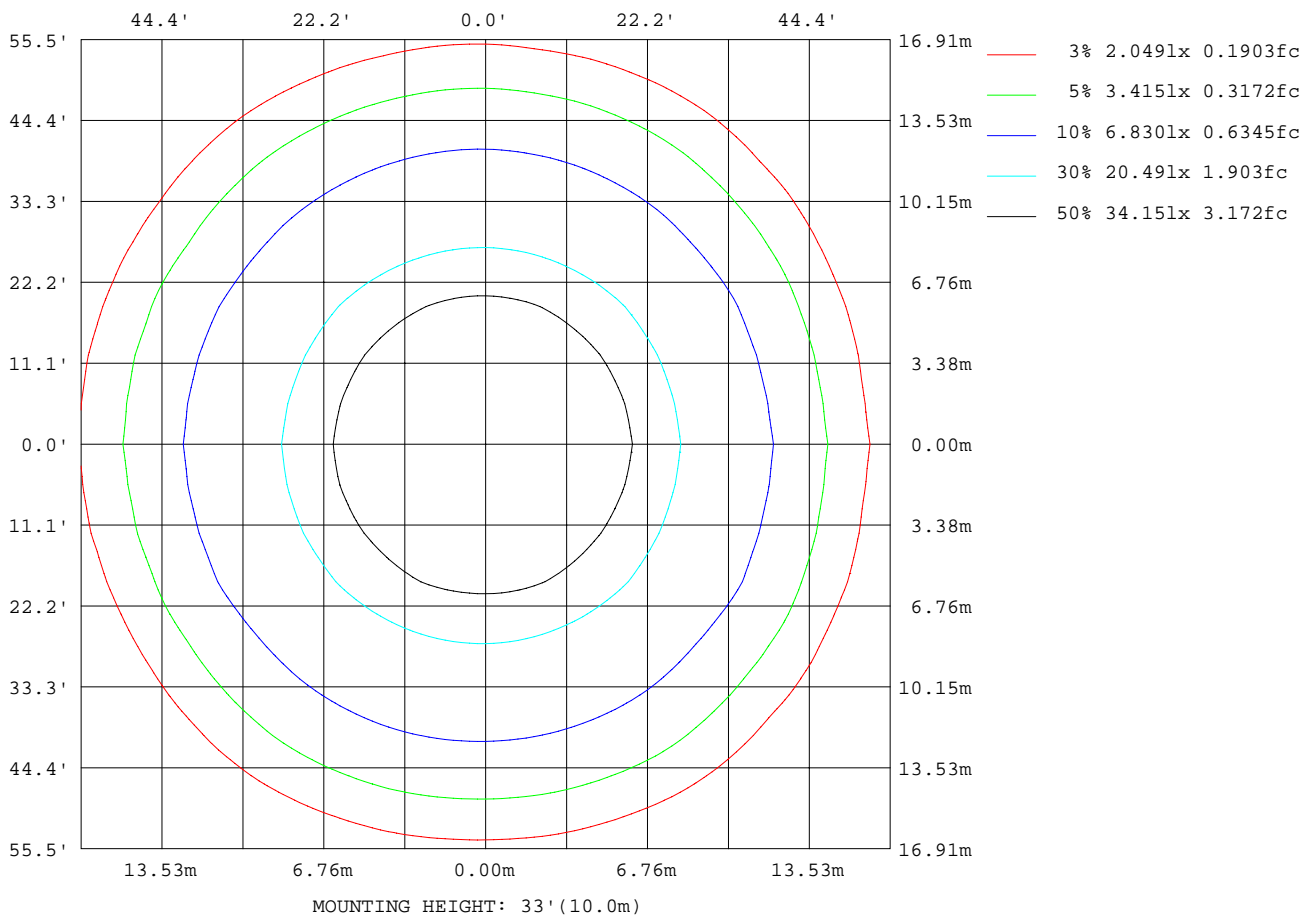
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity: 65.2%
 Test Distance: 6.710m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:219.6V I:0.4580A P:99.14W PF:0.9857 Lamp Flux:14422.7x1 lm | | |
| NAME: NSH-NA100W-90D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: NEWSTAR | SUR.: | Shielding Angle: |

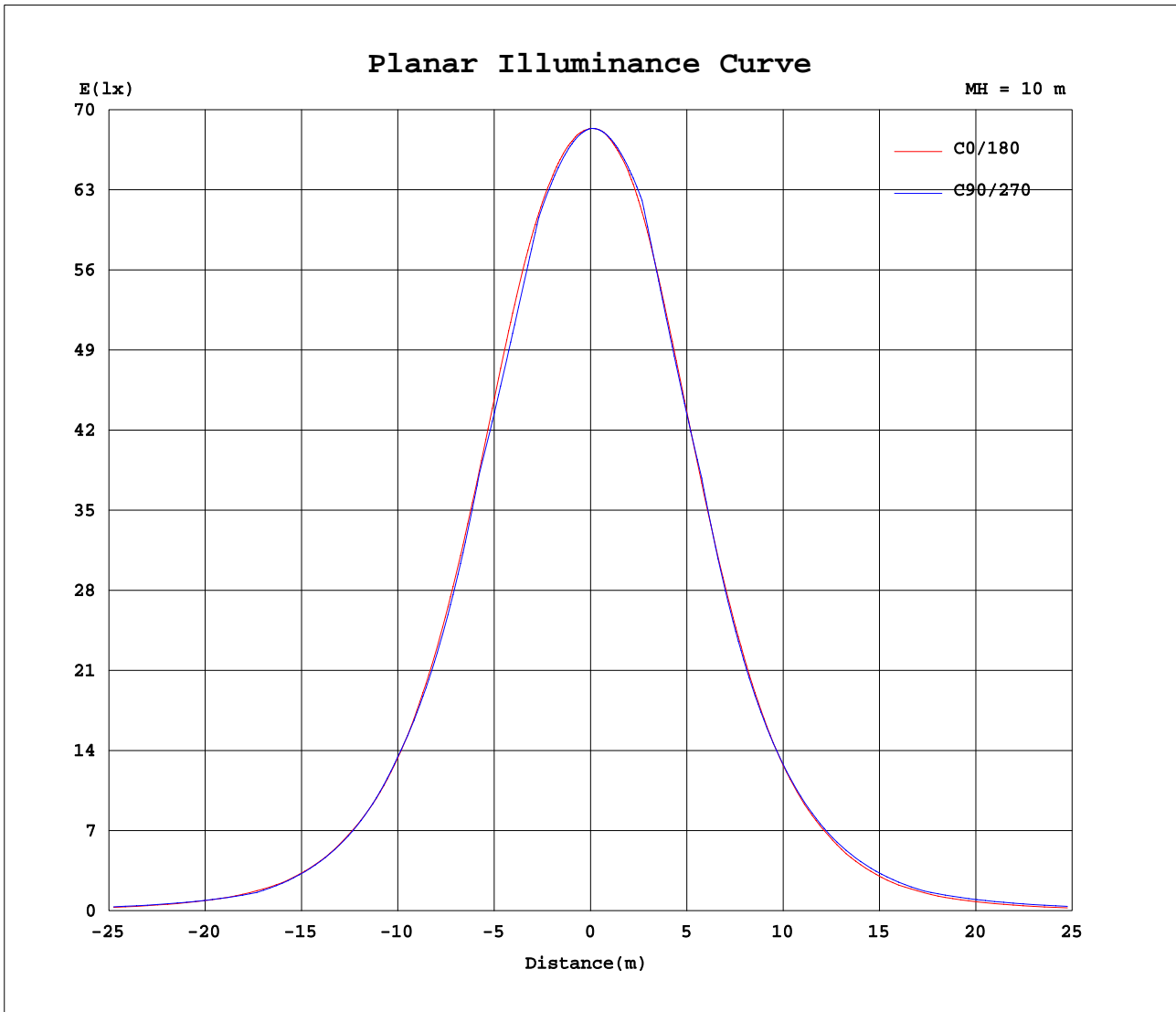
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 18798 |
| L_0~180(75)av | 6019 |
| L_0~180(85)av | 6591 |
| L_90~270(65)av | 22282 |
| L_90~270(75)av | 6007 |
| L_90~270(85)av | 0 |
| L_45(65)av | 19890 |
| L_45(75)av | 9740 |
| L_45(85)av | 0 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.2%
 Test Distance:6.710m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-12-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity: 65.2%
 Test Distance: 6.710m [K=1.0000]
 Remarks: