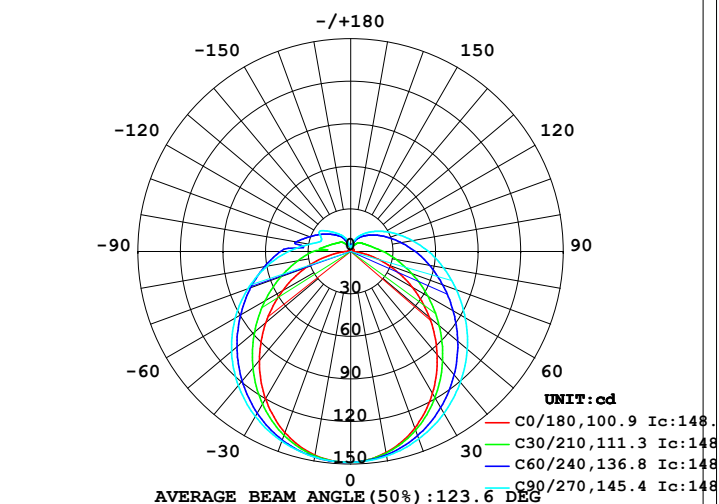


LUMINAIRE PHOTOMETRIC TEST REPORT

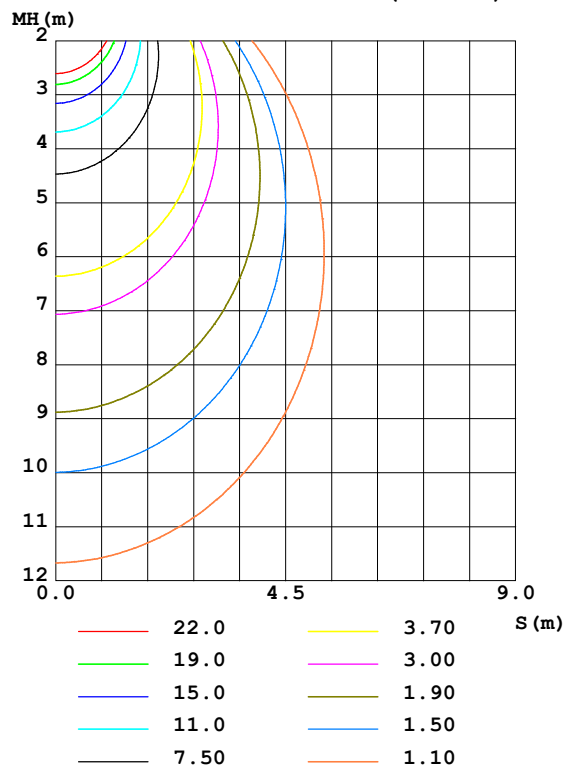
| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 114.23 lm/W | | | |
|------------------|-------------|-----------------------------------|---------|-------------------|----------|
| MODEL | 3000K CRI90 | I _{max} (cd) | 148.8 | S/MH(C0/180) | 1.21 |
| NOMINAL POWER(W) | 6 | LOR(%) | 100.0 | S/MH(C90/270) | 1.35 |
| RATED VOLTAGE(V) | 226 | TOTAL FLUX(lm) | 607.50 | η UP,DN(C0-180) | 8.9,41.1 |
| NOMINAL FLUX(lm) | 607.496 | CIE CLASS | SEMI-D. | η UP,DN(C180-360) | 8.0,42.0 |
| LAMPS INSIDE | 1 | η up(%) | 17.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 225.1 | η down(%) | 83.0 | CIBSE SHR MAX | 1.50 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:8.402m [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 | 144.0 | 145.1 | 146.5 | 146.2 | 145.8 | 146.8 | 147.2 | 145.6 | 0- 10 | 14.06 | 14.06 | 2.31,2.31 |
| 20 | 132.5 | 136.3 | 140.6 | 138.4 | 135.9 | 139.5 | 142.4 | 137.5 | 10- 20 | 40.22 | 54.28 | 8.93,8.93 |
| 30 | 115.5 | 123.2 | 131.7 | 126.2 | 120.1 | 128.1 | 134.5 | 125.3 | 20- 30 | 60.94 | 115.2 | 19,19 |
| 40 | 94.91 | 107.5 | 120.4 | 110.9 | 100.2 | 113.4 | 123.4 | 110.2 | 30- 40 | 73.94 | 189.2 | 31.1,31.1 |
| 50 | 72.56 | 90.54 | 107.3 | 94.23 | 78.17 | 96.95 | 109.7 | 93.53 | 40- 50 | 78.49 | 267.6 | 44.1,44.1 |
| 60 | 49.98 | 73.83 | 93.22 | 77.53 | 55.61 | 80.30 | 94.04 | 76.54 | 50- 60 | 75.30 | 342.9 | 56.5,56.5 |
| 70 | 28.32 | 58.56 | 79.37 | 61.95 | 33.62 | 64.71 | 77.11 | 60.52 | 60- 70 | 66.27 | 409.2 | 67.4,67.4 |
| 80 | 9.710 | 45.80 | 66.55 | 48.70 | 13.97 | 51.03 | 59.96 | 46.33 | 70- 80 | 53.94 | 463.2 | 76.2,76.2 |
| 90 | 1.347 | 35.58 | 54.85 | 38.01 | 2.080 | 39.45 | 43.81 | 34.33 | 80- 90 | 41.32 | 504.5 | 83,83 |
| 100 | 1.407 | 27.54 | 44.43 | 29.50 | 1.742 | 30.14 | 29.82 | 24.77 | 90-100 | 30.33 | 534.8 | 88,88 |
| 110 | 1.642 | 21.57 | 35.51 | 23.07 | 1.726 | 23.45 | 22.29 | 17.86 | 100-110 | 23.12 | 557.9 | 91.8,91.8 |
| 120 | 1.899 | 17.29 | 28.20 | 18.44 | 1.779 | 18.56 | 25.73 | 13.35 | 110-120 | 17.28 | 575.2 | 94.7,94.7 |
| 130 | 2.077 | 13.98 | 22.18 | 14.88 | 1.920 | 14.86 | 22.64 | 10.84 | 120-130 | 12.78 | 588.0 | 96.8,96.8 |
| 140 | 2.181 | 11.38 | 17.19 | 12.05 | 2.077 | 12.16 | 17.43 | 9.385 | 130-140 | 8.940 | 596.9 | 98.3,98.3 |
| 150 | 2.276 | 8.876 | 12.96 | 7.990 | 2.229 | 8.271 | 13.38 | 7.826 | 140-150 | 5.769 | 602.7 | 99.2,99.2 |
| 160 | 2.354 | 6.138 | 8.791 | 4.907 | 2.385 | 5.115 | 9.502 | 5.929 | 150-160 | 3.164 | 605.9 | 99.7,99.7 |
| 170 | 2.441 | 4.443 | 3.859 | 3.687 | 2.506 | 3.908 | 4.050 | 4.677 | 160-170 | 1.324 | 607.2 | 99.9,99.9 |
| 180 | 2.589 | 2.607 | 2.533 | 2.520 | 2.595 | 2.665 | 2.596 | 2.547 | 170-180 | 0.3177 | 607.5 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 228.35 lm

%lum = 37.6%

%lamp = 37.6%

Conical surface Flux(120deg): 342.95 lm

%lum = 56.5%

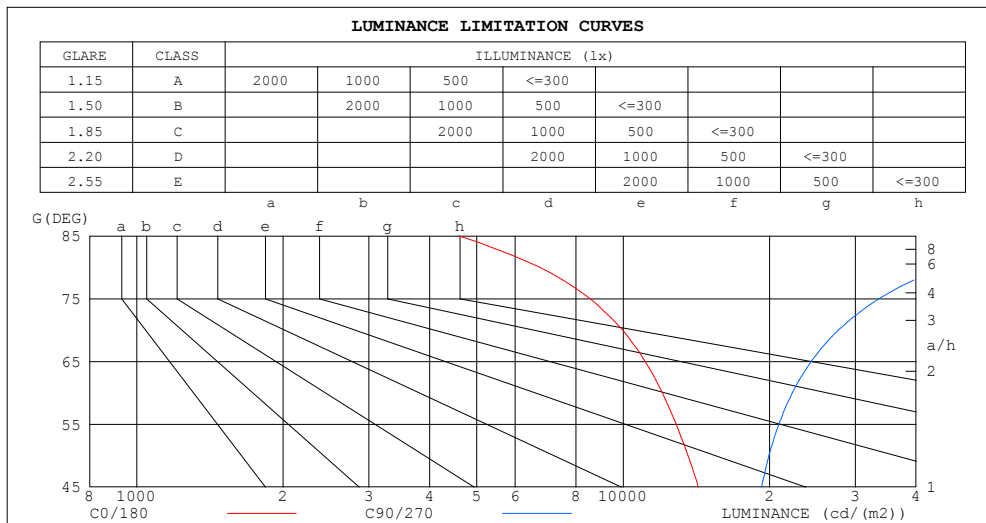
%lamp = 56.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:8.402m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |



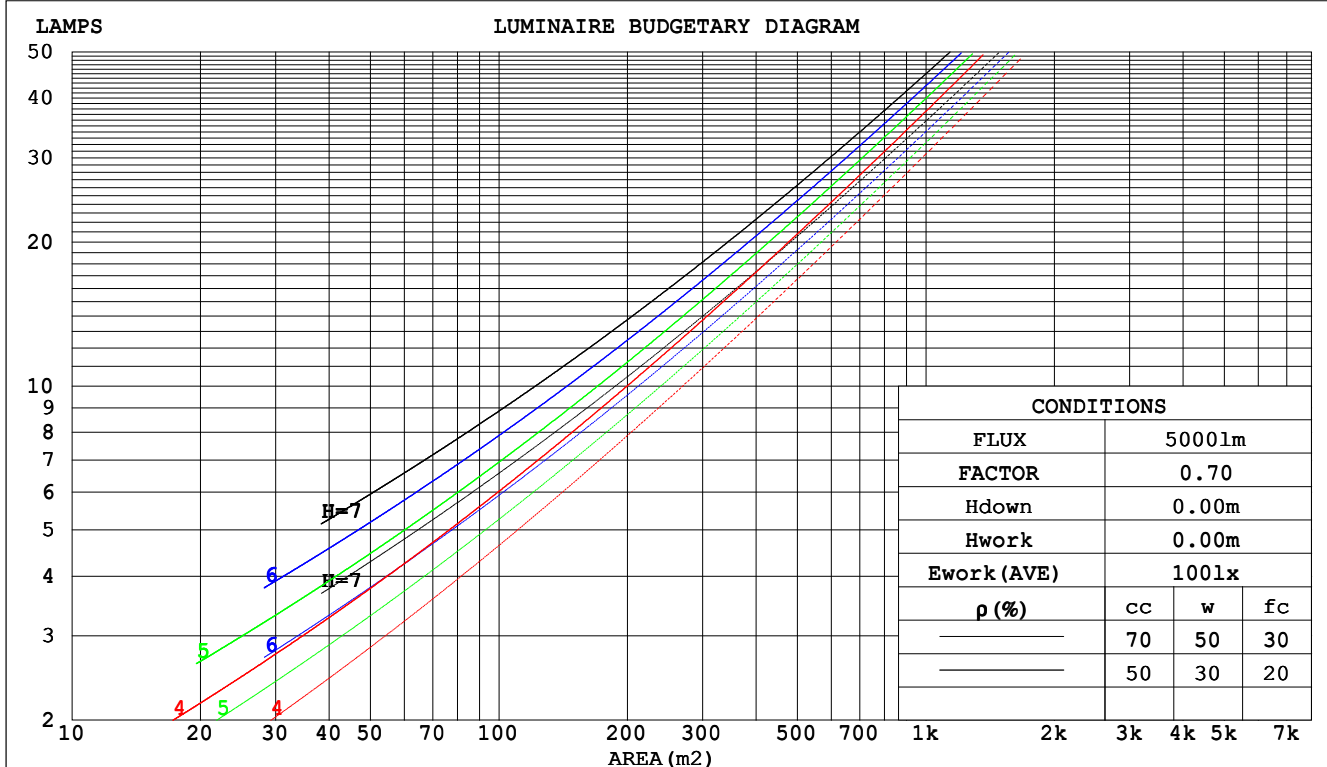
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 8.402m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | 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 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.02 | 1.02 | 1.02 | .94 | .94 | .94 | .86 | .86 | .86 | .83 |
| 1.0 | .97 | .91 | .87 | .93 | .88 | .84 | .85 | .81 | .78 | .78 | .75 | .72 | .72 | .70 | .67 | .64 |
| 2.0 | .83 | .75 | .69 | .80 | .73 | .67 | .73 | .67 | .63 | .67 | .63 | .59 | .62 | .58 | .55 | .52 |
| 3.0 | .72 | .63 | .56 | .69 | .61 | .55 | .64 | .57 | .52 | .59 | .53 | .49 | .54 | .49 | .46 | .43 |
| 4.0 | .64 | .54 | .47 | .61 | .52 | .46 | .56 | .49 | .43 | .52 | .46 | .41 | .48 | .43 | .39 | .36 |
| 5.0 | .56 | .47 | .40 | .54 | .46 | .39 | .50 | .43 | .37 | .46 | .40 | .35 | .43 | .38 | .33 | .31 |
| 6.0 | .51 | .41 | .35 | .49 | .40 | .34 | .45 | .38 | .32 | .42 | .36 | .31 | .39 | .33 | .29 | .27 |
| 7.0 | .46 | .37 | .31 | .44 | .36 | .30 | .41 | .34 | .28 | .38 | .32 | .27 | .35 | .30 | .26 | .23 |
| 8.0 | .42 | .33 | .27 | .40 | .32 | .26 | .37 | .30 | .25 | .35 | .29 | .24 | .33 | .27 | .23 | .21 |
| 9.0 | .38 | .30 | .24 | .37 | .29 | .24 | .34 | .28 | .23 | .32 | .26 | .22 | .30 | .25 | .21 | .19 |
| 10.0 | .35 | .27 | .22 | .34 | .26 | .21 | .32 | .25 | .20 | .30 | .24 | .20 | .28 | .23 | .19 | .17 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:8.402m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | 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 | .373 | .212 | .067 | .360 | .205 | .065 | .337 | .193 | .062 | .316 | .182 | .058 | .296 | .172 | .055 | |
| 2.0 | .325 | .178 | .055 | .314 | .173 | .053 | .293 | .163 | .051 | .274 | .153 | .048 | .256 | .145 | .046 | |
| 3.0 | .290 | .154 | .046 | .280 | .150 | .045 | .261 | .141 | .043 | .243 | .133 | .041 | .227 | .126 | .039 | |
| 4.0 | .262 | .136 | .040 | .253 | .132 | .039 | .236 | .125 | .037 | .220 | .118 | .036 | .205 | .111 | .034 | |
| 5.0 | .238 | .122 | .035 | .230 | .118 | .034 | .215 | .112 | .033 | .200 | .106 | .031 | .187 | .100 | .030 | |
| 6.0 | .219 | .110 | .031 | .211 | .107 | .031 | .197 | .101 | .029 | .184 | .096 | .028 | .172 | .090 | .027 | |
| 7.0 | .202 | .100 | .028 | .195 | .097 | .028 | .182 | .092 | .027 | .170 | .087 | .025 | .159 | .083 | .024 | |
| 8.0 | .188 | .092 | .026 | .182 | .089 | .025 | .170 | .085 | .024 | .159 | .080 | .023 | .148 | .076 | .022 | |
| 9.0 | .175 | .085 | .024 | .169 | .083 | .023 | .159 | .078 | .022 | .148 | .074 | .021 | .139 | .070 | .020 | |
| 10.0 | .164 | .079 | .022 | .159 | .077 | .021 | .149 | .073 | .021 | .139 | .069 | .020 | .130 | .066 | .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 | .320 | .320 | .320 | .273 | .273 | .273 | .186 | .186 | .186 | .107 | .107 | .107 | .034 | .034 | .034 | |
| 1.0 | .315 | .286 | .260 | .269 | .245 | .223 | .184 | .169 | .155 | .106 | .098 | .090 | .034 | .031 | .029 | |
| 2.0 | .308 | .263 | .225 | .264 | .226 | .195 | .181 | .157 | .136 | .104 | .091 | .080 | .033 | .029 | .026 | |
| 3.0 | .300 | .246 | .203 | .257 | .212 | .176 | .177 | .148 | .124 | .102 | .086 | .073 | .033 | .028 | .024 | |
| 4.0 | .292 | .234 | .189 | .251 | .202 | .164 | .173 | .141 | .116 | .100 | .082 | .068 | .032 | .027 | .022 | |
| 5.0 | .285 | .224 | .179 | .245 | .194 | .156 | .168 | .135 | .110 | .098 | .079 | .065 | .031 | .026 | .021 | |
| 6.0 | .277 | .216 | .172 | .238 | .187 | .150 | .164 | .131 | .106 | .095 | .077 | .063 | .031 | .025 | .021 | |
| 7.0 | .270 | .209 | .166 | .233 | .181 | .145 | .161 | .127 | .103 | .093 | .075 | .061 | .030 | .025 | .020 | |
| 8.0 | .264 | .204 | .162 | .227 | .177 | .142 | .157 | .124 | .100 | .091 | .073 | .060 | .030 | .024 | .020 | |
| 9.0 | .258 | .199 | .159 | .222 | .173 | .139 | .154 | .121 | .099 | .090 | .072 | .059 | .029 | .024 | .019 | |
| 10.0 | .252 | .195 | .157 | .217 | .169 | .137 | .151 | .119 | .097 | .088 | .070 | .058 | .028 | .023 | .019 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|---------------|------------------|------|------|------|---------------|----------------|------------------|------|------|------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | | | | | | | | | | |
| NAME: M20-T44003-6G30-120D | | | | | | TYPE: | | WEIGHT: | | | |
| SPEC.: | | | | | | DIM.: | | SERIAL No.: | | | |
| MFR.: | | | | | | SUR.:302*27.7 | | 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 | 21.8 | 23.2 | 22.3 | 23.7 | 24.2 | 24.4 | 25.7 | 24.9 | 26.2 | 26.8 | |
| | 3H | 23.1 | 24.4 | 23.6 | 24.9 | 25.5 | 27.0 | 28.2 | 27.5 | 28.7 | 29.3 |
| | 4H | 23.6 | 24.8 | 24.1 | 25.3 | 25.9 | 28.4 | 29.6 | 28.9 | 30.1 | 30.7 |
| | 6H | 23.9 | 25.0 | 24.4 | 25.6 | 26.2 | 29.9 | 31.1 | 30.5 | 31.6 | 32.3 |
| | 8H | 23.9 | 25.0 | 24.5 | 25.6 | 26.2 | 30.8 | 31.9 | 31.4 | 32.5 | 33.1 |
| | 12H | 24.0 | 25.0 | 24.6 | 25.6 | 26.2 | 31.8 | 32.9 | 32.4 | 33.5 | 34.1 |
| 4H | 2H | 23.0 | 24.2 | 23.5 | 24.7 | 25.3 | 24.9 | 26.0 | 25.4 | 26.6 | 27.2 |
| | 3H | 24.6 | 25.6 | 25.1 | 26.2 | 26.8 | 27.7 | 28.7 | 28.3 | 29.3 | 30.0 |
| | 4H | 25.2 | 26.2 | 25.8 | 26.8 | 27.5 | 29.3 | 30.3 | 29.9 | 30.9 | 31.6 |
| | 6H | 25.7 | 26.6 | 26.4 | 27.2 | 27.9 | 31.1 | 32.0 | 31.8 | 32.6 | 33.3 |
| | 8H | 25.9 | 26.7 | 26.5 | 27.3 | 28.1 | 32.1 | 32.9 | 32.8 | 33.6 | 34.3 |
| | 12H | 26.0 | 26.7 | 26.6 | 27.4 | 28.1 | 33.3 | 34.0 | 34.0 | 34.7 | 35.5 |
| 8H | 4H | 26.4 | 27.2 | 27.0 | 27.8 | 28.6 | 29.6 | 30.4 | 30.3 | 31.1 | 31.8 |
| | 6H | 27.3 | 28.0 | 28.0 | 28.6 | 29.4 | 31.7 | 32.4 | 32.4 | 33.1 | 33.9 |
| | 8H | 27.7 | 28.3 | 28.4 | 29.0 | 29.8 | 33.0 | 33.6 | 33.7 | 34.3 | 35.1 |
| | 12H | 28.0 | 28.5 | 28.7 | 29.2 | 30.0 | 34.4 | 34.9 | 35.1 | 35.6 | 36.5 |
| 12H | 4H | 26.8 | 27.5 | 27.4 | 28.2 | 28.9 | 29.6 | 30.4 | 30.3 | 31.0 | 31.8 |
| | 6H | 27.9 | 28.5 | 28.6 | 29.2 | 30.0 | 31.8 | 32.4 | 32.5 | 33.1 | 33.9 |
| | 8H | 28.5 | 29.0 | 29.2 | 29.8 | 30.6 | 33.2 | 33.7 | 33.9 | 34.4 | 35.2 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | | |
| 1.5H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.3 | | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | | |

CIE Pub.117, 607.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

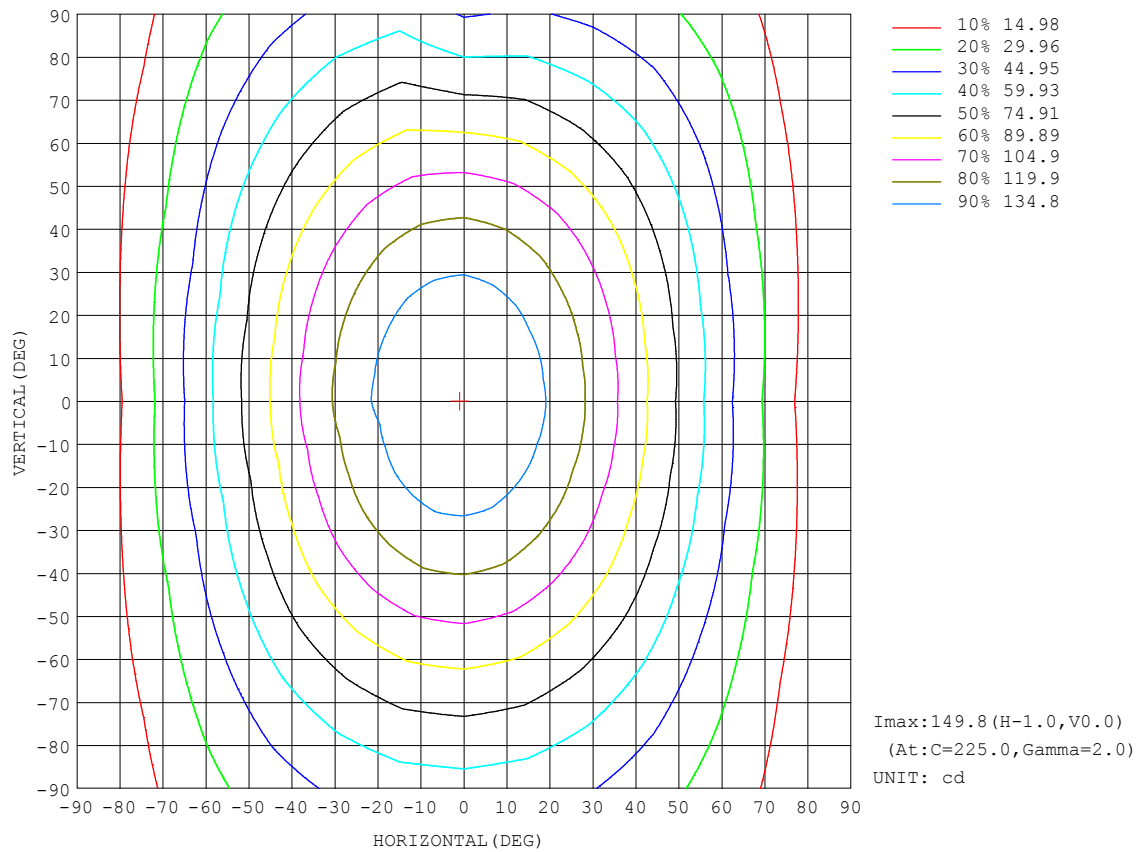
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 37 | 30 | 48 | 37 | 30 | 46 | 36 | 29 | 23 |
| 0.80 | 58 | 46 | 38 | 57 | 45 | 37 | 54 | 44 | 37 | 29 |
| 1.00 | 66 | 54 | 45 | 64 | 53 | 45 | 61 | 53 | 44 | 35 |
| 1.25 | 73 | 61 | 53 | 71 | 60 | 52 | 67 | 57 | 50 | 41 |
| 1.50 | 78 | 66 | 58 | 76 | 65 | 57 | 71 | 62 | 55 | 45 |
| 2.00 | 85 | 75 | 67 | 82 | 73 | 65 | 77 | 69 | 62 | 51 |
| 2.50 | 90 | 80 | 72 | 86 | 77 | 70 | 80 | 73 | 67 | 55 |
| 3.00 | 93 | 84 | 77 | 90 | 82 | 75 | 83 | 77 | 71 | 58 |
| 4.00 | 98 | 90 | 84 | 94 | 87 | 81 | 87 | 82 | 77 | 63 |
| 5.00 | 101 | 94 | 88 | 97 | 91 | 86 | 89 | 85 | 81 | 66 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

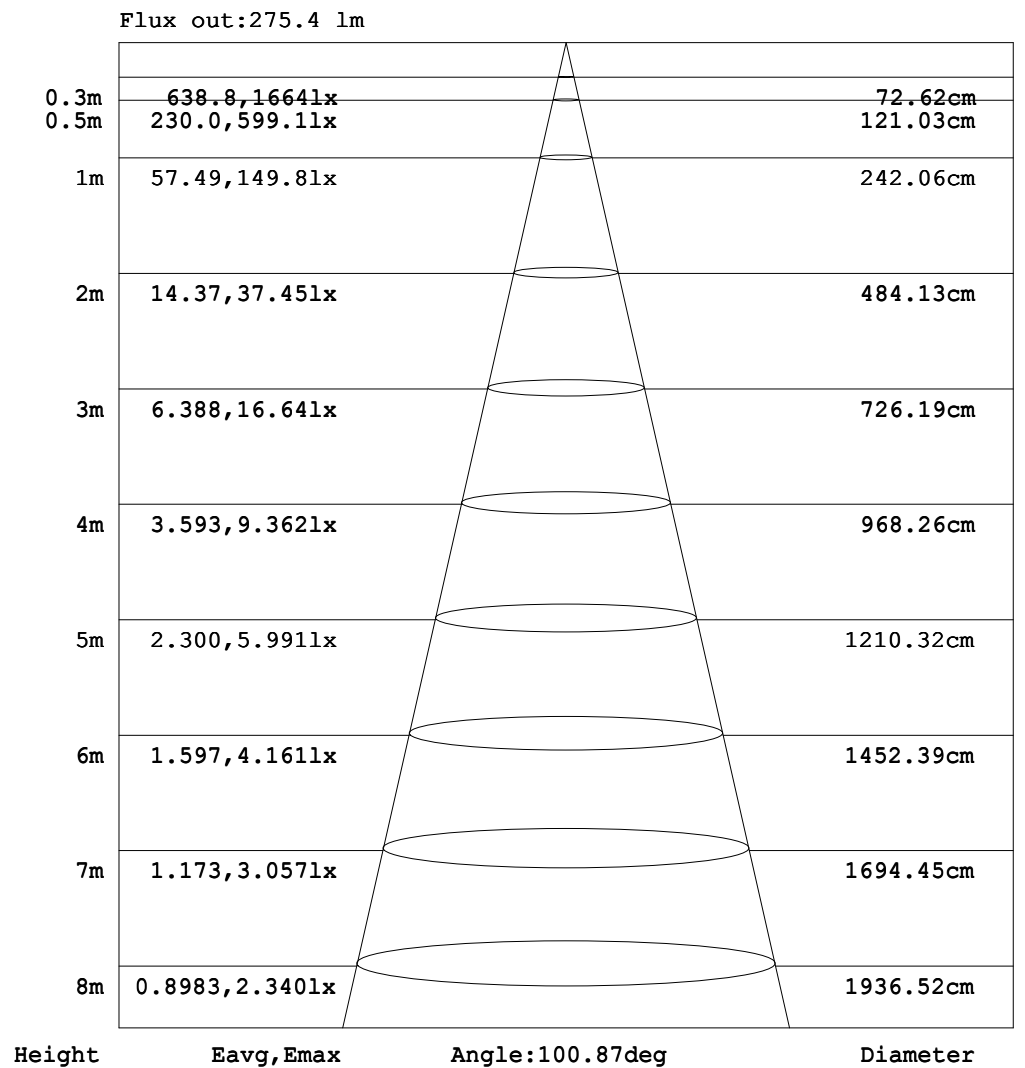


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |



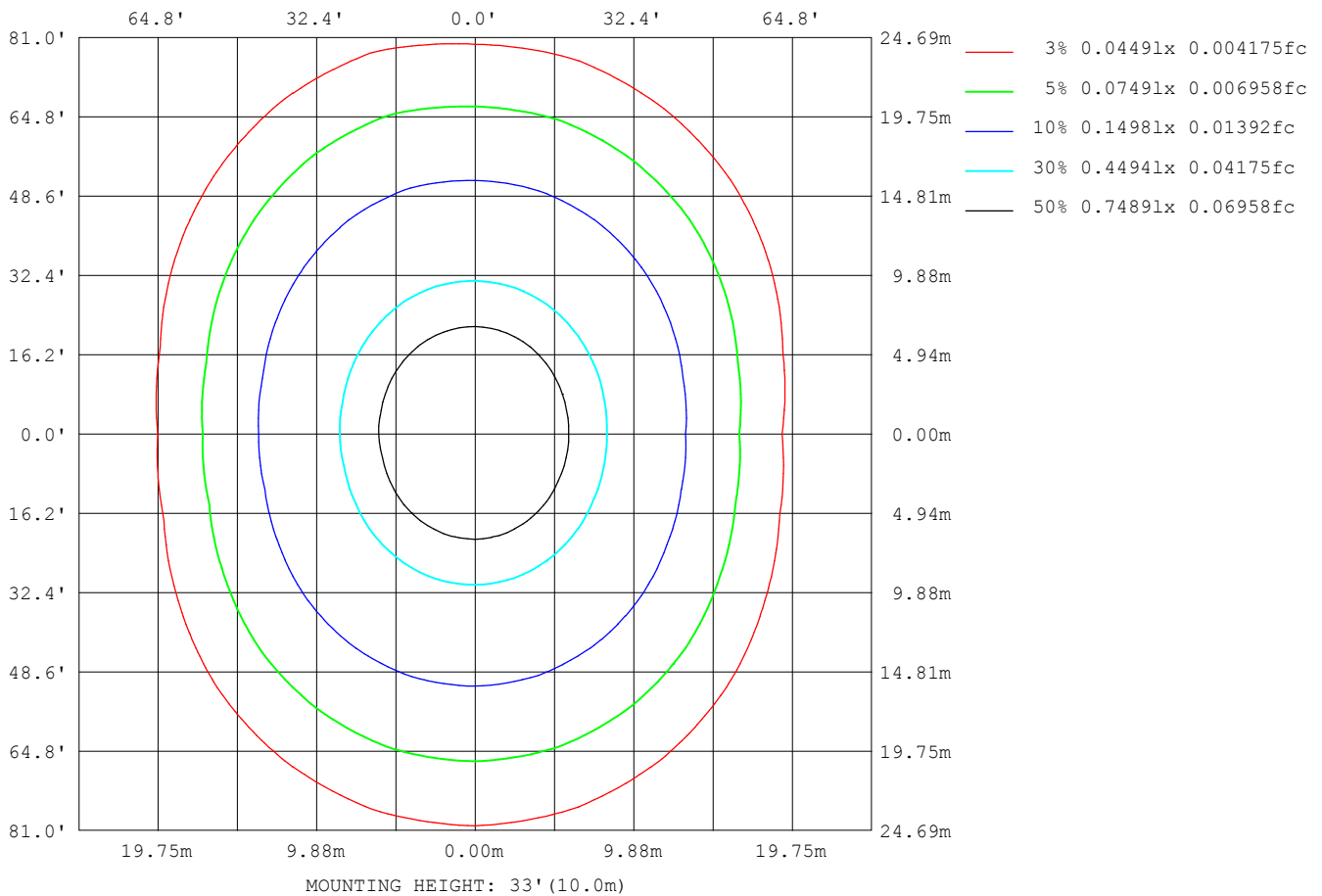
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

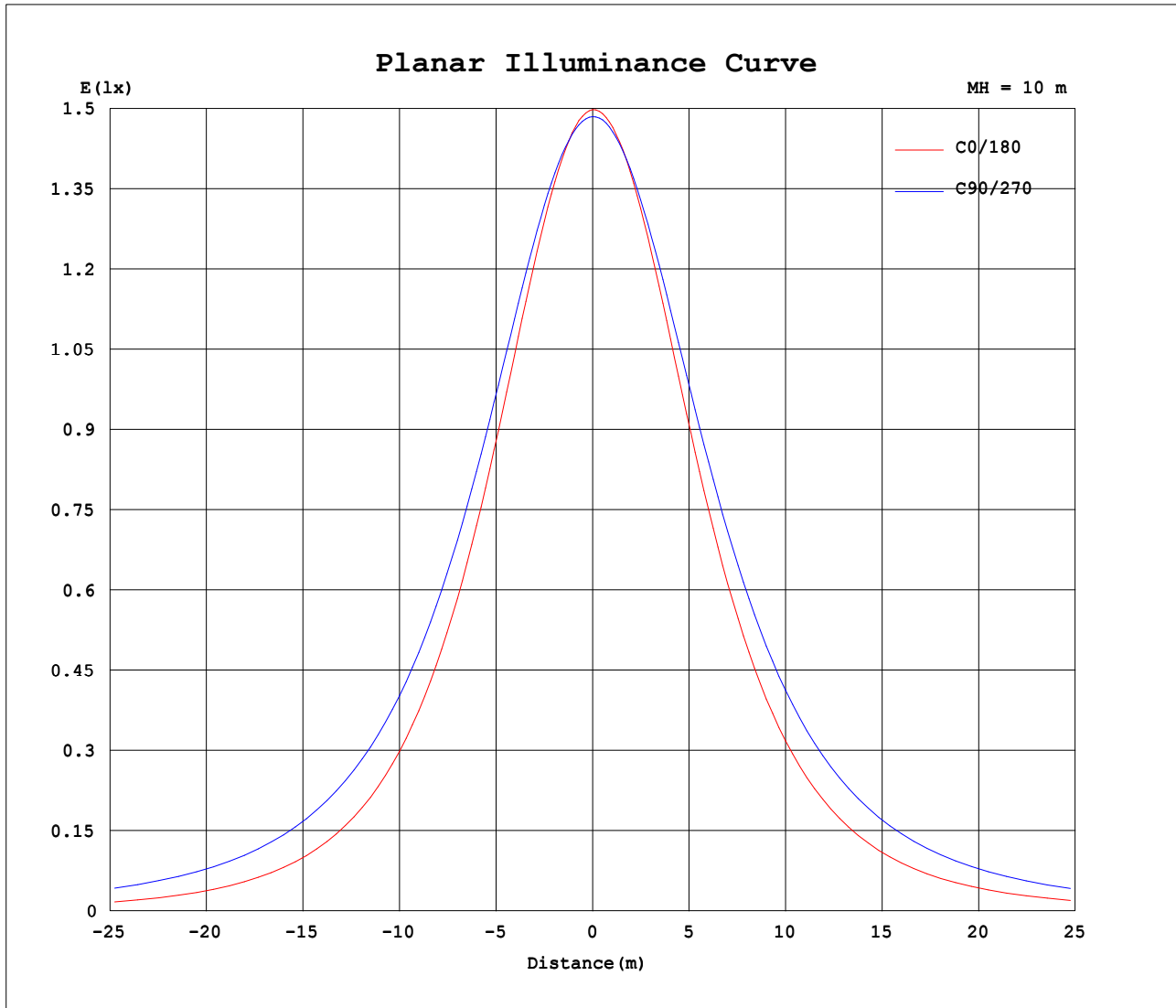
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 11804 |
| L_0~180 (75) av | 9644 |
| L_0~180 (85) av | 6586 |
| L_90~270 (65) av | 24316 |
| L_90~270 (75) av | 32635 |
| L_90~270 (85) av | 76959 |
| L_45 (65) av | 19526 |
| L_45 (75) av | 25129 |
| L_45 (85) av | 57796 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ZR
 Test Date:2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:65.0%
 Test Distance:8.402m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: ZR
Test Date: 2021-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity: 65.0%
Test Distance: 8.402m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 |
| 5 | 147 | 147 | 147 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 149 | 149 | 148 |
| 10 | 144 | 144 | 144 | 145 | 146 | 146 | 146 | 147 | 146 | 146 | 146 | 145 | 146 | 146 | 146 | 147 | 147 | 147 | 147 |
| 15 | 139 | 139 | 140 | 141 | 142 | 143 | 144 | 144 | 144 | 143 | 142 | 141 | 142 | 142 | 143 | 144 | 145 | 145 | 145 |
| 20 | 133 | 133 | 134 | 136 | 138 | 140 | 141 | 141 | 140 | 138 | 137 | 136 | 136 | 136 | 138 | 140 | 141 | 142 | 142 |
| 25 | 125 | 125 | 127 | 130 | 133 | 136 | 137 | 137 | 135 | 133 | 130 | 128 | 129 | 129 | 132 | 134 | 137 | 138 | 139 |
| 30 | 115 | 117 | 119 | 123 | 127 | 130 | 132 | 132 | 129 | 126 | 122 | 120 | 120 | 121 | 124 | 128 | 132 | 134 | 134 |
| 35 | 106 | 107 | 110 | 116 | 121 | 125 | 126 | 126 | 123 | 119 | 114 | 111 | 111 | 112 | 116 | 121 | 126 | 129 | 129 |
| 40 | 94.9 | 96.7 | 101 | 107 | 114 | 118 | 120 | 120 | 116 | 111 | 105 | 101 | 100 | 102 | 107 | 113 | 119 | 123 | 123 |
| 45 | 83.8 | 86.0 | 91.2 | 99.1 | 106 | 112 | 114 | 113 | 109 | 103 | 95.3 | 90.2 | 89.4 | 91.6 | 98.1 | 105 | 112 | 116 | 117 |
| 50 | 72.6 | 75.2 | 81.5 | 90.5 | 98.6 | 105 | 107 | 106 | 101 | 94.2 | 85.8 | 79.5 | 78.2 | 80.9 | 88.6 | 96.9 | 105 | 109 | 110 |
| 55 | 61.2 | 64.4 | 72.1 | 82.1 | 91.0 | 97.8 | 100 | 99.1 | 93.7 | 85.8 | 76.3 | 68.7 | 66.8 | 70.3 | 79.1 | 88.6 | 97.2 | 102 | 102 |
| 60 | 50.0 | 53.9 | 62.8 | 73.8 | 83.5 | 90.6 | 93.2 | 92.0 | 86.0 | 77.5 | 67.0 | 58.1 | 55.6 | 59.7 | 69.9 | 80.3 | 89.7 | 95.3 | 94.0 |
| 65 | 39.0 | 43.8 | 54.1 | 66.0 | 76.1 | 83.6 | 86.2 | 84.9 | 78.6 | 69.5 | 58.1 | 48.0 | 44.5 | 49.5 | 61.0 | 72.3 | 82.3 | 88.4 | 85.7 |
| 70 | 28.3 | 34.3 | 45.9 | 58.6 | 69.1 | 76.7 | 79.4 | 77.9 | 71.5 | 62.0 | 49.8 | 38.3 | 33.6 | 39.8 | 52.5 | 64.7 | 75.2 | 81.4 | 77.1 |
| 75 | 18.4 | 25.8 | 38.7 | 51.8 | 62.5 | 70.2 | 72.8 | 71.3 | 64.8 | 55.0 | 42.3 | 29.5 | 23.4 | 30.8 | 44.8 | 57.6 | 68.3 | 74.6 | 68.5 |
| 80 | 9.71 | 18.6 | 32.5 | 45.8 | 56.5 | 63.9 | 66.6 | 65.0 | 58.6 | 48.7 | 35.7 | 21.8 | 14.0 | 23.0 | 37.8 | 51.0 | 61.7 | 67.9 | 60.0 |
| 85 | 3.32 | 13.2 | 27.2 | 40.4 | 50.9 | 58.0 | 60.6 | 59.0 | 52.8 | 43.1 | 30.1 | 15.7 | 6.28 | 16.6 | 31.7 | 45.0 | 55.4 | 61.5 | 51.6 |
| 90 | 1.35 | 9.58 | 23.0 | 35.6 | 45.6 | 52.4 | 54.8 | 53.3 | 47.4 | 38.0 | 25.4 | 11.5 | 2.08 | 11.9 | 26.6 | 39.5 | 49.5 | 54.3 | 43.8 |
| 95 | 1.35 | 7.47 | 19.5 | 31.3 | 40.7 | 47.2 | 49.4 | 48.1 | 42.4 | 33.5 | 21.6 | 8.83 | 1.81 | 9.04 | 22.3 | 30.6 | 33.6 | 38.7 | 36.4 |
| 100 | 1.41 | 6.41 | 16.8 | 27.5 | 36.3 | 42.3 | 44.4 | 43.1 | 37.8 | 29.5 | 18.6 | 7.27 | 1.74 | 7.53 | 19.0 | 30.1 | 39.1 | 43.2 | 29.8 |
| 105 | 1.51 | 5.85 | 14.7 | 24.3 | 32.3 | 37.9 | 39.8 | 38.6 | 33.7 | 26.0 | 16.2 | 6.30 | 1.73 | 6.72 | 16.5 | 26.5 | 34.7 | 39.5 | 24.6 |
| 110 | 1.64 | 5.61 | 13.2 | 21.6 | 28.8 | 33.8 | 35.5 | 34.4 | 29.9 | 23.1 | 14.4 | 5.90 | 1.73 | 6.30 | 14.6 | 23.4 | 30.8 | 35.2 | 22.3 |
| 115 | 1.77 | 5.48 | 11.9 | 19.3 | 25.6 | 30.1 | 31.6 | 30.7 | 26.6 | 20.6 | 13.0 | 5.67 | 1.74 | 6.09 | 13.1 | 20.8 | 27.4 | 31.3 | 23.0 |
| 120 | 1.90 | 5.34 | 10.9 | 17.3 | 22.9 | 26.8 | 28.2 | 27.3 | 23.8 | 18.4 | 11.9 | 5.51 | 1.78 | 5.94 | 11.8 | 18.6 | 24.3 | 27.8 | 25.7 |
| 125 | 1.98 | 4.91 | 10.2 | 15.5 | 20.4 | 23.9 | 25.1 | 24.3 | 21.2 | 16.5 | 11.0 | 5.38 | 1.84 | 5.83 | 10.9 | 16.6 | 21.6 | 24.7 | 25.6 |
| 130 | 2.08 | 4.61 | 9.43 | 14.0 | 18.1 | 21.1 | 22.2 | 21.5 | 18.9 | 14.9 | 10.1 | 4.94 | 1.92 | 5.39 | 10.1 | 14.9 | 19.1 | 21.8 | 22.6 |
| 135 | 2.13 | 4.48 | 8.74 | 12.7 | 16.1 | 18.6 | 19.6 | 19.0 | 16.8 | 13.4 | 9.37 | 4.52 | 2.00 | 4.95 | 9.38 | 13.4 | 16.9 | 19.2 | 19.9 |
| 140 | 2.18 | 4.34 | 7.95 | 11.4 | 14.3 | 16.4 | 17.2 | 16.8 | 15.0 | 12.0 | 8.26 | 4.18 | 2.08 | 4.60 | 8.38 | 12.2 | 15.0 | 16.8 | 17.4 |
| 145 | 2.23 | 4.16 | 6.57 | 10.2 | 12.7 | 14.4 | 15.0 | 14.7 | 13.1 | 10.1 | 6.60 | 3.88 | 2.17 | 4.30 | 6.86 | 10.2 | 13.3 | 14.8 | 15.3 |
| 150 | 2.28 | 3.92 | 5.92 | 8.88 | 11.0 | 12.4 | 13.0 | 12.7 | 10.7 | 7.99 | 5.41 | 3.63 | 2.23 | 4.05 | 5.50 | 8.27 | 11.1 | 12.9 | 13.4 |
| 155 | 2.32 | 3.75 | 5.18 | 6.99 | 9.38 | 10.7 | 11.0 | 10.8 | 7.99 | 5.86 | 4.81 | 3.44 | 2.31 | 3.85 | 4.86 | 6.19 | 8.52 | 11.1 | 11.4 |
| 160 | 2.35 | 3.51 | 4.72 | 6.14 | 7.21 | 8.40 | 8.79 | 7.01 | 5.41 | 4.91 | 4.31 | 3.23 | 2.39 | 3.66 | 4.37 | 5.11 | 5.73 | 7.49 | 9.50 |
| 165 | 2.41 | 3.16 | 4.27 | 5.15 | 6.04 | 6.63 | 6.13 | 4.61 | 4.54 | 4.26 | 3.89 | 2.95 | 2.46 | 3.47 | 3.97 | 4.45 | 4.74 | 4.90 | 6.94 |
| 170 | 2.44 | 2.64 | 3.76 | 4.44 | 4.88 | 4.79 | 3.86 | 3.88 | 3.88 | 3.69 | 3.43 | 2.55 | 2.51 | 3.27 | 3.61 | 3.91 | 4.05 | 4.16 | 4.05 |
| 175 | 2.49 | 2.30 | 2.72 | 3.25 | 3.60 | 3.23 | 3.22 | 3.19 | 3.14 | 2.91 | 2.66 | 2.35 | 2.56 | 3.05 | 3.22 | 3.38 | 3.43 | 3.50 | 3.41 |
| 180 | 2.59 | 2.60 | 2.59 | 2.61 | 2.56 | 2.61 | 2.53 | 2.54 | 2.37 | 2.52 | 2.44 | 2.47 | 2.59 | 2.63 | 2.63 | 2.66 | 2.61 | 2.62 | 2.60 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---------------|------------------|
| Test:U:48.00V I:0.1108A P:5.318W PF:1.000 Freq:50.00Hz Lamp Flux:607.496x1 lm | | |
| NAME: M20-T44003-6G30-120D | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:302*27.7 | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|-------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 149 | 149 | 149 | 149 | 149 | | | | | | | | | | | | | | |
| 5 | 148 | 148 | 148 | 148 | 148 | | | | | | | | | | | | | | |
| 10 | 147 | 146 | 146 | 145 | 145 | | | | | | | | | | | | | | |
| 15 | 145 | 144 | 142 | 141 | 140 | | | | | | | | | | | | | | |
| 20 | 141 | 140 | 137 | 136 | 134 | | | | | | | | | | | | | | |
| 25 | 138 | 135 | 132 | 129 | 126 | | | | | | | | | | | | | | |
| 30 | 133 | 130 | 125 | 121 | 118 | | | | | | | | | | | | | | |
| 35 | 127 | 124 | 118 | 113 | 108 | | | | | | | | | | | | | | |
| 40 | 121 | 117 | 110 | 104 | 98.3 | | | | | | | | | | | | | | |
| 45 | 115 | 109 | 102 | 94.4 | 87.7 | | | | | | | | | | | | | | |
| 50 | 107 | 101 | 93.5 | 84.8 | 77.1 | | | | | | | | | | | | | | |
| 55 | 99.7 | 93.5 | 85.0 | 75.3 | 66.4 | | | | | | | | | | | | | | |
| 60 | 91.9 | 85.4 | 76.5 | 66.1 | 55.9 | | | | | | | | | | | | | | |
| 65 | 84.1 | 77.4 | 68.3 | 57.3 | 45.8 | | | | | | | | | | | | | | |
| 70 | 76.3 | 69.5 | 60.5 | 48.8 | 36.3 | | | | | | | | | | | | | | |
| 75 | 68.4 | 62.0 | 53.2 | 41.1 | 27.6 | | | | | | | | | | | | | | |
| 80 | 60.8 | 54.8 | 46.3 | 34.1 | 20.0 | | | | | | | | | | | | | | |
| 85 | 53.6 | 48.0 | 40.0 | 27.8 | 13.9 | | | | | | | | | | | | | | |
| 90 | 46.8 | 41.9 | 34.3 | 22.6 | 9.36 | | | | | | | | | | | | | | |
| 95 | 40.4 | 36.2 | 29.2 | 18.2 | 6.55 | | | | | | | | | | | | | | |
| 100 | 34.7 | 31.2 | 24.8 | 14.8 | 5.69 | | | | | | | | | | | | | | |
| 105 | 29.4 | 26.7 | 21.0 | 12.1 | 5.64 | | | | | | | | | | | | | | |
| 110 | 24.8 | 22.8 | 17.9 | 10.4 | 5.47 | | | | | | | | | | | | | | |
| 115 | 20.6 | 19.3 | 15.2 | 9.59 | 5.38 | | | | | | | | | | | | | | |
| 120 | 16.9 | 16.4 | 13.3 | 9.04 | 5.27 | | | | | | | | | | | | | | |
| 125 | 14.3 | 14.4 | 11.9 | 8.70 | 4.93 | | | | | | | | | | | | | | |
| 130 | 12.6 | 12.7 | 10.8 | 8.27 | 4.31 | | | | | | | | | | | | | | |
| 135 | 11.4 | 11.5 | 10.02 | 7.77 | 4.13 | | | | | | | | | | | | | | |
| 140 | 10.6 | 10.5 | 9.38 | 7.30 | 3.97 | | | | | | | | | | | | | | |
| 145 | 10.2 | 9.68 | 8.56 | 6.33 | 3.85 | | | | | | | | | | | | | | |
| 150 | 9.91 | 8.59 | 7.83 | 5.38 | 3.69 | | | | | | | | | | | | | | |
| 155 | 9.39 | 7.50 | 6.63 | 4.86 | 3.67 | | | | | | | | | | | | | | |
| 160 | 8.33 | 6.25 | 5.93 | 4.65 | 3.60 | | | | | | | | | | | | | | |
| 165 | 6.86 | 5.27 | 5.23 | 4.37 | 3.46 | | | | | | | | | | | | | | |
| 170 | 5.09 | 4.21 | 4.68 | 3.95 | 3.21 | | | | | | | | | | | | | | |
| 175 | 3.47 | 3.14 | 3.89 | 3.52 | 2.96 | | | | | | | | | | | | | | |
| 180 | 2.55 | 2.36 | 2.55 | 2.50 | 2.48 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:ZR
Test Date:2021-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:8.402m [K=1.0000]
Remarks: