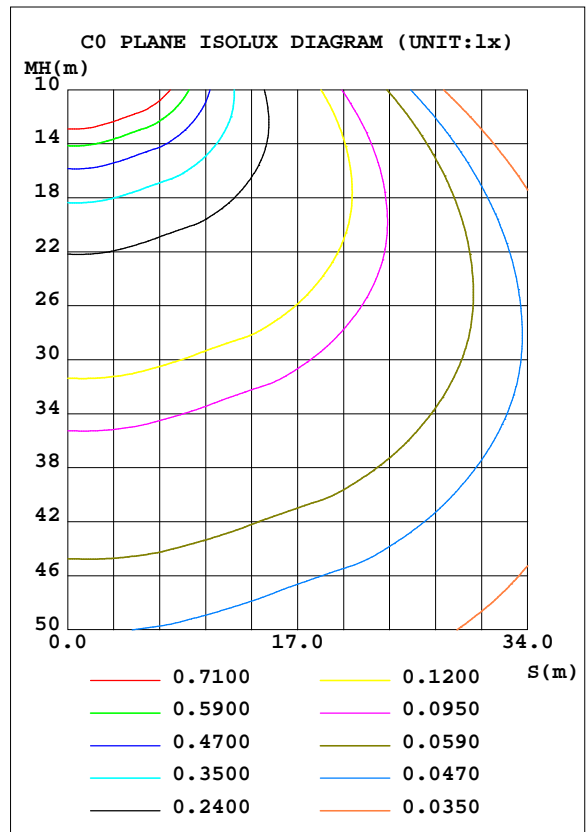
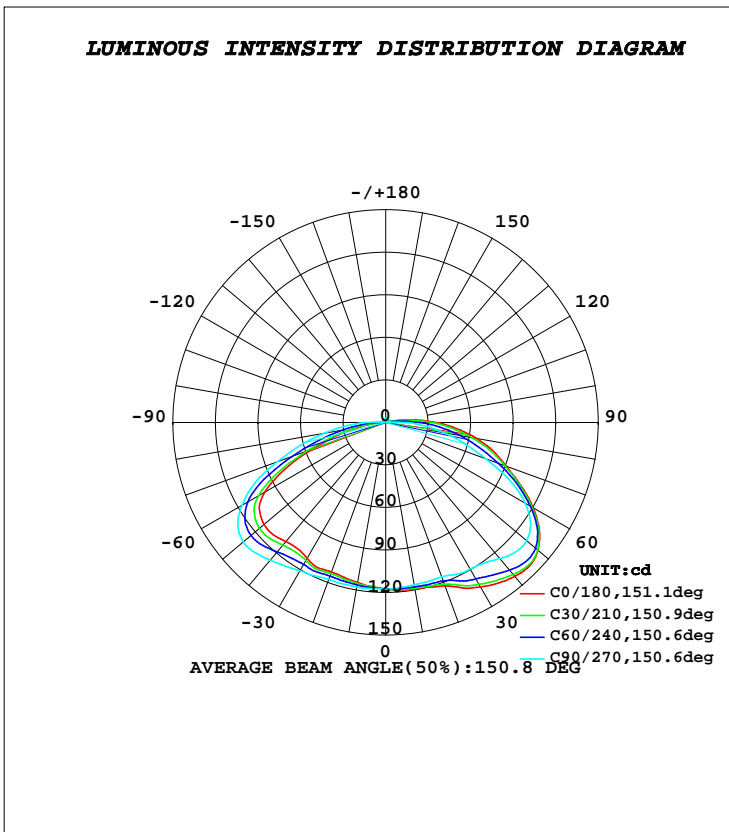


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 73.43 lm/W | | | |
|------------------|---------|----------------------------------|--------|--------------------|-----------|
| MODEL | | I _{max} (cd) | 145.9 | S/MH(C0/180) | 1.42 |
| NOMINAL POWER(W) | 8.12 | LOR(%) | 100.0 | S/MH(C90/270) | 1.63 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 596.24 | η UP, DN(C0-180) | 1.9, 48.1 |
| NOMINAL FLUX(lm) | 596.235 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.8, 48.3 |
| LAMPS INSIDE | 1 | η up(%) | 3.6 | CIBSE SHR NOM | 1.75 |
| TEST VOLTAGE(V) | 230 | η down(%) | 96.4 | CIBSE SHR MAX | 1.75 |



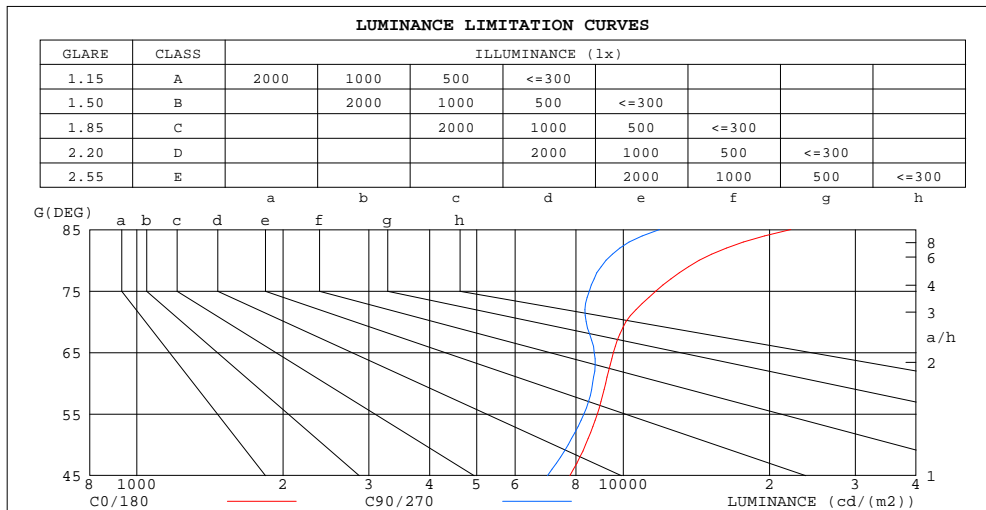
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JB
Test Date: 21 December 2017

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 119.2 | 118.3 | 116.3 | 114.7 | 114.6 | 115.9 | 117.8 | 119.4 | 0- 10 | 11.19 | 11.19 | 1.88,1.88 |
| 20 | 122.7 | 120.3 | 115.9 | 112.7 | 112.2 | 114.3 | 117.8 | 121.5 | 10- 20 | 33.13 | 44.33 | 7.43,7.43 |
| 30 | 134.0 | 130.3 | 119.4 | 112.0 | 110.7 | 114.0 | 120.9 | 130.8 | 20- 30 | 55.45 | 99.78 | 16.7,16.7 |
| 40 | 141.8 | 138.9 | 125.3 | 113.6 | 109.7 | 116.0 | 126.7 | 139.7 | 30- 40 | 77.69 | 177.5 | 29.8,29.8 |
| 50 | 140.2 | 139.8 | 129.7 | 118.2 | 112.1 | 120.4 | 131.1 | 141.7 | 40- 50 | 99.89 | 277.4 | 46.5,46.5 |
| 60 | 120.0 | 118.9 | 113.4 | 104.7 | 98.60 | 108.7 | 117.1 | 122.4 | 50- 60 | 110.2 | 387.6 | 65,65 |
| 70 | 90.30 | 87.66 | 75.15 | 59.74 | 55.07 | 64.62 | 81.60 | 91.70 | 60- 70 | 94.38 | 482.0 | 80.8,80.8 |
| 80 | 64.89 | 57.79 | 41.93 | 24.88 | 18.54 | 25.05 | 44.02 | 61.16 | 70- 80 | 61.73 | 543.7 | 91.2,91.2 |
| 90 | 35.56 | 28.73 | 14.12 | 2.546 | 2.404 | 2.594 | 13.53 | 29.93 | 80- 90 | 30.80 | 574.5 | 96.4,96.4 |
| 100 | 9.942 | 5.714 | 1.802 | 1.907 | 2.134 | 2.116 | 2.195 | 5.782 | 90-100 | 9.954 | 584.5 | 98,98 |
| 110 | 1.853 | 1.859 | 1.965 | 2.088 | 2.024 | 1.976 | 2.023 | 2.108 | 100-110 | 2.532 | 587.0 | 98.4,98.4 |
| 120 | 1.989 | 2.014 | 2.128 | 2.251 | 2.116 | 2.022 | 1.947 | 1.971 | 110-120 | 2.016 | 589.0 | 98.8,98.8 |
| 130 | 2.105 | 2.137 | 2.259 | 2.390 | 2.269 | 2.180 | 2.038 | 1.936 | 120-130 | 1.895 | 590.9 | 99.1,99.1 |
| 140 | 2.208 | 2.248 | 2.376 | 2.489 | 2.377 | 2.299 | 2.158 | 2.033 | 130-140 | 1.716 | 592.6 | 99.4,99.4 |
| 150 | 2.370 | 2.404 | 2.496 | 2.565 | 2.473 | 2.413 | 2.308 | 2.207 | 140-150 | 1.463 | 594.1 | 99.6,99.6 |
| 160 | 2.568 | 2.585 | 2.628 | 2.664 | 2.608 | 2.563 | 2.493 | 2.428 | 150-160 | 1.146 | 595.2 | 99.8,99.8 |
| 170 | 2.721 | 2.722 | 2.735 | 2.747 | 2.747 | 2.713 | 2.673 | 2.625 | 160-170 | 0.7453 | 596.0 | 100,100 |
| 180 | 2.833 | 2.824 | 2.811 | 2.788 | 2.836 | 2.825 | 2.811 | 2.788 | 170-180 | 0.2621 | 596.2 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | UNIT:lm | | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 22110 | 11879 |
| 80 | 14337 | 9219 |
| 75 | 11675 | 8517 |
| 70 | 10131 | 8389 |
| 65 | 9550 | 8723 |
| 60 | 9210 | 8658 |
| 55 | 8845 | 8306 |
| 50 | 8371 | 7707 |
| 45 | 7773 | 6986 |

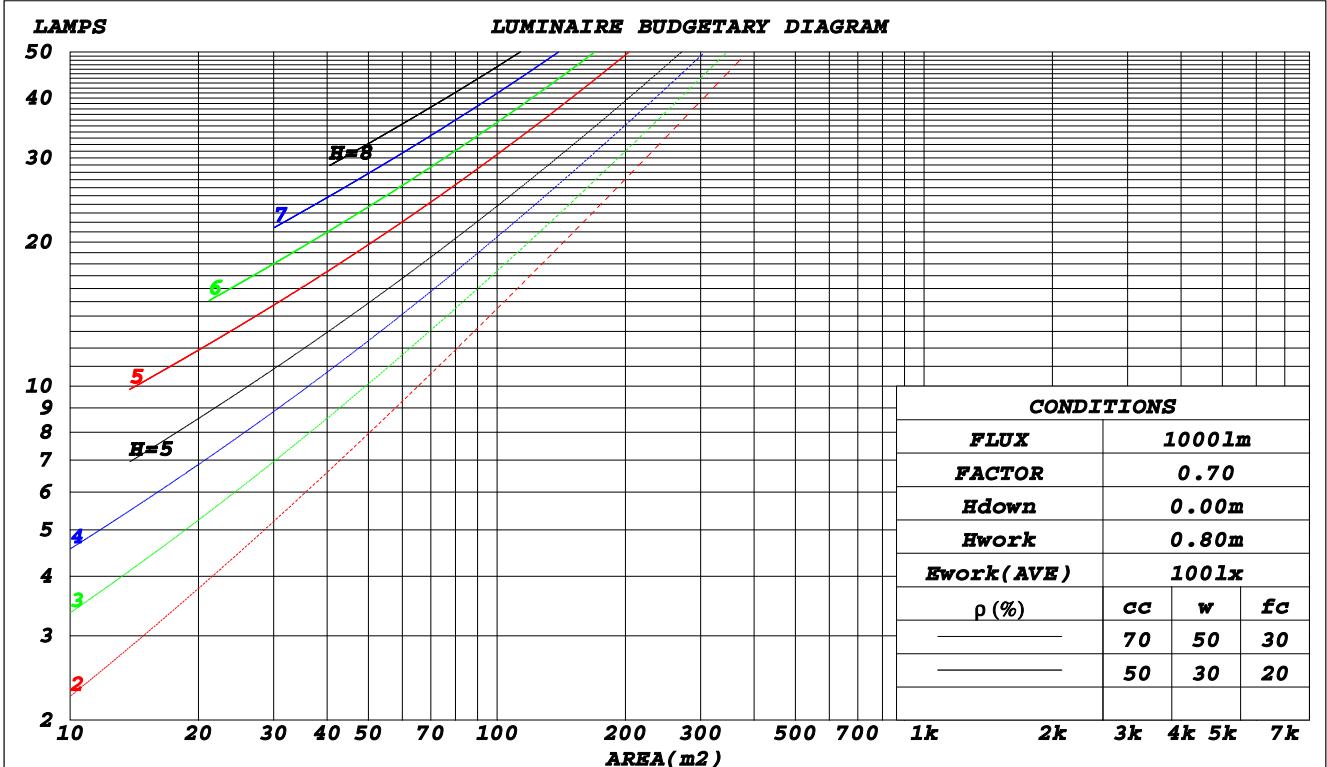
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JB
Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

| 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 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .96 | | | | | | | | | | | | | | |
| 1.0 | .99 | .94 | .89 | .97 | .92 | .88 | .92 | .88 | .84 | .87 | .84 | .81 | .83 | .80 | .78 | .75 | | | | | | | | | | | | | | |
| 2.0 | .84 | .76 | .70 | .82 | .75 | .68 | .78 | .72 | .66 | .74 | .69 | .64 | .70 | .66 | .62 | .60 | | | | | | | | | | | | | | |
| 3.0 | .73 | .63 | .56 | .71 | .62 | .55 | .67 | .60 | .53 | .64 | .57 | .52 | .60 | .55 | .51 | .48 | | | | | | | | | | | | | | |
| 4.0 | .63 | .53 | .46 | .61 | .52 | .45 | .58 | .50 | .44 | .55 | .49 | .43 | .53 | .47 | .42 | .39 | | | | | | | | | | | | | | |
| 5.0 | .56 | .45 | .38 | .54 | .45 | .38 | .51 | .43 | .37 | .49 | .42 | .36 | .47 | .40 | .35 | .33 | | | | | | | | | | | | | | |
| 6.0 | .49 | .39 | .32 | .48 | .39 | .32 | .46 | .38 | .31 | .44 | .36 | .31 | .42 | .35 | .30 | .28 | | | | | | | | | | | | | | |
| 7.0 | .44 | .35 | .28 | .43 | .34 | .28 | .41 | .33 | .27 | .39 | .32 | .27 | .38 | .31 | .26 | .24 | | | | | | | | | | | | | | |
| 8.0 | .40 | .31 | .24 | .39 | .30 | .24 | .37 | .29 | .24 | .36 | .29 | .23 | .34 | .28 | .23 | .21 | | | | | | | | | | | | | | |
| 9.0 | .36 | .28 | .22 | .36 | .27 | .21 | .34 | .26 | .21 | .33 | .26 | .21 | .31 | .25 | .20 | .18 | | | | | | | | | | | | | | |
| 10.0 | .33 | .25 | .19 | .33 | .25 | .19 | .31 | .24 | .19 | .30 | .23 | .19 | .29 | .23 | .18 | .16 | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JB
 Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 4.850m [K=1.0000]
 Remarks: Midgard Modular Schirm 3307-1

WEC AND CCEC

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

| 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 | .379 | .215 | .068 | .370 | .211 | .067 | .355 | .204 | .065 | .340 | .196 | .063 | .327 | .190 | .061 | |
| 2.0 | .341 | .187 | .057 | .334 | .184 | .057 | .320 | .178 | .055 | .307 | .172 | .054 | .295 | .167 | .053 | |
| 3.0 | .308 | .164 | .049 | .301 | .161 | .049 | .289 | .157 | .048 | .277 | .152 | .047 | .266 | .147 | .046 | |
| 4.0 | .279 | .145 | .043 | .273 | .143 | .042 | .262 | .139 | .042 | .252 | .135 | .041 | .242 | .131 | .040 | |
| 5.0 | .255 | .130 | .038 | .250 | .128 | .037 | .239 | .125 | .037 | .230 | .121 | .036 | .221 | .118 | .036 | |
| 6.0 | .234 | .117 | .034 | .229 | .116 | .033 | .220 | .113 | .033 | .211 | .110 | .032 | .204 | .107 | .032 | |
| 7.0 | .216 | .107 | .030 | .211 | .105 | .030 | .203 | .103 | .030 | .196 | .100 | .029 | .188 | .098 | .029 | |
| 8.0 | .200 | .098 | .027 | .196 | .096 | .027 | .189 | .094 | .027 | .182 | .092 | .027 | .175 | .090 | .026 | |
| 9.0 | .186 | .090 | .025 | .183 | .089 | .025 | .176 | .087 | .025 | .170 | .085 | .024 | .164 | .083 | .024 | |
| 10.0 | .174 | .083 | .023 | .171 | .082 | .023 | .165 | .081 | .023 | .159 | .079 | .022 | .154 | .077 | .022 | |

| 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 | .218 | .218 | .218 | .187 | .187 | .187 | .127 | .127 | .127 | .073 | .073 | .073 | .023 | .023 | .023 | |
| 1.0 | .213 | .184 | .157 | .182 | .158 | .135 | .125 | .108 | .093 | .072 | .063 | .054 | .023 | .020 | .018 | |
| 2.0 | .207 | .160 | .120 | .177 | .138 | .104 | .122 | .095 | .072 | .070 | .055 | .042 | .022 | .018 | .014 | |
| 3.0 | .200 | .143 | .097 | .172 | .123 | .084 | .118 | .086 | .059 | .068 | .050 | .035 | .022 | .016 | .011 | |
| 4.0 | .193 | .130 | .082 | .165 | .112 | .071 | .114 | .078 | .050 | .066 | .046 | .030 | .021 | .015 | .010 | |
| 5.0 | .185 | .120 | .072 | .159 | .104 | .063 | .110 | .073 | .044 | .063 | .043 | .026 | .020 | .014 | .009 | |
| 6.0 | .178 | .112 | .065 | .153 | .097 | .057 | .105 | .068 | .040 | .061 | .040 | .024 | .020 | .013 | .008 | |
| 7.0 | .170 | .105 | .060 | .147 | .091 | .052 | .101 | .064 | .037 | .059 | .038 | .022 | .019 | .012 | .007 | |
| 8.0 | .164 | .100 | .056 | .141 | .086 | .049 | .097 | .061 | .034 | .057 | .036 | .021 | .018 | .012 | .007 | |
| 9.0 | .157 | .095 | .053 | .135 | .082 | .046 | .094 | .058 | .033 | .055 | .034 | .019 | .018 | .011 | .006 | |
| 10.0 | .151 | .090 | .050 | .130 | .079 | .044 | .090 | .055 | .031 | .053 | .033 | .019 | .017 | .011 | .006 | |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JB
 Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 4.850m [K=1.0000]
 Remarks: Midgard Modular Schirm 3307-1

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | | | | |
|---|-------------------------|-------------|-------------|-------------|--------------------------|-----------------------|-------------|-------------|-------------|------------------|--|--|--|--|
| NAME: Midgard Modular Schirm 3307-1 | | | | | TYPE: | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | DIM.: a=91 mm; b=91,5 mm | | | | | SERIAL No.: | | | | |
| MFR.: Midgard | | | | | 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 | 21.0 | 22.6 | 21.3 | 22.9 | 23.2 | 20.8 | 22.4 | 21.1 | 22.7 | 23.0 | | | | |
| 3H | 23.2 | 24.7 | 23.5 | 25.0 | 25.3 | 22.7 | 24.2 | 23.1 | 24.5 | 24.9 | | | | |
| 4H | 24.3 | 25.8 | 24.7 | 26.1 | 26.5 | 23.5 | 25.0 | 23.9 | 25.3 | 25.7 | | | | |
| 6H | 25.5 | 26.9 | 25.9 | 27.2 | 27.6 | 24.3 | 25.7 | 24.7 | 26.0 | 26.4 | | | | |
| 8H | 26.1 | 27.5 | 26.5 | 27.8 | 28.2 | 24.6 | 26.0 | 25.0 | 26.3 | 26.7 | | | | |
| 12H | 26.8 | 28.1 | 27.2 | 28.4 | 28.8 | 25.0 | 26.2 | 25.4 | 26.6 | 27.0 | | | | |
| 4H 2H | 21.8 | 23.2 | 22.2 | 23.6 | 23.9 | 21.6 | 23.1 | 22.0 | 23.4 | 23.7 | | | | |
| 3H | 24.2 | 25.4 | 24.6 | 25.8 | 26.2 | 23.7 | 25.0 | 24.2 | 25.4 | 25.8 | | | | |
| 4H | 25.5 | 26.6 | 25.9 | 27.0 | 27.5 | 24.7 | 25.9 | 25.2 | 26.3 | 26.7 | | | | |
| 6H | 26.8 | 27.9 | 27.3 | 28.3 | 28.8 | 25.7 | 26.7 | 26.1 | 27.2 | 27.6 | | | | |
| 8H | 27.5 | 28.5 | 28.0 | 29.0 | 29.4 | 26.1 | 27.1 | 26.6 | 27.5 | 28.0 | | | | |
| 12H | 28.3 | 29.2 | 28.8 | 29.7 | 30.2 | 26.5 | 27.4 | 27.0 | 27.9 | 28.4 | | | | |
| 8H 4H | 25.9 | 26.9 | 26.4 | 27.3 | 27.8 | 25.3 | 26.3 | 25.8 | 26.7 | 27.2 | | | | |
| 6H | 27.5 | 28.4 | 28.0 | 28.8 | 29.4 | 26.5 | 27.4 | 27.0 | 27.8 | 28.3 | | | | |
| 8H | 28.4 | 29.2 | 29.0 | 29.7 | 30.2 | 27.1 | 27.9 | 27.7 | 28.4 | 28.9 | | | | |
| 12H | 29.4 | 30.1 | 30.0 | 30.6 | 31.1 | 27.7 | 28.4 | 28.3 | 28.9 | 29.5 | | | | |
| 12H 4H | 26.0 | 26.9 | 26.5 | 27.3 | 27.8 | 25.4 | 26.3 | 25.9 | 26.8 | 27.3 | | | | |
| 6H | 27.7 | 28.4 | 28.2 | 28.9 | 29.5 | 26.8 | 27.5 | 27.3 | 28.0 | 28.5 | | | | |
| 8H | 28.7 | 29.3 | 29.2 | 29.8 | 30.4 | 27.5 | 28.1 | 28.0 | 28.6 | 29.2 | | | | |
| Variations with the observer position at spacings: | | | | | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | | | | | |
| 2.0H | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.5 | | | | | | | | |

CIE Pub.117 Corrected 596.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.8)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JB
 Test Date:21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:4.850m [K=1.0000]
 Remarks: Midgard Modular Schirm 3307-1

UTILIZATION FACTORS TABLE

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | 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 | 49 | 36 | 28 | 48 | 36 | 28 | 46 | 35 | 28 | 21 |
| 0.80 | 59 | 45 | 37 | 58 | 45 | 37 | 55 | 44 | 36 | 28 |
| 1.00 | 67 | 54 | 46 | 66 | 54 | 46 | 63 | 55 | 45 | 37 |
| 1.25 | 75 | 62 | 54 | 73 | 62 | 54 | 70 | 60 | 53 | 44 |
| 1.50 | 80 | 69 | 60 | 78 | 67 | 59 | 75 | 65 | 58 | 49 |
| 2.00 | 88 | 78 | 70 | 86 | 76 | 69 | 82 | 74 | 67 | 58 |
| 2.50 | 93 | 83 | 76 | 90 | 82 | 75 | 86 | 79 | 73 | 63 |
| 3.00 | 97 | 88 | 81 | 94 | 86 | 80 | 89 | 83 | 78 | 67 |
| 4.00 | 102 | 94 | 88 | 99 | 92 | 87 | 94 | 88 | 84 | 73 |
| 5.00 | 105 | 98 | 93 | 102 | 96 | 91 | 96 | 92 | 88 | 77 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JB
Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

ISOCANDELA DIAGRAM

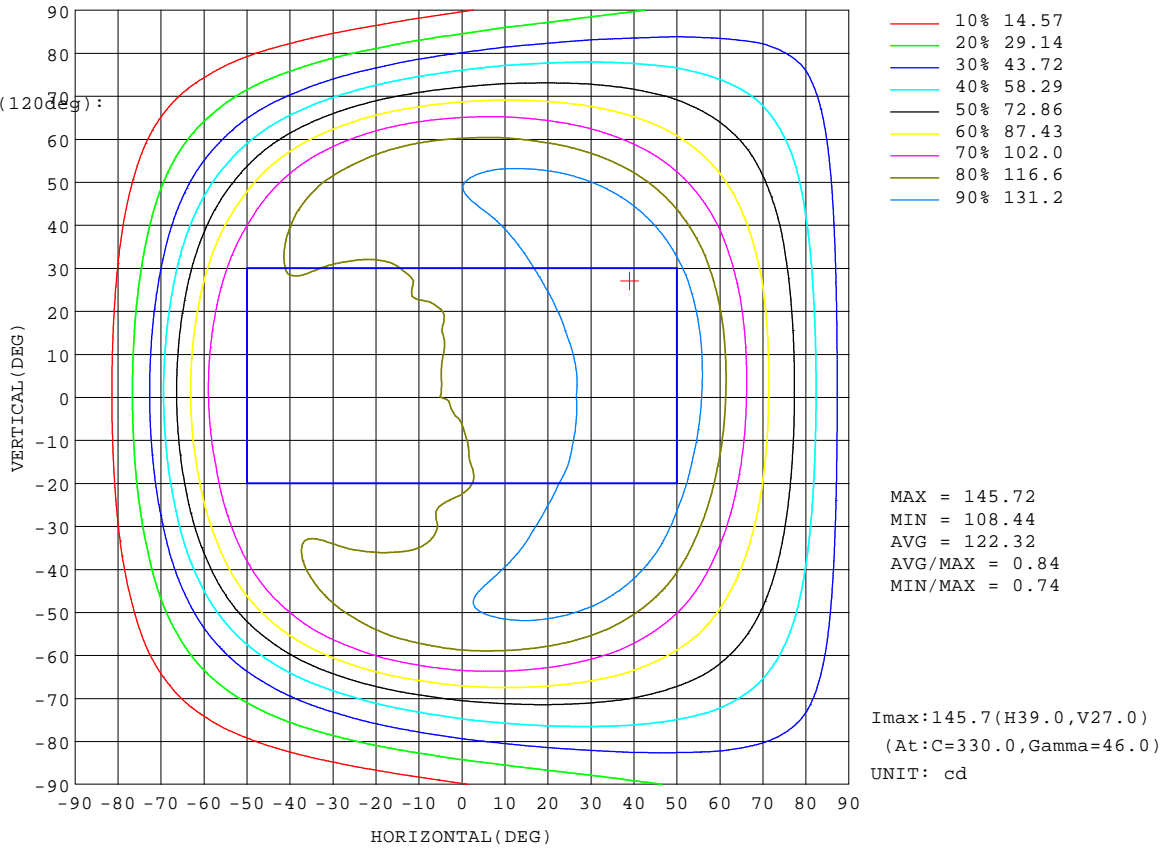
| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

Conical surface Flux(90deg):

224.93 lm
 %lum = 37.7%
 %lamp = 37.7%

Conical surface Flux(120deg):

387.6 lm
 %lum = 65.0%
 %lamp = 65.0%



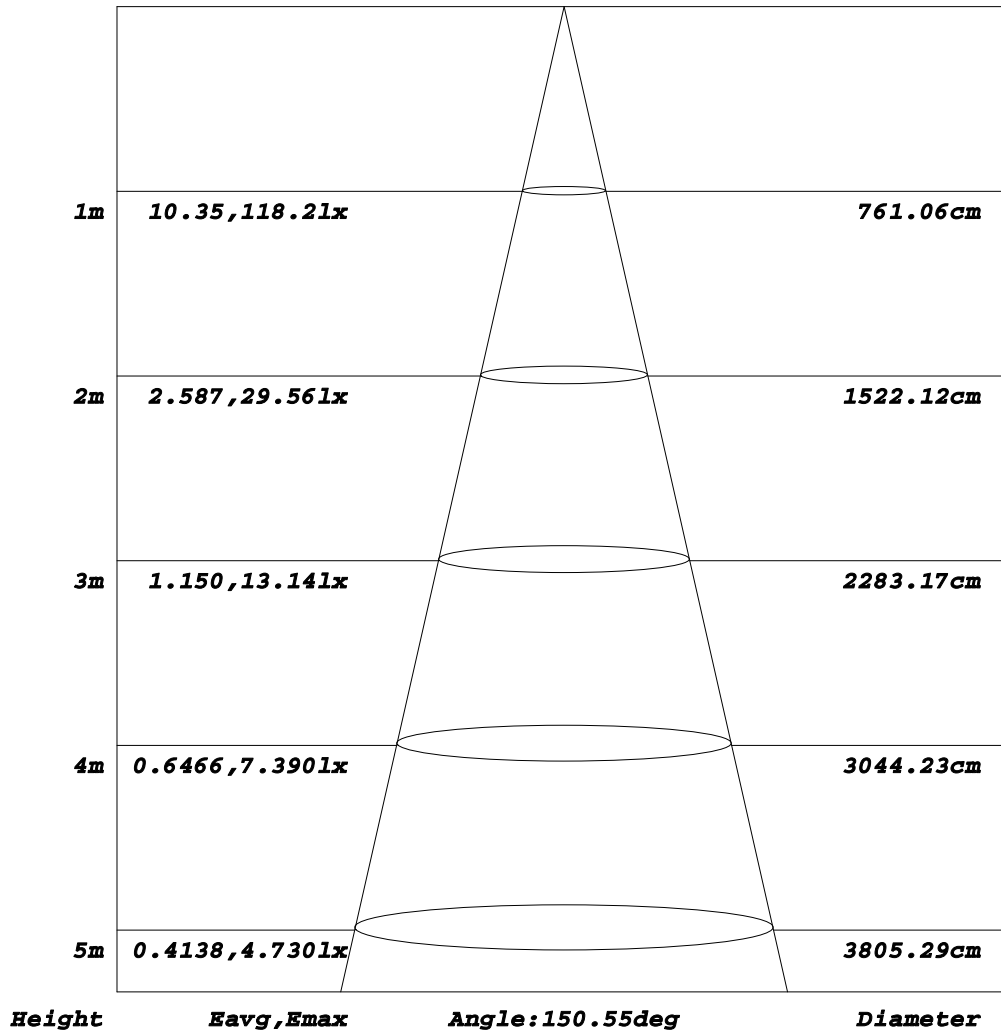
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JB
Test Date: 21 December 2017

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

AAI Figure

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

Flux out:522.9 lm



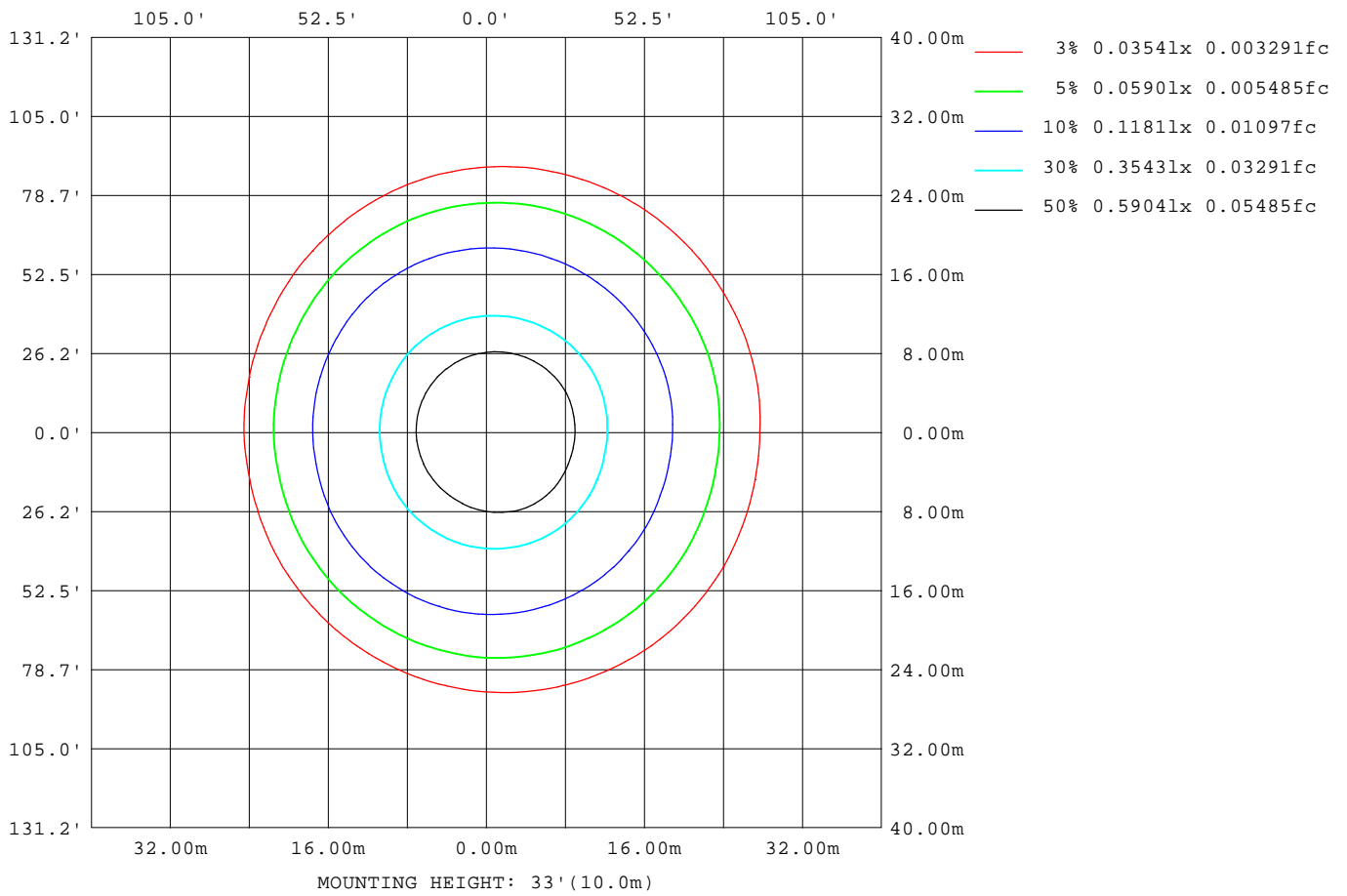
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JB
 Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 4.850m [K=1.0000]
 Remarks: Midgard Modular Schirm 3307-1

ISOLUX DIAGRAM

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JB
Test Date: 21 December 2017

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

LED Avg.L Report

| | | |
|-------------------------------------|--------------------------|------------------|
| NAME: Midgard Modular Schirm 3307-1 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: a=91 mm; b=91,5 mm | SERIAL No.: |
| MFR.: Midgard | SUR.: | Shielding Angle: |

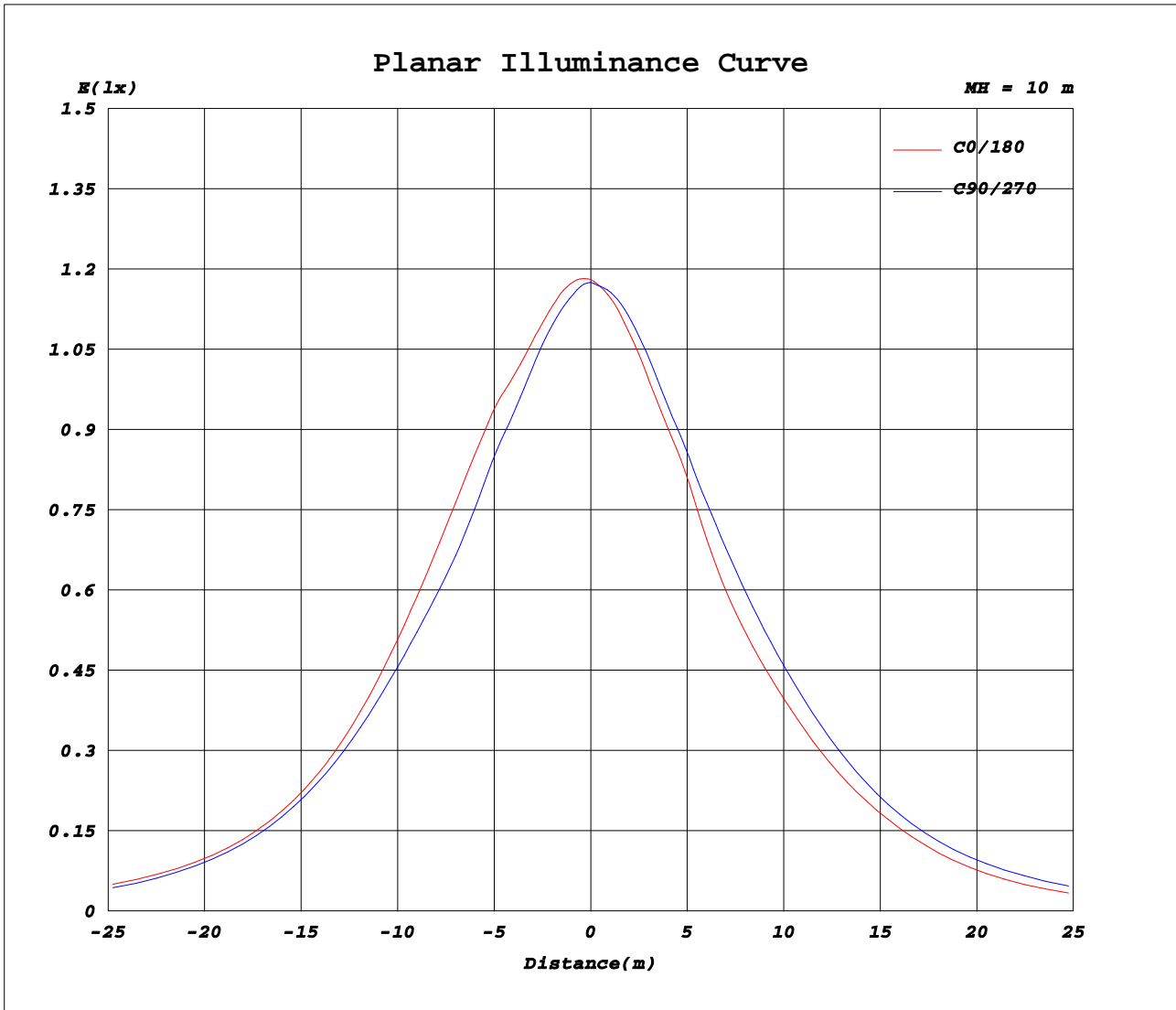
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 8332 |
| L_0~180(75)av | 8382 |
| L_0~180(85)av | 12359 |
| L_90~270(65)av | 8988 |
| L_90~270(75)av | 8844 |
| L_90~270(85)av | 11978 |
| L_45(65)av | 8687 |
| L_45(75)av | 8600 |
| L_45(85)av | 12134 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JB
Test Date:21 December 2017

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:4.850m [K=1.0000]
Remarks: Midgard Modular Schirm 3307-1

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JB
 Test Date: 21 December 2017

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 4.850m [K=1.0000]
 Remarks: Midgard Modular Schirm 3307-1