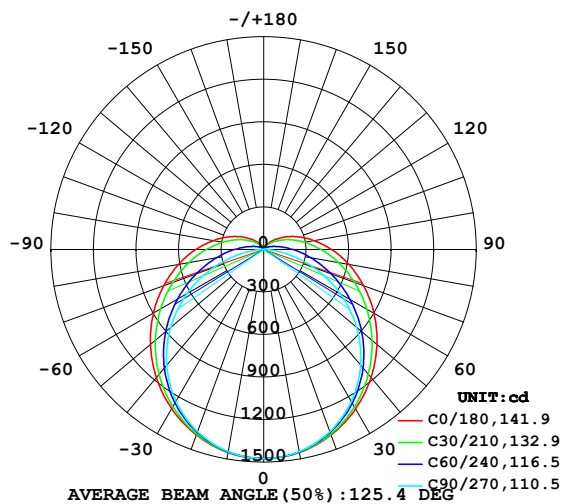


LUMINAIRE PHOTOMETRIC TEST REPORT

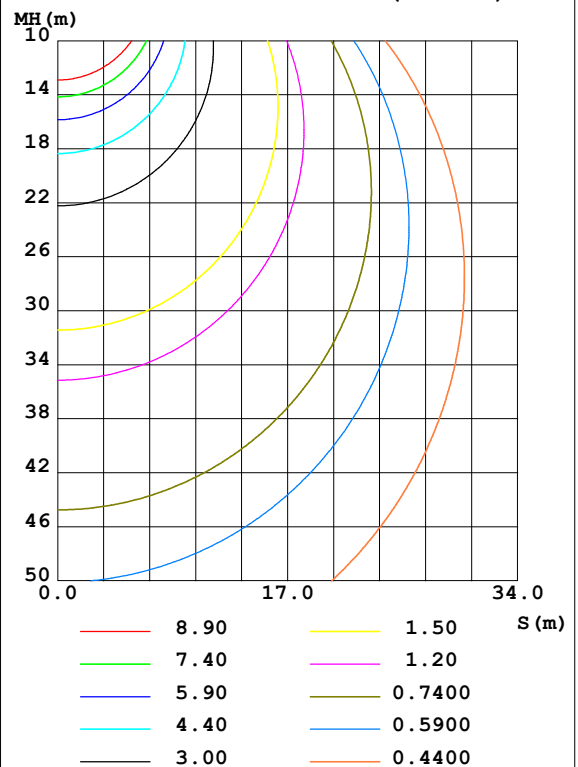
| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 161.41 lm/W | | | |
|------------------|--------|-----------------------------------|---------|-------------------|----------|
| MODEL | | I _{max} (cd) | 1475 | S/MH (C0/180) | 1.31 |
| NOMINAL POWER(W) | 36 | LOR(%) | 100.0 | S/MH (C90/270) | 1.25 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 5719.2 | η UP,DN(C0-180) | 5.9,44.1 |
| NOMINAL FLUX(lm) | 5719.2 | CIE CLASS | SEMI-D. | η UP,DN(C180-360) | 5.9,44.1 |
| LAMPS INSIDE | 1 | η up(%) | 11.8 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 230 | η down(%) | 88.2 | 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:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [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 | 1453 | 1450 | 1447 | 1450 | 1453 | 1450 | 1447 | 1450 | 0- 10 | 139.6 | 139.6 | 2.44,2.44 |
| 20 | 1392 | 1379 | 1367 | 1379 | 1392 | 1379 | 1367 | 1379 | 10- 20 | 401.0 | 540.6 | 9.45,9.45 |
| 30 | 1297 | 1266 | 1237 | 1266 | 1297 | 1266 | 1237 | 1266 | 20- 30 | 612.1 | 1153 | 20.2,20.2 |
| 40 | 1178 | 1119 | 1064 | 1119 | 1178 | 1119 | 1064 | 1119 | 30- 40 | 749.3 | 1902 | 33.3,33.3 |
| 50 | 1043 | 951.3 | 856.8 | 951.3 | 1043 | 951.3 | 856.8 | 951.3 | 40- 50 | 801.0 | 2703 | 47.3,47.3 |
| 60 | 898.4 | 774.9 | 624.2 | 774.9 | 898.4 | 774.9 | 624.2 | 774.9 | 50- 60 | 769.4 | 3472 | 60.7,60.7 |
| 70 | 751.0 | 603.8 | 376.7 | 603.8 | 751.0 | 603.8 | 376.7 | 603.8 | 60- 70 | 669.3 | 4142 | 72.4,72.4 |
| 80 | 609.3 | 448.8 | 140.9 | 448.8 | 609.3 | 448.8 | 140.9 | 448.8 | 70- 80 | 526.7 | 4668 | 81.6,81.6 |
| 90 | 478.6 | 318.1 | 2.884 | 318.1 | 478.6 | 318.1 | 2.884 | 318.1 | 80- 90 | 378.3 | 5047 | 88.2,88.2 |
| 100 | 363.4 | 215.4 | 4.088 | 215.4 | 363.4 | 215.4 | 4.088 | 215.4 | 90-100 | 261.1 | 5308 | 92.8,92.8 |
| 110 | 263.5 | 134.6 | 5.676 | 134.6 | 263.5 | 134.6 | 5.676 | 134.6 | 100-110 | 174.2 | 5482 | 95.9,95.9 |
| 120 | 178.6 | 84.77 | 7.347 | 84.77 | 178.6 | 84.77 | 7.347 | 84.77 | 110-120 | 109.1 | 5591 | 97.8,97.8 |
| 130 | 112.6 | 47.40 | 8.965 | 47.40 | 112.6 | 47.40 | 8.965 | 47.40 | 120-130 | 62.91 | 5654 | 98.9,98.9 |
| 140 | 66.06 | 28.66 | 10.57 | 28.66 | 66.06 | 28.66 | 10.57 | 28.66 | 130-140 | 33.34 | 5687 | 99.4,99.4 |
| 150 | 37.29 | 19.69 | 12.21 | 19.69 | 37.29 | 19.69 | 12.21 | 19.69 | 140-150 | 17.12 | 5704 | 99.7,99.7 |
| 160 | 22.52 | 16.37 | 13.70 | 16.37 | 22.52 | 16.37 | 13.70 | 16.37 | 150-160 | 8.828 | 5713 | 99.9,99.9 |
| 170 | 16.19 | 15.15 | 14.57 | 15.15 | 16.19 | 15.15 | 14.57 | 15.15 | 160-170 | 4.492 | 5718 | 100,100 |
| 180 | 13.99 | 15.01 | 15.14 | 15.01 | 13.99 | 15.01 | 15.14 | 15.01 | 170-180 | 1.427 | 5719 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 2301.4 lm

%lum = 40.2%

%lamp = 40.2%

Conical surface Flux(120deg): 3472.4 lm

%lum = 60.7%

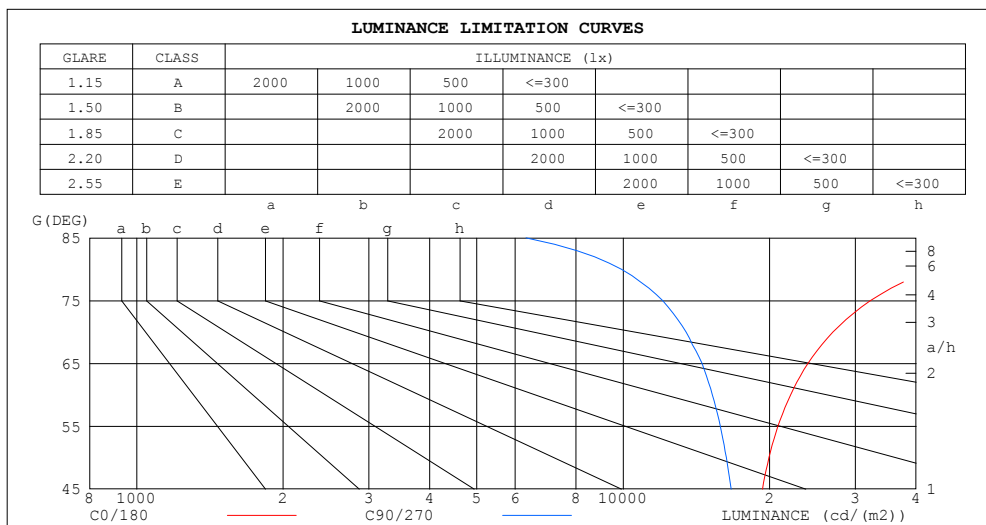
%lamp = 60.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 76528 | 6309 |
| 80 | 43134 | 9920 |
| 75 | 32245 | 12052 |
| 70 | 26994 | 13461 |
| 65 | 23978 | 14519 |
| 60 | 22087 | 15258 |
| 55 | 20819 | 15832 |
| 50 | 19947 | 16292 |
| 45 | 19339 | 16669 |

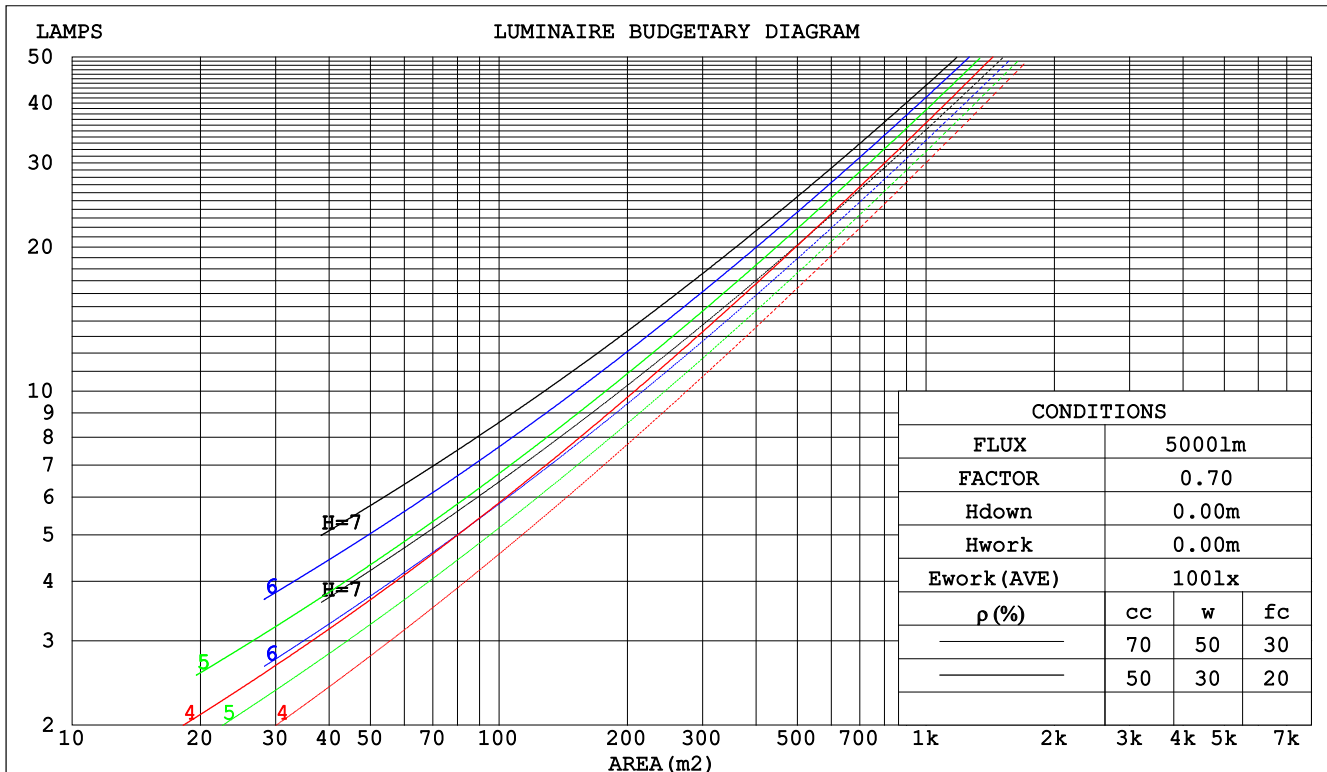
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| p _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| p _{fc} | 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 | .91 | .91 | .91 | .88 |
| 1.0 | .98 | .93 | .88 | .94 | .90 | .85 | .88 | .84 | .80 | .82 | .79 | .76 | .76 | .74 | .72 | .69 |
| 2.0 | .84 | .76 | .70 | .81 | .74 | .68 | .75 | .70 | .65 | .70 | .66 | .61 | .66 | .62 | .58 | .55 |
| 3.0 | .73 | .64 | .57 | .71 | .62 | .56 | .66 | .59 | .53 | .61 | .56 | .51 | .57 | .53 | .48 | .46 |
| 4.0 | .64 | .55 | .48 | .62 | .53 | .47 | .58 | .51 | .45 | .54 | .48 | .43 | .51 | .45 | .41 | .38 |
| 5.0 | .57 | .48 | .41 | .55 | .47 | .40 | .52 | .44 | .38 | .49 | .42 | .37 | .46 | .40 | .35 | .33 |
| 6.0 | .51 | .42 | .35 | .50 | .41 | .35 | .47 | .39 | .33 | .44 | .37 | .32 | .41 | .35 | .31 | .29 |
| 7.0 | .46 | .37 | .31 | .45 | .36 | .30 | .42 | .35 | .29 | .40 | .33 | .28 | .38 | .32 | .27 | .25 |
| 8.0 | .42 | .33 | .27 | .41 | .33 | .27 | .39 | .31 | .26 | .36 | .30 | .25 | .34 | .29 | .24 | .22 |
| 9.0 | .39 | .30 | .25 | .38 | .30 | .24 | .35 | .28 | .23 | .34 | .27 | .23 | .32 | .26 | .22 | .20 |
| 10.0 | .36 | .27 | .22 | .35 | .27 | .22 | .33 | .26 | .21 | .31 | .25 | .21 | .29 | .24 | .20 | .18 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | | | | | | | | |
|---|--|--|--|--|-------|--|--|------------------|--|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | | | | | | | | |
| NAME: Ti60LE-CC-36-1200K-40H | | | | | TYPE: | | | WEIGHT: | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | |
| MFR.: ERVAN | | | | | 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 | .373 | .212 | .067 | .362 | .207 | .066 | .342 | .196 | .063 | .323 | .187 | .060 | .306 | .178 | .057 | |
| 2.0 | .327 | .179 | .055 | .317 | .175 | .054 | .299 | .166 | .052 | .282 | .158 | .050 | .267 | .151 | .048 | |
| 3.0 | .292 | .156 | .047 | .284 | .152 | .046 | .267 | .145 | .044 | .252 | .138 | .042 | .238 | .132 | .041 | |
| 4.0 | .264 | .137 | .040 | .256 | .134 | .040 | .242 | .128 | .038 | .228 | .122 | .037 | .215 | .117 | .036 | |
| 5.0 | .241 | .123 | .036 | .234 | .120 | .035 | .220 | .115 | .034 | .208 | .110 | .033 | .196 | .105 | .032 | |
| 6.0 | .221 | .111 | .032 | .215 | .108 | .031 | .203 | .104 | .030 | .191 | .099 | .029 | .181 | .095 | .028 | |
| 7.0 | .204 | .101 | .029 | .198 | .099 | .028 | .187 | .095 | .027 | .177 | .091 | .026 | .167 | .087 | .026 | |
| 8.0 | .190 | .093 | .026 | .184 | .091 | .026 | .174 | .087 | .025 | .165 | .084 | .024 | .156 | .080 | .023 | |
| 9.0 | .177 | .086 | .024 | .172 | .084 | .024 | .163 | .081 | .023 | .154 | .077 | .022 | .146 | .074 | .021 | |
| 10.0 | .166 | .079 | .022 | .161 | .078 | .022 | .153 | .075 | .021 | .145 | .072 | .020 | .137 | .069 | .020 | |

| 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 | .280 | .280 | .280 | .239 | .239 | .239 | .163 | .163 | .163 | .094 | .094 | .094 | .030 | .030 | .030 | |
| 1.0 | .275 | .246 | .220 | .235 | .211 | .189 | .161 | .145 | .131 | .093 | .084 | .076 | .030 | .027 | .025 | |
| 2.0 | .268 | .223 | .185 | .229 | .192 | .160 | .157 | .133 | .111 | .091 | .077 | .065 | .029 | .025 | .021 | |
| 3.0 | .260 | .206 | .163 | .223 | .178 | .141 | .153 | .123 | .099 | .088 | .072 | .058 | .028 | .023 | .019 | |
| 4.0 | .252 | .193 | .148 | .217 | .167 | .128 | .149 | .116 | .090 | .086 | .068 | .054 | .028 | .022 | .018 | |
| 5.0 | .245 | .183 | .138 | .210 | .158 | .120 | .145 | .111 | .085 | .084 | .065 | .050 | .027 | .021 | .017 | |
| 6.0 | .237 | .175 | .130 | .204 | .152 | .114 | .141 | .106 | .080 | .082 | .062 | .048 | .026 | .020 | .016 | |
| 7.0 | .230 | .168 | .125 | .198 | .146 | .109 | .137 | .102 | .077 | .079 | .060 | .046 | .026 | .020 | .015 | |
| 8.0 | .223 | .163 | .121 | .192 | .141 | .106 | .133 | .099 | .075 | .077 | .058 | .045 | .025 | .019 | .015 | |
| 9.0 | .217 | .158 | .118 | .187 | .137 | .103 | .130 | .096 | .073 | .076 | .057 | .044 | .024 | .019 | .014 | |
| 10.0 | .211 | .154 | .115 | .182 | .133 | .101 | .126 | .094 | .071 | .074 | .056 | .043 | .024 | .018 | .014 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|---------------|------------------|------|------|------|---------------|----------------|------------------|------|------|------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | | | | | | | | | | |
| NAME: Ti60LE-CC-36-1200K-40H | | | | | | TYPE: | | WEIGHT: | | | |
| SPEC.: | | | | | | DIM.: | | SERIAL No.: | | | |
| MFR.: ERVAN | | | | | | 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 | | 16.9 | 18.3 | 17.3 | 18.7 | 19.2 | 15.3 | 16.8 | 15.8 | 17.2 | 17.6 |
| | 3H | 19.4 | 20.7 | 19.8 | 21.1 | 21.6 | 16.8 | 18.1 | 17.3 | 18.6 | 19.1 |
| | 4H | 20.7 | 22.0 | 21.2 | 22.4 | 22.9 | 17.4 | 18.6 | 17.8 | 19.1 | 19.6 |
| | 6H | 22.2 | 23.4 | 22.7 | 23.9 | 24.4 | 17.7 | 18.9 | 18.2 | 19.4 | 19.9 |
| | 8H | 23.0 | 24.2 | 23.5 | 24.7 | 25.2 | 17.8 | 19.0 | 18.4 | 19.5 | 20.0 |
| | 12H | 24.0 | 25.1 | 24.5 | 25.6 | 26.1 | 17.9 | 19.0 | 18.4 | 19.5 | 20.0 |
| 4H | 2H | 17.5 | 18.7 | 17.9 | 19.2 | 19.7 | 16.3 | 17.6 | 16.8 | 18.0 | 18.5 |
| | 3H | 20.2 | 21.3 | 20.7 | 21.8 | 22.3 | 18.0 | 19.1 | 18.6 | 19.6 | 20.2 |
| | 4H | 21.7 | 22.7 | 22.3 | 23.3 | 23.8 | 18.8 | 19.8 | 19.3 | 20.3 | 20.9 |
| | 6H | 23.4 | 24.3 | 24.0 | 24.9 | 25.5 | 19.3 | 20.2 | 19.9 | 20.8 | 21.4 |
| | 8H | 24.4 | 25.2 | 25.0 | 25.8 | 26.4 | 19.5 | 20.4 | 20.1 | 20.9 | 21.6 |
| | 12H | 25.5 | 26.3 | 26.1 | 26.8 | 27.5 | 19.6 | 20.4 | 20.2 | 21.0 | 21.6 |
| 8H | 4H | 22.1 | 22.9 | 22.6 | 23.5 | 24.1 | 19.7 | 20.5 | 20.3 | 21.1 | 21.7 |
| | 6H | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 | 20.6 | 21.3 | 21.2 | 21.9 | 22.6 |
| | 8H | 25.2 | 25.9 | 25.9 | 26.5 | 27.2 | 21.0 | 21.6 | 21.6 | 22.2 | 22.9 |
| | 12H | 26.6 | 27.1 | 27.2 | 27.8 | 28.5 | 21.2 | 21.8 | 21.9 | 22.5 | 23.2 |
| 12H | 4H | 22.1 | 22.9 | 22.7 | 23.5 | 24.1 | 20.0 | 20.7 | 20.6 | 21.3 | 22.0 |
| | 6H | 24.2 | 24.8 | 24.8 | 25.4 | 26.1 | 21.1 | 21.7 | 21.7 | 22.4 | 23.1 |
| | 8H | 25.4 | 26.0 | 26.1 | 26.7 | 27.4 | 21.6 | 22.2 | 22.3 | 22.8 | 23.6 |
| 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 / - 0.4 | | | | | + 0.2 / - 0.3 | | | | | |

CIE Pub.117, 5719 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.1$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 51 | 38 | 31 | 50 | 38 | 31 | 48 | 37 | 31 | 24 |
| 0.80 | 60 | 47 | 39 | 59 | 47 | 39 | 56 | 45 | 38 | 31 |
| 1.00 | 68 | 55 | 47 | 66 | 54 | 47 | 63 | 55 | 46 | 38 |
| 1.25 | 75 | 63 | 54 | 73 | 61 | 54 | 69 | 59 | 52 | 44 |
| 1.50 | 80 | 68 | 60 | 77 | 67 | 59 | 73 | 64 | 57 | 48 |
| 2.00 | 87 | 76 | 68 | 84 | 75 | 67 | 79 | 71 | 65 | 55 |
| 2.50 | 91 | 82 | 74 | 88 | 80 | 73 | 83 | 76 | 70 | 59 |
| 3.00 | 95 | 86 | 79 | 92 | 84 | 77 | 86 | 80 | 74 | 62 |
| 4.00 | 99 | 92 | 86 | 96 | 89 | 84 | 90 | 84 | 80 | 67 |
| 5.00 | 102 | 96 | 90 | 99 | 93 | 88 | 92 | 88 | 83 | 70 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | Suspended | | | | SHRNM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-18

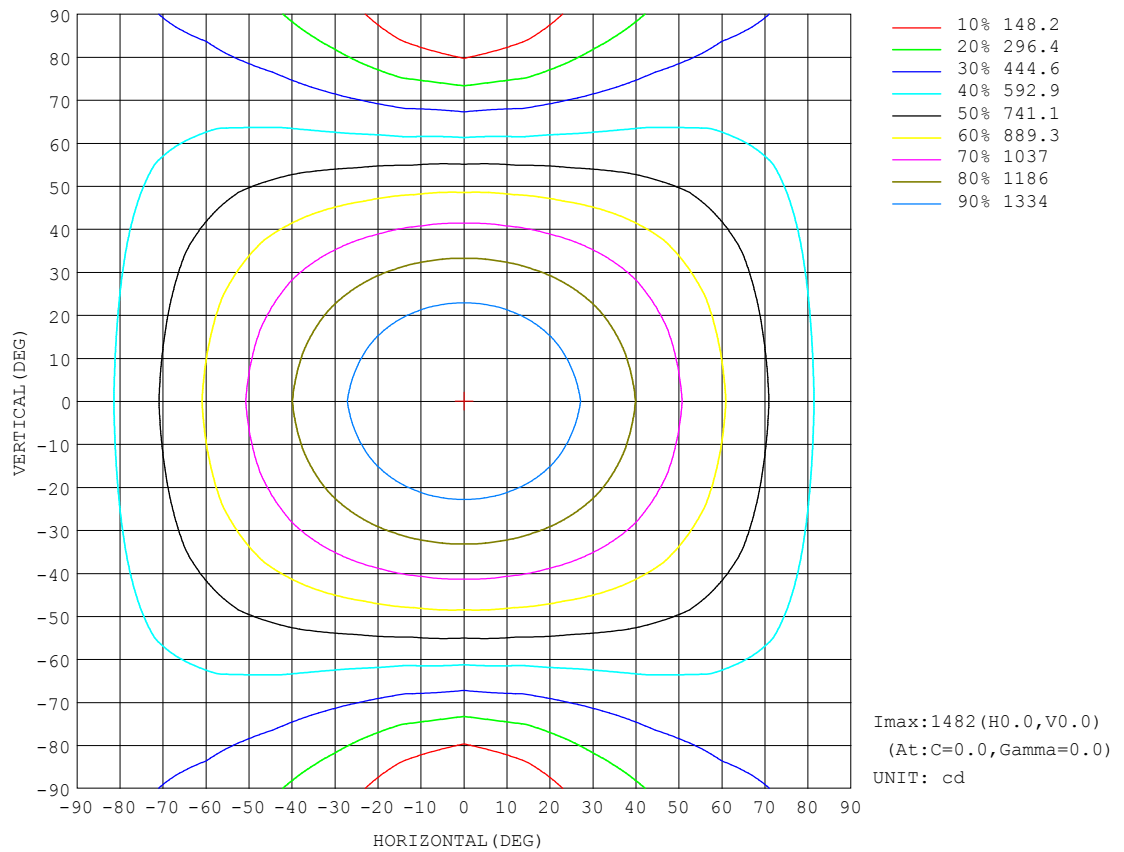
```

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |

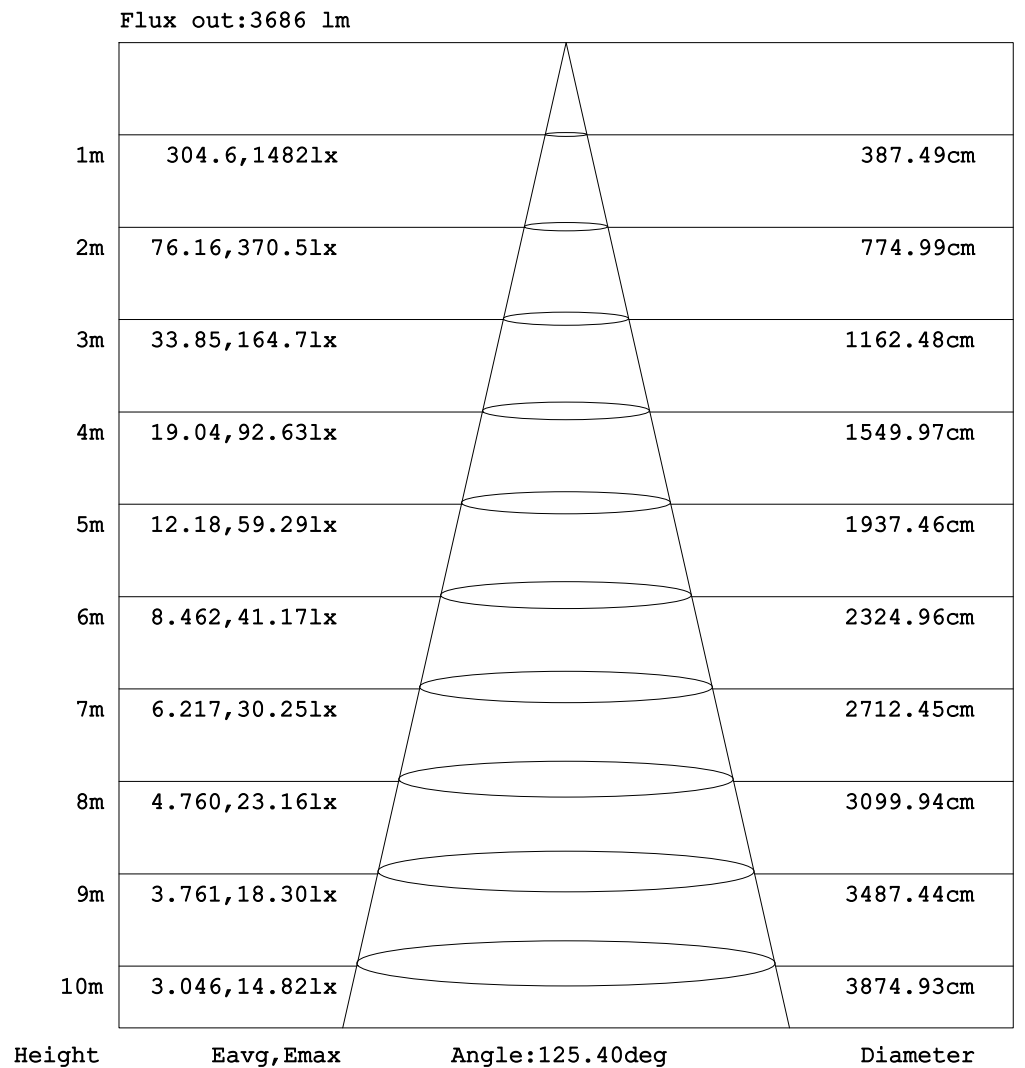


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |



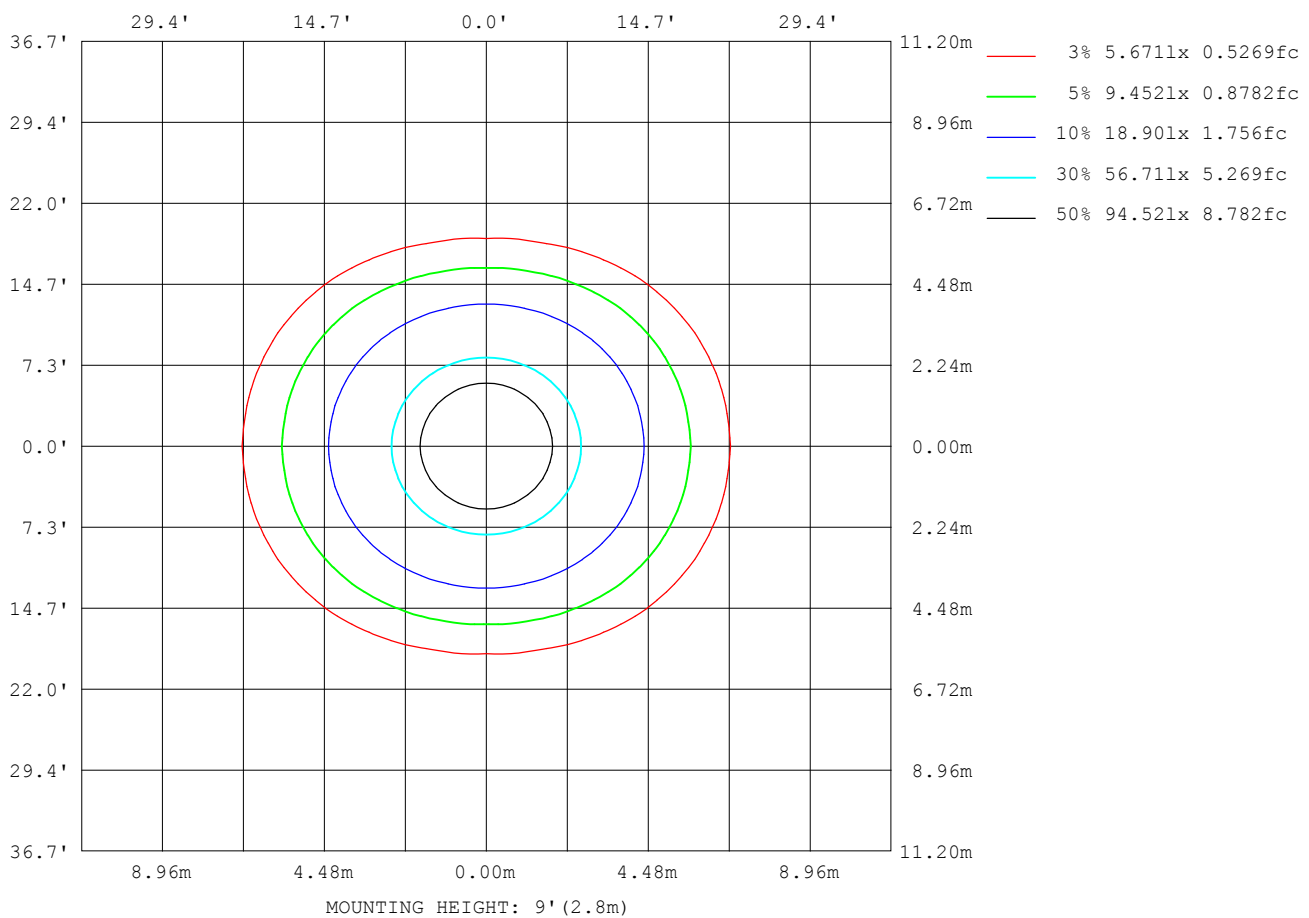
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |

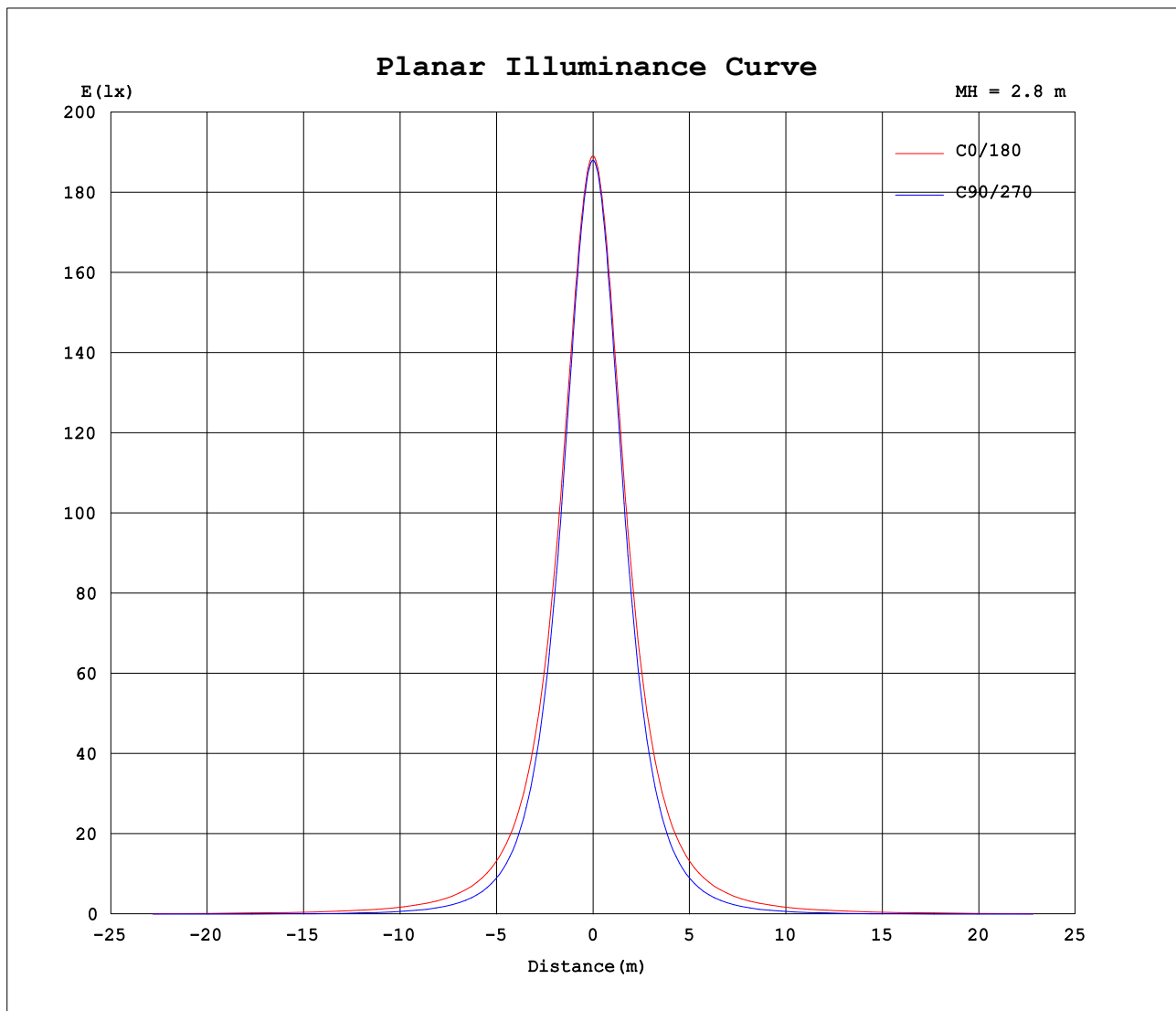
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 23857 |
| L_0~180 (75) av | 32082 |
| L_0~180 (85) av | 76142 |
| L_90~270 (65) av | 14529 |
| L_90~270 (75) av | 12060 |
| L_90~270 (85) av | 6313 |
| L_45 (65) av | 19907 |
| L_45 (75) av | 24757 |
| L_45 (85) av | 53292 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|-------|--|--|--|--|------------------|--|--|--|--|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | | | | | | | | | | | | | | | | | |
| NAME: Ti60LE-CC-36-1200K-40H | | | | | | | | | TYPE: | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | | | | | DIM.: | | | | | SERIAL No.: | | | | |
| MFR.: ERVAN | | | | | | | | | SUR.: | | | | | 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 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 |
| 5 | 1469 | 1469 | 1469 | 1469 | 1468 | 1468 | 1468 | 1468 | 1468 | 1469 | 1469 | 1469 | 1469 | 1469 | 1469 | 1469 | 1468 | 1468 | 1468 |
| 10 | 1453 | 1453 | 1452 | 1450 | 1449 | 1448 | 1447 | 1448 | 1449 | 1450 | 1452 | 1453 | 1453 | 1453 | 1452 | 1450 | 1449 | 1448 | 1447 |
| 15 | 1427 | 1426 | 1424 | 1420 | 1417 | 1414 | 1414 | 1414 | 1417 | 1420 | 1424 | 1426 | 1427 | 1426 | 1424 | 1420 | 1417 | 1414 | 1414 |
| 20 | 1392 | 1390 | 1385 | 1379 | 1373 | 1368 | 1367 | 1368 | 1373 | 1379 | 1385 | 1390 | 1392 | 1390 | 1385 | 1379 | 1373 | 1368 | 1367 |
| 25 | 1348 | 1345 | 1338 | 1327 | 1317 | 1310 | 1308 | 1310 | 1317 | 1327 | 1338 | 1345 | 1348 | 1345 | 1338 | 1327 | 1317 | 1310 | 1308 |
| 30 | 1297 | 1293 | 1282 | 1266 | 1251 | 1241 | 1237 | 1241 | 1251 | 1266 | 1282 | 1293 | 1297 | 1293 | 1282 | 1266 | 1251 | 1241 | 1237 |
| 35 | 1240 | 1234 | 1218 | 1196 | 1175 | 1161 | 1156 | 1161 | 1175 | 1196 | 1218 | 1234 | 1240 | 1234 | 1218 | 1196 | 1175 | 1161 | 1156 |
| 40 | 1178 | 1170 | 1149 | 1119 | 1091 | 1071 | 1064 | 1071 | 1091 | 1119 | 1149 | 1170 | 1178 | 1170 | 1149 | 1119 | 1091 | 1071 | 1064 |
| 45 | 1112 | 1102 | 1075 | 1037 | 999 | 973 | 964 | 973 | 999 | 1037 | 1075 | 1102 | 1112 | 1102 | 1075 | 1037 | 999 | 973 | 964 |
| 50 | 1043 | 1030 | 998 | 951 | 903 | 869 | 857 | 869 | 903 | 951 | 998 | 1030 | 1043 | 1030 | 998 | 951 | 903 | 869 | 857 |
| 55 | 971 | 957 | 919 | 863 | 803 | 758 | 743 | 758 | 803 | 863 | 919 | 957 | 971 | 957 | 919 | 863 | 803 | 758 | 743 |
| 60 | 898 | 882 | 839 | 775 | 702 | 645 | 624 | 645 | 702 | 775 | 839 | 882 | 898 | 882 | 839 | 775 | 702 | 645 | 624 |
| 65 | 824 | 807 | 760 | 688 | 603 | 530 | 502 | 530 | 603 | 688 | 760 | 807 | 824 | 807 | 760 | 688 | 603 | 530 | 502 |
| 70 | 751 | 732 | 682 | 604 | 508 | 416 | 377 | 416 | 508 | 604 | 682 | 732 | 751 | 732 | 682 | 604 | 508 | 416 | 377 |
| 75 | 679 | 660 | 607 | 524 | 417 | 309 | 255 | 309 | 417 | 524 | 607 | 660 | 679 | 660 | 607 | 524 | 417 | 309 | 255 |
| 80 | 609 | 590 | 536 | 449 | 337 | 214 | 141 | 214 | 337 | 449 | 536 | 590 | 609 | 590 | 536 | 449 | 337 | 214 | 141 |
| 85 | 543 | 523 | 467 | 380 | 266 | 138 | 45.0 | 138 | 266 | 380 | 467 | 523 | 543 | 523 | 467 | 380 | 266 | 138 | 45.0 |
| 90 | 479 | 459 | 405 | 318 | 206 | 82.9 | 2.88 | 82.9 | 206 | 318 | 405 | 459 | 479 | 459 | 405 | 318 | 206 | 82.9 | 2.88 |
| 95 | 419 | 400 | 347 | 263 | 157 | 49.3 | 3.40 | 49.3 | 157 | 263 | 347 | 400 | 419 | 400 | 347 | 263 | 157 | 49.3 | 3.40 |
| 100 | 363 | 345 | 295 | 215 | 118 | 29.7 | 4.09 | 29.7 | 118 | 215 | 295 | 345 | 363 | 345 | 295 | 215 | 118 | 29.7 | 4.09 |
| 105 | 312 | 294 | 247 | 174 | 87.0 | 20.7 | 4.87 | 20.7 | 87.0 | 174 | 247 | 294 | 312 | 294 | 247 | 174 | 87.0 | 20.7 | 4.87 |
| 110 | 264 | 247 | 204 | 135 | 65.9 | 16.1 | 5.68 | 16.1 | 65.9 | 135 | 204 | 247 | 264 | 247 | 204 | 135 | 65.9 | 16.1 | 5.68 |
| 115 | 219 | 204 | 166 | 108 | 49.9 | 13.6 | 6.51 | 13.6 | 49.9 | 108 | 166 | 204 | 219 | 204 | 166 | 108 | 49.9 | 13.6 | 6.51 |
| 120 | 179 | 166 | 129 | 84.8 | 37.7 | 12.2 | 7.35 | 12.2 | 37.7 | 84.8 | 129 | 166 | 179 | 166 | 129 | 84.8 | 37.7 | 12.2 | 7.35 |
| 125 | 143 | 132 | 104 | 63.2 | 29.2 | 11.7 | 8.16 | 11.7 | 29.2 | 63.2 | 104 | 132 | 143 | 132 | 104 | 63.2 | 29.2 | 11.7 | 8.16 |
| 130 | 113 | 102 | 78.9 | 47.4 | 23.6 | 11.6 | 8.97 | 11.6 | 23.6 | 47.4 | 78.9 | 102 | 113 | 102 | 78.9 | 47.4 | 23.6 | 11.6 | 8.97 |
| 135 | 86.9 | 77.8 | 58.8 | 36.4 | 20.0 | 11.8 | 9.77 | 11.8 | 20.0 | 36.4 | 58.8 | 77.8 | 86.9 | 77.8 | 58.8 | 36.4 | 20.0 | 11.8 | 9.77 |
| 140 | 66.1 | 60.1 | 43.5 | 28.7 | 17.7 | 12.1 | 10.6 | 12.1 | 17.7 | 28.7 | 43.5 | 60.1 | 66.1 | 60.1 | 43.5 | 28.7 | 17.7 | 12.1 | 10.6 |
| 145 | 49.7 | 45.2 | 32.7 | 23.3 | 16.2 | 12.6 | 11.4 | 12.6 | 16.2 | 23.3 | 32.7 | 45.2 | 49.7 | 45.2 | 32.7 | 23.3 | 16.2 | 12.6 | 11.4 |
| 150 | 37.3 | 32.5 | 25.4 | 19.7 | 15.5 | 13.1 | 12.2 | 13.1 | 15.5 | 19.7 | 25.4 | 32.5 | 37.3 | 32.5 | 25.4 | 19.7 | 15.5 | 13.1 | 12.2 |
| 155 | 28.5 | 24.4 | 20.7 | 17.5 | 15.2 | 13.7 | 13.0 | 13.7 | 15.2 | 17.5 | 20.7 | 24.4 | 28.5 | 24.4 | 20.7 | 17.5 | 15.2 | 13.7 | 13.0 |
| 160 | 22.5 | 19.2 | 17.7 | 16.4 | 15.2 | 14.1 | 13.7 | 14.1 | 15.2 | 16.4 | 17.7 | 19.2 | 22.5 | 19.2 | 17.7 | 16.4 | 15.2 | 14.1 | 13.7 |
| 165 | 18.6 | 16.5 | 16.0 | 15.7 | 15.0 | 14.5 | 14.2 | 14.5 | 15.0 | 15.7 | 16.0 | 16.5 | 18.6 | 16.5 | 16.0 | 15.7 | 15.0 | 14.5 | 14.2 |
| 170 | 16.2 | 15.0 | 15.3 | 15.2 | 15.0 | 14.7 | 14.6 | 14.7 | 15.0 | 15.2 | 15.3 | 15.0 | 16.2 | 15.0 | 15.3 | 15.2 | 15.0 | 14.7 | 14.6 |
| 175 | 13.9 | 14.6 | 15.0 | 15.0 | 15.1 | 15.1 | 14.9 | 15.1 | 15.1 | 15.0 | 15.0 | 14.6 | 13.9 | 14.6 | 15.0 | 15.0 | 15.1 | 15.1 | 14.9 |
| 180 | 14.0 | 14.7 | 15.1 | 15.0 | 15.2 | 15.2 | 15.1 | 15.2 | 15.2 | 15.0 | 15.1 | 14.7 | 14.0 | 14.7 | 15.1 | 15.0 | 15.2 | 15.2 | 15.1 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2020-04-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:230.4V I:0.1575A P:35.43W PF:0.9763 Freq:49.99Hz Lamp Flux:5719.2x1 lm | | |
| NAME: Ti60LE-CC-36-1200K-40H | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ERVAN | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 1475 | 1475 | 1475 | 1475 | 1475 | | | | | | | | | | | | | | |
| 5 | 1468 | 1468 | 1469 | 1469 | 1469 | | | | | | | | | | | | | | |
| 10 | 1448 | 1449 | 1450 | 1452 | 1453 | | | | | | | | | | | | | | |
| 15 | 1414 | 1417 | 1420 | 1424 | 1426 | | | | | | | | | | | | | | |
| 20 | 1368 | 1373 | 1379 | 1385 | 1390 | | | | | | | | | | | | | | |
| 25 | 1310 | 1317 | 1327 | 1338 | 1345 | | | | | | | | | | | | | | |
| 30 | 1241 | 1251 | 1266 | 1282 | 1293 | | | | | | | | | | | | | | |
| 35 | 1161 | 1175 | 1196 | 1218 | 1234 | | | | | | | | | | | | | | |
| 40 | 1071 | 1091 | 1119 | 1149 | 1170 | | | | | | | | | | | | | | |
| 45 | 973 | 999 | 1037 | 1075 | 1102 | | | | | | | | | | | | | | |
| 50 | 869 | 903 | 951 | 998 | 1030 | | | | | | | | | | | | | | |
| 55 | 758 | 803 | 863 | 919 | 957 | | | | | | | | | | | | | | |
| 60 | 645 | 702 | 775 | 839 | 882 | | | | | | | | | | | | | | |
| 65 | 530 | 603 | 688 | 760 | 807 | | | | | | | | | | | | | | |
| 70 | 416 | 508 | 604 | 682 | 732 | | | | | | | | | | | | | | |
| 75 | 309 | 417 | 524 | 607 | 660 | | | | | | | | | | | | | | |
| 80 | 214 | 337 | 449 | 536 | 590 | | | | | | | | | | | | | | |
| 85 | 138 | 266 | 380 | 467 | 523 | | | | | | | | | | | | | | |
| 90 | 82.9 | 206 | 318 | 405 | 459 | | | | | | | | | | | | | | |
| 95 | 49.3 | 157 | 263 | 347 | 400 | | | | | | | | | | | | | | |
| 100 | 29.7 | 118 | 215 | 295 | 345 | | | | | | | | | | | | | | |
| 105 | 20.7 | 87.0 | 174 | 247 | 294 | | | | | | | | | | | | | | |
| 110 | 16.1 | 65.9 | 135 | 204 | 247 | | | | | | | | | | | | | | |
| 115 | 13.6 | 49.9 | 108 | 166 | 204 | | | | | | | | | | | | | | |
| 120 | 12.2 | 37.7 | 84.8 | 129 | 166 | | | | | | | | | | | | | | |
| 125 | 11.7 | 29.2 | 63.2 | 104 | 132 | | | | | | | | | | | | | | |
| 130 | 11.6 | 23.6 | 47.4 | 78.9 | 102 | | | | | | | | | | | | | | |
| 135 | 11.8 | 20.0 | 36.4 | 58.8 | 77.8 | | | | | | | | | | | | | | |
| 140 | 12.1 | 17.7 | 28.7 | 43.5 | 60.1 | | | | | | | | | | | | | | |
| 145 | 12.6 | 16.2 | 23.3 | 32.7 | 45.2 | | | | | | | | | | | | | | |
| 150 | 13.1 | 15.5 | 19.7 | 25.4 | 32.5 | | | | | | | | | | | | | | |
| 155 | 13.7 | 15.2 | 17.5 | 20.7 | 24.4 | | | | | | | | | | | | | | |
| 160 | 14.1 | 15.2 | 16.4 | 17.7 | 19.2 | | | | | | | | | | | | | | |
| 165 | 14.5 | 15.0 | 15.7 | 16.0 | 16.5 | | | | | | | | | | | | | | |
| 170 | 14.7 | 15.0 | 15.2 | 15.3 | 15.0 | | | | | | | | | | | | | | |
| 175 | 15.1 | 15.1 | 15.0 | 15.0 | 14.6 | | | | | | | | | | | | | | |
| 180 | 15.2 | 15.2 | 15.0 | 15.1 | 14.7 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| G/C | 0.0 | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 | 105.0 | 120.0 | 135.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 |
| 3.0 | 1473 | 1473 | 1473 | 1473 | 1472 | 1472 | 1472 | 1472 | 1472 | 1473 |
| 6.0 | 1467 | 1467 | 1466 | 1466 | 1465 | 1465 | 1465 | 1465 | 1465 | 1466 |
| 9.0 | 1457 | 1457 | 1456 | 1455 | 1454 | 1453 | 1453 | 1453 | 1454 | 1455 |
| 12.0 | 1444 | 1443 | 1442 | 1440 | 1438 | 1436 | 1435 | 1436 | 1438 | 1440 |
| 15.0 | 1427 | 1426 | 1424 | 1420 | 1417 | 1414 | 1414 | 1414 | 1417 | 1420 |
| 18.0 | 1407 | 1405 | 1402 | 1397 | 1392 | 1388 | 1387 | 1388 | 1392 | 1397 |
| 21.0 | 1384 | 1382 | 1377 | 1370 | 1362 | 1358 | 1356 | 1358 | 1362 | 1370 |
| 24.0 | 1357 | 1355 | 1348 | 1338 | 1329 | 1323 | 1320 | 1323 | 1329 | 1338 |
| 27.0 | 1328 | 1325 | 1316 | 1304 | 1292 | 1284 | 1281 | 1284 | 1292 | 1304 |
| 30.0 | 1297 | 1293 | 1282 | 1266 | 1251 | 1241 | 1237 | 1241 | 1251 | 1266 |
| 33.0 | 1264 | 1258 | 1244 | 1225 | 1207 | 1194 | 1189 | 1194 | 1207 | 1225 |
| 36.0 | 1228 | 1221 | 1205 | 1181 | 1159 | 1143 | 1138 | 1143 | 1159 | 1181 |
| 39.0 | 1191 | 1183 | 1163 | 1135 | 1108 | 1090 | 1083 | 1090 | 1108 | 1135 |
| 42.0 | 1152 | 1143 | 1120 | 1087 | 1055 | 1033 | 1025 | 1033 | 1055 | 1087 |
| 45.0 | 1112 | 1102 | 1075 | 1037 | 999.3 | 973.2 | 964.3 | 973.2 | 999.3 | 1037 |
| 48.0 | 1071 | 1059 | 1029 | 985.9 | 942.1 | 911.3 | 900.7 | 911.3 | 942.1 | 985.9 |
| 51.0 | 1029 | 1016 | 982.4 | 933.8 | 883.2 | 847.0 | 834.6 | 847.0 | 883.2 | 933.8 |
| 54.0 | 985.9 | 971.8 | 935.0 | 881.1 | 823.3 | 780.9 | 766.3 | 780.9 | 823.3 | 881.1 |
| 57.0 | 942.3 | 927.1 | 887.3 | 828.0 | 762.7 | 713.3 | 696.0 | 713.3 | 762.7 | 828.0 |
| 60.0 | 898.4 | 882.2 | 839.3 | 774.9 | 702.3 | 644.8 | 624.2 | 644.8 | 702.3 | 774.9 |
| 63.0 | 854.0 | 837.1 | 791.7 | 722.5 | 642.6 | 576.0 | 551.2 | 576.0 | 642.6 | 722.5 |
| 66.0 | 809.7 | 792.0 | 744.3 | 670.8 | 583.7 | 507.2 | 476.6 | 507.2 | 583.7 | 670.8 |
| 69.0 | 765.5 | 747.1 | 697.6 | 620.3 | 526.3 | 438.7 | 401.4 | 438.7 | 526.3 | 620.3 |
| 72.0 | 721.9 | 703.0 | 651.8 | 571.2 | 470.6 | 371.8 | 327.5 | 371.8 | 470.6 | 571.2 |
| 75.0 | 678.9 | 659.7 | 607.3 | 523.9 | 417.5 | 309.3 | 255.2 | 309.3 | 417.5 | 523.9 |
| 78.0 | 636.8 | 617.3 | 563.8 | 478.4 | 367.6 | 250.7 | 184.8 | 250.7 | 367.6 | 478.4 |
| 81.0 | 595.7 | 575.9 | 521.8 | 434.6 | 321.6 | 197.2 | 119.8 | 197.2 | 321.6 | 434.6 |
| 84.0 | 555.5 | 535.8 | 481.2 | 392.8 | 279.2 | 151.3 | 61.82 | 151.3 | 279.2 | 392.8 |
| 87.0 | 516.9 | 496.8 | 442.2 | 354.3 | 240.5 | 112.8 | 17.92 | 112.8 | 240.5 | 354.3 |
| 90.0 | 478.6 | 459.1 | 404.8 | 318.1 | 205.7 | 82.93 | 2.884 | 82.93 | 205.7 | 318.1 |
| 93.0 | 442.0 | 423.3 | 369.4 | 284.6 | 175.1 | 60.71 | 3.150 | 60.71 | 175.1 | 284.6 |
| 96.0 | 407.4 | 388.0 | 336.2 | 253.3 | 148.4 | 44.50 | 3.516 | 44.50 | 148.4 | 253.3 |
| 99.0 | 374.3 | 355.5 | 304.8 | 224.5 | 125.3 | 32.67 | 3.947 | 32.67 | 125.3 | 224.5 |
| 102.0 | 342.2 | 324.0 | 275.0 | 197.9 | 105.1 | 25.43 | 4.392 | 25.43 | 105.1 | 197.9 |
| 105.0 | 311.6 | 294.0 | 246.6 | 173.8 | 86.98 | 20.68 | 4.867 | 20.68 | 86.98 | 173.8 |
| 108.0 | 282.3 | 265.3 | 220.4 | 151.8 | 74.04 | 17.52 | 5.347 | 17.52 | 74.04 | 151.8 |
| 111.0 | 254.3 | 238.0 | 195.7 | 128.9 | 62.07 | 15.48 | 5.842 | 15.48 | 62.07 | 128.9 |
| 114.0 | 227.8 | 212.5 | 172.8 | 113.8 | 52.63 | 14.02 | 6.346 | 14.02 | 52.63 | 113.8 |
| 117.0 | 202.6 | 188.1 | 151.3 | 97.29 | 44.53 | 12.90 | 6.850 | 12.90 | 44.53 | 97.29 |
| 120.0 | 178.6 | 165.8 | 129.3 | 84.77 | 37.68 | 12.23 | 7.347 | 12.23 | 37.68 | 84.77 |
| 123.0 | 156.8 | 145.1 | 113.6 | 71.27 | 32.18 | 11.85 | 7.838 | 11.85 | 32.18 | 71.27 |
| 126.0 | 136.7 | 126.1 | 98.82 | 59.52 | 27.85 | 11.67 | 8.329 | 11.67 | 27.85 | 59.52 |
| 129.0 | 118.4 | 108.3 | 83.96 | 50.15 | 24.50 | 11.63 | 8.804 | 11.63 | 24.50 | 50.15 |
| 132.0 | 101.8 | 91.87 | 69.74 | 42.52 | 21.94 | 11.68 | 9.281 | 11.68 | 21.94 | 42.52 |
| 135.0 | 86.94 | 77.84 | 58.77 | 36.42 | 19.96 | 11.82 | 9.772 | 11.82 | 19.96 | 36.42 |
| 138.0 | 73.81 | 66.53 | 48.97 | 31.45 | 18.45 | 11.99 | 10.25 | 11.99 | 18.45 | 31.45 |
| 141.0 | 62.46 | 56.88 | 40.95 | 27.43 | 17.32 | 12.20 | 10.72 | 12.20 | 17.32 | 27.43 |
| 144.0 | 52.66 | 48.02 | 34.53 | 24.23 | 16.45 | 12.49 | 11.22 | 12.49 | 16.45 | 24.23 |
| 147.0 | 44.27 | 39.37 | 29.40 | 21.69 | 15.80 | 12.79 | 11.71 | 12.79 | 15.80 | 21.69 |
| 150.0 | 37.29 | 32.51 | 25.42 | 19.69 | 15.46 | 13.12 | 12.21 | 13.12 | 15.46 | 19.69 |
| 153.0 | 31.64 | 27.24 | 22.39 | 18.18 | 15.27 | 13.45 | 12.70 | 13.45 | 15.27 | 18.18 |
| 156.0 | 27.13 | 23.19 | 20.01 | 17.19 | 15.16 | 13.77 | 13.15 | 13.77 | 15.16 | 17.19 |
| 159.0 | 23.53 | 20.06 | 18.20 | 16.55 | 15.15 | 14.05 | 13.57 | 14.05 | 15.15 | 16.55 |
| 162.0 | 20.76 | 17.69 | 16.85 | 16.02 | 15.10 | 14.29 | 13.92 | 14.29 | 15.10 | 16.02 |
| 165.0 | 18.64 | 16.47 | 16.00 | 15.67 | 15.05 | 14.48 | 14.21 | 14.48 | 15.05 | 15.67 |
| 168.0 | 17.08 | 15.47 | 15.57 | 15.33 | 14.98 | 14.64 | 14.43 | 14.64 | 14.98 | 15.33 |
| 171.0 | 15.88 | 14.84 | 15.24 | 15.09 | 14.98 | 14.79 | 14.66 | 14.79 | 14.98 | 15.09 |
| 174.0 | 14.11 | 14.59 | 15.09 | 15.00 | 15.10 | 15.03 | 14.88 | 15.03 | 15.10 | 15.00 |
| 177.0 | 13.78 | 14.56 | 14.96 | 14.96 | 15.15 | 15.14 | 15.02 | 15.14 | 15.15 | 14.96 |
| 180.0 | 13.99 | 14.74 | 15.06 | 15.01 | 15.23 | 15.24 | 15.14 | 15.24 | 15.23 | 15.01 |
| G/C | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 |
| 0.0 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 | 1475 |
| 3.0 | 1473 | 1473 | 1473 | 1473 | 1473 | 1473 | 1472 | 1472 | 1472 | 1472 |
| 6.0 | 1466 | 1467 | 1467 | 1467 | 1466 | 1466 | 1465 | 1465 | 1465 | 1465 |
| 9.0 | 1456 | 1457 | 1457 | 1457 | 1456 | 1455 | 1454 | 1453 | 1453 | 1453 |
| 12.0 | 1442 | 1443 | 1444 | 1443 | 1442 | 1440 | 1438 | 1436 | 1435 | 1436 |
| 15.0 | 1424 | 1426 | 1427 | 1426 | 1424 | 1420 | 1417 | 1414 | 1414 | 1414 |
| 18.0 | 1402 | 1405 | 1407 | 1405 | 1402 | 1397 | 1392 | 1388 | 1387 | 1388 |
| 21.0 | 1377 | 1382 | 1384 | 1382 | 1377 | 1370 | 1362 | 1358 | 1356 | 1358 |
| 24.0 | 1348 | 1355 | 1357 | 1355 | 1348 | 1338 | 1329 | 1323 | 1320 | 1323 |
| 27.0 | 1316 | 1325 | 1328 | 1325 | 1316 | 1304 | 1292 | 1284 | 1281 | 1284 |
| 30.0 | 1282 | 1293 | 1297 | 1293 | 1282 | 1266 | 1251 | 1241 | 1237 | 1241 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 33.0 | 1244 | 1258 | 1264 | 1258 | 1244 | 1225 | 1207 | 1194 | 1189 | 1194 |
| 36.0 | 1205 | 1221 | 1228 | 1221 | 1205 | 1181 | 1159 | 1143 | 1138 | 1143 |
| 39.0 | 1163 | 1183 | 1191 | 1183 | 1163 | 1135 | 1108 | 1090 | 1083 | 1090 |
| 42.0 | 1120 | 1143 | 1152 | 1143 | 1120 | 1087 | 1055 | 1033 | 1025 | 1033 |
| 45.0 | 1075 | 1102 | 1112 | 1102 | 1075 | 1037 | 999.3 | 973.2 | 964.3 | 973.2 |
| 48.0 | 1029 | 1059 | 1071 | 1059 | 1029 | 985.9 | 942.1 | 911.3 | 900.7 | 911.3 |
| 51.0 | 982.4 | 1016 | 1029 | 1016 | 982.4 | 933.8 | 883.2 | 847.0 | 834.6 | 847.0 |
| 54.0 | 935.0 | 971.8 | 985.9 | 971.8 | 935.0 | 881.1 | 823.3 | 780.9 | 766.3 | 780.9 |
| 57.0 | 887.3 | 927.1 | 942.3 | 927.1 | 887.3 | 828.0 | 762.7 | 713.3 | 696.0 | 713.3 |
| 60.0 | 839.3 | 882.2 | 898.4 | 882.2 | 839.3 | 774.9 | 702.3 | 644.8 | 624.2 | 644.8 |
| 63.0 | 791.7 | 837.1 | 854.0 | 837.1 | 791.7 | 722.5 | 642.6 | 576.0 | 551.2 | 576.0 |
| 66.0 | 744.3 | 792.0 | 809.7 | 792.0 | 744.3 | 670.8 | 583.7 | 507.2 | 476.6 | 507.2 |
| 69.0 | 697.6 | 747.1 | 765.5 | 747.1 | 697.6 | 620.3 | 526.3 | 438.7 | 401.4 | 438.7 |
| 72.0 | 651.8 | 703.0 | 721.9 | 703.0 | 651.8 | 571.2 | 470.6 | 371.8 | 327.5 | 371.8 |
| 75.0 | 607.3 | 659.7 | 678.9 | 659.7 | 607.3 | 523.9 | 417.5 | 309.3 | 255.2 | 309.3 |
| 78.0 | 563.8 | 617.3 | 636.8 | 617.3 | 563.8 | 478.4 | 367.6 | 250.7 | 184.8 | 250.7 |
| 81.0 | 521.8 | 575.9 | 595.7 | 575.9 | 521.8 | 434.6 | 321.6 | 197.2 | 119.8 | 197.2 |
| 84.0 | 481.2 | 535.8 | 555.5 | 535.8 | 481.2 | 392.8 | 279.2 | 151.3 | 61.82 | 151.3 |
| 87.0 | 442.2 | 496.8 | 516.9 | 496.8 | 442.2 | 354.3 | 240.5 | 112.8 | 17.92 | 112.8 |
| 90.0 | 404.8 | 459.1 | 478.6 | 459.1 | 404.8 | 318.1 | 205.7 | 82.93 | 2.884 | 82.93 |
| 93.0 | 369.4 | 423.3 | 442.0 | 423.3 | 369.4 | 284.6 | 175.1 | 60.71 | 3.150 | 60.71 |
| 96.0 | 336.2 | 388.0 | 407.4 | 388.0 | 336.2 | 253.3 | 148.4 | 44.50 | 3.516 | 44.50 |
| 99.0 | 304.8 | 355.5 | 374.3 | 355.5 | 304.8 | 224.5 | 125.3 | 32.67 | 3.947 | 32.67 |
| 102.0 | 275.0 | 324.0 | 342.2 | 324.0 | 275.0 | 197.9 | 105.1 | 25.43 | 4.392 | 25.43 |
| 105.0 | 246.6 | 294.0 | 311.6 | 294.0 | 246.6 | 173.8 | 86.98 | 20.68 | 4.867 | 20.68 |
| 108.0 | 220.4 | 265.3 | 282.3 | 265.3 | 220.4 | 151.8 | 74.04 | 17.52 | 5.347 | 17.52 |
| 111.0 | 195.7 | 238.0 | 254.3 | 238.0 | 195.7 | 128.9 | 62.07 | 15.48 | 5.842 | 15.48 |
| 114.0 | 172.8 | 212.5 | 227.8 | 212.5 | 172.8 | 113.8 | 52.63 | 14.02 | 6.346 | 14.02 |
| 117.0 | 151.3 | 188.1 | 202.6 | 188.1 | 151.3 | 97.29 | 44.53 | 12.90 | 6.850 | 12.90 |
| 120.0 | 129.3 | 165.8 | 178.6 | 165.8 | 129.3 | 84.77 | 37.68 | 12.23 | 7.347 | 12.23 |
| 123.0 | 113.6 | 145.1 | 156.8 | 145.1 | 113.6 | 71.27 | 32.18 | 11.85 | 7.838 | 11.85 |
| 126.0 | 98.82 | 126.1 | 136.7 | 126.1 | 98.82 | 59.52 | 27.85 | 11.67 | 8.329 | 11.67 |
| 129.0 | 83.96 | 108.3 | 118.4 | 108.3 | 83.96 | 50.15 | 24.50 | 11.63 | 8.804 | 11.63 |
| 132.0 | 69.74 | 91.87 | 101.8 | 91.87 | 69.74 | 42.52 | 21.94 | 11.68 | 9.281 | 11.68 |
| 135.0 | 58.77 | 77.84 | 86.94 | 77.84 | 58.77 | 36.42 | 19.96 | 11.82 | 9.772 | 11.82 |
| 138.0 | 48.97 | 66.53 | 73.81 | 66.53 | 48.97 | 31.45 | 18.45 | 11.99 | 10.25 | 11.99 |
| 141.0 | 40.95 | 56.88 | 62.46 | 56.88 | 40.95 | 27.43 | 17.32 | 12.20 | 10.72 | 12.20 |
| 144.0 | 34.53 | 48.02 | 52.66 | 48.02 | 34.53 | 24.23 | 16.45 | 12.49 | 11.22 | 12.49 |
| 147.0 | 29.40 | 39.37 | 44.27 | 39.37 | 29.40 | 21.69 | 15.80 | 12.79 | 11.71 | 12.79 |
| 150.0 | 25.42 | 32.51 | 37.29 | 32.51 | 25.42 | 19.69 | 15.46 | 13.12 | 12.21 | 13.12 |
| 153.0 | 22.39 | 27.24 | 31.64 | 27.24 | 22.39 | 18.18 | 15.27 | 13.45 | 12.70 | 13.45 |
| 156.0 | 20.01 | 23.19 | 27.13 | 23.19 | 20.01 | 17.19 | 15.16 | 13.77 | 13.15 | 13.77 |
| 159.0 | 18.20 | 20.06 | 23.53 | 20.06 | 18.20 | 16.55 | 15.15 | 14.05 | 13.57 | 14.05 |
| 162.0 | 16.85 | 17.69 | 20.76 | 17.69 | 16.85 | 16.02 | 15.10 | 14.29 | 13.92 | 14.29 |
| 165.0 | 16.00 | 16.47 | 18.64 | 16.47 | 16.00 | 15.67 | 15.05 | 14.48 | 14.21 | 14.48 |
| 168.0 | 15.57 | 15.47 | 17.08 | 15.47 | 15.57 | 15.33 | 14.98 | 14.64 | 14.43 | 14.64 |
| 171.0 | 15.24 | 14.84 | 15.88 | 14.84 | 15.24 | 15.09 | 14.98 | 14.79 | 14.66 | 14.79 |
| 174.0 | 15.09 | 14.59 | 14.11 | 14.59 | 15.09 | 15.00 | 15.10 | 15.03 | 14.88 | 15.03 |
| 177.0 | 14.99 | 14.56 | 13.78 | 14.56 | 14.99 | 14.96 | 15.15 | 15.14 | 15.02 | 15.14 |
| 180.0 | 15.06 | 14.74 | 13.99 | 14.74 | 15.06 | 15.01 | 15.23 | 15.24 | 15.14 | 15.24 |
| G/C | 300.0 | 315.0 | 330.0 | 345.0 | | | | | | |
| 0.0 | 1475 | 1475 | 1475 | 1475 | | | | | | |
| 3.0 | 1472 | 1473 | 1473 | 1473 | | | | | | |
| 6.0 | 1465 | 1466 | 1466 | 1467 | | | | | | |
| 9.0 | 1454 | 1455 | 1456 | 1457 | | | | | | |
| 12.0 | 1438 | 1440 | 1442 | 1443 | | | | | | |
| 15.0 | 1417 | 1420 | 1424 | 1426 | | | | | | |
| 18.0 | 1392 | 1397 | 1402 | 1405 | | | | | | |
| 21.0 | 1362 | 1370 | 1377 | 1382 | | | | | | |
| 24.0 | 1329 | 1338 | 1348 | 1355 | | | | | | |
| 27.0 | 1292 | 1304 | 1316 | 1325 | | | | | | |
| 30.0 | 1251 | 1266 | 1282 | 1293 | | | | | | |
| 33.0 | 1207 | 1225 | 1244 | 1258 | | | | | | |
| 36.0 | 1159 | 1181 | 1205 | 1221 | | | | | | |
| 39.0 | 1108 | 1135 | 1163 | 1183 | | | | | | |
| 42.0 | 1055 | 1087 | 1120 | 1143 | | | | | | |
| 45.0 | 999.3 | 1037 | 1075 | 1102 | | | | | | |
| 48.0 | 942.1 | 985.9 | 1029 | 1059 | | | | | | |
| 51.0 | 883.2 | 933.8 | 982.4 | 1016 | | | | | | |
| 54.0 | 823.3 | 881.1 | 935.0 | 971.8 | | | | | | |
| 57.0 | 762.7 | 828.0 | 887.3 | 927.1 | | | | | | |
| 60.0 | 702.3 | 774.9 | 839.3 | 882.2 | | | | | | |
| 63.0 | 642.6 | 722.5 | 791.7 | 837.1 | | | | | | |
| 66.0 | 583.7 | 670.8 | 744.3 | 792.0 | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

| | | | | |
|-------|-------|-------|-------|-------|
| 69.0 | 526.3 | 620.3 | 697.6 | 747.1 |
| 72.0 | 470.6 | 571.2 | 651.8 | 703.0 |
| 75.0 | 417.5 | 523.9 | 607.3 | 659.7 |
| 78.0 | 367.6 | 478.4 | 563.8 | 617.3 |
| 81.0 | 321.6 | 434.6 | 521.8 | 575.9 |
| 84.0 | 279.2 | 392.8 | 481.2 | 535.8 |
| 87.0 | 240.5 | 354.3 | 442.2 | 496.8 |
| 90.0 | 205.7 | 318.1 | 404.8 | 459.1 |
| 93.0 | 175.1 | 284.6 | 369.4 | 423.3 |
| 96.0 | 148.4 | 253.3 | 336.2 | 388.0 |
| 99.0 | 125.3 | 224.5 | 304.8 | 355.5 |
| 102.0 | 105.1 | 197.9 | 275.0 | 324.0 |
| 105.0 | 86.98 | 173.8 | 246.6 | 294.0 |
| 108.0 | 74.04 | 151.8 | 220.4 | 265.3 |
| 111.0 | 62.07 | 128.9 | 195.7 | 238.0 |
| 114.0 | 52.63 | 113.8 | 172.8 | 212.5 |
| 117.0 | 44.53 | 97.29 | 151.3 | 188.1 |
| 120.0 | 37.68 | 84.77 | 129.3 | 165.8 |
| 123.0 | 32.18 | 71.27 | 113.6 | 145.1 |
| 126.0 | 27.85 | 59.52 | 98.82 | 126.1 |
| 129.0 | 24.50 | 50.15 | 83.96 | 108.3 |
| 132.0 | 21.94 | 42.52 | 69.74 | 91.87 |
| 135.0 | 19.96 | 36.42 | 58.77 | 77.84 |
| 138.0 | 18.45 | 31.45 | 48.97 | 66.53 |
| 141.0 | 17.32 | 27.43 | 40.95 | 56.88 |
| 144.0 | 16.45 | 24.23 | 34.53 | 48.02 |
| 147.0 | 15.80 | 21.69 | 29.40 | 39.37 |
| 150.0 | 15.46 | 19.69 | 25.42 | 32.51 |
| 153.0 | 15.27 | 18.18 | 22.39 | 27.24 |
| 156.0 | 15.16 | 17.19 | 20.01 | 23.19 |
| 159.0 | 15.15 | 16.55 | 18.20 | 20.06 |
| 162.0 | 15.10 | 16.02 | 16.85 | 17.69 |
| 165.0 | 15.05 | 15.67 | 16.00 | 16.47 |
| 168.0 | 14.98 | 15.33 | 15.57 | 15.47 |
| 171.0 | 14.98 | 15.09 | 15.24 | 14.84 |
| 174.0 | 15.10 | 15.00 | 15.09 | 14.59 |
| 177.0 | 15.15 | 14.96 | 14.99 | 14.56 |
| 180.0 | 15.23 | 15.01 | 15.06 | 14.74 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2020-04-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks: