

GAME 900-U-90W-830



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0%  |                          |
| Luminaire Power:    | 95.34 W |                          |
| SHR Nominal:        | 1.25    | Calculated using the TM5 |
| SHR Maximum:        | 1.35    | fine grid method.        |

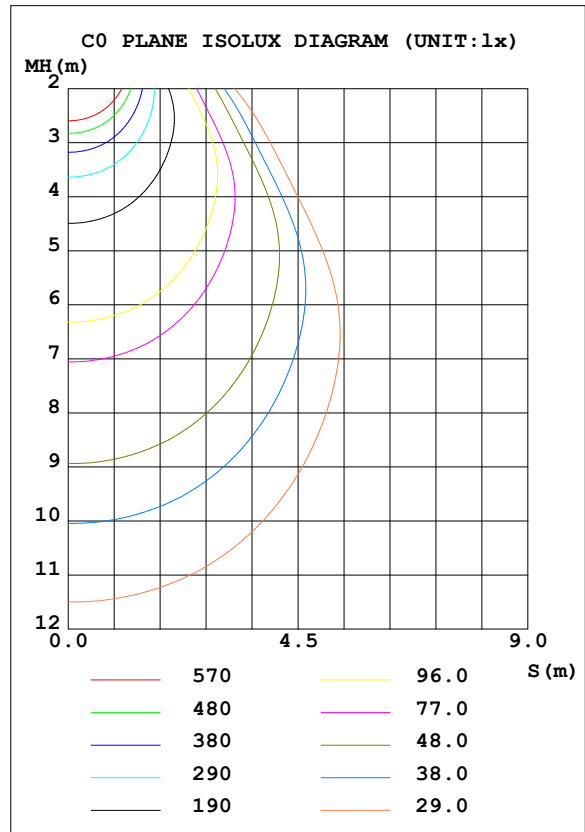
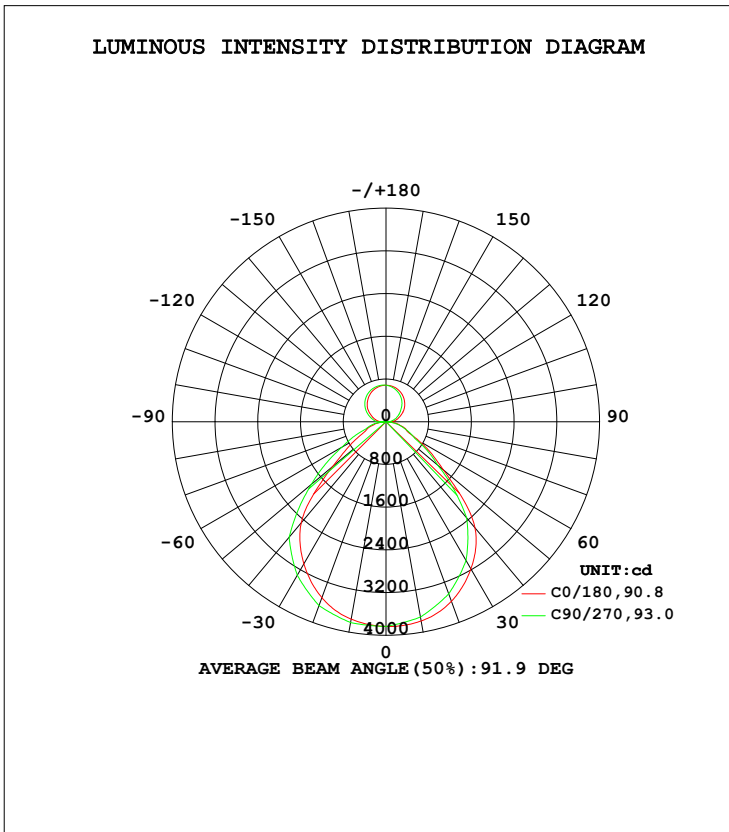
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-03-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

| DATA OF LAMP      |             | PHOTOMETRIC DATA Eff: 109.58 lm/W |         |                     |            |
|-------------------|-------------|-----------------------------------|---------|---------------------|------------|
| MODEL             | OSRAM-3000K | I <sub>max</sub> (cd)             | 3835    | S/MH (C0/180)       | 1.20       |
| NOMINAL POWER (W) | 95          | LOR (%)                           | 100.0   | S/MH (C90/270)      | 1.28       |
| RATED VOLTAGE (V) | 220.0       | TOTAL FLUX (lm)                   | 10448   | η UP, DN (C0-180)   | 10.2, 36.4 |
| NOMINAL FLUX (lm) | 10447.6     | CIE CLASS                         | SEMI-D. | η UP, DN (C180-360) | 12.3, 41.1 |
| LAMPS INSIDE      | 1           | η up (%)                          | 22.5    | CIBSE SHR NOM       | 1.25       |
| TEST VOLTAGE (V)  | 220.0       | η down (%)                        | 77.5    | CIBSE SHR MAX       | 1.35       |



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 C Interval: 5.0DEG  
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 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 5.850m [K=1.7094]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

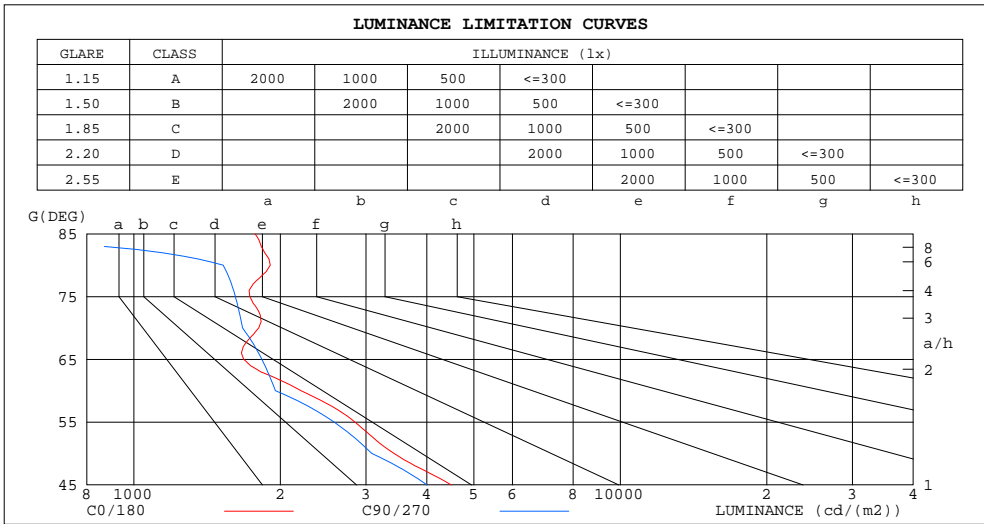
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------------|
| 10       | 3788                  | 3732  | 3715  | 3705  | 3754  | 3782  | 3820  | 3804  | 0- 10    | 361.8       | 361.8        | 3.46,3.46       |
| 20       | 3580                  | 3465  | 3432  | 3421  | 3508  | 3582  | 3665  | 3636  | 10- 20   | 1034        | 1396         | 13.4,13.4       |
| 30       | 3181                  | 3029  | 2999  | 2997  | 3076  | 3203  | 3321  | 3292  | 20- 30   | 1543        | 2939         | 28.1,28.1       |
| 40       | 2593                  | 2389  | 2350  | 2319  | 2469  | 2646  | 2822  | 2778  | 30- 40   | 1784        | 4722         | 45.2,45.2       |
| 50       | 1405                  | 1137  | 1266  | 1175  | 1299  | 1586  | 1819  | 1625  | 40- 50   | 1535        | 6257         | 59.9,59.9       |
| 60       | 704.4                 | 581.5 | 623.9 | 704.0 | 638.1 | 676.0 | 948.1 | 905.5 | 50- 60   | 926.9       | 7184         | 68.8,68.8       |
| 70       | 394.2                 | 343.7 | 365.2 | 383.3 | 367.1 | 411.6 | 407.9 | 471.8 | 60- 70   | 529.5       | 7714         | 73.8,73.8       |
| 80       | 211.5                 | 156.0 | 169.2 | 168.9 | 181.2 | 208.5 | 220.8 | 252.2 | 70- 80   | 302.5       | 8016         | 76.7,76.7       |
| 90       | 114.1                 | 70.23 | 63.77 | 84.16 | 111.2 | 141.5 | 167.7 | 149.5 | 80- 90   | 78.20       | 8094         | 77.5,77.5       |
| 100      | 188.8                 | 131.7 | 118.1 | 151.1 | 185.6 | 225.3 | 249.2 | 231.7 | 90-100   | 160.5       | 8255         | 79,79           |
| 110      | 271.1                 | 213.1 | 201.3 | 233.4 | 272.4 | 317.6 | 341.1 | 321.8 | 100-110  | 240.3       | 8495         | 81.3,81.3       |
| 120      | 367.1                 | 296.8 | 282.6 | 311.2 | 367.6 | 411.1 | 434.8 | 414.3 | 110-120  | 313.0       | 8808         | 84.3,84.3       |
| 130      | 458.4                 | 403.5 | 369.0 | 411.1 | 459.5 | 497.8 | 519.2 | 498.6 | 120-130  | 364.0       | 9172         | 87.8,87.8       |
| 140      | 534.4                 | 487.2 | 466.4 | 496.6 | 532.8 | 571.8 | 588.8 | 571.2 | 130-140  | 380.6       | 9553         | 91.4,91.4       |
| 150      | 599.4                 | 564.3 | 549.2 | 571.9 | 598.6 | 628.7 | 641.1 | 627.3 | 140-150  | 354.7       | 9907         | 94.8,94.8       |
| 160      | 647.2                 | 623.7 | 613.1 | 629.3 | 646.7 | 666.8 | 674.9 | 665.1 | 150-160  | 287.9       | 10195        | 97.6,97.6       |
| 170      | 676.5                 | 665.3 | 659.9 | 667.2 | 676.2 | 685.9 | 690.0 | 684.8 | 160-170  | 187.3       | 10383        | 99.4,99.4       |
| 180      | 686.0                 | 686.0 | 686.0 | 686.0 | 686.0 | 686.0 | 686.0 | 686.0 | 170-180  | 65.00       | 10448        | 100,100         |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |                 |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1775   | 0       |
| 80                | 1907   | 1526    |
| 75                | 1731   | 1617    |
| 70                | 1805   | 1672    |
| 65                | 1682   | 1833    |
| 60                | 2206   | 1954    |
| 55                | 2848   | 2580    |
| 50                | 3424   | 3083    |
| 45                | 4492   | 4004    |

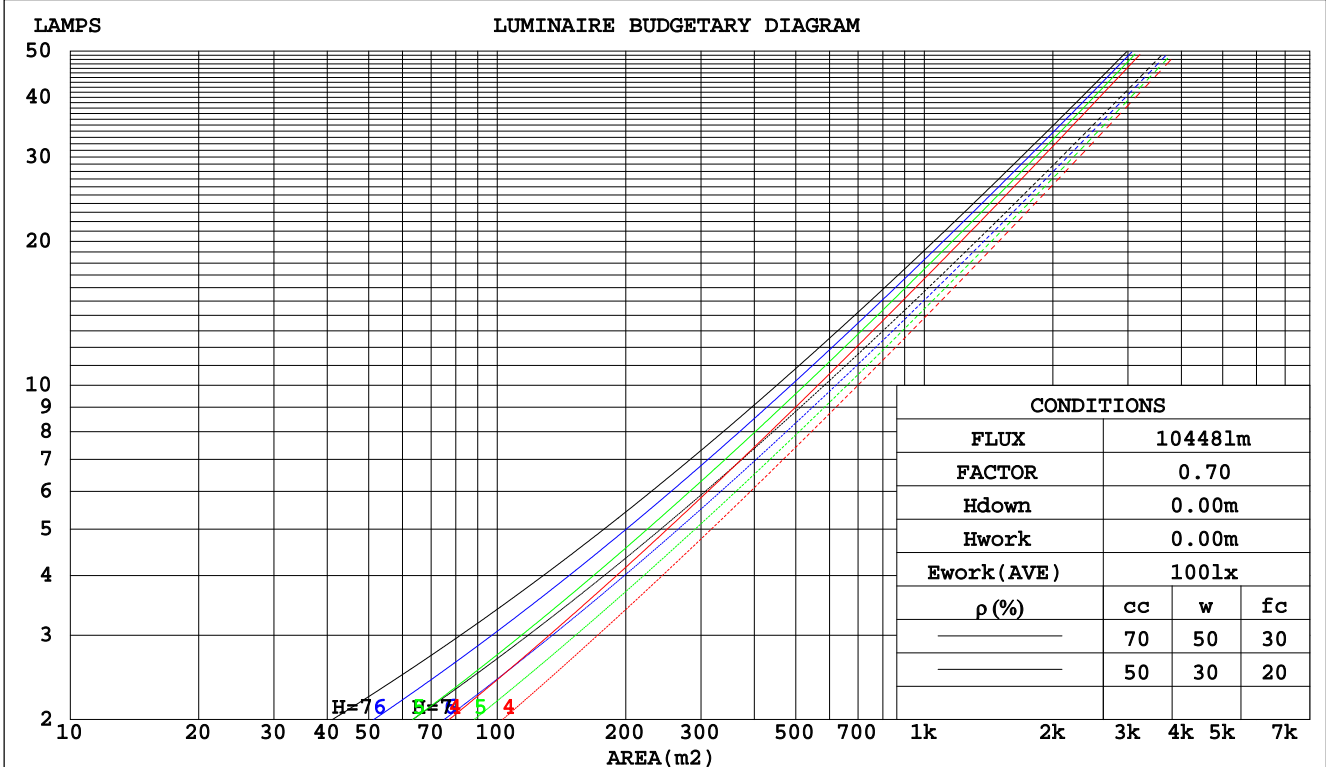
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 Test Distance:5.850m [K=1.7094]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |                    |                  |
|---|--------------------|------------------|
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| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | 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   |
| ρw   |                                 |      |      |      |      |      |     |     |     |     |     |     |     |     |     | 0   |
| ρfc  | 20%                             |      |      | 20%  |      |      | 20% |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
| 0.0  | 1.14                            | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | .99 | .99 | .99 | .90 | .90 | .90 | .81 | .81 | .81 | .77 |
| 1.0  | 1.01                            | .97  | .94  | .97  | .93  | .91  | .88 | .86 | .84 | .81 | .79 | .77 | .74 | .72 | .71 | .68 |
| 2.0  | .90                             | .84  | .79  | .86  | .81  | .76  | .79 | .75 | .71 | .72 | .69 | .66 | .66 | .64 | .62 | .59 |
| 3.0  | .80                             | .73  | .67  | .77  | .70  | .65  | .71 | .66 | .61 | .65 | .61 | .58 | .60 | .57 | .54 | .51 |
| 4.0  | .72                             | .64  | .58  | .69  | .62  | .57  | .64 | .58 | .54 | .59 | .54 | .51 | .54 | .51 | .48 | .45 |
| 5.0  | .65                             | .57  | .51  | .62  | .55  | .50  | .58 | .52 | .47 | .54 | .49 | .45 | .50 | .46 | .42 | .40 |
| 6.0  | .59                             | .51  | .45  | .57  | .49  | .44  | .53 | .46 | .42 | .49 | .44 | .40 | .45 | .41 | .38 | .35 |
| 7.0  | .53                             | .46  | .40  | .52  | .44  | .39  | .48 | .42 | .37 | .45 | .40 | .36 | .42 | .37 | .34 | .32 |
| 8.0  | .49                             | .41  | .36  | .47  | .40  | .35  | .44 | .38 | .34 | .41 | .36 | .32 | .39 | .34 | .31 | .29 |
| 9.0  | .45                             | .38  | .32  | .44  | .37  | .32  | .41 | .35 | .31 | .38 | .33 | .29 | .36 | .31 | .28 | .26 |
| 10.0 | .42                             | .34  | .30  | .40  | .34  | .29  | .38 | .32 | .28 | .35 | .30 | .27 | .33 | .29 | .26 | .24 |



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Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

WEC AND CCEC

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
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| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | 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  | .260                  | .148 | .047 | .246 | .140 | .045 | .220                            | .126 | .040 | .196 | .113 | .036 | .175 | .101 | .033 |   |
| 2.0  | .246                  | .135 | .041 | .234 | .129 | .040 | .211                            | .117 | .036 | .189 | .106 | .033 | .170 | .096 | .030 |   |
| 3.0  | .231                  | .123 | .037 | .219 | .118 | .035 | .199                            | .108 | .033 | .179 | .098 | .030 | .161 | .089 | .028 |   |
| 4.0  | .215                  | .112 | .033 | .205 | .107 | .032 | .186                            | .099 | .030 | .169 | .091 | .027 | .152 | .083 | .025 |   |
| 5.0  | .202                  | .103 | .030 | .192 | .099 | .029 | .175                            | .091 | .027 | .159 | .084 | .025 | .144 | .077 | .023 |   |
| 6.0  | .189                  | .095 | .027 | .180 | .091 | .026 | .165                            | .084 | .025 | .150 | .078 | .023 | .136 | .072 | .021 |   |
| 7.0  | .177                  | .088 | .025 | .170 | .085 | .024 | .155                            | .078 | .023 | .141 | .072 | .021 | .129 | .067 | .020 |   |
| 8.0  | .167                  | .082 | .023 | .160 | .079 | .022 | .146                            | .073 | .021 | .134 | .068 | .020 | .122 | .063 | .018 |   |
| 9.0  | .157                  | .076 | .021 | .151 | .074 | .021 | .138                            | .068 | .019 | .127 | .064 | .018 | .116 | .059 | .017 |   |
| 10.0 | .149                  | .071 | .020 | .143 | .069 | .019 | .131                            | .064 | .018 | .120 | .060 | .017 | .110 | .055 | .016 |   |

| 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  | .362                  | .362 | .362 | .309 | .309 | .309 | .211                                       | .211 | .211 | .121 | .121 | .121 | .039 | .039 | .039 |   |
| 1.0  | .350                  | .330 | .311 | .299 | .283 | .268 | .205                                       | .195 | .185 | .118 | .113 | .108 | .038 | .036 | .035 |   |
| 2.0  | .340                  | .306 | .278 | .292 | .264 | .240 | .200                                       | .182 | .167 | .115 | .106 | .098 | .037 | .034 | .032 |   |
| 3.0  | .332                  | .289 | .255 | .285 | .249 | .221 | .195                                       | .173 | .155 | .113 | .101 | .091 | .036 | .033 | .030 |   |
| 4.0  | .324                  | .276 | .239 | .278 | .239 | .208 | .191                                       | .166 | .146 | .111 | .097 | .087 | .036 | .032 | .028 |   |
| 5.0  | .317                  | .266 | .228 | .273 | .230 | .198 | .188                                       | .161 | .140 | .109 | .094 | .083 | .035 | .031 | .027 |   |
| 6.0  | .311                  | .258 | .220 | .267 | .223 | .191 | .184                                       | .156 | .135 | .107 | .092 | .080 | .035 | .030 | .027 |   |
| 7.0  | .305                  | .251 | .214 | .262 | .218 | .186 | .181                                       | .153 | .132 | .105 | .090 | .079 | .034 | .029 | .026 |   |
| 8.0  | .299                  | .246 | .209 | .257 | .213 | .182 | .178                                       | .150 | .129 | .104 | .088 | .077 | .034 | .029 | .025 |   |
| 9.0  | .294                  | .241 | .205 | .253 | .209 | .179 | .175                                       | .147 | .127 | .102 | .087 | .076 | .033 | .028 | .025 |   |
| 10.0 | .289                  | .237 | .202 | .249 | .206 | .177 | .173                                       | .145 | .125 | .101 | .086 | .075 | .033 | .028 | .025 |   |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

UGR(Unified Glare Rating) Table

|   |                  |     |     |     |                    |                |     |                  |     |      |
|---|------------------|-----|-----|-----|--------------------|----------------|-----|------------------|-----|------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                  |     |     |     |                    |                |     |                  |     |      |
| NAME: GAME 900-U-90W-830  |                  |     |     |     | TYPE:Ceiling light |                |     | WEIGHT:          |     |      |
| SPEC.:3000K   |                  |     |     |     | DIM.: φ900mm*H45mm |                |     | SERIAL No.:      |     |      |
| MFR.: NEKO LIGHTING AG  |                  |     |     |     | SUR.:φ900mm        |                |     | 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   | 5.9              | 7.0 | 6.5 | 7.5 | 8.1                | 5.7            | 6.8 | 6.2              | 7.3 | 7.9  |
| 3H  | 6.6              | 7.6 | 7.1 | 8.1 | 8.8                | 6.4            | 7.4 | 7.0              | 8.0 | 8.6  |
| 4H  | 6.9              | 7.8 | 7.5 | 8.4 | 9.1                | 6.7            | 7.7 | 7.3              | 8.3 | 8.9  |
| 6H  | 7.2              | 8.1 | 7.8 | 8.7 | 9.4                | 7.0            | 7.9 | 7.6              | 8.5 | 9.2  |
| 8H  | 7.3              | 8.2 | 7.9 | 8.8 | 9.5                | 7.1            | 7.9 | 7.7              | 8.5 | 9.2  |
| 12H   | 7.4              | 8.2 | 8.0 | 8.8 | 9.5                | 7.0            | 7.8 | 7.7              | 8.4 | 9.2  |
| 4H 2H   | 6.0              | 6.9 | 6.6 | 7.5 | 8.2                | 5.8            | 6.7 | 6.4              | 7.3 | 8.0  |
| 3H  | 6.8              | 7.6 | 7.5 | 8.2 | 9.0                | 6.7            | 7.5 | 7.3              | 8.1 | 8.8  |
| 4H  | 7.3              | 8.0 | 7.9 | 8.7 | 9.4                | 7.1            | 7.9 | 7.8              | 8.5 | 9.3  |
| 6H  | 7.7              | 8.4 | 8.4 | 9.0 | 9.8                | 7.6            | 8.2 | 8.3              | 8.9 | 9.7  |
| 8H  | 7.9              | 8.5 | 8.6 | 9.2 | 10.0               | 7.7            | 8.2 | 8.4              | 8.9 | 9.8  |
| 12H   | 8.0              | 8.5 | 8.7 | 9.2 | 10.1               | 7.6            | 8.1 | 8.3              | 8.9 | 9.7  |
| 8H 4H   | 7.3              | 7.9 | 8.0 | 8.6 | 9.4                | 7.2            | 7.8 | 7.9              | 8.5 | 9.3  |
| 6H  | 7.9              | 8.4 | 8.7 | 9.1 | 10.0               | 7.8            | 8.2 | 8.5              | 9.0 | 9.8  |
| 8H  | 8.1              | 8.6 | 8.9 | 9.3 | 10.2               | 7.9            | 8.3 | 8.7              | 9.1 | 10.0 |
| 12H   | 8.3              | 8.7 | 9.1 | 9.4 | 10.3               | 7.9            | 8.2 | 8.7              | 9.0 | 9.9  |
| 12H 4H  | 7.3              | 7.8 | 8.0 | 8.5 | 9.4                | 7.2            | 7.7 | 7.9              | 8.4 | 9.3  |
| 6H  | 7.9              | 8.3 | 8.7 | 9.1 | 10.0               | 7.8            | 8.2 | 8.5              | 8.9 | 9.8  |
| 8H  | 8.2              | 8.5 | 9.0 | 9.3 | 10.2               | 7.9            | 8.3 | 8.7              | 9.1 | 10.0 |
| Variations with the observer position at spacings:                    |                  |     |     |     |                    |                |     |                  |     |      |
| S = 1.0H  | + 0.5 / - 0.6    |     |     |     |                    | + 0.5 / - 0.6  |     |                  |     |      |
| 1.5H  | + 0.4 / - 0.4    |     |     |     |                    | + 0.4 / - 0.4  |     |                  |     |      |
| 2.0H  | + 1.6 / - 1.1    |     |     |     |                    | + 1.1 / - 0.9  |     |                  |     |      |

CIE Pub.117, 10448 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.2)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

UTILIZATION FACTORS TABLE

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | 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                         | 57  | 47  | 41        | 56  | 46  | 41  | 54            | 45  | 40  | 33     |
| 0.80                             | 67  | 57  | 50        | 65  | 56  | 50  | 62            | 54  | 48  | 41     |
| 1.00                             | 75  | 65  | 58        | 72  | 63  | 57  | 68            | 62  | 55  | 47     |
| 1.25                             | 81  | 72  | 65        | 79  | 70  | 64  | 74            | 67  | 62  | 52     |
| 1.50                             | 86  | 77  | 71        | 83  | 75  | 69  | 77            | 71  | 66  | 56     |
| 2.00                             | 92  | 84  | 78        | 89  | 82  | 76  | 82            | 77  | 72  | 61     |
| 2.50                             | 95  | 88  | 83        | 92  | 85  | 80  | 85            | 80  | 76  | 63     |
| 3.00                             | 98  | 92  | 87        | 94  | 89  | 84  | 87            | 83  | 79  | 65     |
| 4.00                             | 102   | 97  | 92        | 98  | 93  | 89  | 90            | 86  | 83  | 68     |
| 5.00                             | 104   | 100 | 96        | 100 | 96  | 92  | 91            | 88  | 86  | 70     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

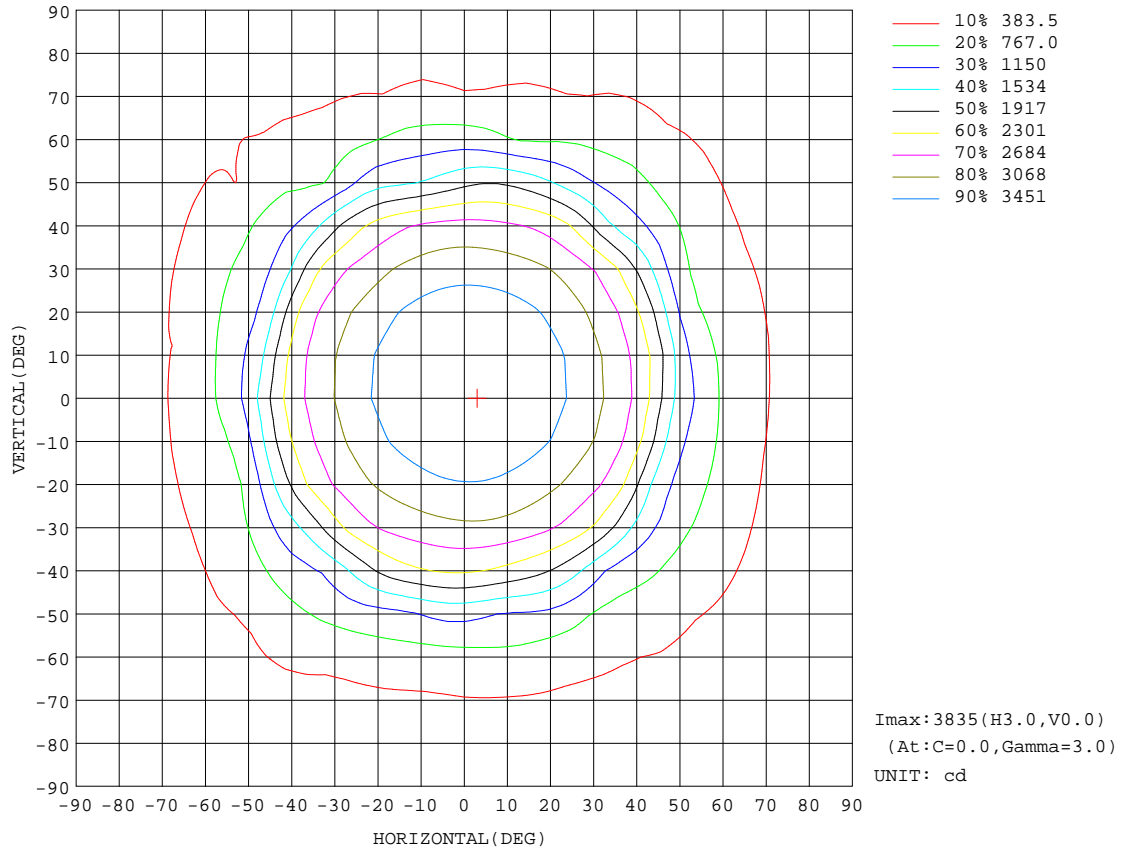
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:



**ISOCANDELA DIAGRAM**

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

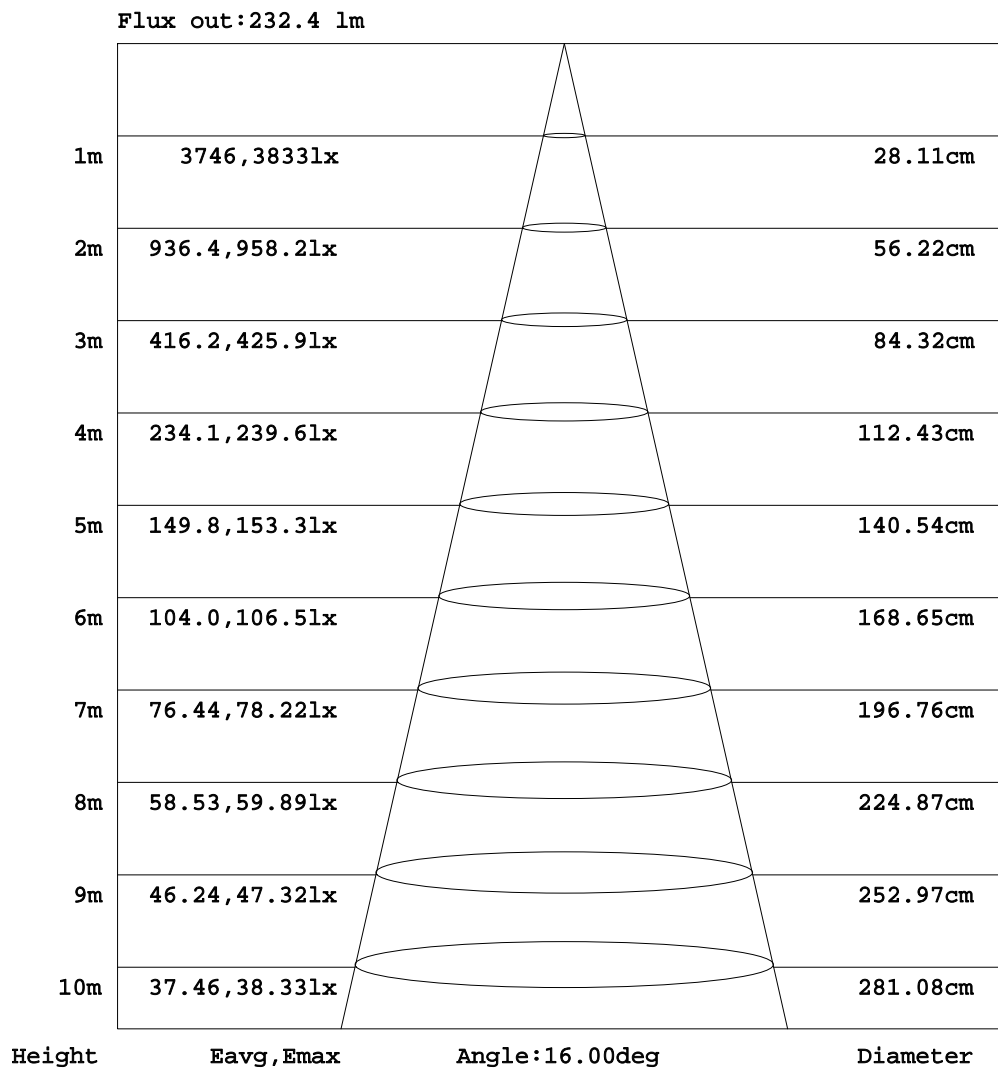


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 5.850m [K=1.7094]  
 Remarks:

**AAI Figure**

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |



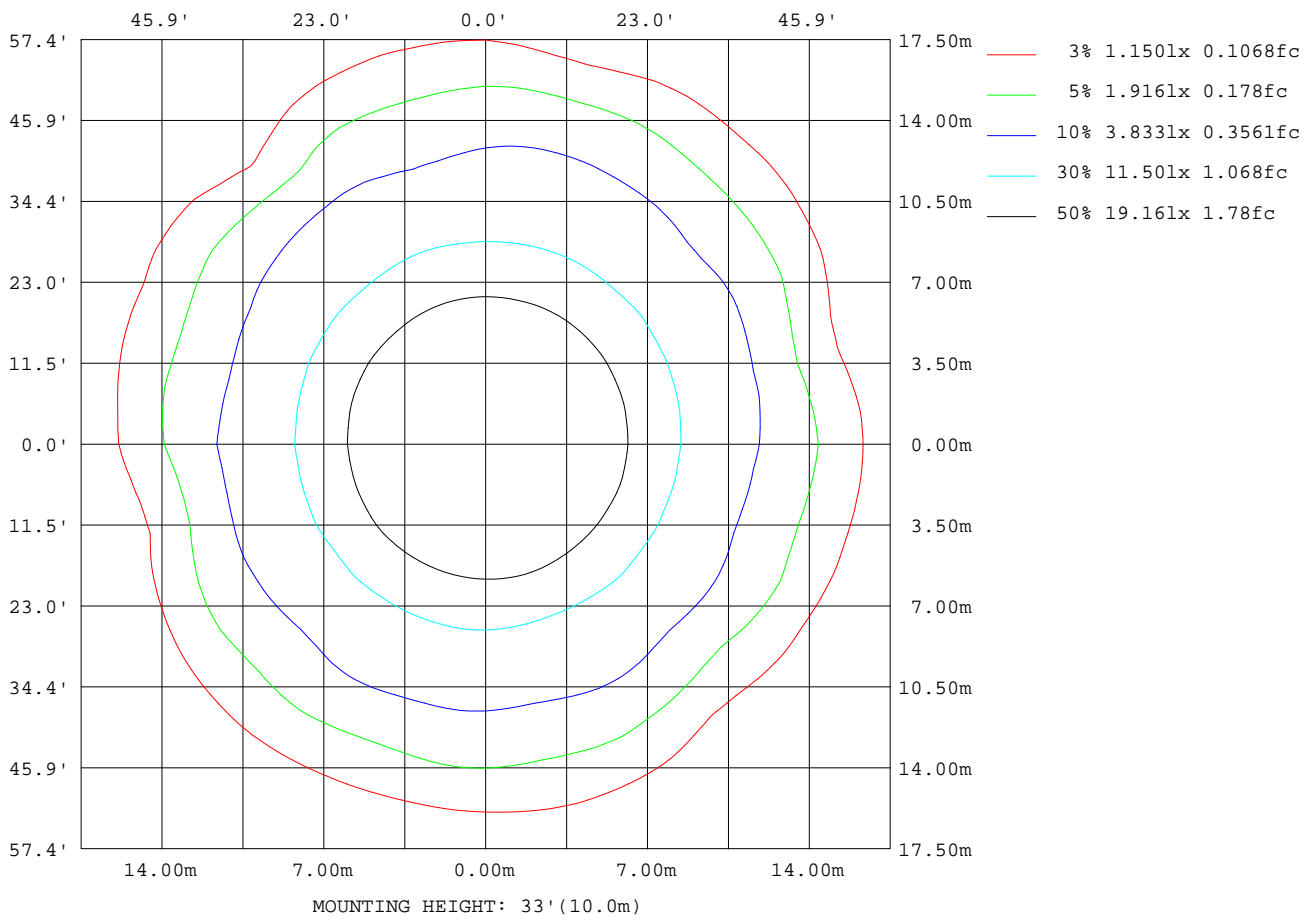
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-03-05

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

**ISOLUX DIAGRAM**

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

LED Avg.L Report

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

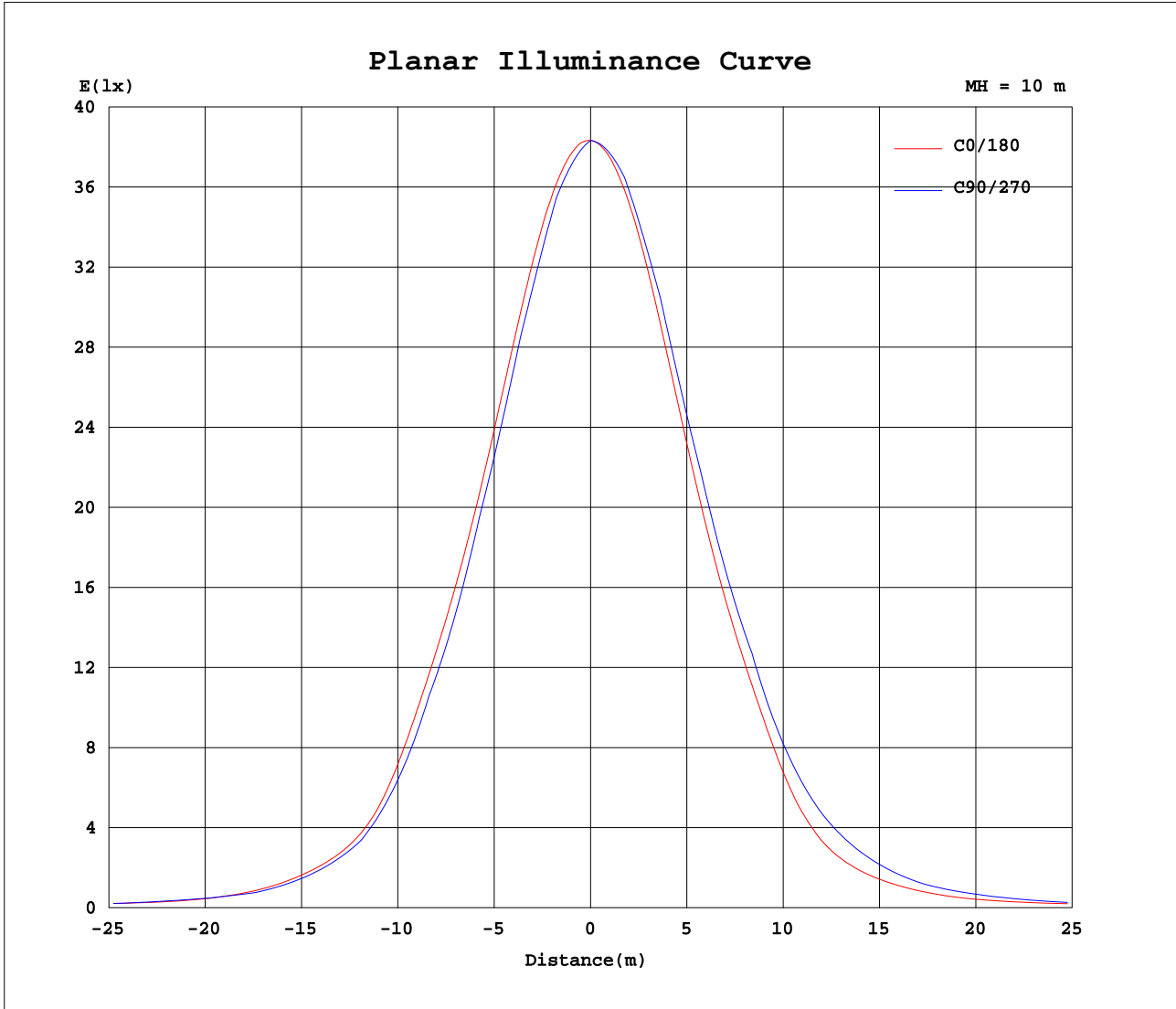
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 1652  |
| L_0~180 (75) av  | 1642  |
| L_0~180 (85) av  | 1607  |
| L_90~270 (65) av | 2173  |
| L_90~270 (75) av | 1759  |
| L_90~270 (85) av | 0     |
| L_45 (65) av     | 2026  |
| L_45 (75) av     | 1791  |
| L_45 (85) av     | 1029  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-03-05

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 2020-03-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 5.850m [K=1.7094]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0    | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 |
| 5                 | 3827 | 3822 | 3817 | 3812 | 3808 | 3804 | 3800 | 3797 | 3793 | 3791 | 3788 | 3786 | 3783 | 3781 | 3779 | 3777 | 3776 | 3774 | 3774 |
| 10                | 3788 | 3778 | 3769 | 3760 | 3753 | 3747 | 3741 | 3737 | 3734 | 3732 | 3729 | 3726 | 3723 | 3722 | 3721 | 3719 | 3718 | 3716 | 3715 |
| 15                | 3709 | 3693 | 3679 | 3668 | 3660 | 3654 | 3651 | 3648 | 3648 | 3637 | 3624 | 3613 | 3605 | 3597 | 3589 | 3585 | 3580 | 3577 | 3574 |
| 20                | 3580 | 3558 | 3541 | 3529 | 3522 | 3519 | 3514 | 3494 | 3478 | 3465 | 3456 | 3450 | 3445 | 3444 | 3441 | 3441 | 3438 | 3436 | 3432 |
| 25                | 3402 | 3376 | 3358 | 3349 | 3346 | 3330 | 3305 | 3288 | 3277 | 3270 | 3268 | 3258 | 3249 | 3242 | 3238 | 3232 | 3227 | 3221 | 3216 |
| 30                | 3181 | 3155 | 3140 | 3136 | 3120 | 3089 | 3067 | 3055 | 3047 | 3029 | 3018 | 3012 | 3011 | 3012 | 3013 | 3013 | 3012 | 3006 | 2999 |
| 35                | 2925 | 2894 | 2882 | 2881 | 2839 | 2815 | 2804 | 2772 | 2750 | 2744 | 2747 | 2754 | 2718 | 2690 | 2673 | 2666 | 2667 | 2671 | 2675 |
| 40                | 2593 | 2539 | 2522 | 2480 | 2440 | 2449 | 2409 | 2384 | 2392 | 2389 | 2332 | 2298 | 2278 | 2266 | 2268 | 2281 | 2303 | 2329 | 2350 |
| 45                | 2028 | 1927 | 1892 | 1822 | 1792 | 1819 | 1833 | 1859 | 1821 | 1778 | 1769 | 1787 | 1808 | 1804 | 1781 | 1759 | 1756 | 1779 | 1808 |
| 50                | 1405 | 1322 | 1268 | 1235 | 1226 | 1271 | 1288 | 1258 | 1196 | 1137 | 1217 | 1287 | 1325 | 1322 | 1277 | 1219 | 1195 | 1223 | 1266 |
| 55                | 1043 | 1006 | 969  | 939  | 937  | 954  | 921  | 869  | 825  | 804  | 814  | 839  | 894  | 931  | 932  | 923  | 919  | 931  | 945  |
| 60                | 704  | 704  | 704  | 694  | 683  | 640  | 621  | 643  | 624  | 581  | 583  | 617  | 638  | 640  | 652  | 677  | 678  | 650  | 624  |
| 65                | 454  | 456  | 500  | 531  | 494  | 447  | 449  | 456  | 471  | 455  | 450  | 461  | 458  | 457  | 481  | 513  | 522  | 510  | 495  |
| 70                | 394  | 383  | 382  | 380  | 375  | 368  | 354  | 359  | 358  | 344  | 339  | 344  | 351  | 361  | 370  | 373  | 372  | 371  | 365  |
| 75                | 286  | 290  | 272  | 254  | 258  | 268  | 260  | 256  | 249  | 252  | 244  | 240  | 250  | 263  | 274  | 274  | 272  | 273  | 267  |
| 80                | 211  | 184  | 177  | 169  | 176  | 177  | 170  | 160  | 152  | 156  | 155  | 155  | 160  | 165  | 179  | 181  | 174  | 177  | 169  |
| 85                | 98.8 | 71.9 | 74.7 | 72.7 | 69.8 | 66.7 | 64.1 | 59.0 | 50.1 | 41.7 | 34.0 | 27.3 | 21.0 | 15.0 | 10.6 | 6.13 | 2.63 | 0.67 | 0.00 |
| 90                | 114  | 117  | 118  | 115  | 108  | 98.9 | 89.5 | 82.2 | 75.7 | 70.2 | 66.5 | 63.8 | 62.0 | 60.6 | 0.00 | 0.00 | 60.6 | 62.0 | 63.8 |
| 95                | 149  | 152  | 153  | 150  | 143  | 135  | 125  | 116  | 107  | 99.4 | 93.7 | 89.2 | 85.6 | 82.5 | 80.2 | 78.9 | 78.7 | 79.4 | 81.1 |
| 100               | 189  | 192  | 193  | 190  | 182  | 172  | 161  | 151  | 141  | 132  | 126  | 122  | 119  | 116  | 114  | 114  | 114  | 116  | 118  |
| 105               | 230  | 235  | 236  | 233  | 225  | 213  | 201  | 191  | 182  | 174  | 168  | 164  | 161  | 157  | 154  | 152  | 153  | 154  | 156  |
| 110               | 271  | 277  | 279  | 277  | 267  | 255  | 242  | 231  | 221  | 213  | 209  | 206  | 205  | 202  | 200  | 199  | 199  | 200  | 201  |
| 115               | 320  | 326  | 327  | 325  | 315  | 303  | 289  | 276  | 263  | 253  | 249  | 247  | 247  | 244  | 242  | 240  | 239  | 239  | 240  |
| 120               | 367  | 372  | 372  | 370  | 362  | 351  | 338  | 323  | 309  | 297  | 292  | 289  | 288  | 285  | 283  | 281  | 281  | 281  | 283  |
| 125               | 414  | 418  | 419  | 416  | 409  | 399  | 387  | 374  | 361  | 349  | 341  | 336  | 332  | 328  | 326  | 325  | 324  | 324  | 326  |
| 130               | 458  | 463  | 464  | 461  | 454  | 445  | 434  | 424  | 413  | 404  | 396  | 389  | 384  | 378  | 374  | 370  | 369  | 368  | 369  |
| 135               | 497  | 502  | 504  | 503  | 497  | 489  | 479  | 467  | 457  | 447  | 443  | 439  | 437  | 430  | 424  | 419  | 417  | 417  | 419  |
| 140               | 534  | 540  | 542  | 541  | 536  | 528  | 519  | 508  | 497  | 487  | 482  | 478  | 475  | 472  | 469  | 466  | 465  | 465  | 466  |
| 145               | 569  | 574  | 576  | 575  | 571  | 564  | 556  | 546  | 536  | 528  | 523  | 520  | 517  | 514  | 512  | 510  | 509  | 509  | 510  |
| 150               | 599  | 604  | 606  | 606  | 602  | 595  | 588  | 580  | 572  | 564  | 560  | 557  | 555  | 552  | 550  | 549  | 548  | 549  | 549  |
| 155               | 625  | 630  | 632  | 631  | 628  | 623  | 616  | 609  | 602  | 596  | 593  | 590  | 588  | 586  | 584  | 583  | 583  | 583  | 583  |
| 160               | 647  | 651  | 652  | 652  | 650  | 645  | 640  | 635  | 629  | 624  | 621  | 619  | 617  | 616  | 614  | 613  | 613  | 613  | 613  |
| 165               | 664  | 667  | 668  | 668  | 666  | 663  | 659  | 655  | 651  | 647  | 645  | 643  | 642  | 641  | 640  | 639  | 638  | 638  | 638  |
| 170               | 676  | 678  | 679  | 679  | 677  | 676  | 673  | 671  | 668  | 665  | 664  | 663  | 662  | 661  | 661  | 660  | 660  | 660  | 660  |
| 175               | 684  | 684  | 685  | 685  | 684  | 683  | 682  | 681  | 680  | 678  | 678  | 677  | 677  | 677  | 676  | 676  | 676  | 676  | 676  |
| 180               | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG)<br>γ (DEG) | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  | 180  | 185  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 |
| 5                  | 3773 | 3773 | 3773 | 3773 | 3773 | 3774 | 3775 | 3776 | 3777 | 3779 | 3782 | 3785 | 3788 | 3792 | 3796 | 3801 | 3805 | 3811 | 3810 |
| 10                 | 3713 | 3712 | 3710 | 3709 | 3707 | 3706 | 3705 | 3705 | 3705 | 3705 | 3706 | 3708 | 3712 | 3718 | 3725 | 3733 | 3743 | 3754 | 3753 |
| 15                 | 3572 | 3571 | 3570 | 3572 | 3574 | 3576 | 3580 | 3587 | 3596 | 3603 | 3601 | 3602 | 3604 | 3609 | 3617 | 3628 | 3642 | 3659 | 3657 |
| 20                 | 3430 | 3426 | 3423 | 3419 | 3415 | 3413 | 3413 | 3416 | 3421 | 3429 | 3439 | 3452 | 3453 | 3453 | 3458 | 3469 | 3486 | 3508 | 3506 |
| 25                 | 3211 | 3207 | 3205 | 3204 | 3206 | 3213 | 3224 | 3234 | 3231 | 3230 | 3233 | 3239 | 3251 | 3258 | 3258 | 3267 | 3285 | 3311 | 3310 |
| 30                 | 2990 | 2980 | 2974 | 2969 | 2969 | 2972 | 2979 | 2986 | 2997 | 3014 | 3010 | 3004 | 3007 | 3017 | 3023 | 3027 | 3045 | 3076 | 3077 |
| 35                 | 2674 | 2670 | 2666 | 2668 | 2678 | 2698 | 2726 | 2717 | 2706 | 2701 | 2715 | 2744 | 2728 | 2727 | 2745 | 2748 | 2766 | 2802 | 2806 |
| 40                 | 2358 | 2351 | 2339 | 2329 | 2319 | 2303 | 2290 | 2295 | 2319 | 2294 | 2279 | 2318 | 2382 | 2361 | 2375 | 2399 | 2417 | 2469 | 2457 |
| 45                 | 1821 | 1817 | 1814 | 1830 | 1850 | 1834 | 1769 | 1726 | 1720 | 1726 | 1726 | 1764 | 1821 | 1838 | 1824 | 1846 | 1854 | 1917 | 1860 |
| 50                 | 1279 | 1258 | 1237 | 1252 | 1299 | 1326 | 1303 | 1240 | 1175 | 1226 | 1269 | 1278 | 1280 | 1229 | 1173 | 1167 | 1204 | 1299 | 1274 |
| 55                 | 943  | 921  | 898  | 891  | 905  | 930  | 952  | 944  | 924  | 930  | 945  | 921  | 872  | 803  | 730  | 747  | 809  | 914  | 951  |
| 60                 | 613  | 613  | 630  | 647  | 652  | 662  | 679  | 703  | 704  | 682  | 656  | 635  | 615  | 607  | 577  | 593  | 620  | 638  | 636  |
| 65                 | 479  | 469  | 475  | 478  | 464  | 445  | 440  | 495  | 522  | 486  | 429  | 444  | 459  | 456  | 455  | 463  | 462  | 438  | 409  |
| 70                 | 349  | 338  | 340  | 346  | 348  | 350  | 354  | 372  | 383  | 373  | 353  | 340  | 332  | 312  | 308  | 331  | 354  | 367  | 375  |
| 75                 | 254  | 244  | 238  | 241  | 249  | 259  | 262  | 261  | 268  | 267  | 257  | 236  | 218  | 206  | 212  | 220  | 240  | 257  | 266  |
| 80                 | 160  | 152  | 141  | 143  | 156  | 165  | 173  | 171  | 169  | 168  | 158  | 150  | 133  | 123  | 118  | 113  | 128  | 181  | 202  |
| 85                 | 0.61 | 2.29 | 4.71 | 8.40 | 14.3 | 21.6 | 30.9 | 38.9 | 46.0 | 55.7 | 57.4 | 57.9 | 56.2 | 51.6 | 50.0 | 52.4 | 53.2 | 80.0 | 88.8 |
| 90                 | 65.4 | 67.3 | 0.00 | 0.00 | 74.6 | 77.2 | 79.8 | 82.1 | 84.2 | 85.2 | 86.5 | 88.3 | 92.2 | 96.8 | 101  | 106  | 109  | 111  | 108  |
| 95                 | 84.0 | 87.6 | 92.0 | 97.2 | 103  | 108  | 112  | 115  | 118  | 121  | 124  | 127  | 129  | 132  | 134  | 138  | 142  | 144  | 142  |
| 100                | 121  | 124  | 127  | 131  | 135  | 139  | 143  | 147  | 151  | 155  | 159  | 162  | 166  | 170  | 174  | 179  | 183  | 186  | 183  |
| 105                | 158  | 160  | 163  | 168  | 172  | 177  | 182  | 187  | 192  | 196  | 199  | 202  | 207  | 212  | 216  | 221  | 226  | 228  | 225  |
| 110                | 203  | 206  | 209  | 213  | 217  | 221  | 226  | 230  | 233  | 236  | 239  | 243  | 248  | 254  | 260  | 266  | 270  | 272  | 269  |
| 115                | 242  | 246  | 249  | 254  | 259  | 263  | 265  | 267  | 270  | 274  | 279  | 285  | 292  | 299  | 305  | 310  | 314  | 315  | 311  |
| 120                | 285  | 288  | 291  | 295  | 298  | 302  | 305  | 308  | 311  | 318  | 325  | 332  | 337  | 343  | 348  | 356  | 363  | 368  | 364  |
| 125                | 328  | 331  | 334  | 337  | 341  | 345  | 349  | 354  | 359  | 366  | 373  | 380  | 386  | 392  | 398  | 406  | 413  | 418  | 413  |
| 130                | 371  | 375  | 379  | 385  | 391  | 397  | 402  | 407  | 411  | 416  | 421  | 426  | 431  | 435  | 440  | 448  | 455  | 460  | 457  |
| 135                | 421  | 425  | 429  | 435  | 442  | 448  | 450  | 451  | 453  | 458  | 464  | 470  | 474  | 478  | 482  | 488  | 494  | 498  | 495  |
| 140                | 468  | 470  | 473  | 477  | 482  | 487  | 490  | 493  | 497  | 501  | 507  | 512  | 515  | 519  | 522  | 527  | 530  | 533  | 530  |
| 145                | 511  | 513  | 515  | 518  | 521  | 525  | 528  | 532  | 536  | 540  | 545  | 550  | 553  | 556  | 559  | 563  | 566  | 568  | 565  |
| 150                | 550  | 551  | 553  | 556  | 559  | 562  | 565  | 568  | 572  | 576  | 580  | 583  | 586  | 589  | 591  | 594  | 597  | 599  | 596  |
| 155                | 584  | 585  | 587  | 589  | 592  | 595  | 598  | 600  | 603  | 606  | 609  | 612  | 614  | 616  | 618  | 621  | 623  | 625  | 623  |
| 160                | 614  | 615  | 616  | 618  | 620  | 623  | 625  | 627  | 629  | 632  | 634  | 636  | 638  | 639  | 641  | 643  | 645  | 647  | 646  |
| 165                | 639  | 640  | 641  | 642  | 644  | 646  | 647  | 649  | 650  | 652  | 654  | 655  | 657  | 658  | 659  | 661  | 663  | 664  | 663  |
| 170                | 660  | 661  | 661  | 662  | 663  | 664  | 665  | 666  | 667  | 668  | 669  | 670  | 671  | 672  | 673  | 674  | 675  | 676  | 676  |
| 175                | 676  | 676  | 677  | 677  | 677  | 678  | 678  | 679  | 679  | 680  | 680  | 681  | 681  | 682  | 682  | 683  | 683  | 684  | 683  |
| 180                | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

Table--3

UNIT: cd

| C (DEG)<br>γ (DEG) | 190  | 195  | 200  | 205  | 210  | 215  | 220  | 225  | 230  | 235  | 240  | 245  | 250  | 255  | 260  | 265  | 270  | 275  | 280  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 |
| 5                  | 3810 | 3810 | 3810 | 3810 | 3811 | 3812 | 3813 | 3815 | 3816 | 3818 | 3819 | 3820 | 3822 | 3823 | 3824 | 3825 | 3826 | 3827 | 3827 |
| 10                 | 3753 | 3754 | 3757 | 3760 | 3765 | 3770 | 3776 | 3782 | 3787 | 3793 | 3798 | 3803 | 3807 | 3811 | 3814 | 3817 | 3820 | 3820 | 3820 |
| 15                 | 3658 | 3661 | 3668 | 3677 | 3689 | 3701 | 3715 | 3717 | 3718 | 3720 | 3724 | 3727 | 3730 | 3734 | 3737 | 3740 | 3743 | 3744 | 3746 |
| 20                 | 3510 | 3519 | 3533 | 3551 | 3568 | 3569 | 3574 | 3582 | 3591 | 3603 | 3615 | 3627 | 3639 | 3647 | 3655 | 3662 | 3665 | 3668 | 3668 |
| 25                 | 3318 | 3333 | 3356 | 3369 | 3374 | 3385 | 3400 | 3419 | 3442 | 3451 | 3456 | 3464 | 3472 | 3479 | 3485 | 3490 | 3493 | 3496 | 3498 |
| 30                 | 3090 | 3116 | 3135 | 3140 | 3155 | 3178 | 3201 | 3203 | 3211 | 3224 | 3243 | 3260 | 3278 | 3295 | 3308 | 3316 | 3321 | 3321 | 3320 |
| 35                 | 2828 | 2863 | 2869 | 2889 | 2920 | 2924 | 2927 | 2941 | 2962 | 2989 | 3000 | 3017 | 3031 | 3047 | 3059 | 3067 | 3071 | 3070 | 3067 |
| 40                 | 2481 | 2497 | 2522 | 2577 | 2581 | 2602 | 2633 | 2646 | 2640 | 2663 | 2696 | 2730 | 2760 | 2784 | 2803 | 2817 | 2822 | 2816 | 2807 |
| 45                 | 1869 | 1863 | 1922 | 1973 | 2018 | 2129 | 2159 | 2174 | 2218 | 2292 | 2323 | 2302 | 2267 | 2242 | 2245 | 2275 | 2320 | 2359 | 2378 |
| 50                 | 1257 | 1233 | 1257 | 1314 | 1363 | 1464 | 1524 | 1586 | 1634 | 1671 | 1719 | 1719 | 1666 | 1630 | 1650 | 1719 | 1819 | 1903 | 1934 |
| 55                 | 971  | 958  | 955  | 979  | 1024 | 1068 | 1053 | 1021 | 996  | 1004 | 1146 | 1239 | 1249 | 1254 | 1280 | 1330 | 1384 | 1410 | 1401 |
| 60                 | 676  | 718  | 735  | 730  | 761  | 762  | 751  | 676  | 669  | 734  | 826  | 883  | 912  | 940  | 942  | 950  | 948  | 909  | 852  |
| 65                 | 437  | 513  | 536  | 507  | 468  | 468  | 536  | 549  | 553  | 574  | 601  | 625  | 652  | 695  | 708  | 697  | 678  | 659  | 630  |
| 70                 | 387  | 400  | 422  | 409  | 375  | 396  | 403  | 412  | 413  | 420  | 445  | 453  | 439  | 465  | 484  | 448  | 408  | 417  | 444  |
| 75                 | 275  | 277  | 275  | 297  | 313  | 305  | 296  | 312  | 288  | 288  | 318  | 330  | 321  | 347  | 363  | 336  | 314  | 322  | 340  |
| 80                 | 217  | 211  | 222  | 228  | 225  | 196  | 199  | 209  | 202  | 202  | 217  | 226  | 228  | 248  | 249  | 226  | 221  | 229  | 239  |
| 85                 | 102  | 108  | 104  | 116  | 110  | 91.2 | 78.0 | 61.4 | 48.4 | 37.6 | 29.2 | 21.2 | 13.8 | 8.46 | 3.77 | 0.86 | 0.00 | 0.87 | 3.63 |
| 90                 | 105  | 103  | 107  | 113  | 120  | 128  | 135  | 142  | 146  | 150  | 154  | 157  | 160  | 163  | 165  | 167  | 168  | 168  | 167  |
| 95                 | 140  | 138  | 143  | 149  | 157  | 166  | 175  | 183  | 188  | 192  | 195  | 199  | 202  | 205  | 206  | 207  | 208  | 208  | 208  |
| 100                | 179  | 177  | 181  | 188  | 196  | 206  | 216  | 225  | 231  | 236  | 239  | 243  | 245  | 247  | 248  | 249  | 249  | 249  | 249  |
| 105                | 221  | 219  | 223  | 229  | 237  | 248  | 259  | 269  | 276  | 281  | 285  | 288  | 291  | 293  | 294  | 294  | 294  | 294  | 293  |
| 110                | 266  | 263  | 266  | 272  | 280  | 292  | 305  | 318  | 325  | 330  | 334  | 338  | 340  | 342  | 343  | 342  | 341  | 341  | 341  |
| 115                | 306  | 303  | 308  | 315  | 325  | 339  | 353  | 367  | 374  | 379  | 383  | 387  | 389  | 391  | 391  | 390  | 389  | 389  | 388  |
| 120                | 358  | 354  | 358  | 364  | 374  | 386  | 399  | 411  | 420  | 426  | 431  | 433  | 434  | 434  | 435  | 435  | 435  | 435  | 435  |
| 125                | 407  | 402  | 405  | 411  | 420  | 432  | 444  | 455  | 462  | 467  | 471  | 474  | 477  | 478  | 479  | 479  | 479  | 479  | 479  |
| 130                | 452  | 449  | 452  | 458  | 465  | 476  | 488  | 498  | 503  | 506  | 509  | 512  | 515  | 518  | 519  | 519  | 519  | 519  | 518  |
| 135                | 491  | 489  | 493  | 499  | 507  | 518  | 528  | 537  | 541  | 544  | 547  | 550  | 553  | 555  | 556  | 556  | 556  | 556  | 555  |
| 140                | 526  | 524  | 529  | 537  | 546  | 555  | 564  | 572  | 576  | 579  | 581  | 583  | 586  | 588  | 589  | 589  | 589  | 588  | 588  |
| 145                | 562  | 560  | 565  | 572  | 580  | 588  | 596  | 603  | 606  | 608  | 610  | 613  | 615  | 616  | 617  | 617  | 617  | 617  | 616  |
| 150                | 594  | 593  | 597  | 603  | 610  | 616  | 623  | 629  | 632  | 634  | 635  | 637  | 639  | 640  | 641  | 641  | 641  | 641  | 640  |
| 155                | 621  | 620  | 624  | 629  | 634  | 640  | 645  | 650  | 653  | 654  | 656  | 657  | 659  | 660  | 660  | 661  | 660  | 660  | 659  |
| 160                | 644  | 643  | 646  | 650  | 654  | 659  | 663  | 667  | 669  | 670  | 671  | 673  | 674  | 675  | 675  | 675  | 675  | 675  | 674  |
| 165                | 662  | 662  | 663  | 666  | 669  | 673  | 676  | 679  | 680  | 681  | 682  | 683  | 684  | 685  | 685  | 685  | 685  | 685  | 684  |
| 170                | 675  | 675  | 676  | 677  | 680  | 682  | 684  | 686  | 687  | 688  | 688  | 689  | 690  | 690  | 690  | 690  | 690  | 690  | 690  |
| 175                | 683  | 683  | 683  | 684  | 685  | 686  | 687  | 688  | 689  | 689  | 690  | 690  | 690  | 690  | 690  | 690  | 690  | 690  | 690  |
| 180                | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                  |
|---|--------------------|------------------|
| Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10447.6x1 lm |                    |                  |
| NAME: GAME 900-U-90W-830  | TYPE:Ceiling light | WEIGHT:          |
| SPEC.:3000K   | DIM.: φ900mm*H45mm | SERIAL No.:      |
| MFR.: NEKO LIGHTING AG  | SUR.:φ900mm        | Shielding Angle: |

Table--4

UNIT: cd

| C (DEG) \ γ (DEG) | 285  | 290  | 295  | 300  | 305  | 310  | 315  | 320  | 325  | 330  | 335  | 340  | 345  | 350  | 355  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 0                 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 | 3833 |  |  |  |  |
| 5                 | 3827 | 3828 | 3828 | 3828 | 3828 | 3828 | 3828 | 3827 | 3827 | 3826 | 3826 | 3826 | 3826 | 3826 | 3826 |  |  |  |  |
| 10                | 3820 | 3819 | 3817 | 3815 | 3811 | 3808 | 3804 | 3801 | 3798 | 3795 | 3792 | 3790 | 3788 | 3788 | 3788 |  |  |  |  |
| 15                | 3747 | 3747 | 3747 | 3748 | 3750 | 3752 | 3755 | 3755 | 3746 | 3737 | 3728 | 3720 | 3714 | 3710 | 3708 |  |  |  |  |
| 20                | 3664 | 3661 | 3657 | 3650 | 3645 | 3640 | 3636 | 3634 | 3634 | 3636 | 3622 | 3606 | 3593 | 3584 | 3579 |  |  |  |  |
| 25                | 3498 | 3501 | 3500 | 3504 | 3506 | 3506 | 3490 | 3477 | 3466 | 3459 | 3458 | 3447 | 3424 | 3409 | 3401 |  |  |  |  |
| 30                | 3316 | 3313 | 3309 | 3304 | 3300 | 3296 | 3292 | 3290 | 3270 | 3250 | 3237 | 3233 | 3216 | 3193 | 3181 |  |  |  |  |
| 35                | 3066 | 3068 | 3073 | 3081 | 3090 | 3074 | 3057 | 3038 | 3025 | 3013 | 2986 | 2970 | 2970 | 2941 | 2924 |  |  |  |  |
| 40                | 2797 | 2794 | 2791 | 2786 | 2773 | 2761 | 2778 | 2761 | 2721 | 2698 | 2694 | 2659 | 2649 | 2636 | 2602 |  |  |  |  |
| 45                | 2382 | 2389 | 2406 | 2423 | 2390 | 2306 | 2256 | 2276 | 2330 | 2260 | 2238 | 2218 | 2178 | 2180 | 2080 |  |  |  |  |
| 50                | 1923 | 1898 | 1872 | 1849 | 1813 | 1735 | 1625 | 1639 | 1693 | 1695 | 1628 | 1551 | 1486 | 1487 | 1440 |  |  |  |  |
| 55                | 1381 | 1373 | 1354 | 1307 | 1263 | 1240 | 1206 | 1187 | 1184 | 1156 | 1045 | 956  | 902  | 959  | 1010 |  |  |  |  |
| 60                | 824  | 865  | 919  | 933  | 920  | 905  | 906  | 884  | 840  | 803  | 735  | 664  | 662  | 690  | 713  |  |  |  |  |
| 65                | 609  | 615  | 637  | 646  | 639  | 652  | 660  | 620  | 563  | 557  | 567  | 539  | 524  | 524  | 503  |  |  |  |  |
| 70                | 467  | 462  | 457  | 469  | 490  | 494  | 472  | 429  | 430  | 426  | 411  | 389  | 382  | 398  | 405  |  |  |  |  |
| 75                | 353  | 343  | 328  | 334  | 362  | 366  | 352  | 335  | 327  | 319  | 297  | 289  | 293  | 289  | 284  |  |  |  |  |
| 80                | 243  | 238  | 228  | 231  | 249  | 260  | 252  | 241  | 218  | 213  | 205  | 194  | 192  | 189  | 202  |  |  |  |  |
| 85                | 8.25 | 14.4 | 21.5 | 31.2 | 45.9 | 64.6 | 80.1 | 97.4 | 106  | 114  | 107  | 101  | 99.8 | 98.4 | 100  |  |  |  |  |
| 90                | 165  | 163  | 161  | 158  | 156  | 153  | 150  | 147  | 144  | 141  | 136  | 132  | 127  | 123  | 119  |  |  |  |  |
| 95                | 207  | 205  | 202  | 199  | 196  | 193  | 189  | 186  | 182  | 178  | 174  | 170  | 166  | 161  | 155  |  |  |  |  |
| 100               | 249  | 248  | 246  | 243  | 240  | 236  | 232  | 227  | 222  | 217  | 214  | 211  | 207  | 202  | 196  |  |  |  |  |
| 105               | 293  | 292  | 290  | 287  | 285  | 281  | 276  | 270  | 263  | 257  | 253  | 250  | 247  | 242  | 236  |  |  |  |  |
| 110               | 340  | 338  | 336  | 333  | 330  | 326  | 322  | 315  | 308  | 301  | 296  | 291  | 287  | 282  | 277  |  |  |  |  |
| 115               | 388  | 386  | 383  | 380  | 377  | 374  | 369  | 362  | 354  | 347  | 343  | 339  | 336  | 331  | 326  |  |  |  |  |
| 120               | 434  | 432  | 430  | 427  | 423  | 419  | 414  | 407  | 400  | 394  | 390  | 387  | 383  | 378  | 373  |  |  |  |  |
| 125               | 478  | 476  | 473  | 470  | 466  | 462  | 457  | 451  | 445  | 440  | 436  | 433  | 430  | 425  | 420  |  |  |  |  |
| 130               | 517  | 514  | 511  | 508  | 505  | 502  | 499  | 494  | 488  | 483  | 478  | 474  | 469  | 465  | 462  |  |  |  |  |
| 135               | 554  | 551  | 549  | 546  | 543  | 540  | 537  | 533  | 528  | 523  | 519  | 514  | 510  | 506  | 501  |  |  |  |  |
| 140               | 586  | 584  | 582  | 579  | 577  | 574  | 571  | 568  | 564  | 559  | 555  | 551  | 547  | 543  | 539  |  |  |  |  |
| 145               | 615  | 613  | 611  | 608  | 606  | 604  | 602  | 598  | 595  | 591  | 588  | 584  | 581  | 577  | 573  |  |  |  |  |
| 150               | 639  | 637  | 635  | 633  | 631  | 629  | 627  | 625  | 622  | 619  | 616  | 613  | 610  | 606  | 603  |  |  |  |  |
| 155               | 659  | 657  | 655  | 654  | 652  | 650  | 648  | 646  | 644  | 641  | 639  | 637  | 634  | 632  | 629  |  |  |  |  |
| 160               | 673  | 672  | 671  | 669  | 668  | 667  | 665  | 663  | 661  | 660  | 658  | 656  | 654  | 652  | 650  |  |  |  |  |
| 165               | 684  | 683  | 682  | 680  | 679  | 678  | 677  | 676  | 674  | 673  | 672  | 671  | 669  | 668  | 666  |  |  |  |  |
| 170               | 689  | 688  | 688  | 687  | 686  | 686  | 685  | 684  | 683  | 682  | 681  | 680  | 680  | 679  | 678  |  |  |  |  |
| 175               | 690  | 690  | 689  | 689  | 688  | 688  | 688  | 687  | 687  | 686  | 686  | 686  | 685  | 685  | 684  |  |  |  |  |
| 180               | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  | 686  |  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-03-05

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:5.850m [K=1.7094]  
 Remarks: