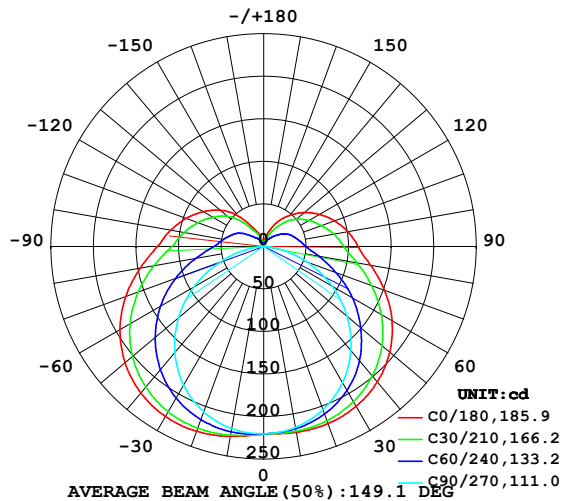


LUMINAIRE PHOTOMETRIC TEST REPORT

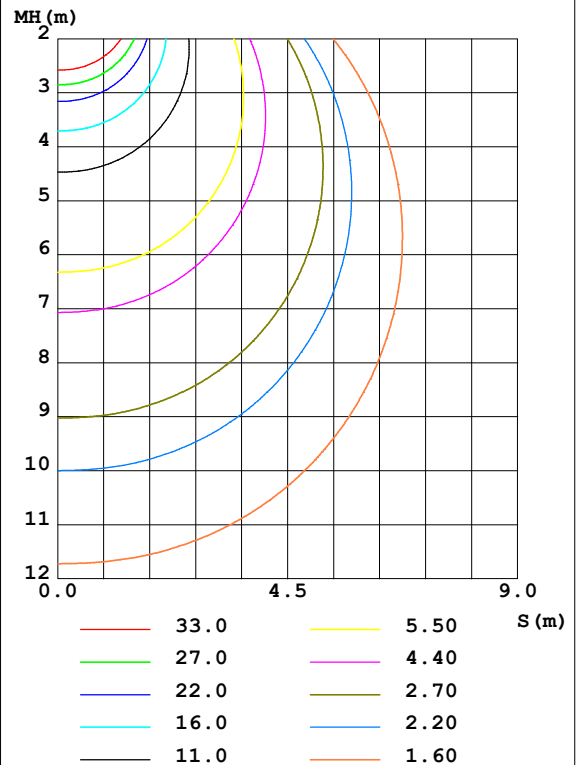
| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 119.82 lm/W | | | |
|-----------------------------|---------|-----------------------------------|---------|---------------------|------------|
| MODEL-ML13-600-10W-C3-3000K | | I _{max} (cd) | 231.7 | S/MH (C0/180) | 1.57 |
| NOMINAL POWER (W) | 10 | LOR (%) | 100.0 | S/MH (C90/270) | 1.27 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 1175.8 | η UP, DN (C0-180) | 10.9, 38.3 |
| NOMINAL FLUX (lm) | 1175.75 | CIE CLASS | SEMI-D. | η UP, DN (C180-360) | 11.2, 39.5 |
| LAMPS INSIDE | 1 | η up (%) | 22.2 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE (V) | 230 | η down (%) | 77.8 | CIBSE SHR MAX | 1.55 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

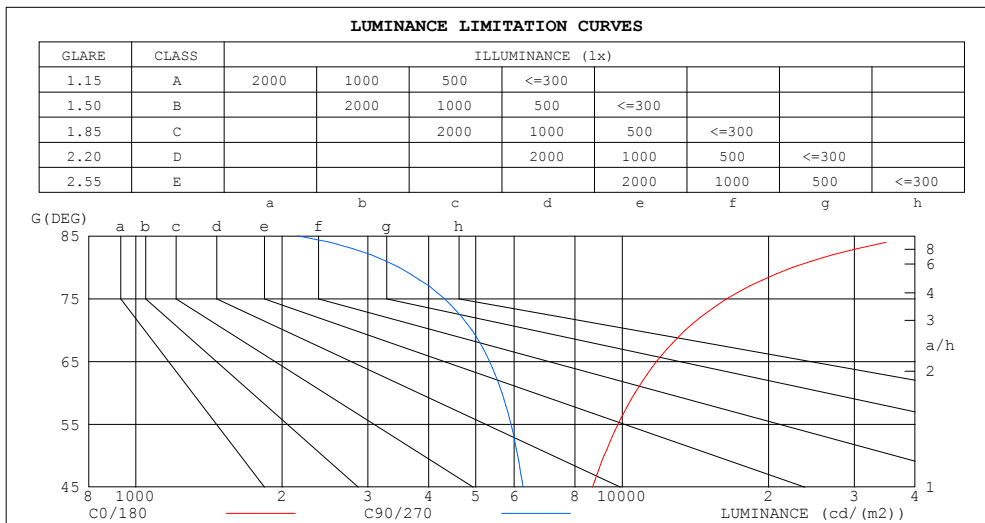
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 221.9 | 219.0 | 215.9 | 222.0 | 226.6 | 223.1 | 217.3 | 219.9 | 0- 10 | 21.09 | 21.09 | 1.79,1.79 |
| 20 | 221.5 | 213.7 | 204.0 | 219.4 | 231.1 | 221.9 | 206.6 | 215.1 | 10- 20 | 62.11 | 83.20 | 7.08,7.08 |
| 30 | 217.1 | 203.2 | 185.3 | 211.5 | 230.9 | 215.1 | 188.4 | 204.6 | 20- 30 | 98.33 | 181.5 | 15.4,15.4 |
| 40 | 207.8 | 187.0 | 159.5 | 197.9 | 224.8 | 202.2 | 162.6 | 188.1 | 30- 40 | 125.6 | 307.2 | 26.1,26.1 |
| 50 | 193.4 | 165.2 | 128.2 | 178.9 | 212.8 | 183.9 | 130.7 | 166.2 | 40- 50 | 140.7 | 447.9 | 38.1,38.1 |
| 60 | 174.2 | 139.9 | 92.48 | 155.4 | 195.0 | 160.6 | 94.28 | 138.8 | 50- 60 | 142.0 | 589.9 | 50.2,50.2 |
| 70 | 151.2 | 113.0 | 54.85 | 128.3 | 172.5 | 133.7 | 55.03 | 110.8 | 60- 70 | 130.2 | 720.2 | 61.3,61.3 |
| 80 | 127.8 | 88.60 | 19.72 | 100.8 | 147.6 | 106.0 | 18.80 | 85.02 | 70- 80 | 108.8 | 829.0 | 70.5,70.5 |
| 90 | 111.0 | 71.94 | 1.166 | 78.42 | 124.8 | 83.15 | 1.555 | 70.76 | 80- 90 | 86.09 | 915.1 | 77.8,77.8 |
| 100 | 100.6 | 63.12 | 1.142 | 67.15 | 111.1 | 71.77 | 1.004 | 61.86 | 90-100 | 72.09 | 987.2 | 84.84 |
| 110 | 88.66 | 54.16 | 1.265 | 57.76 | 97.10 | 61.08 | 1.434 | 50.49 | 100-110 | 60.78 | 1048 | 89.1,89.1 |
| 120 | 75.69 | 45.54 | 1.241 | 47.30 | 82.17 | 50.24 | 1.533 | 42.87 | 110-120 | 48.22 | 1096 | 93.2,93.2 |
| 130 | 62.20 | 35.52 | 1.459 | 36.18 | 66.36 | 37.32 | 1.508 | 35.87 | 120-130 | 35.81 | 1132 | 96.3,96.3 |
| 140 | 48.03 | 25.06 | 1.808 | 24.55 | 46.89 | 24.52 | 1.701 | 23.88 | 130-140 | 23.38 | 1155 | 98.3,98.3 |
| 150 | 33.91 | 15.32 | 2.069 | 15.63 | 25.65 | 14.54 | 1.932 | 15.75 | 140-150 | 12.51 | 1168 | 99.3,99.3 |
| 160 | 19.50 | 8.163 | 2.668 | 8.965 | 14.81 | 8.466 | 2.219 | 8.838 | 150-160 | 5.664 | 1174 | 99.8,99.8 |
| 170 | 7.685 | 3.984 | 2.780 | 4.212 | 4.233 | 3.990 | 2.730 | 4.081 | 160-170 | 1.896 | 1175 | 100,100 |
| 180 | 2.250 | 2.700 | 2.861 | 2.830 | 2.250 | 2.713 | 2.867 | 2.787 | 170-180 | 0.3263 | 1176 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |



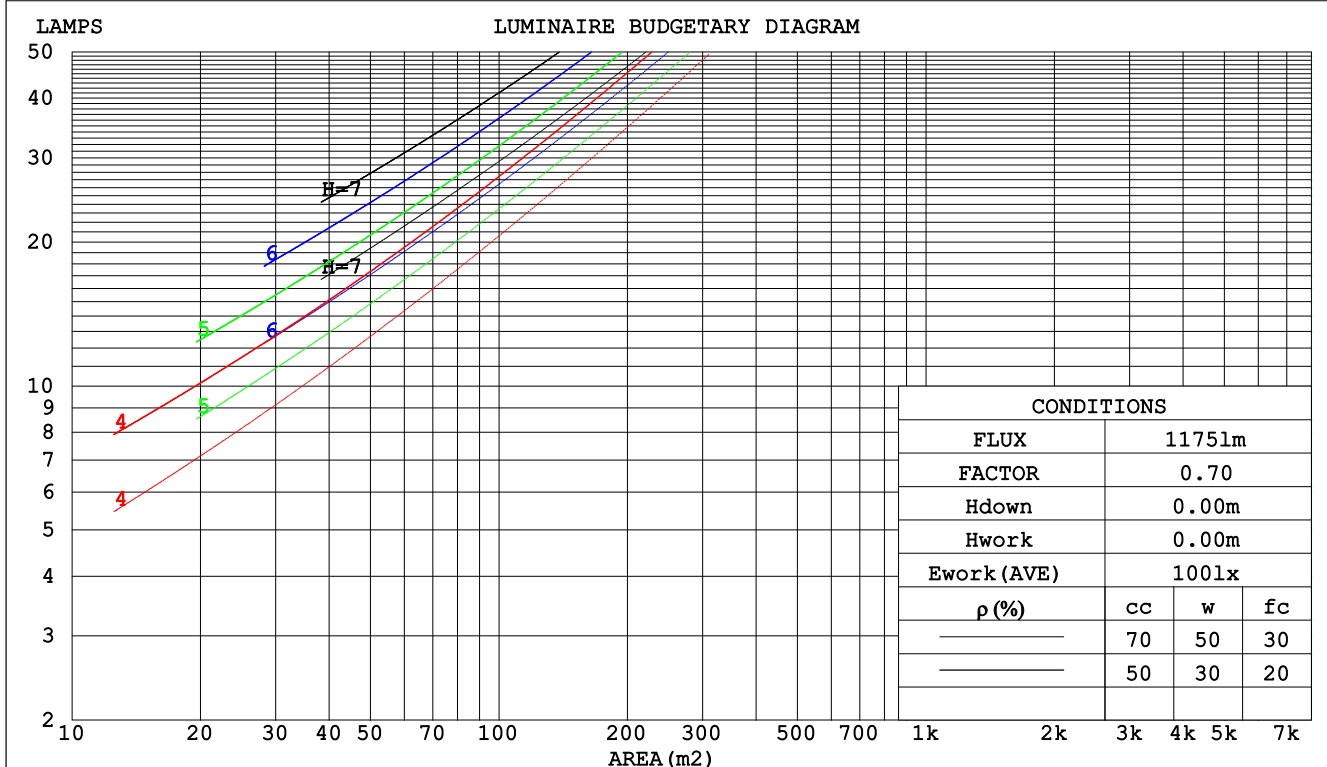
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | 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 | 1.14 | 1.14 | 1.14 | 1.09 | 1.09 | 1.09 | .99 | .99 | .99 | .90 | .90 | .90 | .82 | .82 | .82 | .78 |
| 1.0 | .95 | .89 | .85 | .90 | .85 | .81 | .82 | .78 | .74 | .74 | .71 | .68 | .67 | .65 | .62 | .59 |
| 2.0 | .81 | .73 | .66 | .77 | .70 | .64 | .70 | .64 | .59 | .63 | .58 | .54 | .57 | .53 | .50 | .46 |
| 3.0 | .70 | .61 | .54 | .67 | .59 | .52 | .61 | .54 | .48 | .55 | .49 | .45 | .49 | .45 | .41 | .38 |
| 4.0 | .61 | .52 | .45 | .59 | .50 | .43 | .53 | .46 | .40 | .48 | .42 | .37 | .44 | .39 | .35 | .31 |
| 5.0 | .54 | .45 | .38 | .52 | .43 | .37 | .47 | .40 | .34 | .43 | .37 | .32 | .39 | .34 | .29 | .27 |
| 6.0 | .49 | .39 | .33 | .46 | .38 | .32 | .42 | .35 | .30 | .39 | .32 | .28 | .35 | .30 | .26 | .23 |
| 7.0 | .44 | .35 | .28 | .42 | .33 | .28 | .38 | .31 | .26 | .35 | .29 | .24 | .32 | .27 | .22 | .20 |
| 8.0 | .40 | .31 | .25 | .38 | .30 | .24 | .35 | .28 | .23 | .32 | .26 | .21 | .29 | .24 | .20 | .18 |
| 9.0 | .36 | .28 | .22 | .35 | .27 | .22 | .32 | .25 | .20 | .29 | .23 | .19 | .27 | .22 | .18 | .16 |
| 10.0 | .33 | .25 | .20 | .32 | .24 | .19 | .29 | .23 | .18 | .27 | .21 | .17 | .25 | .20 | .16 | .14 |



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | | | | |
|----------------------------------------------------------------------------------|--|--|-------------|--|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | | | | |
| NAME: UP-ML13-600-10W-C3-3000K | | | TYPE:10W | | WEIGHT: |
| SPEC.:3000K | | | DIM.: | | SERIAL No.: |
| MFR.: | | | SUR.:0.0327 | | 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 | .384 | .218 | .069 | .370 | .211 | .067 | .344 | .197 | .063 | .320 | .184 | .059 | .297 | .172 | .056 | |
| 2.0 | .332 | .182 | .056 | .320 | .176 | .054 | .296 | .165 | .051 | .274 | .154 | .048 | .254 | .144 | .045 | |
| 3.0 | .295 | .157 | .047 | .284 | .152 | .046 | .262 | .142 | .043 | .242 | .133 | .041 | .224 | .124 | .038 | |
| 4.0 | .266 | .138 | .041 | .255 | .134 | .040 | .236 | .125 | .037 | .218 | .117 | .035 | .201 | .109 | .033 | |
| 5.0 | .242 | .123 | .036 | .232 | .119 | .035 | .214 | .112 | .033 | .198 | .104 | .031 | .182 | .097 | .029 | |
| 6.0 | .221 | .111 | .032 | .213 | .108 | .031 | .197 | .101 | .029 | .181 | .094 | .028 | .167 | .088 | .026 | |
| 7.0 | .204 | .101 | .029 | .196 | .098 | .028 | .181 | .092 | .026 | .167 | .086 | .025 | .154 | .080 | .024 | |
| 8.0 | .189 | .093 | .026 | .182 | .090 | .025 | .168 | .084 | .024 | .155 | .079 | .023 | .143 | .074 | .021 | |
| 9.0 | .176 | .085 | .024 | .170 | .083 | .023 | .157 | .078 | .022 | .145 | .073 | .021 | .134 | .068 | .020 | |
| 10.0 | .165 | .079 | .022 | .159 | .077 | .021 | .147 | .072 | .020 | .136 | .068 | .019 | .126 | .063 | .018 | |

| 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 | .359 | .359 | .359 | .307 | .307 | .307 | .210 | .210 | .210 | .120 | .120 | .120 | .039 | .039 | .039 | |
| 1.0 | .356 | .326 | .299 | .304 | .280 | .257 | .208 | .192 | .178 | .120 | .111 | .103 | .038 | .036 | .033 | |
| 2.0 | .349 | .303 | .265 | .299 | .261 | .229 | .205 | .181 | .160 | .118 | .105 | .094 | .038 | .034 | .030 | |
| 3.0 | .342 | .287 | .243 | .293 | .247 | .211 | .201 | .172 | .148 | .116 | .100 | .087 | .037 | .033 | .029 | |
| 4.0 | .334 | .274 | .229 | .287 | .237 | .199 | .197 | .165 | .140 | .114 | .097 | .083 | .037 | .032 | .027 | |
| 5.0 | .327 | .265 | .219 | .280 | .229 | .191 | .193 | .160 | .135 | .112 | .094 | .080 | .036 | .031 | .026 | |
| 6.0 | .319 | .257 | .212 | .274 | .223 | .185 | .189 | .156 | .131 | .110 | .092 | .078 | .035 | .030 | .026 | |
| 7.0 | .312 | .250 | .207 | .269 | .217 | .181 | .186 | .152 | .128 | .108 | .090 | .076 | .035 | .029 | .025 | |
| 8.0 | .306 | .245 | .203 | .263 | .212 | .177 | .182 | .149 | .126 | .106 | .088 | .075 | .034 | .029 | .025 | |
| 9.0 | .299 | .240 | .200 | .258 | .208 | .175 | .179 | .147 | .124 | .104 | .087 | .074 | .034 | .028 | .025 | |
| 10.0 | .293 | .236 | .198 | .253 | .205 | .173 | .176 | .144 | .123 | .102 | .085 | .073 | .033 | .028 | .024 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|----------------------------------------------------------------------------------|------------------|------|------|------|-------------|----------------|------|------------------|------|------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | | | | | | | | | |
| NAME: UP-ML13-600-10W-C3-3000K | | | | | TYPE:10W | | | WEIGHT: | | |
| SPEC.:3000K | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: | | | | | SUR.:0.0327 | | | 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 | 19.8 | 21.1 | 20.3 | 21.7 | 22.3 | 17.3 | 18.7 | 17.9 | 19.2 | 19.9 |
| 3H | 22.4 | 23.6 | 23.0 | 24.2 | 24.9 | 18.8 | 20.0 | 19.4 | 20.6 | 21.3 |
| 4H | 23.9 | 25.0 | 24.5 | 25.6 | 26.3 | 19.3 | 20.5 | 20.0 | 21.1 | 21.8 |
| 6H | 25.5 | 26.5 | 26.1 | 27.2 | 27.9 | 19.7 | 20.8 | 20.4 | 21.5 | 22.2 |
| 8H | 26.3 | 27.4 | 27.0 | 28.0 | 28.8 | 19.8 | 20.9 | 20.5 | 21.5 | 22.3 |
| 12H | 27.4 | 28.4 | 28.0 | 29.1 | 29.8 | 19.9 | 20.9 | 20.5 | 21.5 | 22.3 |
| 4H 2H | 20.3 | 21.5 | 20.9 | 22.1 | 22.8 | 18.5 | 19.7 | 19.1 | 20.3 | 21.0 |
| 3H | 23.2 | 24.2 | 23.8 | 24.9 | 25.6 | 20.3 | 21.3 | 20.9 | 21.9 | 22.7 |
| 4H | 24.8 | 25.8 | 25.5 | 26.4 | 27.2 | 21.0 | 22.0 | 21.7 | 22.6 | 23.4 |
| 6H | 26.6 | 27.5 | 27.3 | 28.2 | 29.0 | 21.6 | 22.5 | 22.3 | 23.2 | 24.0 |
| 8H | 27.7 | 28.4 | 28.4 | 29.1 | 30.0 | 21.8 | 22.6 | 22.6 | 23.3 | 24.2 |
| 12H | 28.8 | 29.6 | 29.6 | 30.3 | 31.1 | 22.0 | 22.7 | 22.7 | 23.4 | 24.3 |
| 8H 4H | 25.1 | 25.9 | 25.8 | 26.6 | 27.5 | 22.1 | 22.9 | 22.8 | 23.6 | 24.5 |
| 6H | 27.3 | 27.9 | 28.0 | 28.7 | 29.5 | 23.2 | 23.8 | 23.9 | 24.6 | 25.4 |
| 8H | 28.5 | 29.1 | 29.3 | 29.9 | 30.7 | 23.6 | 24.2 | 24.4 | 25.0 | 25.8 |
| 12H | 29.9 | 30.5 | 30.7 | 31.2 | 32.1 | 24.0 | 24.5 | 24.7 | 25.3 | 26.2 |
| 12H 4H | 25.2 | 25.9 | 25.9 | 26.6 | 27.5 | 22.5 | 23.2 | 23.2 | 24.0 | 24.8 |
| 6H | 27.4 | 28.0 | 28.1 | 28.7 | 29.6 | 23.8 | 24.4 | 24.5 | 25.1 | 26.0 |
| 8H | 28.7 | 29.2 | 29.5 | 30.0 | 30.9 | 24.4 | 24.9 | 25.2 | 25.7 | 26.6 |
| 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 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117, 1176 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.6$)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

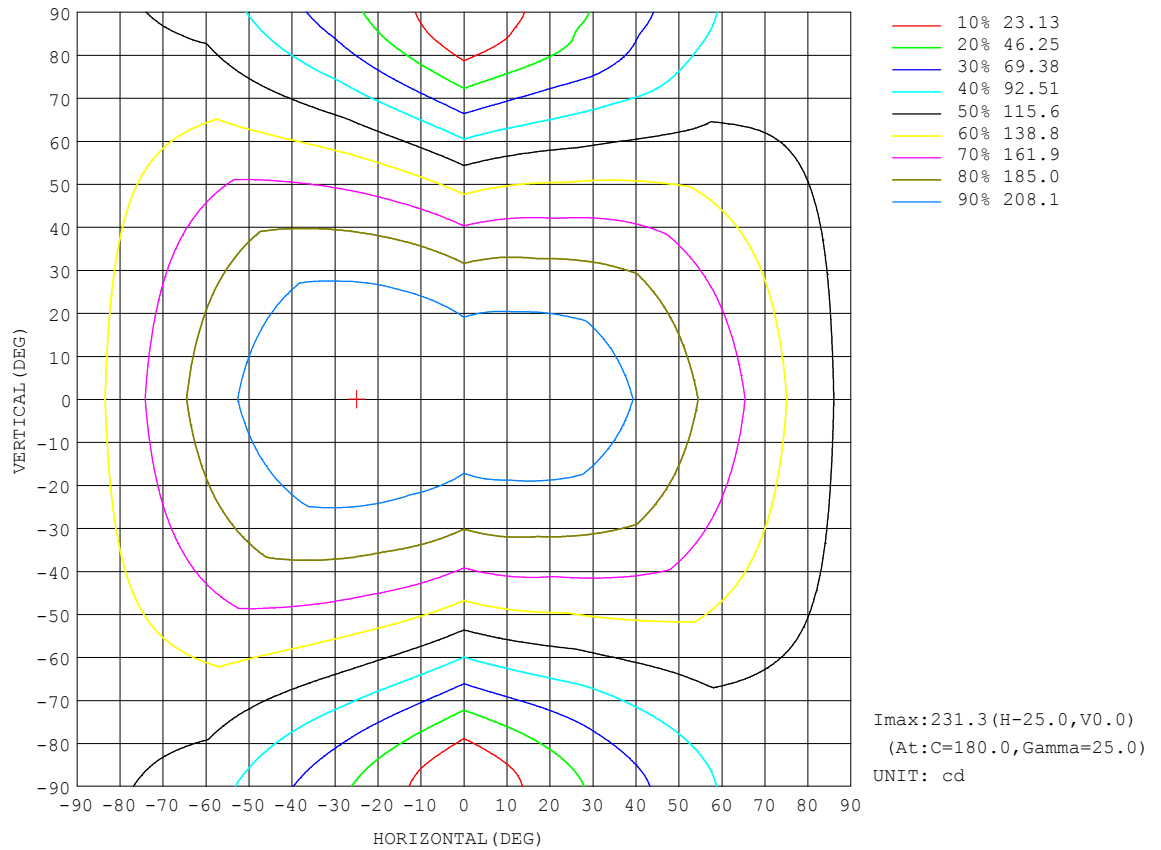
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |

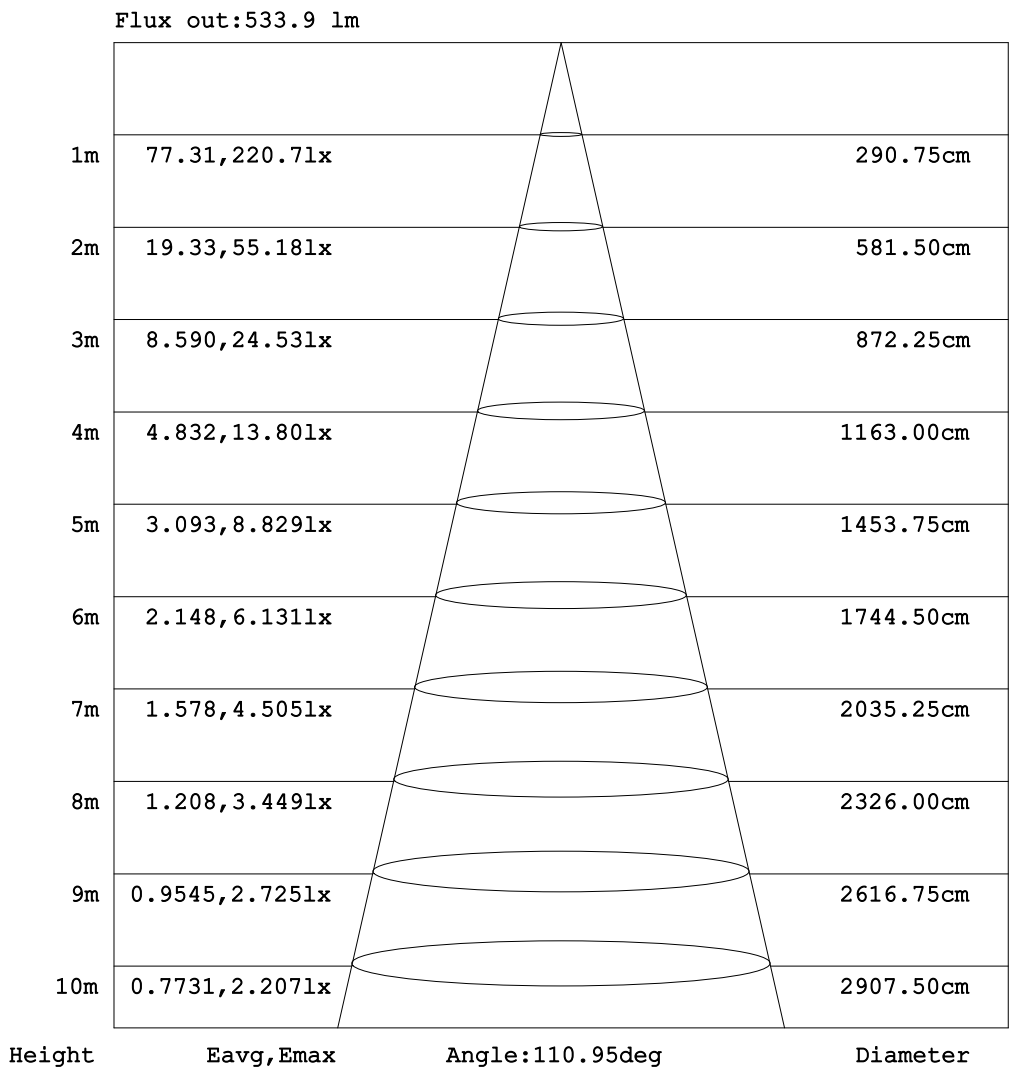


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

AAI Figure

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |



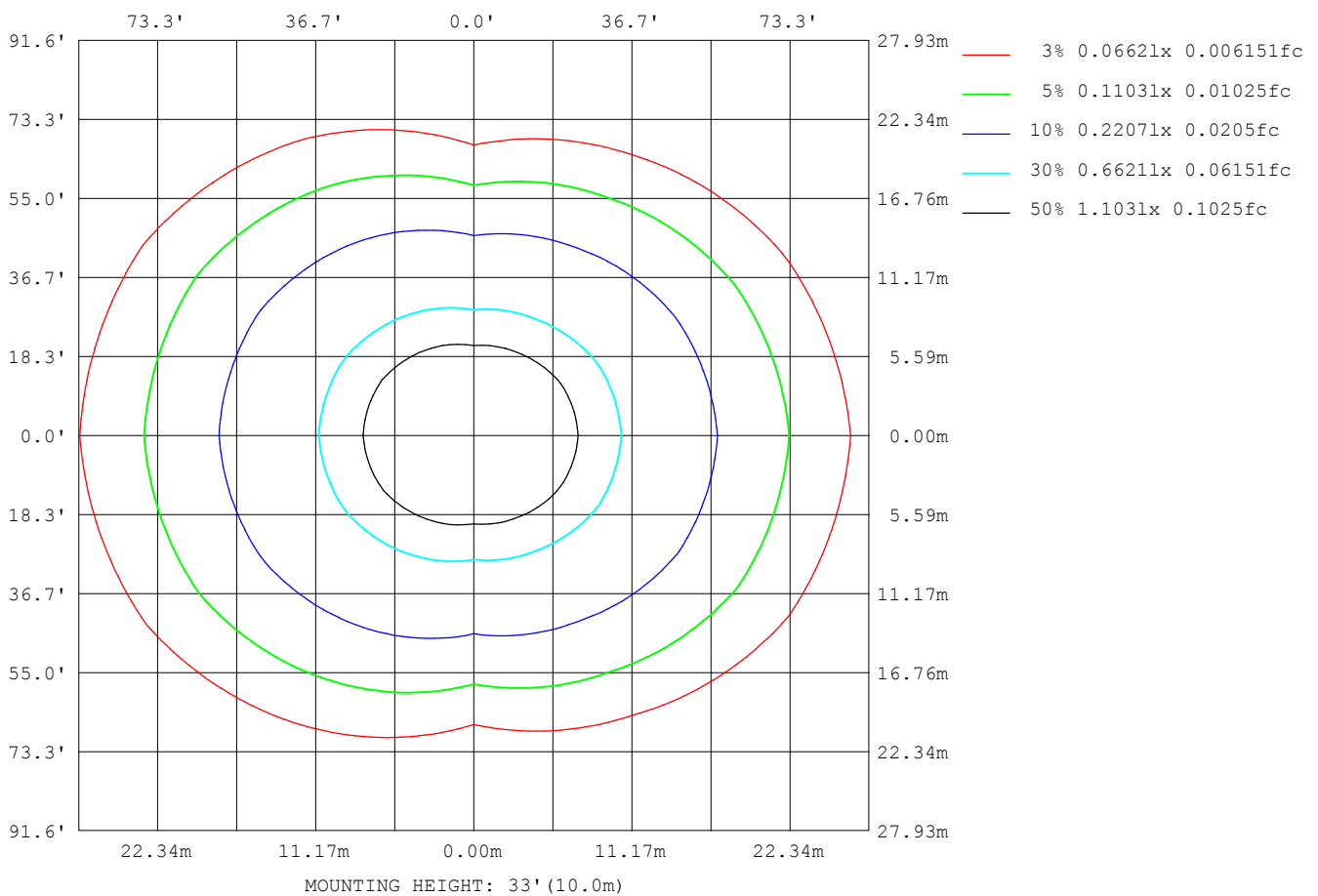
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |

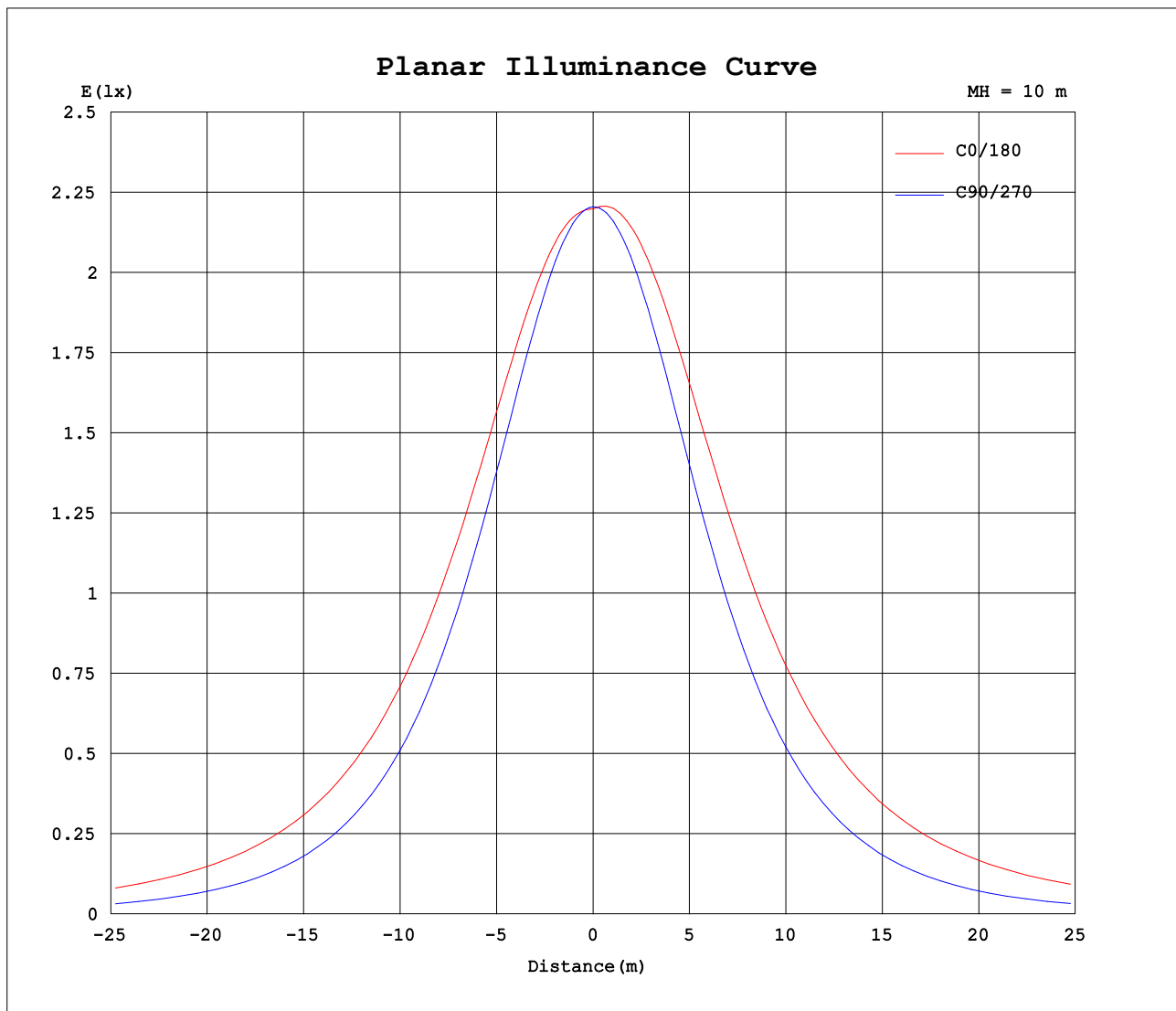
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 12568 |
| L_0~180 (75) av | 17684 |
| L_0~180 (85) av | 44409 |
| L_90~270 (65) av | 5371 |
| L_90~270 (75) av | 4272 |
| L_90~270 (85) av | 2120 |
| L_45 (65) av | 9888 |
| L_45 (75) av | 12955 |
| L_45 (85) av | 30413 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|----------------------------------------------------------------------------------|-------------|------------------|
| Test:U:230.43V I:0.0485A P:9.8125W PF:0.8787 Freq:49.99Hz Lamp Flux:1175.75x1 lm | | |
| NAME: UP-ML13-600-10W-C3-3000K | TYPE:10W | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.: |
| MFR.: | SUR.:0.0327 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | | | | | | | |
| 5 | 221 | 220 | 219 | 219 | 221 | 223 | 223 | 223 | 221 | 220 | 220 | 221 | | | | | | | |
| 10 | 222 | 220 | 218 | 216 | 220 | 224 | 227 | 225 | 221 | 217 | 219 | 221 | | | | | | | |
| 15 | 222 | 220 | 214 | 211 | 217 | 225 | 229 | 227 | 220 | 213 | 216 | 220 | | | | | | | |
| 20 | 222 | 218 | 210 | 204 | 214 | 225 | 231 | 227 | 217 | 207 | 212 | 219 | | | | | | | |
| 25 | 220 | 215 | 203 | 195 | 208 | 224 | 232 | 227 | 212 | 199 | 205 | 216 | | | | | | | |
| 30 | 217 | 211 | 196 | 185 | 202 | 221 | 231 | 224 | 206 | 188 | 198 | 212 | | | | | | | |
| 35 | 213 | 205 | 186 | 173 | 193 | 217 | 229 | 221 | 198 | 176 | 188 | 206 | | | | | | | |
| 40 | 208 | 199 | 175 | 160 | 184 | 212 | 225 | 216 | 189 | 163 | 177 | 199 | | | | | | | |
| 45 | 201 | 191 | 163 | 144 | 173 | 205 | 220 | 209 | 178 | 147 | 165 | 191 | | | | | | | |
| 50 | 193 | 182 | 149 | 128 | 161 | 197 | 213 | 201 | 167 | 131 | 151 | 181 | | | | | | | |
| 55 | 184 | 171 | 135 | 111 | 148 | 187 | 204 | 192 | 154 | 113 | 137 | 169 | | | | | | | |
| 60 | 174 | 159 | 120 | 92.5 | 134 | 177 | 195 | 181 | 140 | 94.3 | 122 | 156 | | | | | | | |
| 65 | 163 | 148 | 106 | 73.7 | 119 | 165 | 184 | 170 | 125 | 74.7 | 106 | 143 | | | | | | | |
| 70 | 151 | 135 | 90.8 | 54.8 | 104 | 152 | 173 | 157 | 110 | 55.0 | 91.2 | 130 | | | | | | | |
| 75 | 139 | 123 | 77.3 | 36.4 | 89.2 | 139 | 160 | 144 | 95.4 | 35.9 | 75.1 | 119 | | | | | | | |
| 80 | 128 | 111 | 65.8 | 19.7 | 75.0 | 127 | 148 | 131 | 81.1 | 18.8 | 60.3 | 110 | | | | | | | |
| 85 | 118 | 101 | 56.2 | 6.14 | 62.6 | 115 | 135 | 119 | 68.3 | 5.95 | 52.9 | 101 | | | | | | | |
| 90 | 111 | 94.4 | 49.5 | 1.17 | 52.8 | 104 | 125 | 108 | 58.4 | 1.55 | 47.4 | 94.1 | | | | | | | |
| 95 | 106 | 89.5 | 45.7 | 1.44 | 47.5 | 97.1 | 118 | 101 | 52.9 | 1.29 | 43.4 | 89.1 | | | | | | | |
| 100 | 101 | 84.0 | 42.3 | 1.14 | 43.4 | 90.9 | 111 | 95.2 | 48.4 | 1.00 | 39.8 | 84.0 | | | | | | | |
| 105 | 94.8 | 78.3 | 39.2 | 1.45 | 39.9 | 84.9 | 104 | 88.8 | 43.9 | 1.23 | 35.0 | 78.7 | | | | | | | |
| 110 | 88.7 | 72.1 | 36.3 | 1.26 | 36.6 | 78.9 | 97.1 | 82.2 | 40.0 | 1.43 | 30.2 | 70.8 | | | | | | | |
| 115 | 82.3 | 66.7 | 33.3 | 1.20 | 33.0 | 72.8 | 89.7 | 75.7 | 36.4 | 1.51 | 24.4 | 62.8 | | | | | | | |
| 120 | 75.7 | 61.7 | 29.5 | 1.24 | 28.0 | 66.6 | 82.2 | 69.0 | 31.6 | 1.53 | 26.1 | 59.6 | | | | | | | |
| 125 | 69.1 | 55.8 | 26.0 | 1.32 | 22.8 | 60.4 | 74.5 | 62.3 | 25.5 | 1.51 | 24.7 | 55.1 | | | | | | | |
| 130 | 62.2 | 49.9 | 21.2 | 1.46 | 19.0 | 53.4 | 66.4 | 55.2 | 19.5 | 1.51 | 21.8 | 50.0 | | | | | | | |
| 135 | 55.2 | 43.9 | 17.3 | 1.62 | 16.4 | 44.7 | 57.6 | 46.3 | 15.4 | 1.59 | 18.0 | 44.1 | | | | | | | |
| 140 | 48.0 | 36.1 | 14.1 | 1.81 | 14.3 | 34.8 | 46.9 | 36.0 | 13.1 | 1.70 | 14.8 | 32.9 | | | | | | | |
| 145 | 41.0 | 28.7 | 11.3 | 1.96 | 12.2 | 26.3 | 35.2 | 26.4 | 11.2 | 1.83 | 12.0 | 28.0 | | | | | | | |
| 150 | 33.9 | 21.7 | 8.97 | 2.07 | 10.5 | 20.8 | 25.6 | 20.0 | 9.05 | 1.93 | 9.60 | 21.9 | | | | | | | |
| 155 | 26.7 | 15.8 | 7.01 | 2.19 | 6.78 | 16.5 | 19.6 | 15.9 | 6.33 | 2.08 | 7.13 | 16.9 | | | | | | | |
| 160 | 19.5 | 11.0 | 5.37 | 2.67 | 5.29 | 12.6 | 14.8 | 12.1 | 4.87 | 2.22 | 5.48 | 12.2 | | | | | | | |
| 165 | 13.6 | 7.20 | 4.62 | 2.74 | 4.28 | 7.77 | 9.64 | 7.42 | 3.98 | 2.52 | 4.22 | 8.00 | | | | | | | |
| 170 | 7.68 | 4.13 | 3.84 | 2.78 | 3.61 | 4.81 | 4.23 | 4.58 | 3.40 | 2.73 | 3.57 | 4.59 | | | | | | | |
| 175 | 2.98 | 2.75 | 3.20 | 2.86 | 3.15 | 3.24 | 2.70 | 3.22 | 2.99 | 2.85 | 3.02 | 3.19 | | | | | | | |
| 180 | 2.25 | 2.55 | 2.85 | 2.86 | 2.90 | 2.76 | 2.25 | 2.63 | 2.80 | 2.87 | 2.87 | 2.71 | | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.405.8
Humidity:65.0%
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Remarks: