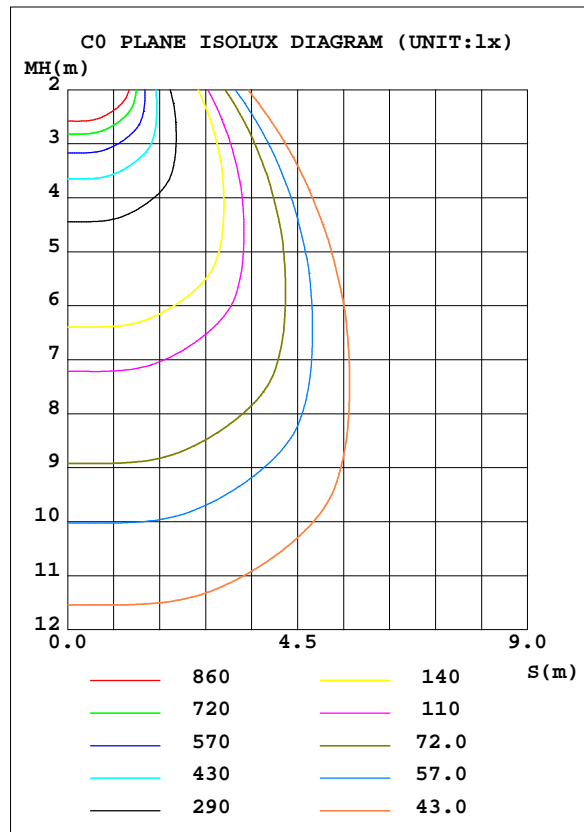
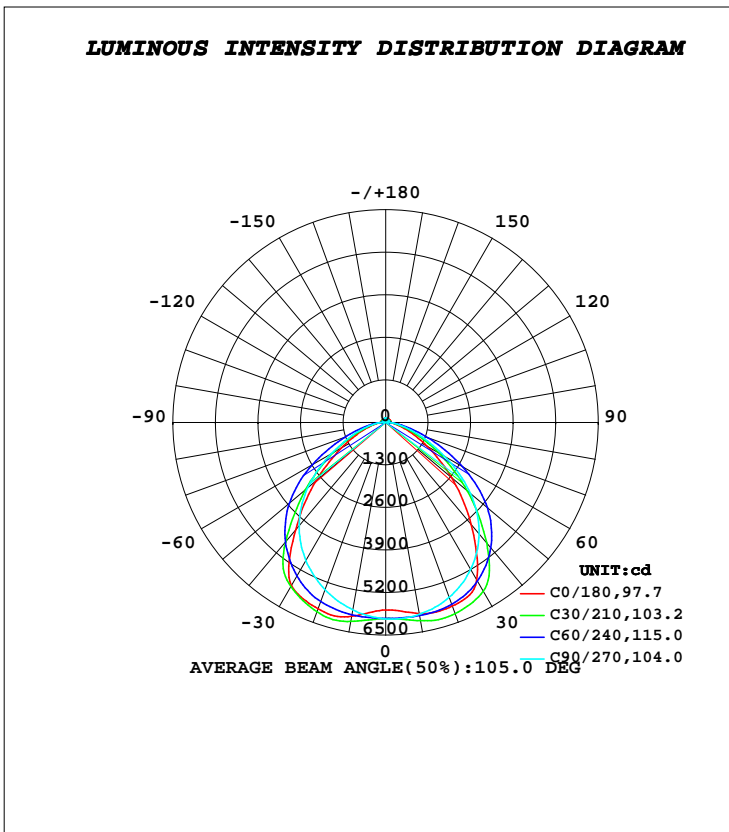


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 163.80 lm/W | | | |
|------------------|-------|-----------------------------------|--------|--------------------|----------|
| MODEL | | I _{max} (cd) | 6381 | S/MH(C0/180) | 1.31 |
| NOMINAL POWER(W) | 100 | LOR(%) | 100.0 | S/MH(C90/270) | 1.28 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 16937 | η UP, DN(C0-180) | 2.0,48.3 |
| NOMINAL FLUX(lm) | 16937 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 2.1,47.6 |
| LAMPS INSIDE | 1 | η up(%) | 4.1 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 221.6 | η down(%) | 95.9 | CIBSE SHR MAX | 1.50 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

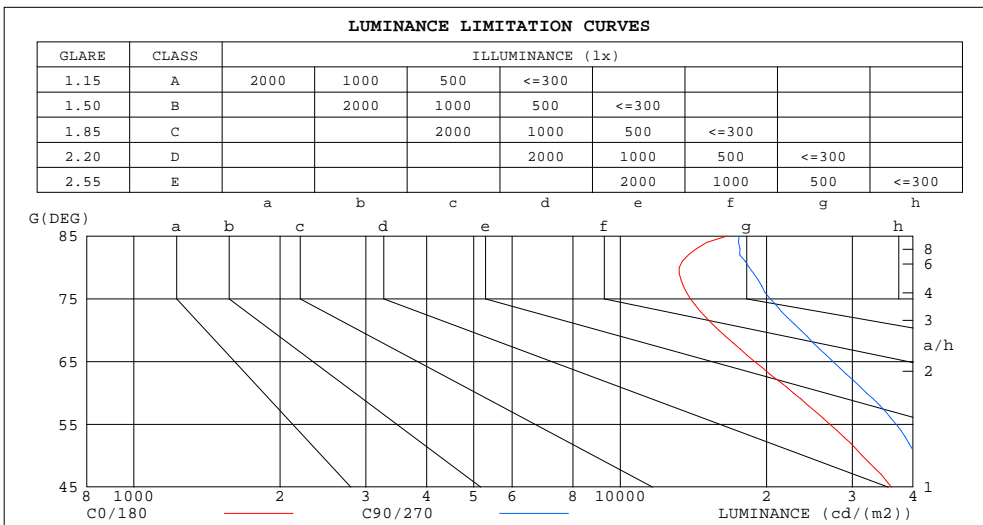
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 5928 | 6071 | 5952 | 6233 | 6013 | 6070 | 5812 | 5949 | 0- 10 | 572.7 | 572.7 | 3.38,3.38 |
| 20 | 5970 | 6065 | 5684 | 6209 | 6058 | 5986 | 5434 | 5864 | 10- 20 | 1704 | 2277 | 13.4,13.4 |
| 30 | 5569 | 5782 | 5191 | 5851 | 5759 | 5609 | 4877 | 5550 | 20- 30 | 2676 | 4953 | 29.2,29.2 |
| 40 | 4071 | 4903 | 4443 | 4916 | 4282 | 4766 | 4118 | 4736 | 30- 40 | 3228 | 8182 | 48.3,48.3 |
| 50 | 2630 | 3660 | 3391 | 3598 | 2793 | 3526 | 3115 | 3569 | 40- 50 | 3094 | 11275 | 66.6,66.6 |
| 60 | 1477 | 2300 | 2086 | 2200 | 1563 | 2228 | 1931 | 2297 | 50- 60 | 2441 | 13716 | 81,81 |
| 70 | 709.7 | 1139 | 1046 | 1074 | 783.0 | 1132 | 999.5 | 1180 | 60- 70 | 1520 | 15236 | 90,90 |
| 80 | 298.7 | 430.3 | 416.0 | 404.6 | 350.3 | 458.3 | 415.1 | 482.7 | 70- 80 | 738.9 | 15975 | 94.3,94.3 |
| 90 | 132.1 | 111.3 | 56.65 | 112.8 | 144.0 | 122.4 | 63.15 | 135.1 | 80- 90 | 264.3 | 16239 | 95.9,95.9 |
| 100 | 135.9 | 107.7 | 60.95 | 111.3 | 139.7 | 115.1 | 69.80 | 115.8 | 90-100 | 117.6 | 16357 | 96.6,96.6 |
| 110 | 135.1 | 108.1 | 68.67 | 112.7 | 141.6 | 118.6 | 71.27 | 117.3 | 100-110 | 117.4 | 16474 | 97.3,97.3 |
| 120 | 125.8 | 101.4 | 72.41 | 111.4 | 127.9 | 117.4 | 82.23 | 109.4 | 110-120 | 107.3 | 16581 | 97.9,97.9 |
| 130 | 126.0 | 99.44 | 80.96 | 112.7 | 127.9 | 119.7 | 89.57 | 106.1 | 120-130 | 96.61 | 16678 | 98.5,98.5 |
| 140 | 126.0 | 104.4 | 92.15 | 114.2 | 126.9 | 121.2 | 102.5 | 110.7 | 130-140 | 85.36 | 16763 | 99,99 |
| 150 | 123.8 | 110.0 | 105.3 | 116.0 | 123.7 | 122.1 | 115.0 | 115.9 | 140-150 | 71.84 | 16835 | 99.4,99.4 |
| 160 | 120.7 | 117.3 | 118.3 | 119.7 | 120.2 | 123.7 | 125.2 | 121.3 | 150-160 | 54.73 | 16890 | 99.7,99.7 |
| 170 | 122.8 | 126.0 | 129.0 | 126.2 | 120.8 | 127.6 | 132.7 | 127.7 | 160-170 | 34.94 | 16925 | 99.9,99.9 |
| 180 | 125.1 | 129.4 | 134.8 | 131.2 | 125.0 | 129.1 | 135.3 | 131.1 | 170-180 | 12.26 | 16937 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 16550 | 17544 |
| 80 | 13232 | 18427 |
| 75 | 13937 | 20359 |
| 70 | 15961 | 23530 |
| 65 | 18923 | 27416 |
| 60 | 22727 | 32088 |
| 55 | 26998 | 36920 |
| 50 | 31477 | 40576 |
| 45 | 36124 | 43041 |

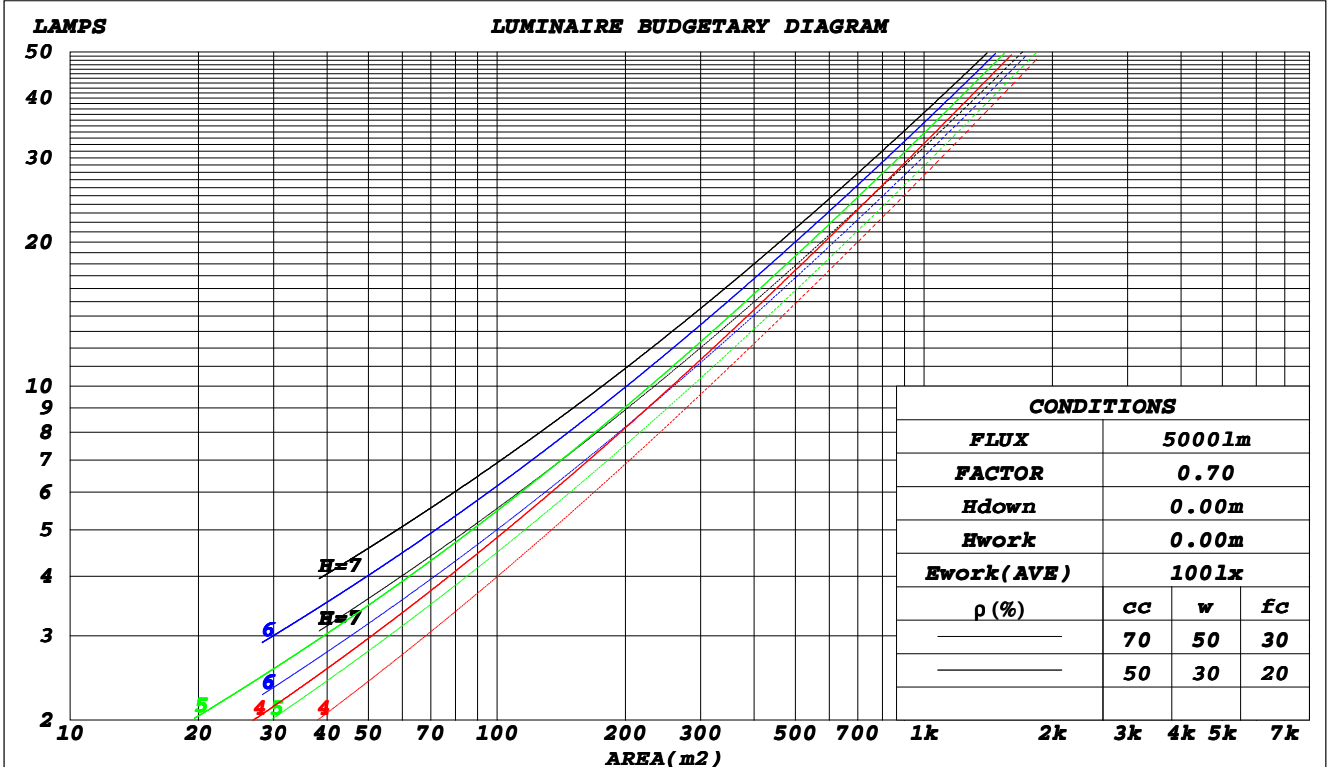
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|-----|-----|-----|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.03 | 1.03 | 1.03 | .98 | .98 | .98 | .96 |
| 1.0 | 1.04 | 1.00 | .97 | 1.02 | .98 | .95 | .97 | .94 | .91 | .92 | .90 | .88 | .88 | .86 | .84 | .82 |
| 2.0 | .92 | .85 | .80 | .90 | .84 | .79 | .85 | .81 | .76 | .82 | .78 | .74 | .78 | .75 | .72 | .70 |
| 3.0 | .81 | .74 | .67 | .79 | .72 | .67 | .76 | .70 | .65 | .73 | .68 | .63 | .70 | .65 | .62 | .59 |
| 4.0 | .72 | .64 | .58 | .71 | .63 | .57 | .68 | .61 | .56 | .65 | .59 | .55 | .62 | .58 | .54 | .51 |
| 5.0 | .65 | .56 | .50 | .64 | .56 | .50 | .61 | .54 | .49 | .59 | .53 | .48 | .56 | .51 | .47 | .45 |
| 6.0 | .59 | .50 | .44 | .57 | .49 | .44 | .55 | .48 | .43 | .53 | .47 | .42 | .51 | .46 | .41 | .39 |
| 7.0 | .53 | .45 | .39 | .52 | .44 | .39 | .50 | .43 | .38 | .49 | .42 | .38 | .47 | .41 | .37 | .35 |
| 8.0 | .49 | .40 | .35 | .48 | .40 | .35 | .46 | .39 | .34 | .45 | .38 | .34 | .43 | .37 | .33 | .31 |
| 9.0 | .45 | .37 | .31 | .44 | .36 | .31 | .42 | .36 | .31 | .41 | .35 | .30 | .40 | .34 | .30 | .28 |
| 10.0 | .41 | .33 | .28 | .41 | .33 | .28 | .39 | .33 | .28 | .38 | .32 | .28 | .37 | .31 | .27 | .26 |



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-06-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

WEC AND CCEC

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .284 | .162 | .051 | .276 | .157 | .050 | .261 | .149 | .048 | .246 | .142 | .046 | .233 | .135 | .044 | |
| 2.0 | .269 | .148 | .045 | .262 | .144 | .044 | .248 | .138 | .043 | .236 | .132 | .041 | .224 | .127 | .040 | |
| 3.0 | .252 | .134 | .040 | .245 | .131 | .040 | .233 | .126 | .038 | .222 | .121 | .037 | .211 | .117 | .036 | |
| 4.0 | .234 | .122 | .036 | .228 | .120 | .035 | .218 | .115 | .034 | .207 | .111 | .034 | .198 | .108 | .033 | |
| 5.0 | .218 | .111 | .032 | .213 | .109 | .032 | .203 | .106 | .031 | .194 | .102 | .030 | .186 | .099 | .030 | |
| 6.0 | .203 | .102 | .029 | .199 | .100 | .029 | .190 | .097 | .028 | .182 | .095 | .028 | .174 | .092 | .027 | |
| 7.0 | .190 | .094 | .027 | .186 | .093 | .026 | .178 | .090 | .026 | .171 | .088 | .026 | .164 | .085 | .025 | |
| 8.0 | .179 | .087 | .025 | .175 | .086 | .024 | .168 | .084 | .024 | .161 | .082 | .024 | .155 | .079 | .023 | |
| 9.0 | .168 | .081 | .023 | .165 | .080 | .023 | .158 | .078 | .022 | .152 | .076 | .022 | .146 | .074 | .021 | |
| 10.0 | .158 | .076 | .021 | .155 | .075 | .021 | .149 | .073 | .021 | .144 | .071 | .020 | .139 | .070 | .020 | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|------------------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .222 | .222 | .222 | .190 | .190 | .190 | .129 | .129 | .129 | .074 | .074 | .074 | .024 | .024 | .024 | |
| 1.0 | .210 | .188 | .168 | .180 | .161 | .145 | .123 | .111 | .100 | .071 | .064 | .058 | .023 | .021 | .019 | |
| 2.0 | .201 | .164 | .133 | .172 | .141 | .115 | .118 | .098 | .080 | .068 | .057 | .047 | .022 | .018 | .015 | |
| 3.0 | .193 | .146 | .109 | .165 | .126 | .094 | .114 | .088 | .066 | .066 | .051 | .039 | .021 | .017 | .013 | |
| 4.0 | .185 | .133 | .093 | .159 | .115 | .081 | .109 | .080 | .057 | .063 | .047 | .034 | .020 | .015 | .011 | |
| 5.0 | .178 | .122 | .081 | .153 | .106 | .071 | .105 | .074 | .050 | .061 | .043 | .030 | .020 | .014 | .010 | |
| 6.0 | .171 | .114 | .073 | .147 | .099 | .064 | .102 | .069 | .045 | .059 | .041 | .027 | .019 | .013 | .009 | |
| 7.0 | .165 | .107 | .067 | .142 | .093 | .058 | .098 | .065 | .041 | .057 | .038 | .025 | .018 | .013 | .008 | |
| 8.0 | .159 | .101 | .062 | .136 | .088 | .054 | .094 | .062 | .038 | .055 | .036 | .023 | .018 | .012 | .008 | |
| 9.0 | .153 | .097 | .059 | .132 | .084 | .051 | .091 | .059 | .036 | .053 | .035 | .022 | .017 | .011 | .007 | |
| 10.0 | .147 | .092 | .056 | .127 | .080 | .049 | .088 | .056 | .034 | .051 | .033 | .021 | .017 | .011 | .007 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

UGR(Unified Glare Rating) Table

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

| 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 | 24.0 | 25.4 | 24.4 | 25.7 | 26.0 | 25.7 | 27.1 | 26.0 | 27.3 | 27.6 |
| 3H | 24.6 | 25.9 | 25.0 | 26.2 | 26.5 | 26.5 | 27.8 | 26.9 | 28.1 | 28.4 |
| 4H | 24.8 | 26.0 | 25.2 | 26.4 | 26.7 | 26.8 | 28.0 | 27.2 | 28.4 | 28.7 |
| 6H | 25.0 | 26.1 | 25.4 | 26.5 | 26.8 | 27.0 | 28.1 | 27.4 | 28.5 | 28.8 |
| 8H | 25.0 | 26.1 | 25.4 | 26.5 | 26.9 | 27.1 | 28.2 | 27.5 | 28.5 | 28.9 |
| 12H | 25.1 | 26.2 | 25.5 | 26.5 | 26.9 | 27.1 | 28.1 | 27.5 | 28.5 | 28.9 |
| 4H 2H | 24.7 | 25.9 | 25.1 | 26.3 | 26.6 | 26.0 | 27.2 | 26.4 | 27.6 | 27.9 |
| 3H | 25.5 | 26.5 | 25.9 | 26.9 | 27.3 | 27.2 | 28.2 | 27.6 | 28.6 | 29.0 |
| 4H | 25.7 | 26.7 | 26.2 | 27.1 | 27.5 | 27.6 | 28.5 | 28.0 | 28.9 | 29.3 |
| 6H | 26.0 | 26.8 | 26.4 | 27.2 | 27.7 | 27.9 | 28.7 | 28.3 | 29.1 | 29.6 |
| 8H | 26.1 | 26.9 | 26.5 | 27.3 | 27.8 | 28.0 | 28.8 | 28.4 | 29.2 | 29.7 |
| 12H | 26.2 | 26.9 | 26.7 | 27.4 | 27.8 | 28.0 | 28.8 | 28.5 | 29.2 | 29.7 |
| 8H 4H | 26.0 | 26.8 | 26.5 | 27.2 | 27.7 | 27.7 | 28.4 | 28.1 | 28.9 | 29.3 |
| 6H | 26.4 | 27.0 | 26.9 | 27.5 | 28.0 | 28.1 | 28.7 | 28.6 | 29.2 | 29.7 |
| 8H | 26.5 | 27.1 | 27.0 | 27.6 | 28.1 | 28.3 | 28.9 | 28.8 | 29.4 | 29.9 |
| 12H | 26.7 | 27.2 | 27.3 | 27.7 | 28.3 | 28.4 | 28.9 | 29.0 | 29.4 | 30.0 |
| 12H 4H | 26.0 | 26.7 | 26.5 | 27.2 | 27.7 | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 |
| 6H | 26.4 | 27.0 | 26.9 | 27.5 | 28.0 | 28.1 | 28.7 | 28.6 | 29.2 | 29.7 |
| 8H | 26.6 | 27.1 | 27.2 | 27.6 | 28.2 | 28.3 | 28.8 | 28.9 | 29.3 | 29.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.5 / - 0.6 | | | | | + 0.3 / - 0.3 | | | | |
| 1.5H | + 0.3 / - 0.5 | | | | | + 0.6 / - 0.7 | | | | |
| 2.0H | + 0.5 / - 1.1 | | | | | + 0.4 / - 1.0 | | | | |

CIE Pub.117, 16937 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.8)
 Area: 0.13 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

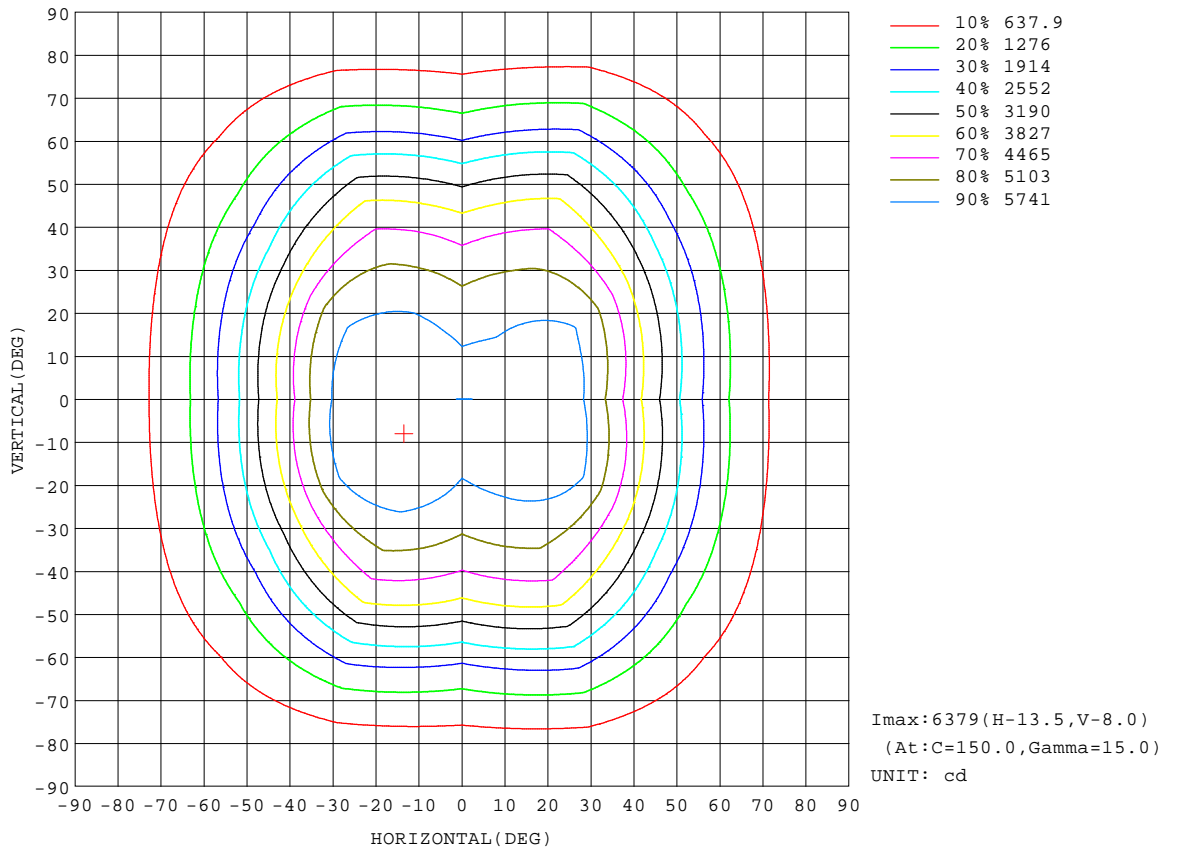
| REFLECTANCE | | | | | | | | | | |
|---|---|-----|------------------|-----|-----|-----|----------------------|-----|-----|---------------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 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 | 59 | 48 | 42 | 58 | 48 | 41 | 57 | 47 | 41 | 35 |
| 0.80 | 69 | 58 | 51 | 68 | 58 | 51 | 66 | 57 | 51 | 44 |
| 1.00 | 78 | 67 | 60 | 76 | 67 | 60 | 74 | 67 | 59 | 52 |
| 1.25 | 85 | 75 | 68 | 83 | 74 | 68 | 80 | 72 | 67 | 59 |
| 1.50 | 89 | 80 | 74 | 88 | 79 | 73 | 84 | 77 | 72 | 64 |
| 2.00 | 96 | 88 | 82 | 94 | 87 | 81 | 90 | 84 | 79 | 71 |
| 2.50 | 99 | 92 | 87 | 97 | 91 | 85 | 93 | 87 | 83 | 74 |
| 3.00 | 103 | 96 | 91 | 100 | 94 | 90 | 96 | 91 | 87 | 78 |
| 4.00 | 106 | 101 | 96 | 104 | 99 | 95 | 99 | 95 | 92 | 82 |
| 5.00 | 108 | 104 | 100 | 106 | 102 | 98 | 101 | 97 | 94 | 84 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |



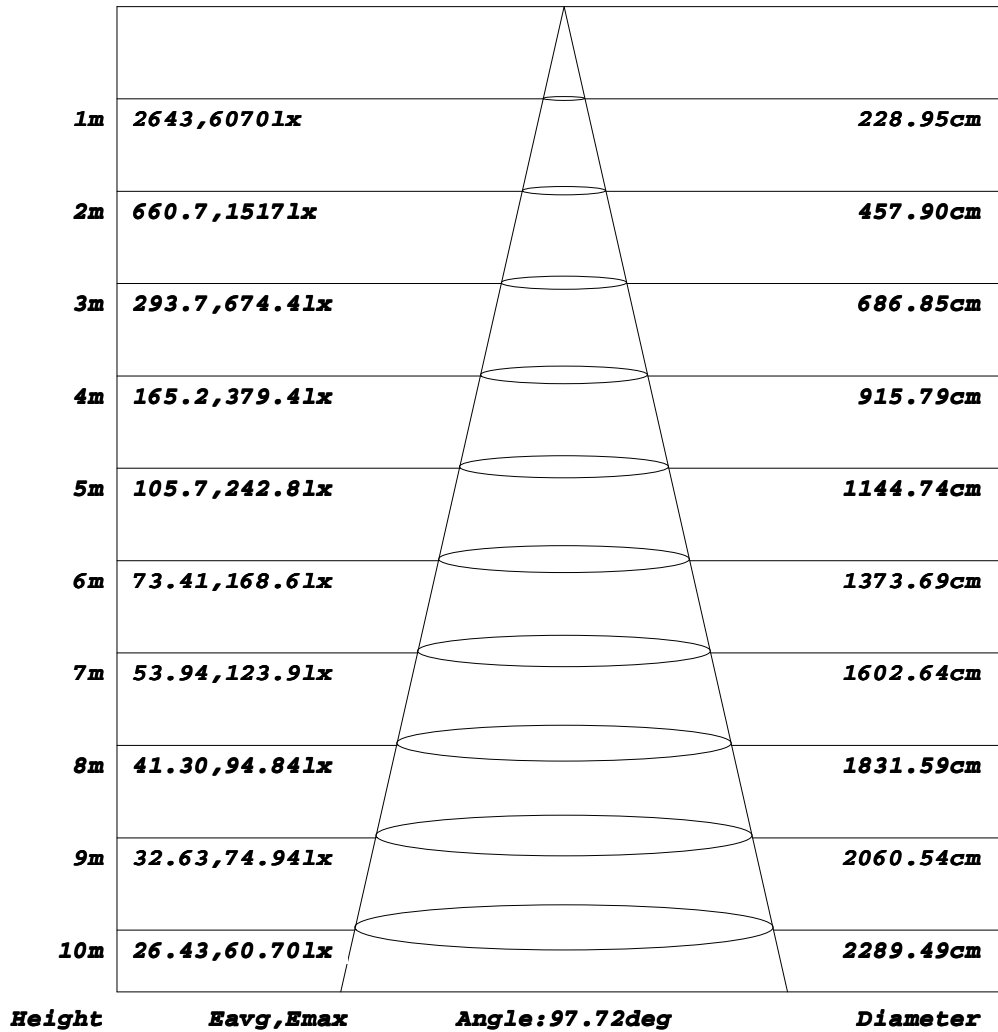
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

AAI Figure

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

Flux out:10988 lm



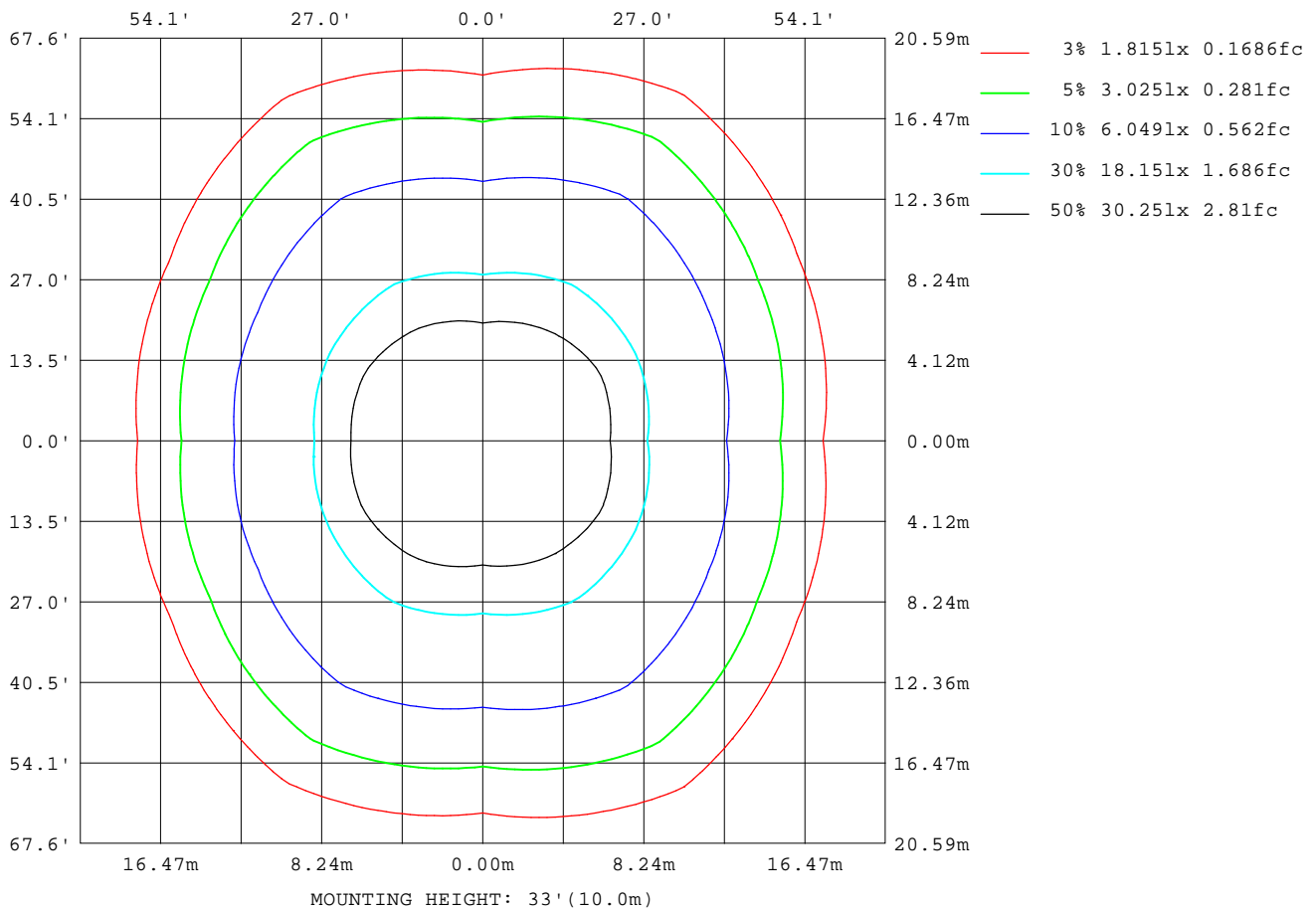
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

ISOLUX DIAGRAM

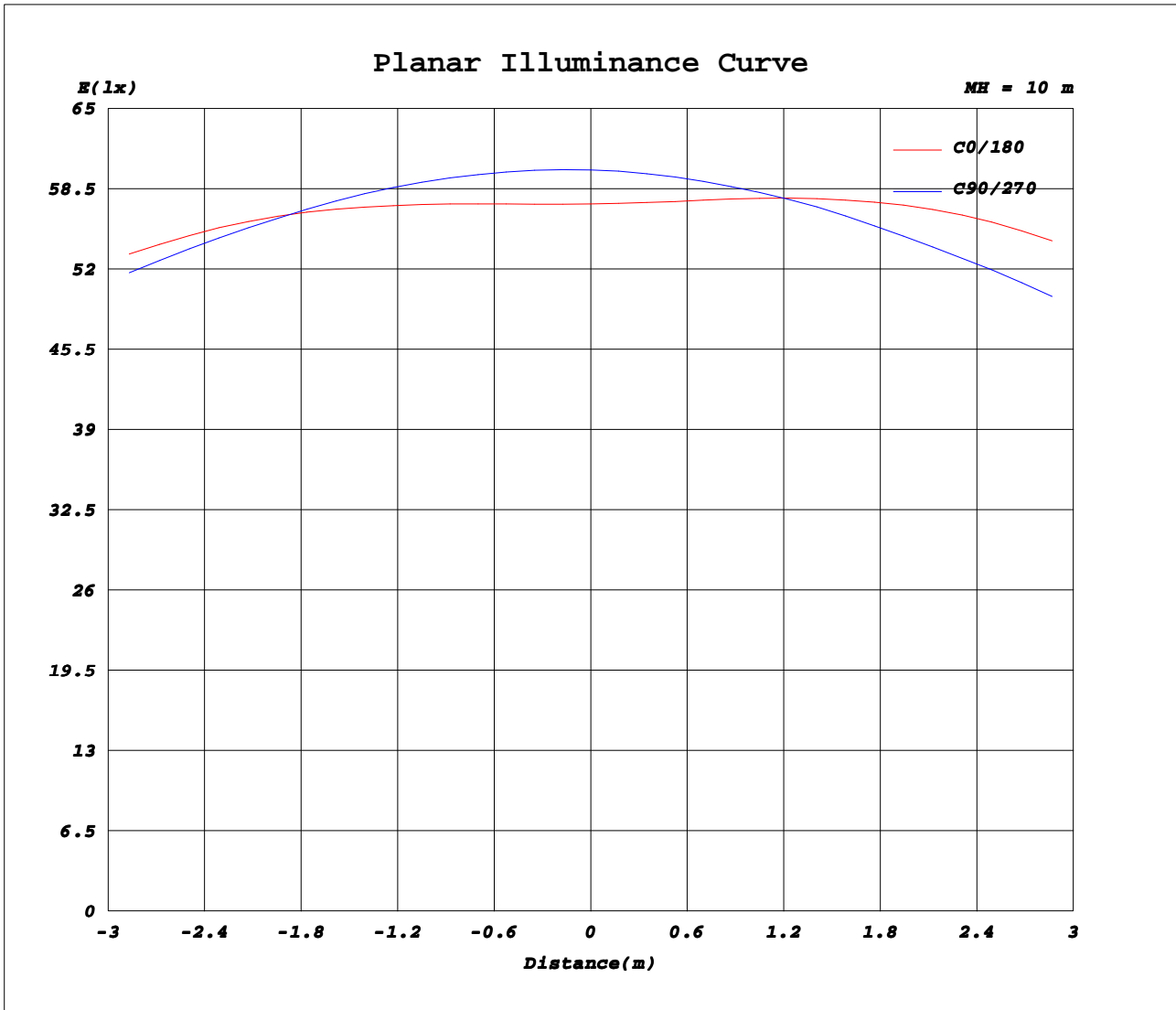
| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz | | |
| Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------|--|
| Test:U:220.60V I:0.4950A P:103.40W PF:0.9730 Freq:50.00Hz Lamp Flux:16937x1 lm | | |
| Name: NS51-100W | Type: LED | |
| MFR.: Lumega Group | DIM.: 2000*65*55mm | |
| | SUR.: 1980*65mm | |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 5729 | 5992 | 5990 | 6003 | 6021 | 6002 | 5729 | 5992 | 5990 | 6003 | 6021 | 6002 | | | | | | | |
| 5 | 5794 | 6038 | 5993 | 6007 | 6106 | 6134 | 5834 | 6061 | 5984 | 5936 | 5932 | 5982 | | | | | | | |
| 10 | 5928 | 6150 | 5992 | 5952 | 6164 | 6302 | 6013 | 6173 | 5966 | 5812 | 5851 | 6047 | | | | | | | |
| 15 | 5992 | 6238 | 5975 | 5847 | 6169 | 6381 | 6115 | 6236 | 5912 | 5647 | 5770 | 6101 | | | | | | | |
| 20 | 5970 | 6215 | 5915 | 5684 | 6107 | 6310 | 6058 | 6153 | 5820 | 5434 | 5671 | 6058 | | | | | | | |
| 25 | 5894 | 6126 | 5794 | 5467 | 5954 | 6176 | 5955 | 6001 | 5661 | 5178 | 5526 | 5953 | | | | | | | |
| 30 | 5569 | 5961 | 5603 | 5191 | 5722 | 5981 | 5759 | 5795 | 5423 | 4877 | 5315 | 5785 | | | | | | | |
| 35 | 4839 | 5532 | 5336 | 4856 | 5415 | 5577 | 5136 | 5456 | 5120 | 4521 | 5052 | 5416 | | | | | | | |
| 40 | 4071 | 4806 | 5001 | 4443 | 5032 | 4801 | 4282 | 4760 | 4773 | 4118 | 4745 | 4728 | | | | | | | |
| 45 | 3321 | 4016 | 4574 | 3957 | 4558 | 3974 | 3521 | 3936 | 4339 | 3648 | 4357 | 3961 | | | | | | | |
| 50 | 2630 | 3261 | 4060 | 3391 | 3989 | 3207 | 2793 | 3205 | 3848 | 3115 | 3901 | 3236 | | | | | | | |
| 55 | 2013 | 2539 | 3420 | 2753 | 3314 | 2476 | 2116 | 2491 | 3252 | 2521 | 3322 | 2540 | | | | | | | |
| 60 | 1477 | 1888 | 2713 | 2086 | 2577 | 1824 | 1563 | 1865 | 2590 | 1931 | 2671 | 1922 | | | | | | | |
| 65 | 1040 | 1335 | 2016 | 1506 | 1887 | 1290 | 1120 | 1332 | 1929 | 1407 | 2014 | 1383 | | | | | | | |
| 70 | 710 | 896 | 1382 | 1046 | 1273 | 875 | 783 | 916 | 1347 | 999 | 1416 | 945 | | | | | | | |
| 75 | 469 | 578 | 873 | 685 | 794 | 571 | 533 | 608 | 872 | 670 | 929 | 621 | | | | | | | |
| 80 | 299 | 357 | 503 | 416 | 451 | 358 | 350 | 390 | 526 | 415 | 569 | 397 | | | | | | | |
| 85 | 188 | 208 | 252 | 199 | 219 | 212 | 225 | 242 | 281 | 218 | 314 | 242 | | | | | | | |
| 90 | 132 | 126 | 96.7 | 56.6 | 95.3 | 130 | 144 | 138 | 107 | 63.1 | 129 | 141 | | | | | | | |
| 95 | 130 | 121 | 91.5 | 61.3 | 91.8 | 126 | 135 | 131 | 97.4 | 69.4 | 99.8 | 133 | | | | | | | |
| 100 | 136 | 124 | 91.3 | 61.0 | 93.4 | 129 | 140 | 133 | 97.6 | 69.8 | 98.8 | 133 | | | | | | | |
| 105 | 141 | 126 | 93.0 | 64.6 | 98.2 | 132 | 142 | 133 | 101 | 72.1 | 100 | 135 | | | | | | | |
| 110 | 135 | 123 | 93.0 | 68.7 | 99.1 | 126 | 142 | 132 | 105 | 71.3 | 99.8 | 135 | | | | | | | |
| 115 | 128 | 117 | 91.7 | 69.3 | 99.8 | 121 | 132 | 127 | 106 | 76.7 | 96.8 | 128 | | | | | | | |
| 120 | 126 | 112 | 91.1 | 72.4 | 101 | 121 | 128 | 127 | 108 | 82.2 | 96.0 | 123 | | | | | | | |
| 125 | 126 | 110 | 90.9 | 76.5 | 102 | 122 | 128 | 128 | 110 | 86.4 | 96.2 | 118 | | | | | | | |
| 130 | 126 | 108 | 91.1 | 81.0 | 103 | 123 | 128 | 128 | 111 | 89.6 | 97.4 | 115 | | | | | | | |
| 135 | 126 | 109 | 93.8 | 86.1 | 104 | 123 | 128 | 128 | 113 | 95.9 | 100 | 116 | | | | | | | |
| 140 | 126 | 111 | 97.5 | 92.2 | 105 | 123 | 127 | 128 | 114 | 102 | 105 | 117 | | | | | | | |
| 145 | 125 | 113 | 102 | 98.7 | 107 | 123 | 126 | 127 | 116 | 109 | 109 | 118 | | | | | | | |
| 150 | 124 | 114 | 106 | 105 | 110 | 122 | 124 | 126 | 118 | 115 | 113 | 119 | | | | | | | |
| 155 | 122 | 115 | 112 | 112 | 114 | 121 | 122 | 124 | 121 | 120 | 118 | 119 | | | | | | | |
| 160 | 121 | 117 | 118 | 118 | 119 | 120 | 120 | 123 | 125 | 125 | 122 | 121 | | | | | | | |
| 165 | 121 | 120 | 123 | 124 | 124 | 121 | 119 | 122 | 128 | 129 | 127 | 123 | | | | | | | |
| 170 | 123 | 124 | 128 | 129 | 128 | 124 | 121 | 124 | 131 | 133 | 130 | 125 | | | | | | | |
| 175 | 125 | 127 | 132 | 133 | 131 | 127 | 123 | 126 | 132 | 135 | 132 | 127 | | | | | | | |
| 180 | 125 | 127 | 132 | 135 | 133 | 129 | 125 | 126 | 132 | 135 | 133 | 129 | | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-06-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks: