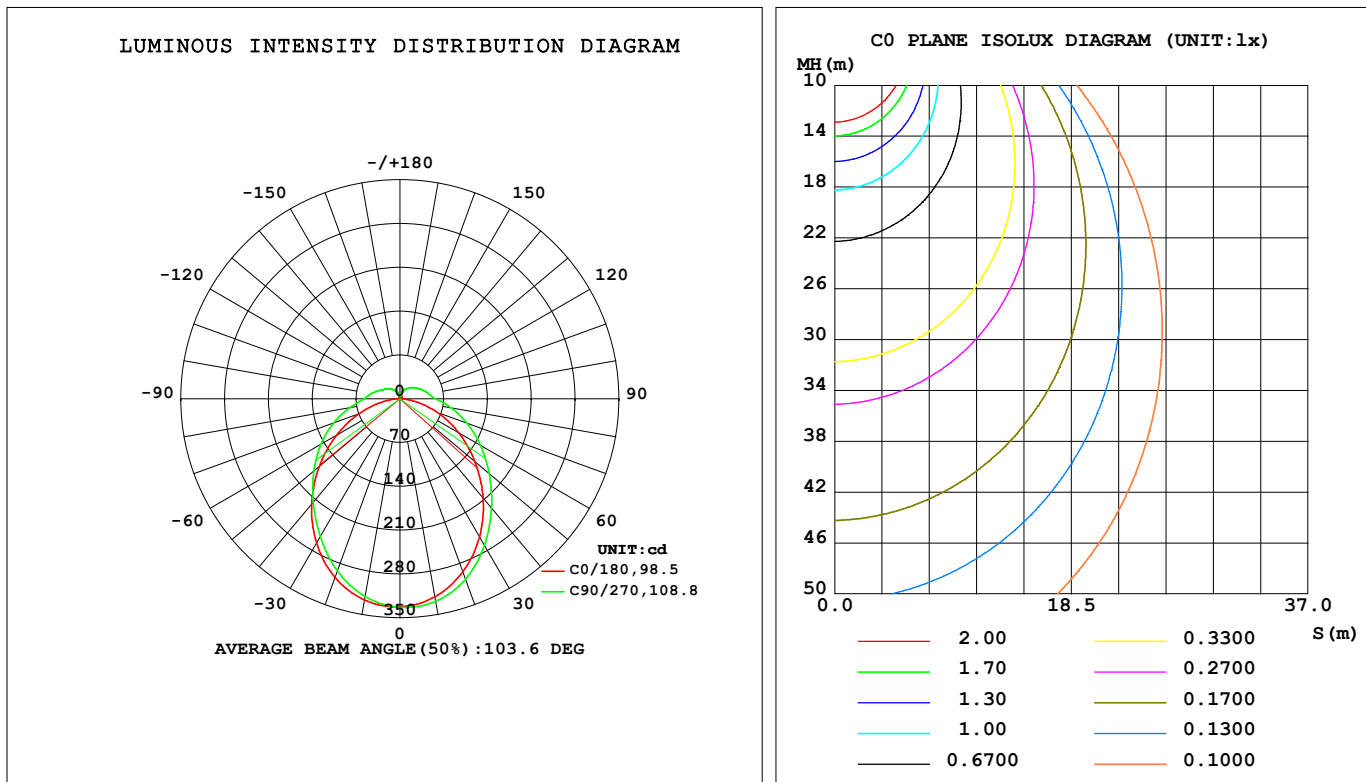


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000K | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 60.61 lm/W |
|-------------------|----------------|-----------------------|---------|--------------------|----------|-----------------|
| MODEL | DPAL-007 4000K | I _{max} (cd) | 334.4 | S/MH (C0/180) | 1.20 | |
| NOMINAL POWER (W) | | LOR (%) | 100.0 | S/MH (C90/270) | 1.15 | |
| RATED VOLTAGE (V) | 220.0 | TOTAL FLUX (lm) | 1045.9 | η UP,DN (C0-180) | 5.8,44.9 | |
| NOMINAL FLUX (lm) | 1045.87 | CIE CLASS | SEMI-D. | η UP,DN (C180-360) | 5.7,43.6 | |
| LAMPS INSIDE | 1 | η up (%) | 11.5 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE (V) | 230 | η down (%) | 88.5 | CIBSE SHR MAX | 1.35 | |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|--------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 321.3 | 325.6 | 328.7 | 329.0 | 326.5 | 322.9 | 320.8 | 321.5 | 0- 10 | 31.40 | 31.40 | 3,3 |
| 20 | 294.3 | 302.5 | 306.7 | 307.6 | 303.7 | 297.2 | 292.7 | 293.4 | 10- 20 | 88.49 | 119.9 | 11.5,11.5 |
| 30 | 254.5 | 265.7 | 270.3 | 271.8 | 266.6 | 259.9 | 254.4 | 254.3 | 20- 30 | 129.9 | 249.8 | 23.9,23.9 |
| 40 | 206.8 | 221.3 | 227.8 | 227.7 | 219.5 | 216.3 | 215.6 | 209.9 | 30- 40 | 150.6 | 400.4 | 38.3,38.3 |
| 50 | 156.6 | 175.6 | 186.3 | 182.0 | 168.5 | 174.4 | 179.9 | 167.6 | 40- 50 | 151.4 | 551.8 | 52.8,52.8 |
| 60 | 108.0 | 132.8 | 148.5 | 138.7 | 117.3 | 133.8 | 145.9 | 127.4 | 50- 60 | 136.7 | 688.4 | 65.8,65.8 |
| 70 | 63.41 | 94.37 | 114.0 | 99.37 | 68.98 | 95.58 | 112.5 | 89.91 | 60- 70 | 111.0 | 799.4 | 76.4,76.4 |
| 80 | 23.62 | 59.66 | 82.94 | 64.12 | 26.07 | 61.00 | 80.83 | 56.49 | 70- 80 | 78.85 | 878.2 | 84,84 |
| 90 | 0.8524 | 34.52 | 57.05 | 37.80 | 0.7280 | 38.42 | 57.71 | 35.60 | 80- 90 | 47.77 | 926.0 | 88.5,88.5 |
| 100 | 0.9429 | 29.21 | 47.00 | 29.38 | 0.9344 | 30.69 | 47.39 | 30.73 | 90-100 | 32.96 | 959.0 | 91.7,91.7 |
| 110 | 1.442 | 25.47 | 40.10 | 25.38 | 1.404 | 24.76 | 37.77 | 26.12 | 100-110 | 26.75 | 985.7 | 94.2,94.2 |
| 120 | 1.974 | 21.96 | 33.59 | 19.45 | 1.912 | 19.13 | 30.00 | 21.88 | 110-120 | 21.00 | 1007 | 96.3,96.3 |
| 130 | 2.541 | 18.93 | 27.91 | 15.05 | 2.455 | 13.74 | 24.96 | 18.01 | 120-130 | 15.70 | 1022 | 97.8,97.8 |
| 140 | 3.103 | 16.18 | 22.76 | 11.87 | 3.006 | 10.13 | 20.36 | 14.58 | 130-140 | 10.92 | 1033 | 98.8,98.8 |
| 150 | 3.639 | 12.89 | 18.05 | 8.758 | 3.551 | 7.443 | 15.44 | 10.61 | 140-150 | 6.880 | 1040 | 99.5,99.5 |
| 160 | 4.121 | 4.982 | 12.95 | 5.885 | 4.060 | 5.000 | 10.02 | 4.638 | 150-160 | 3.761 | 1044 | 99.8,99.8 |
| 170 | 4.498 | 4.510 | 4.457 | 4.341 | 4.479 | 4.473 | 4.536 | 4.570 | 160-170 | 1.466 | 1045 | 100,100 |
| 180 | 4.701 | 4.695 | 4.714 | 4.657 | 4.701 | 4.711 | 4.726 | 4.670 | 170-180 | 0.4358 | 1046 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 477.05 lm

%lum = 45.6%

%lamp = 45.6%

Conical surface Flux(120deg): 688.44 lm

%lum = 65.8%

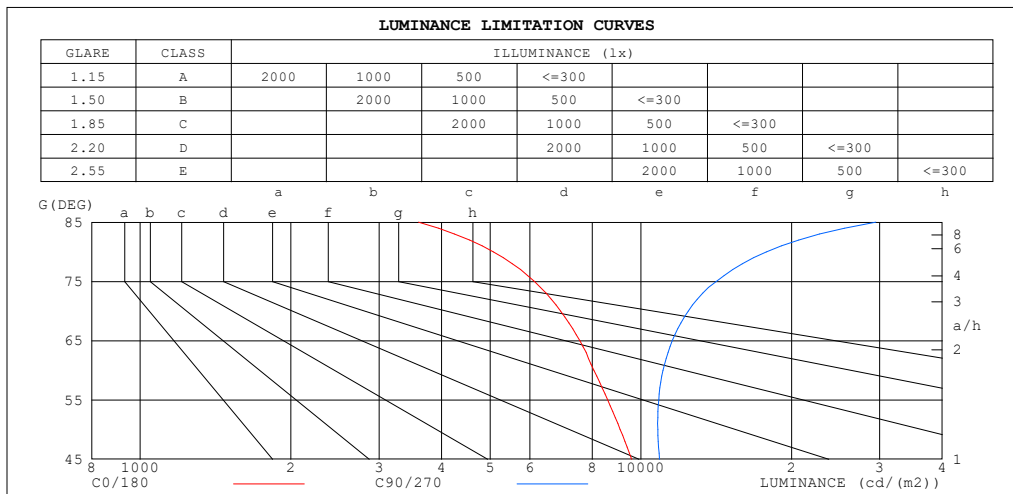
%lamp = 65.8%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4 | 000TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 3596 | 29452 |
| 80 | 5076 | 17822 |
| 75 | 6127 | 14154 |
| 70 | 6918 | 12436 |
| 65 | 7552 | 11560 |
| 60 | 8061 | 11081 |
| 55 | 8586 | 10858 |
| 50 | 9093 | 10812 |
| 45 | 9592 | 10903 |

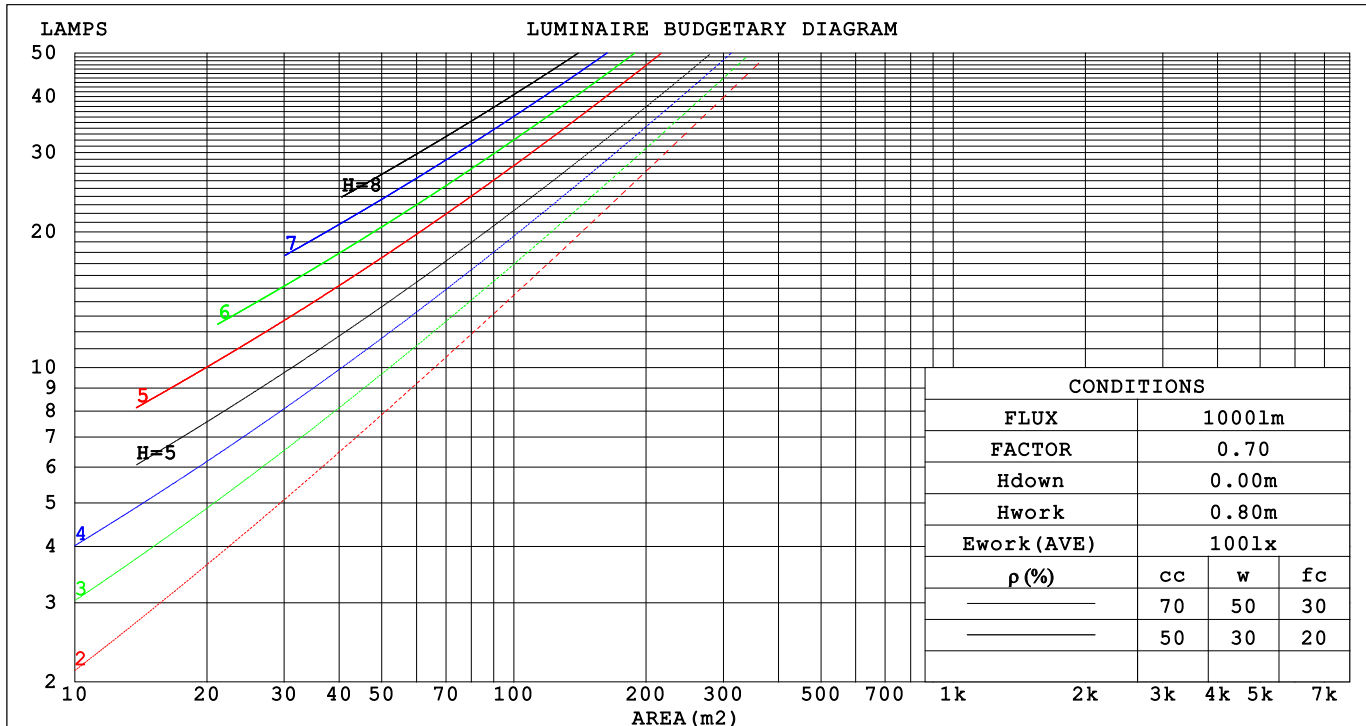
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.16 | 1.16 | 1.16 | 1.12 | 1.12 | 1.12 | 1.05 | 1.05 | 1.05 | .98 | .98 | .98 | .92 | .92 | .92 | .89 |
| 1.0 | .00 | .95 | .91 | .96 | .92 | .88 | .90 | .86 | .83 | .84 | .81 | .79 | .79 | .76 | .74 | .71 |
| 2.0 | .86 | .79 | .73 | .84 | .77 | .72 | .78 | .73 | .68 | .73 | .69 | .65 | .68 | .65 | .62 | .59 |
| 3.0 | .76 | .67 | .61 | .73 | .66 | .59 | .69 | .62 | .57 | .64 | .59 | .54 | .60 | .56 | .52 | .49 |
| 4.0 | .67 | .58 | .51 | .65 | .57 | .50 | .61 | .54 | .48 | .57 | .51 | .47 | .54 | .49 | .45 | .42 |
| 5.0 | .60 | .51 | .44 | .58 | .50 | .43 | .55 | .47 | .42 | .52 | .45 | .40 | .49 | .43 | .39 | .37 |
| 6.0 | .54 | .45 | .39 | .52 | .44 | .38 | .49 | .42 | .37 | .47 | .40 | .36 | .44 | .39 | .34 | .32 |
| 7.0 | .49 | .40 | .34 | .48 | .39 | .34 | .45 | .38 | .33 | .43 | .36 | .32 | .40 | .35 | .31 | .28 |
| 8.0 | .45 | .36 | .30 | .43 | .35 | .30 | .41 | .34 | .29 | .39 | .33 | .28 | .37 | .32 | .27 | .25 |
| 9.0 | .41 | .33 | .27 | .40 | .32 | .27 | .38 | .31 | .26 | .36 | .30 | .25 | .34 | .29 | .25 | .23 |
| 10.0 | .38 | .30 | .25 | .37 | .29 | .24 | .35 | .28 | .24 | .33 | .27 | .23 | .32 | .26 | .23 | .21 |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .338 | .192 | .061 | .327 | .187 | .059 | .308 | .176 | .056 | .289 | .167 | .054 | .272 | .158 | .051 | |
| 2.0 | .304 | .166 | .051 | .294 | .162 | .050 | .276 | .154 | .048 | .260 | .146 | .046 | .245 | .138 | .044 | |
| 3.0 | .275 | .146 | .044 | .267 | .143 | .043 | .251 | .136 | .041 | .236 | .129 | .040 | .222 | .123 | .038 | |
| 4.0 | .251 | .130 | .038 | .243 | .127 | .038 | .229 | .121 | .036 | .216 | .116 | .035 | .203 | .110 | .034 | |
| 5.0 | .230 | .117 | .034 | .223 | .115 | .033 | .210 | .110 | .032 | .198 | .105 | .031 | .187 | .100 | .030 | |
| 6.0 | .213 | .107 | .031 | .206 | .104 | .030 | .195 | .100 | .029 | .183 | .095 | .028 | .173 | .091 | .027 | |
| 7.0 | .197 | .098 | .028 | .192 | .095 | .027 | .181 | .091 | .026 | .171 | .088 | .025 | .161 | .084 | .025 | |
| 8.0 | .184 | .090 | .025 | .179 | .088 | .025 | .169 | .084 | .024 | .160 | .081 | .023 | .151 | .077 | .023 | |
| 9.0 | .172 | .083 | .023 | .167 | .081 | .023 | .158 | .078 | .022 | .150 | .075 | .021 | .142 | .072 | .021 | |
| 10.0 | .161 | .077 | .021 | .157 | .076 | .021 | .149 | .073 | .021 | .141 | .070 | .020 | .134 | .067 | .019 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .278 | .278 | .278 | .237 | .237 | .237 | .162 | .162 | .162 | .093 | .093 | .093 | .030 | .030 | .030 | |
| 1.0 | .270 | .244 | .220 | .231 | .209 | .189 | .158 | .144 | .131 | .091 | .083 | .076 | .029 | .027 | .025 | |
| 2.0 | .262 | .220 | .185 | .225 | .190 | .160 | .154 | .131 | .112 | .089 | .076 | .065 | .028 | .025 | .021 | |
| 3.0 | .255 | .203 | .163 | .218 | .176 | .141 | .150 | .122 | .099 | .087 | .071 | .058 | .028 | .023 | .019 | |
| 4.0 | .247 | .191 | .148 | .212 | .165 | .128 | .146 | .115 | .090 | .084 | .067 | .053 | .027 | .022 | .018 | |
| 5.0 | .239 | .180 | .137 | .205 | .156 | .119 | .142 | .109 | .084 | .082 | .064 | .050 | .026 | .021 | .016 | |
| 6.0 | .232 | .172 | .129 | .199 | .149 | .113 | .138 | .104 | .080 | .080 | .061 | .047 | .026 | .020 | .016 | |
| 7.0 | .225 | .165 | .124 | .194 | .143 | .108 | .134 | .101 | .076 | .078 | .059 | .045 | .025 | .019 | .015 | |
| 8.0 | .219 | .160 | .119 | .188 | .139 | .104 | .130 | .097 | .074 | .076 | .057 | .044 | .025 | .019 | .015 | |
| 9.0 | .213 | .155 | .116 | .183 | .135 | .101 | .127 | .095 | .072 | .074 | .056 | .043 | .024 | .018 | .014 | |
| 10.0 | .207 | .151 | .113 | .178 | .131 | .099 | .124 | .092 | .070 | .072 | .054 | .042 | .023 | .018 | .014 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|------------------|------|------------------|------|------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | | | | | | | | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | | | | | | TYPE:LED | | WEIGHT: | | |
| SPEC.: | | | | | | DIM.: | | SERIAL No.: | | |
| MFR.: DARKON | | | | | | 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 | | | | |
| x = 2H y = 2H | | | | | | Viewed endwise | | | | |
| 3H | | | | | | 20.3 | 21.7 | 20.8 | 22.1 | 22.5 |
| 4H | | | | | | 22.4 | 23.7 | 22.9 | 24.1 | 24.6 |
| 6H | | | | | | 23.5 | 24.7 | 24.0 | 25.2 | 25.7 |
| 8H | | | | | | 24.7 | 25.8 | 25.2 | 26.3 | 26.8 |
| 12H | | | | | | 25.3 | 26.4 | 25.8 | 26.9 | 27.4 |
| 2H | | | | | | 26.1 | 27.1 | 26.6 | 27.6 | 28.1 |
| 4H | | | | | | 20.9 | 22.1 | 21.3 | 22.5 | 23.0 |
| 6H | | | | | | 23.2 | 24.2 | 23.7 | 24.7 | 25.3 |
| 8H | | | | | | 24.4 | 25.4 | 25.0 | 25.9 | 26.5 |
| 12H | | | | | | 25.8 | 26.7 | 26.4 | 27.2 | 27.8 |
| 2H | | | | | | 26.6 | 27.4 | 27.2 | 27.9 | 28.6 |
| 4H | | | | | | 27.4 | 28.2 | 28.0 | 28.8 | 29.4 |
| 6H | | | | | | 22.9 | 23.7 | 23.4 | 24.2 | 24.8 |
| 8H | | | | | | 23.6 | 24.3 | 24.2 | 24.9 | 25.5 |
| 12H | | | | | | 23.9 | 24.5 | 24.5 | 25.1 | 25.8 |
| 2H | | | | | | 24.1 | 24.6 | 24.8 | 25.3 | 26.0 |
| 4H | | | | | | 24.7 | 25.5 | 25.3 | 26.1 | 26.7 |
| 6H | | | | | | 26.4 | 27.0 | 27.0 | 27.6 | 28.3 |
| 8H | | | | | | 27.3 | 27.9 | 27.9 | 28.5 | 29.2 |
| 12H | | | | | | 28.4 | 28.9 | 29.1 | 29.6 | 30.3 |
| 2H | | | | | | 23.0 | 23.8 | 23.6 | 24.3 | 25.0 |
| 4H | | | | | | 23.9 | 24.5 | 24.6 | 25.1 | 25.8 |
| 6H | | | | | | 24.3 | 24.9 | 25.0 | 25.5 | 26.2 |
| 8H | | | | | | 27.5 | 28.0 | 28.1 | 28.6 | 29.4 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | | | | | | + 0.1 / - 0.2 | | + 0.1 / - 0.1 | | |
| 1.5H | | | | | | + 0.2 / - 0.3 | | + 0.2 / - 0.3 | | |
| 2.0H | | | | | | + 0.1 / - 0.4 | | + 0.2 / - 0.3 | | |

CIE Pub.117, 1046 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
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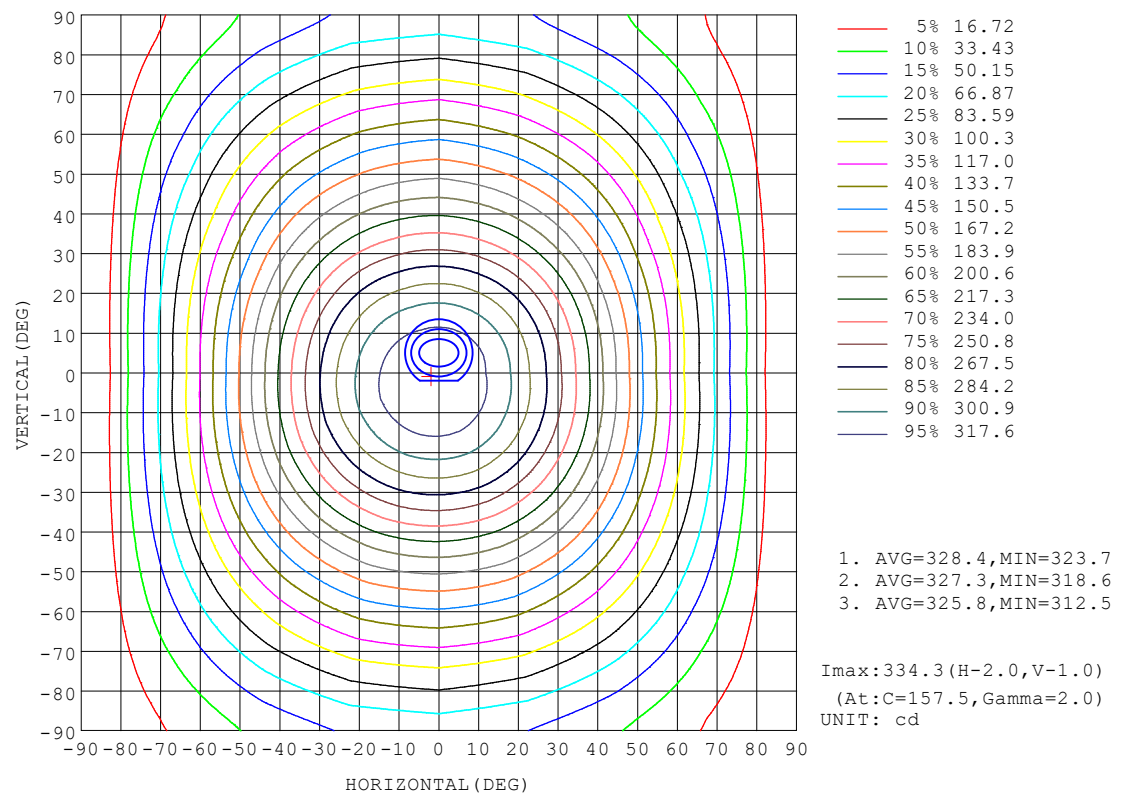
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 54 | 42 | 35 | 53 | 41 | 35 | 51 | 41 | 34 | 28 |
| 0.80 | 63 | 51 | 44 | 62 | 50 | 43 | 59 | 49 | 42 | 35 |
| 1.00 | 71 | 59 | 51 | 69 | 58 | 51 | 66 | 59 | 50 | 42 |
| 1.25 | 78 | 66 | 59 | 76 | 65 | 58 | 72 | 63 | 57 | 48 |
| 1.50 | 83 | 72 | 64 | 80 | 70 | 63 | 76 | 68 | 62 | 52 |
| 2.00 | 90 | 80 | 73 | 87 | 78 | 71 | 82 | 75 | 69 | 59 |
| 2.50 | 94 | 85 | 78 | 91 | 83 | 76 | 85 | 79 | 74 | 63 |
| 3.00 | 97 | 89 | 83 | 94 | 87 | 81 | 88 | 83 | 78 | 66 |
| 4.00 | 101 | 95 | 89 | 98 | 92 | 87 | 92 | 87 | 83 | 71 |
| 5.00 | 104 | 98 | 93 | 100 | 95 | 91 | 94 | 90 | 86 | 74 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000K | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |

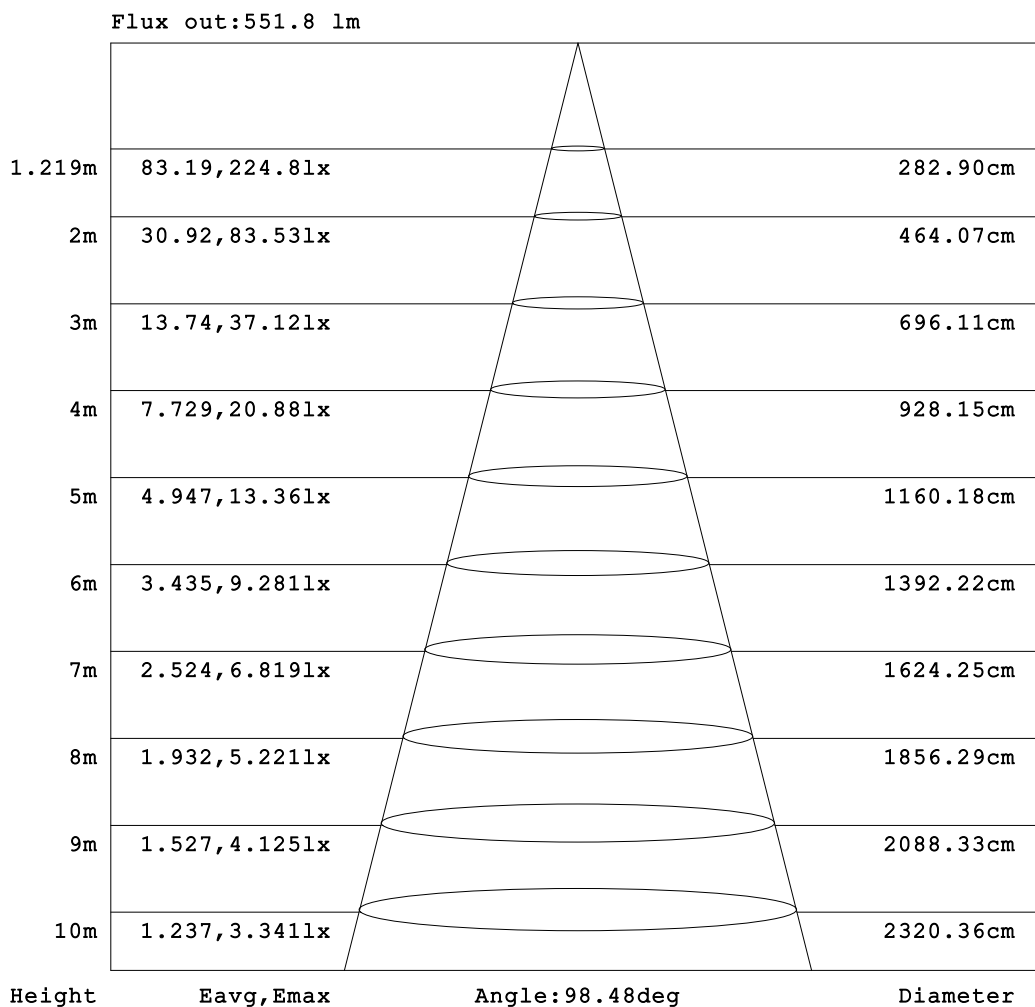


C Range: 0 - 360DEG
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Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |



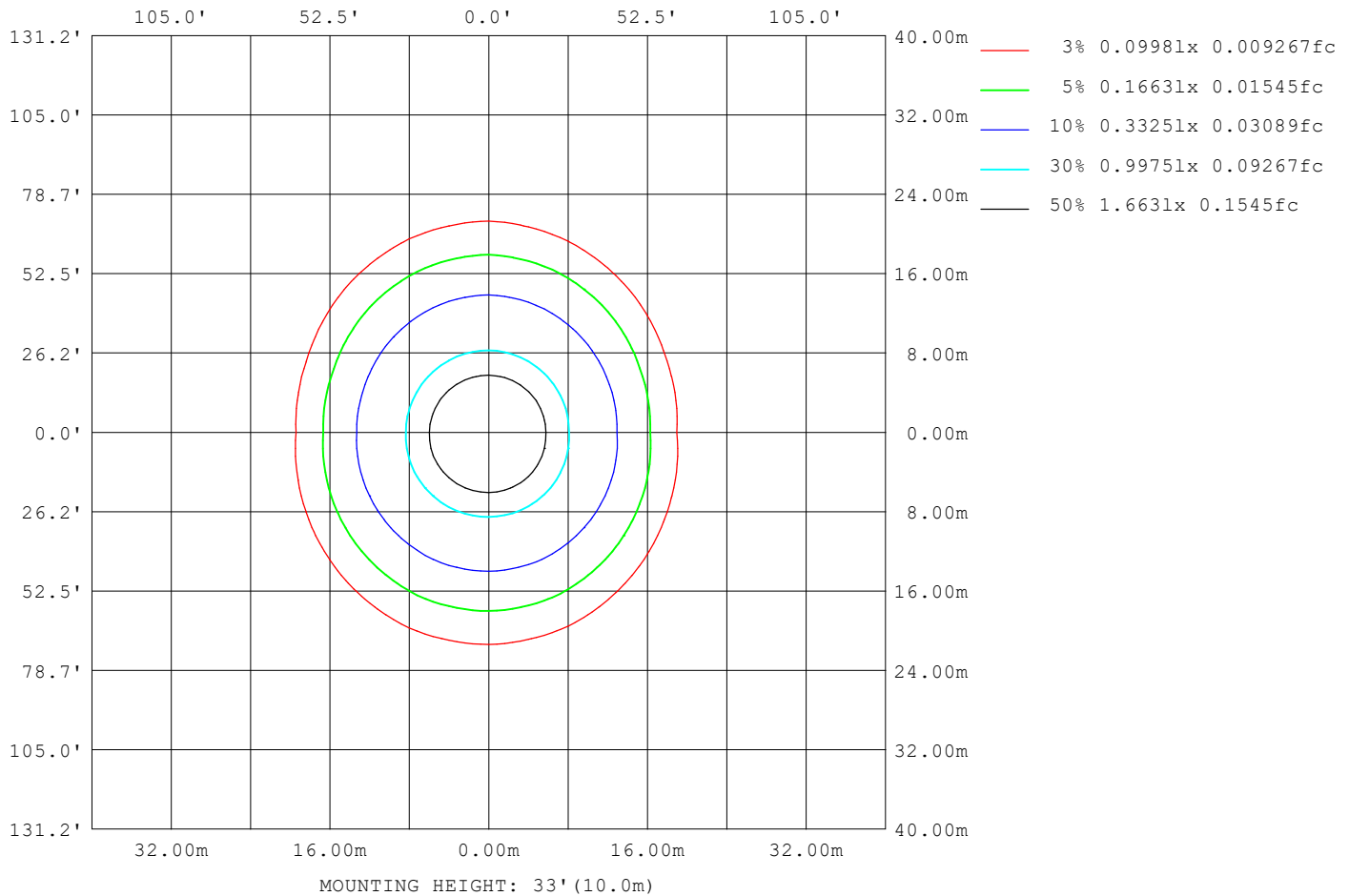
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--|----------|------------------|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: DARKON | SUR.: | Shielding Angle: |

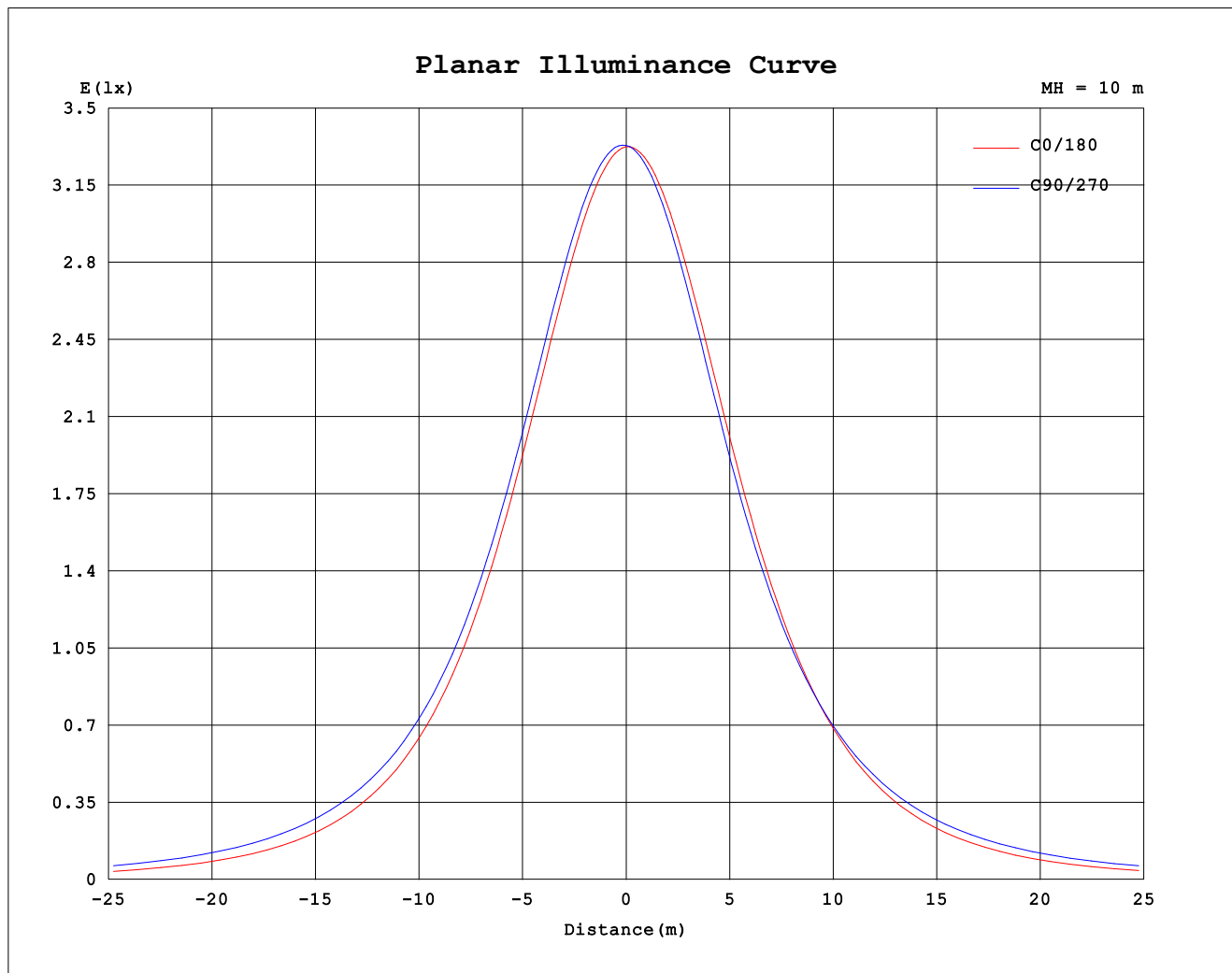
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 7867 |
| L_0~180 (75) av | 6416 |
| L_0~180 (85) av | 3831 |
| L_90~270 (65) av | 11483 |
| L_90~270 (75) av | 14015 |
| L_90~270 (85) av | 29092 |
| L_45 (65) av | 10018 |
| L_45 (75) av | 11084 |
| L_45 (85) av | 19737 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JEFF
Test Date:24 September 2020

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JEFF
Test Date: 24 September 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|----------|--|--|------------------|--|--|--|--|
| Test:U:239.93V I:0.1082A P:17.256W PF:0.6644 Freq:50.09Hz Lamp Flux:1045.87x1 lm | | | | | | | | | | | | | | | | | |
| NAME: SUPER MINI GRAZER_1073_WHT_OPAL V_DPAL-007_4000 | | | | | | | | | | TYPE:LED | | | WEIGHT: | | | | |
| SPEC.: | | | | | | | | | | DIM.: | | | SERIAL No.: | | | | |
| MFR.: DARKON | | | | | | | | | | SUR.: | | | Shielding Angle: | | | | |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 333 | 333 | 333 | 333 | 333 | 334 | 334 | 334 | 333 | 333 | 333 | 333 | 333 | 334 | 334 | 334 | | | |
| 5 | 329 | 330 | 331 | 332 | 333 | 334 | 334 | 334 | 332 | 331 | 330 | 329 | 329 | 329 | 330 | 330 | | | |
| 10 | 321 | 324 | 326 | 328 | 329 | 329 | 329 | 329 | 326 | 325 | 323 | 321 | 321 | 321 | 322 | 322 | | | |
| 15 | 310 | 313 | 316 | 319 | 320 | 321 | 320 | 320 | 317 | 314 | 312 | 309 | 308 | 308 | 309 | 310 | | | |
| 20 | 294 | 298 | 303 | 306 | 307 | 308 | 308 | 307 | 304 | 301 | 297 | 294 | 293 | 293 | 293 | 294 | | | |
| 25 | 276 | 281 | 285 | 289 | 290 | 291 | 291 | 290 | 287 | 283 | 280 | 276 | 274 | 274 | 275 | 276 | | | |
| 30 | 255 | 260 | 266 | 269 | 270 | 271 | 272 | 271 | 267 | 263 | 260 | 256 | 254 | 254 | 254 | 255 | | | |
| 35 | 231 | 238 | 244 | 248 | 249 | 250 | 250 | 249 | 244 | 241 | 238 | 236 | 235 | 233 | 232 | 232 | | | |
| 40 | 207 | 214 | 221 | 226 | 228 | 229 | 228 | 225 | 220 | 218 | 216 | 216 | 216 | 213 | 210 | 208 | | | |
| 45 | 182 | 190 | 198 | 204 | 207 | 207 | 205 | 201 | 194 | 194 | 195 | 197 | 197 | 193 | 188 | 184 | | | |
| 50 | 157 | 167 | 176 | 184 | 186 | 186 | 182 | 176 | 169 | 170 | 174 | 178 | 180 | 175 | 168 | 160 | | | |
| 55 | 132 | 143 | 154 | 163 | 167 | 166 | 160 | 152 | 143 | 145 | 154 | 160 | 163 | 156 | 147 | 137 | | | |
| 60 | 108 | 120 | 133 | 144 | 148 | 147 | 139 | 128 | 117 | 122 | 134 | 142 | 146 | 139 | 127 | 115 | | | |
| 65 | 85.5 | 98.0 | 113 | 126 | 131 | 129 | 118 | 105 | 92.7 | 100 | 114 | 125 | 129 | 121 | 108 | 93.8 | | | |
| 70 | 63.4 | 77.2 | 94.4 | 108 | 114 | 112 | 99.4 | 83.5 | 69.0 | 79.3 | 95.6 | 108 | 113 | 104 | 89.9 | 73.5 | | | |
| 75 | 42.5 | 57.6 | 76.3 | 91.5 | 98.2 | 94.6 | 81.2 | 62.8 | 46.5 | 59.1 | 77.5 | 91.8 | 96.2 | 88.3 | 72.5 | 54.4 | | | |
| 80 | 23.6 | 39.7 | 59.7 | 75.8 | 82.9 | 78.8 | 64.1 | 43.9 | 26.1 | 40.8 | 61.0 | 76.2 | 80.8 | 73.0 | 56.5 | 37.2 | | | |
| 85 | 8.40 | 24.7 | 45.2 | 61.6 | 68.8 | 64.4 | 49.1 | 27.9 | 9.50 | 25.8 | 47.0 | 62.4 | 67.1 | 59.6 | 43.2 | 23.2 | | | |
| 90 | 0.85 | 15.3 | 34.5 | 50.2 | 57.1 | 52.7 | 37.8 | 17.4 | 0.73 | 17.6 | 38.4 | 53.3 | 57.7 | 51.0 | 35.6 | 16.3 | | | |
| 95 | 0.73 | 13.9 | 31.1 | 44.8 | 50.8 | 46.5 | 32.8 | 15.6 | 0.74 | 16.0 | 34.8 | 47.9 | 51.9 | 47.0 | 33.1 | 15.1 | | | |
| 100 | 0.94 | 13.2 | 29.2 | 41.7 | 47.0 | 41.6 | 29.4 | 14.6 | 0.93 | 14.0 | 30.7 | 40.5 | 47.4 | 43.3 | 30.7 | 13.9 | | | |
| 105 | 1.18 | 12.5 | 27.3 | 38.8 | 43.5 | 38.5 | 26.5 | 13.6 | 1.16 | 13.1 | 27.8 | 37.3 | 42.1 | 39.8 | 28.4 | 12.8 | | | |
| 110 | 1.44 | 12.0 | 25.5 | 35.8 | 40.1 | 34.9 | 25.4 | 12.3 | 1.40 | 11.8 | 24.8 | 34.8 | 37.8 | 36.4 | 26.1 | 11.9 | | | |
| 115 | 1.70 | 11.5 | 23.7 | 32.9 | 36.8 | 31.1 | 22.4 | 11.0 | 1.66 | 9.46 | 22.4 | 32.1 | 33.0 | 33.3 | 24.0 | 11.0 | | | |
| 120 | 1.97 | 11.1 | 22.0 | 30.2 | 33.6 | 28.5 | 19.4 | 9.84 | 1.91 | 8.15 | 19.1 | 27.5 | 30.0 | 30.3 | 21.9 | 10.2 | | | |
| 125 | 2.27 | 10.7 | 20.4 | 27.6 | 30.6 | 24.5 | 17.2 | 8.94 | 2.18 | 7.41 | 16.5 | 25.6 | 28.6 | 27.5 | 19.9 | 9.51 | | | |
| 130 | 2.54 | 10.0 | 18.9 | 25.3 | 27.9 | 21.6 | 15.0 | 8.06 | 2.45 | 6.59 | 13.7 | 21.3 | 25.0 | 24.9 | 18.0 | 8.64 | | | |
| 135 | 2.82 | 9.39 | 17.6 | 23.1 | 25.3 | 19.3 | 13.4 | 7.20 | 2.73 | 5.76 | 11.5 | 18.1 | 22.6 | 22.2 | 16.3 | 7.55 | | | |
| 140 | 3.10 | 8.66 | 16.2 | 21.0 | 22.8 | 16.8 | 11.9 | 6.69 | 3.01 | 5.06 | 10.1 | 15.4 | 20.4 | 19.6 | 14.6 | 6.20 | | | |
| 145 | 3.38 | 8.83 | 14.7 | 18.9 | 20.4 | 14.2 | 10.4 | 5.76 | 3.28 | 4.45 | 8.91 | 12.9 | 17.2 | 17.2 | 12.9 | 4.51 | | | |
| 150 | 3.64 | 8.82 | 12.9 | 16.8 | 18.0 | 12.1 | 8.76 | 3.51 | 3.55 | 3.50 | 7.44 | 10.3 | 15.4 | 14.8 | 10.6 | 3.79 | | | |
| 155 | 3.89 | 8.01 | 11.2 | 14.2 | 15.5 | 9.66 | 8.09 | 3.78 | 3.81 | 3.78 | 6.43 | 7.89 | 12.7 | 12.1 | 7.75 | 3.99 | | | |
| 160 | 4.12 | 8.19 | 10.9 | 12.1 | 12.9 | 8.13 | 5.88 | 3.96 | 4.06 | 4.01 | 5.00 | 6.64 | 10.0 | 8.23 | 4.64 | 4.19 | | | |
| 165 | 4.32 | 8.38 | 10.4 | 11.6 | 12.1 | 8.13 | 5.88 | 3.96 | 4.06 | 4.01 | 5.00 | 6.64 | 10.0 | 8.23 | 4.64 | 4.19 | | | |
| 170 | 4.50 | 8.55 | 10.4 | 11.6 | 12.1 | 8.13 | 5.88 | 3.96 | 4.06 | 4.01 | 5.00 | 6.64 | 10.0 | 8.23 | 4.64 | 4.19 | | | |
| 175 | 4.63 | 8.67 | 10.4 | 11.6 | 12.1 | 8.13 | 5.88 | 3.96 | 4.06 | 4.01 | 5.00 | 6.64 | 10.0 | 8.23 | 4.64 | 4.19 | | | |
| 180 | 4.70 | 8.73 | 10.4 | 11.6 | 12.1 | 8.13 | 5.88 | 3.96 | 4.06 | 4.01 | 5.00 | 6.64 | 10.0 | 8.23 | 4.64 | 4.19 | | | |

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:24 September 2020

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366

Humidity:65.0%

Test Distance:7.250m [K=1.0000]

Remarks: