



ATC MIDDLE EAST FZCO

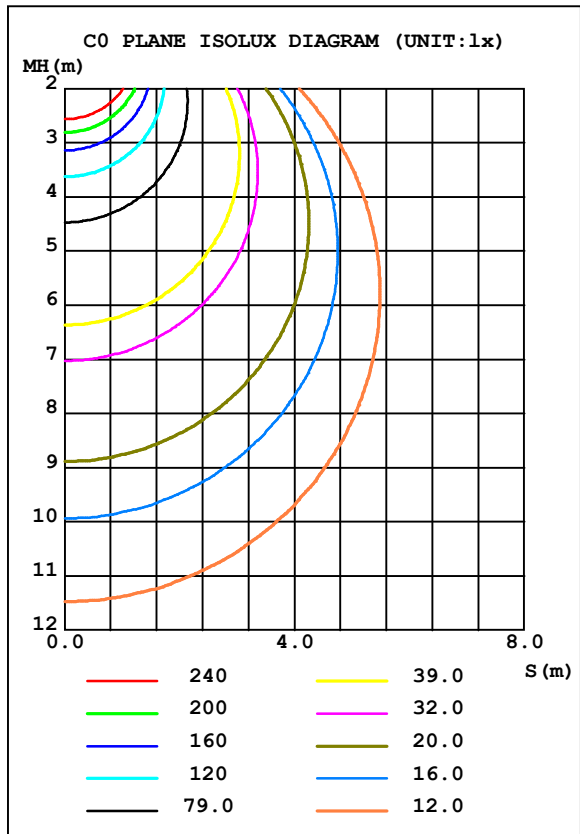
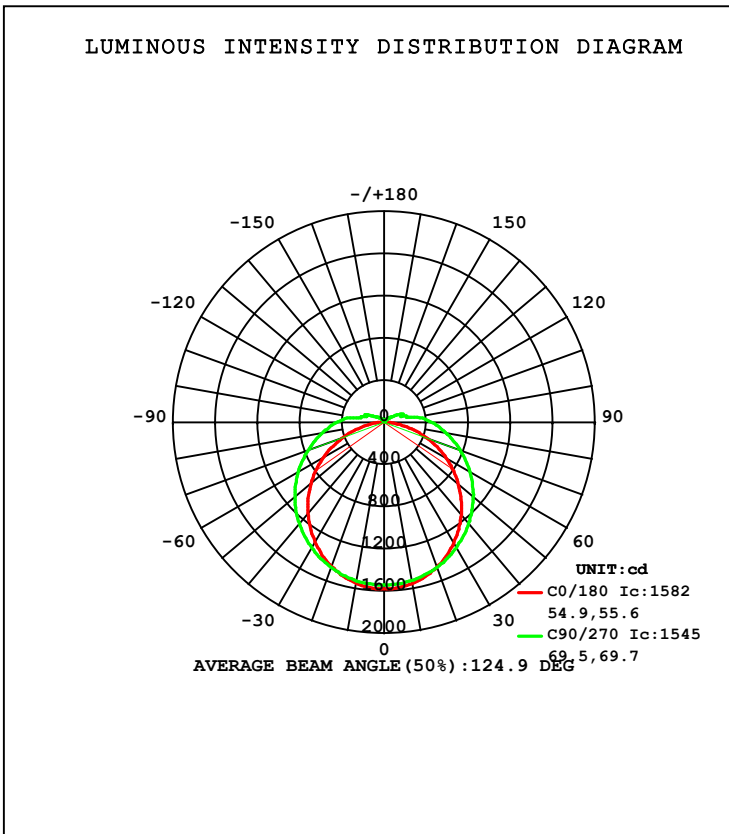


 rafeed[®] LED
E series
2022
OUR BEAUTIFUL WORLD WITH
LIGHTS.

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|-------|------------------|
| Test:U:230.21V I:0.2505A P:54.307W PF:0.9416 Freq:49.99Hz Lamp Flux:5774.73x1 lm | | |
| NAME: Tri-Proof 50W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ATC | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 106.33 lm/W | | | |
|------------------|---------------|-----------------------------------|--------|--------------------|-----------|
| MODEL | Tri-Proof 50W | I _{max} (cd) | 1582 | S/MH(C0/180) | 1.25 |
| NOMINAL POWER(W) | 50 | LOR(%) | 100.0 | S/MH(C90/270) | 1.33 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 5774.7 | η UP, DN(C0-180) | 4.7, 45.0 |
| NOMINAL FLUX(lm) | 5774.73 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 4.8, 45.4 |
| LAMPS INSIDE | 1 | η up(%) | 9.6 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 230 | η down(%) | 90.4 | CIBSE SHR MAX | 1.50 |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ATC

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 60%
 Test Distance: 7.630m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

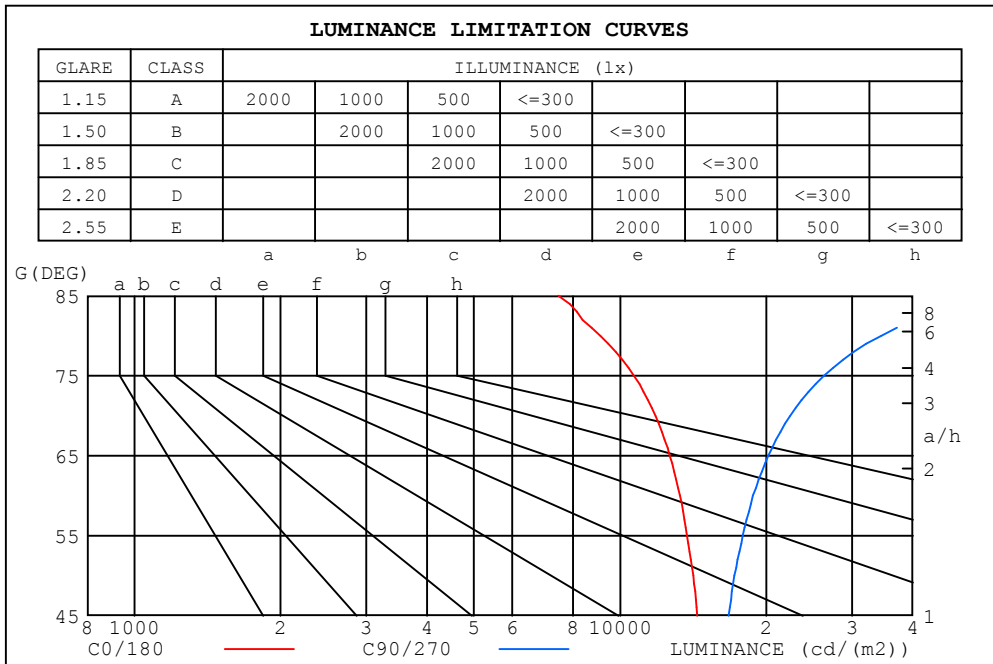
ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | γ | Φ zone | Φ total | %lum, lamp |
|----------|--|-------|-------|-------|--|--|--|----------|-------------|--------------|------------|
| 10 | 1547 | 1527 | 1555 | 1523 | | | | 0- 10 | 147.9 | 147.9 | 2.56,2.56 |
| 20 | 1456 | 1468 | 1465 | 1467 | | | | 10- 20 | 425.2 | 573.1 | 9.92,9.92 |
| 30 | 1315 | 1377 | 1323 | 1372 | | | | 20- 30 | 649.9 | 1223 | 21.2,21.2 |
| 40 | 1127 | 1254 | 1141 | 1249 | | | | 30- 40 | 797.0 | 2020 | 35,35 |
| 50 | 908.1 | 1106 | 924.0 | 1105 | | | | 40- 50 | 852.8 | 2873 | 49.7,49.7 |
| 60 | 664.0 | 938.8 | 684.9 | 941.7 | | | | 50- 60 | 815.1 | 3688 | 63.9,63.9 |
| 70 | 404.9 | 764.5 | 426.6 | 768.2 | | | | 60- 70 | 692.9 | 4381 | 75.9,75.9 |
| 80 | 158.2 | 597.3 | 176.2 | 601.1 | | | | 70- 80 | 512.4 | 4893 | 84.7,84.7 |
| 90 | 26.77 | 450.5 | 26.05 | 453.6 | | | | 80- 90 | 328.8 | 5222 | 90.4,90.4 |
| 100 | 22.51 | 270.5 | 19.83 | 293.6 | | | | 90-100 | 221.4 | 5443 | 94.3,94.3 |
| 110 | 20.22 | 182.5 | 17.59 | 171.3 | | | | 100-110 | 126.6 | 5570 | 96.5,96.5 |
| 120 | 17.64 | 121.3 | 15.63 | 145.7 | | | | 110-120 | 94.99 | 5665 | 98.1,98.1 |
| 130 | 15.77 | 77.90 | 14.12 | 76.26 | | | | 120-130 | 52.34 | 5717 | 99,99 |
| 140 | 13.47 | 48.63 | 12.90 | 46.35 | | | | 130-140 | 29.45 | 5747 | 99.5,99.5 |
| 150 | 12.85 | 26.93 | 12.69 | 24.80 | | | | 140-150 | 15.47 | 5762 | 99.8,99.8 |
| 160 | 13.49 | 13.62 | 12.88 | 12.62 | | | | 150-160 | 7.274 | 5770 | 99.9,99.9 |
| 170 | 13.85 | 13.93 | 13.72 | 13.27 | | | | 160-170 | 3.787 | 5773 | 100,100 |
| 180 | 14.22 | 13.98 | 14.46 | 13.79 | | | | 170-180 | 1.326 | 5775 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd Less than 35% Percent = 20.0 % | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ATC

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:7.630m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



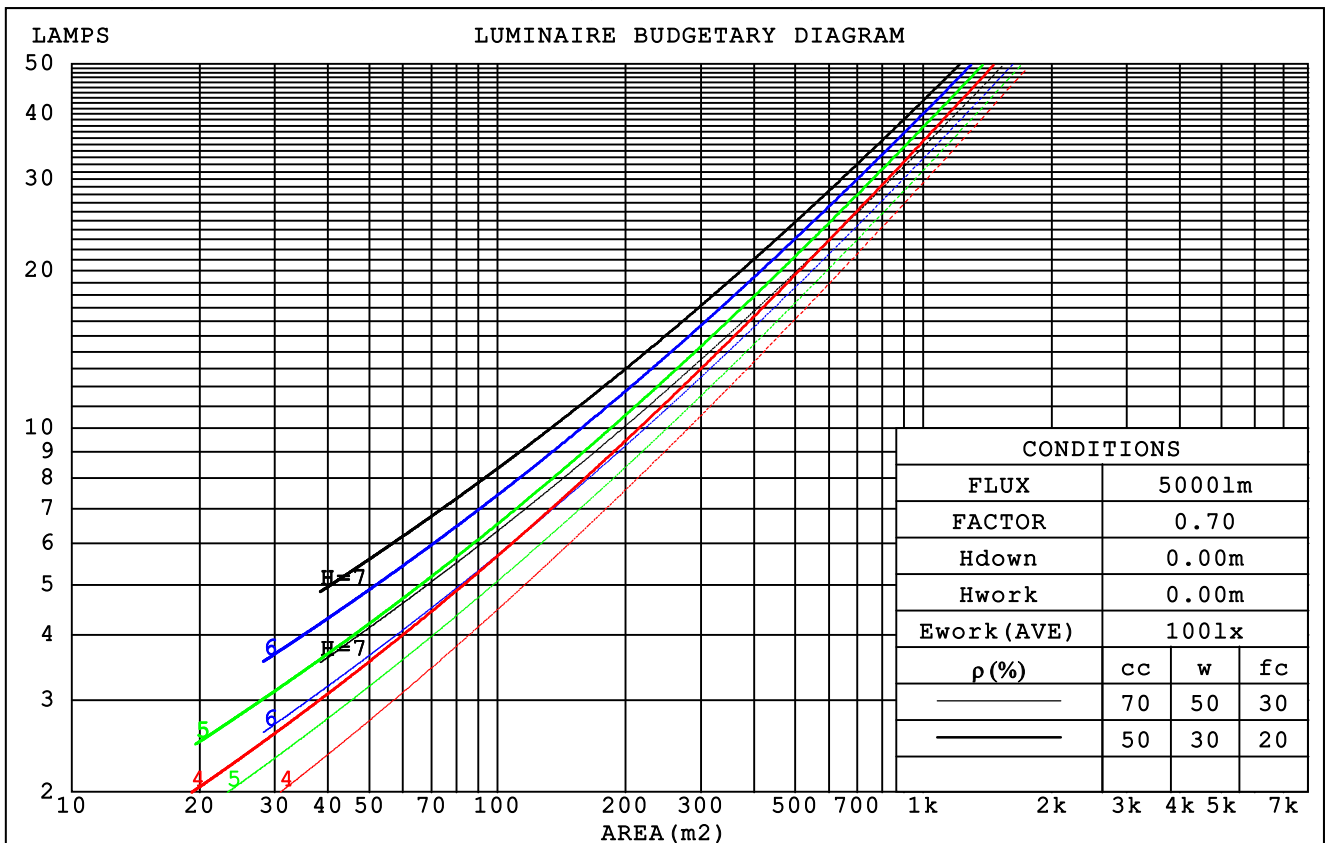
| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 7465 | 59522 |
| 80 | 9112 | 34399 |
| 75 | 10680 | 26242 |
| 70 | 11839 | 22354 |
| 65 | 12648 | 20150 |
| 60 | 13279 | 18777 |
| 55 | 13739 | 17863 |
| 50 | 14128 | 17204 |
| 45 | 14426 | 16728 |

C Range: 0 - 360DEG
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | | | | | | | | | | | | | | | |
|------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|
| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.17 | 1.17 | 1.17 | 1.13 | 1.13 | 1.13 | 1.06 | 1.06 | 1.06 | .99 | .99 | .99 | .93 | .93 | .93 | .90 |
| 1.0 | .99 | .94 | .89 | .96 | .91 | .87 | .90 | .86 | .82 | .84 | .81 | .78 | .79 | .76 | .74 | .71 |
| 2.0 | .85 | .77 | .71 | .82 | .75 | .70 | .77 | .71 | .66 | .72 | .68 | .63 | .68 | .64 | .61 | .58 |
| 3.0 | .74 | .65 | .58 | .72 | .64 | .57 | .67 | .60 | .55 | .63 | .57 | .53 | .59 | .55 | .51 | .48 |
| 4.0 | .65 | .56 | .49 | .63 | .55 | .48 | .59 | .52 | .46 | .56 | .50 | .45 | .53 | .47 | .43 | .40 |
| 5.0 | .58 | .49 | .42 | .56 | .48 | .41 | .53 | .45 | .40 | .50 | .43 | .38 | .47 | .42 | .37 | .35 |
| 6.0 | .52 | .43 | .36 | .51 | .42 | .36 | .48 | .40 | .34 | .45 | .38 | .33 | .43 | .37 | .32 | .30 |
| 7.0 | .47 | .38 | .32 | .46 | .37 | .31 | .43 | .36 | .30 | .41 | .34 | .29 | .39 | .33 | .29 | .26 |
| 8.0 | .43 | .34 | .28 | .42 | .33 | .28 | .40 | .32 | .27 | .38 | .31 | .26 | .36 | .30 | .26 | .23 |
| 9.0 | .39 | .31 | .25 | .38 | .30 | .25 | .36 | .29 | .24 | .35 | .28 | .24 | .33 | .27 | .23 | .21 |
| 10.0 | .36 | .28 | .23 | .35 | .28 | .22 | .34 | .27 | .22 | .32 | .26 | .21 | .31 | .25 | .21 | .19 |



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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 60%
 Test Distance: 7.630m [K=1.0000]
 Remarks:

WEC AND CCEC

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .362 | .206 | .065 | .352 | .201 | .064 | .333 | .191 | .061 | .316 | .182 | .058 | .299 | .174 | .056 | |
| 2.0 | .321 | .176 | .054 | .312 | .172 | .053 | .295 | .164 | .051 | .280 | .157 | .049 | .265 | .150 | .047 | |
| 3.0 | .289 | .154 | .046 | .281 | .150 | .045 | .266 | .144 | .044 | .252 | .138 | .042 | .238 | .132 | .041 | |
| 4.0 | .262 | .136 | .040 | .255 | .133 | .039 | .241 | .128 | .038 | .228 | .123 | .037 | .217 | .118 | .036 | |
| 5.0 | .240 | .122 | .035 | .233 | .120 | .035 | .221 | .115 | .034 | .209 | .110 | .033 | .198 | .106 | .032 | |
| 6.0 | .220 | .110 | .032 | .214 | .108 | .031 | .203 | .104 | .030 | .193 | .100 | .029 | .183 | .096 | .029 | |
| 7.0 | .204 | .101 | .029 | .198 | .099 | .028 | .188 | .095 | .027 | .179 | .092 | .027 | .170 | .088 | .026 | |
| 8.0 | .189 | .093 | .026 | .185 | .091 | .026 | .175 | .088 | .025 | .167 | .084 | .024 | .158 | .081 | .024 | |
| 9.0 | .177 | .086 | .024 | .172 | .084 | .024 | .164 | .081 | .023 | .156 | .078 | .022 | .148 | .075 | .022 | |
| 10.0 | .166 | .079 | .022 | .162 | .078 | .022 | .154 | .075 | .021 | .147 | .073 | .021 | .140 | .070 | .020 | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients (CCEC) | | | | | | | | | |
| 0.0 | .263 | .263 | .263 | .225 | .225 | .225 | .154 | .154 | .154 | .088 | .088 | .088 | .028 | .028 | .028 | |
| 1.0 | .257 | .229 | .204 | .220 | .197 | .175 | .151 | .135 | .121 | .087 | .078 | .071 | .028 | .025 | .023 | |
| 2.0 | .250 | .206 | .168 | .214 | .177 | .146 | .147 | .123 | .102 | .085 | .071 | .060 | .027 | .023 | .019 | |
| 3.0 | .243 | .189 | .146 | .208 | .163 | .127 | .143 | .113 | .089 | .082 | .066 | .052 | .026 | .021 | .017 | |
| 4.0 | .235 | .176 | .131 | .201 | .152 | .114 | .139 | .106 | .080 | .080 | .062 | .047 | .026 | .020 | .016 | |
| 5.0 | .227 | .166 | .121 | .195 | .144 | .105 | .134 | .100 | .074 | .078 | .059 | .044 | .025 | .019 | .015 | |
| 6.0 | .220 | .158 | .113 | .189 | .137 | .099 | .130 | .096 | .070 | .076 | .056 | .042 | .024 | .018 | .014 | |
| 7.0 | .213 | .151 | .108 | .183 | .131 | .094 | .126 | .092 | .067 | .073 | .054 | .040 | .024 | .018 | .013 | |
| 8.0 | .206 | .145 | .104 | .177 | .126 | .090 | .123 | .089 | .064 | .071 | .052 | .038 | .023 | .017 | .013 | |
| 9.0 | .200 | .141 | .101 | .172 | .122 | .088 | .119 | .086 | .062 | .069 | .051 | .037 | .022 | .017 | .012 | |
| 10.0 | .194 | .136 | .098 | .167 | .118 | .086 | .116 | .083 | .061 | .068 | .049 | .036 | .022 | .016 | .012 | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ATC

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:7.630m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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 | 21.2 | 22.7 | 21.6 | 23.1 | 23.5 | 22.4 | 23.9 | 22.8 | 24.3 | 24.7 |
| 3H | 22.7 | 24.1 | 23.2 | 24.5 | 24.9 | 24.8 | 26.1 | 25.2 | 26.5 | 27.0 |
| 4H | 23.3 | 24.6 | 23.8 | 25.0 | 25.5 | 26.0 | 27.3 | 26.5 | 27.7 | 28.2 |
| 6H | 23.7 | 24.9 | 24.2 | 25.4 | 25.9 | 27.4 | 28.6 | 27.9 | 29.1 | 29.5 |
| 8H | 23.8 | 25.0 | 24.3 | 25.5 | 26.0 | 28.2 | 29.3 | 28.7 | 29.8 | 30.3 |
| 12H | 23.9 | 25.0 | 24.4 | 25.5 | 26.0 | 29.1 | 30.2 | 29.6 | 30.7 | 31.2 |
| 4H 2H | 22.1 | 23.4 | 22.6 | 23.8 | 24.3 | 23.0 | 24.3 | 23.5 | 24.7 | 25.2 |
| 3H | 23.8 | 25.0 | 24.3 | 25.4 | 25.9 | 25.5 | 26.6 | 26.0 | 27.1 | 27.6 |
| 4H | 24.6 | 25.6 | 25.1 | 26.1 | 26.7 | 26.9 | 28.0 | 27.5 | 28.5 | 29.0 |
| 6H | 25.2 | 26.1 | 25.7 | 26.6 | 27.2 | 28.5 | 29.4 | 29.0 | 30.0 | 30.5 |
| 8H | 25.4 | 26.2 | 25.9 | 26.8 | 27.3 | 29.4 | 30.3 | 29.9 | 30.8 | 31.4 |
| 12H | 25.5 | 26.3 | 26.1 | 26.8 | 27.4 | 30.4 | 31.2 | 31.0 | 31.8 | 32.4 |
| 8H 4H | 25.3 | 26.1 | 25.8 | 26.6 | 27.2 | 27.2 | 28.1 | 27.8 | 28.6 | 29.2 |
| 6H | 26.1 | 26.8 | 26.7 | 27.4 | 28.0 | 29.0 | 29.8 | 29.6 | 30.3 | 31.0 |
| 8H | 26.5 | 27.1 | 27.1 | 27.7 | 28.4 | 30.1 | 30.7 | 30.7 | 31.3 | 32.0 |
| 12H | 26.7 | 27.3 | 27.4 | 27.9 | 28.6 | 31.4 | 31.9 | 32.0 | 32.5 | 33.2 |
| 12H 4H | 25.4 | 26.2 | 26.0 | 26.8 | 27.4 | 27.2 | 28.0 | 27.8 | 28.6 | 29.2 |
| 6H | 26.4 | 27.1 | 27.0 | 27.7 | 28.3 | 29.1 | 29.8 | 29.7 | 30.4 | 31.0 |
| 8H | 26.9 | 27.5 | 27.5 | 28.1 | 28.8 | 30.3 | 30.8 | 30.9 | 31.4 | 32.1 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.2 | | | | |
| 2.0H | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 5775 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.1)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:ATC

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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 Humidity:60%
 Test Distance:7.630m [K=1.0000]
 Remarks:

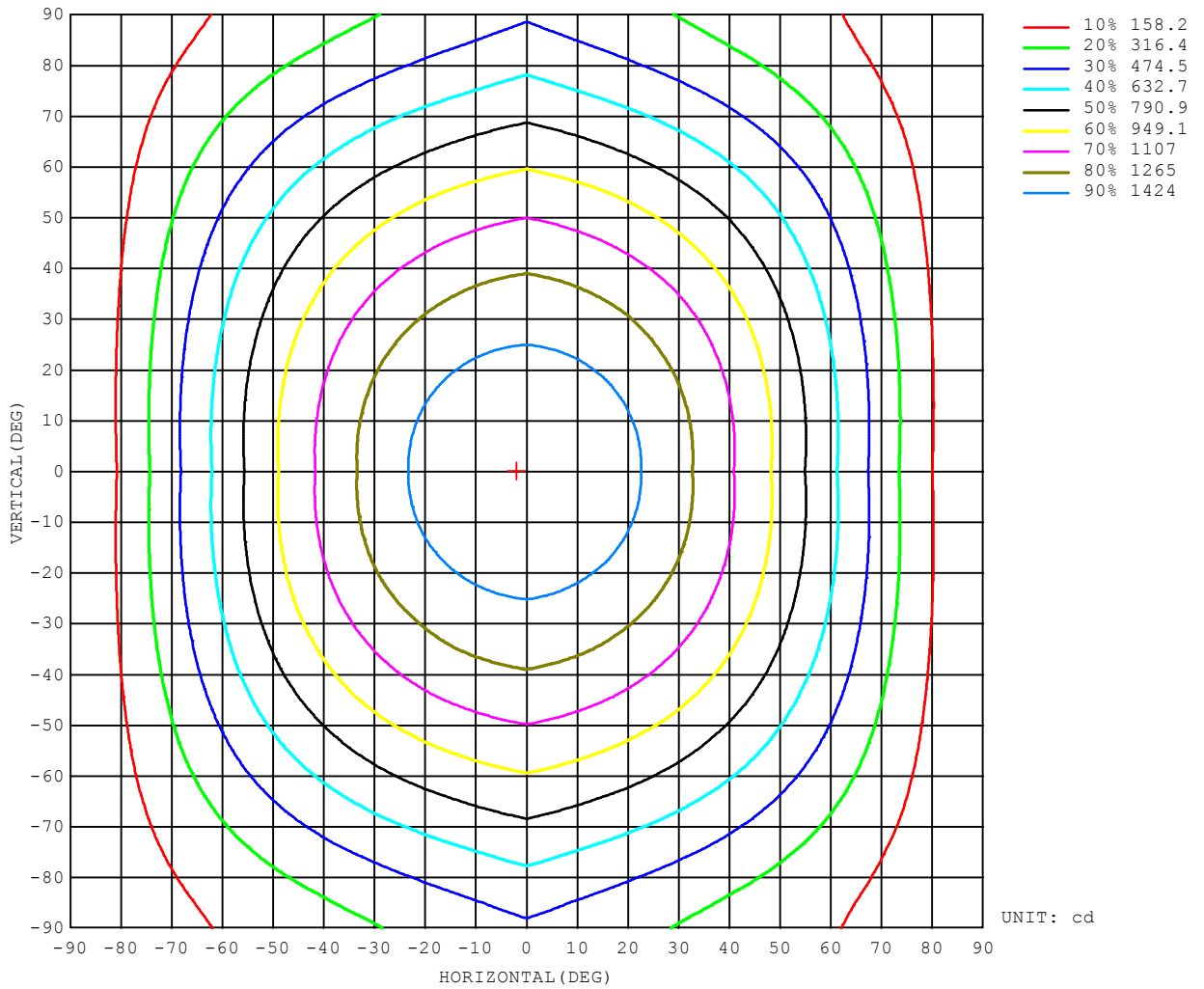
UTILIZATION FACTORS TABLE

| 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 | 52 | 39 | 32 | 51 | 39 | 32 | 49 | 38 | 32 | 25 |
| 0.80 | 61 | 49 | 41 | 60 | 48 | 40 | 58 | 47 | 40 | 32 |
| 1.00 | 69 | 57 | 49 | 68 | 56 | 48 | 65 | 57 | 48 | 40 |
| 1.25 | 76 | 64 | 56 | 74 | 63 | 56 | 71 | 61 | 54 | 46 |
| 1.50 | 81 | 70 | 62 | 79 | 69 | 61 | 75 | 66 | 59 | 50 |
| 2.00 | 88 | 78 | 70 | 86 | 76 | 69 | 81 | 73 | 67 | 57 |
| 2.50 | 93 | 83 | 76 | 90 | 81 | 75 | 85 | 78 | 72 | 61 |
| 3.00 | 96 | 88 | 81 | 93 | 86 | 79 | 88 | 82 | 76 | 65 |
| 4.00 | 101 | 93 | 88 | 97 | 91 | 86 | 92 | 86 | 82 | 70 |
| 5.00 | 103 | 97 | 92 | 100 | 95 | 90 | 94 | 90 | 86 | 73 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ATC

γ Range: 0 - 180DEG
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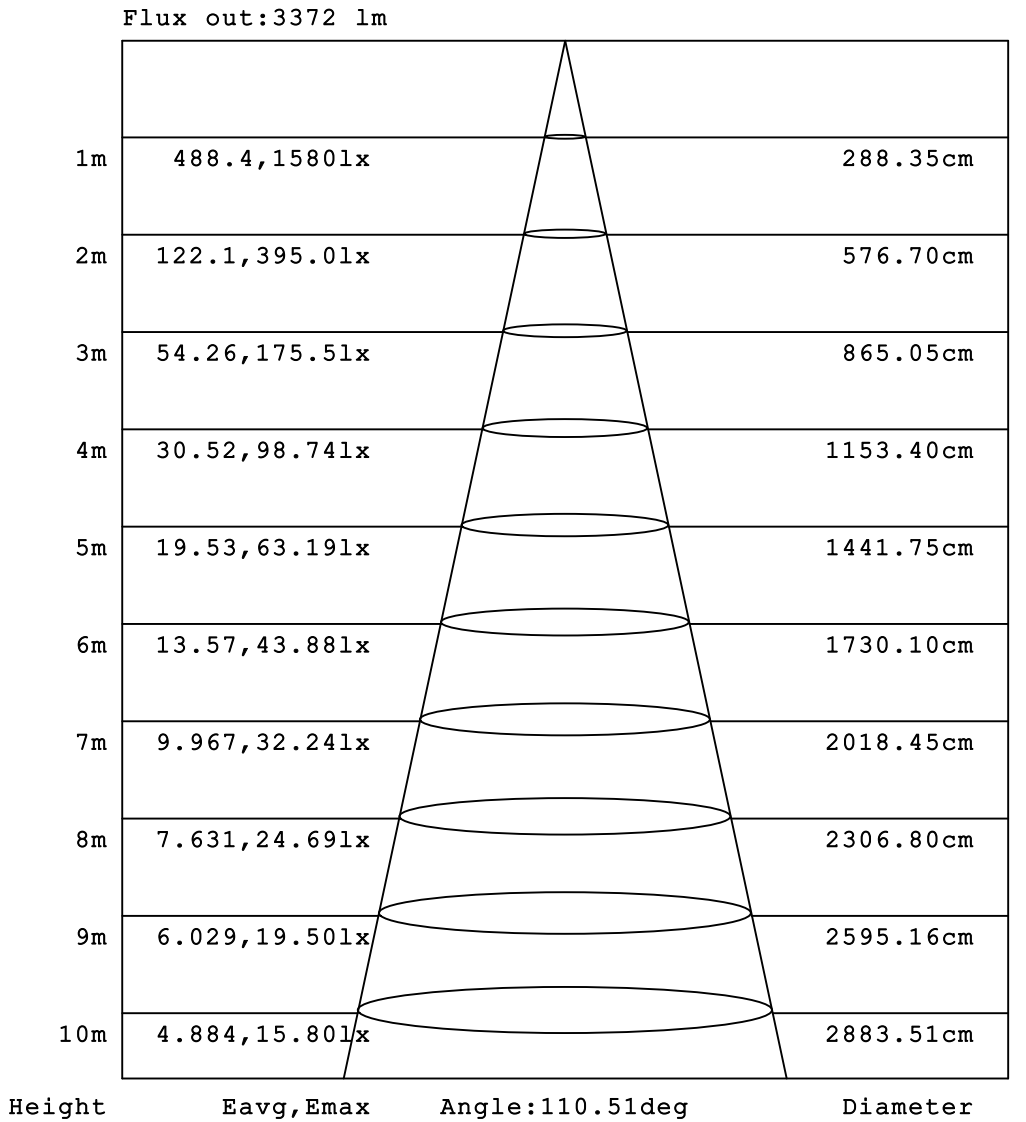
ISOCANDELA DIAGRAM



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 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: ATC

γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
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 Remarks:

AAI Figure

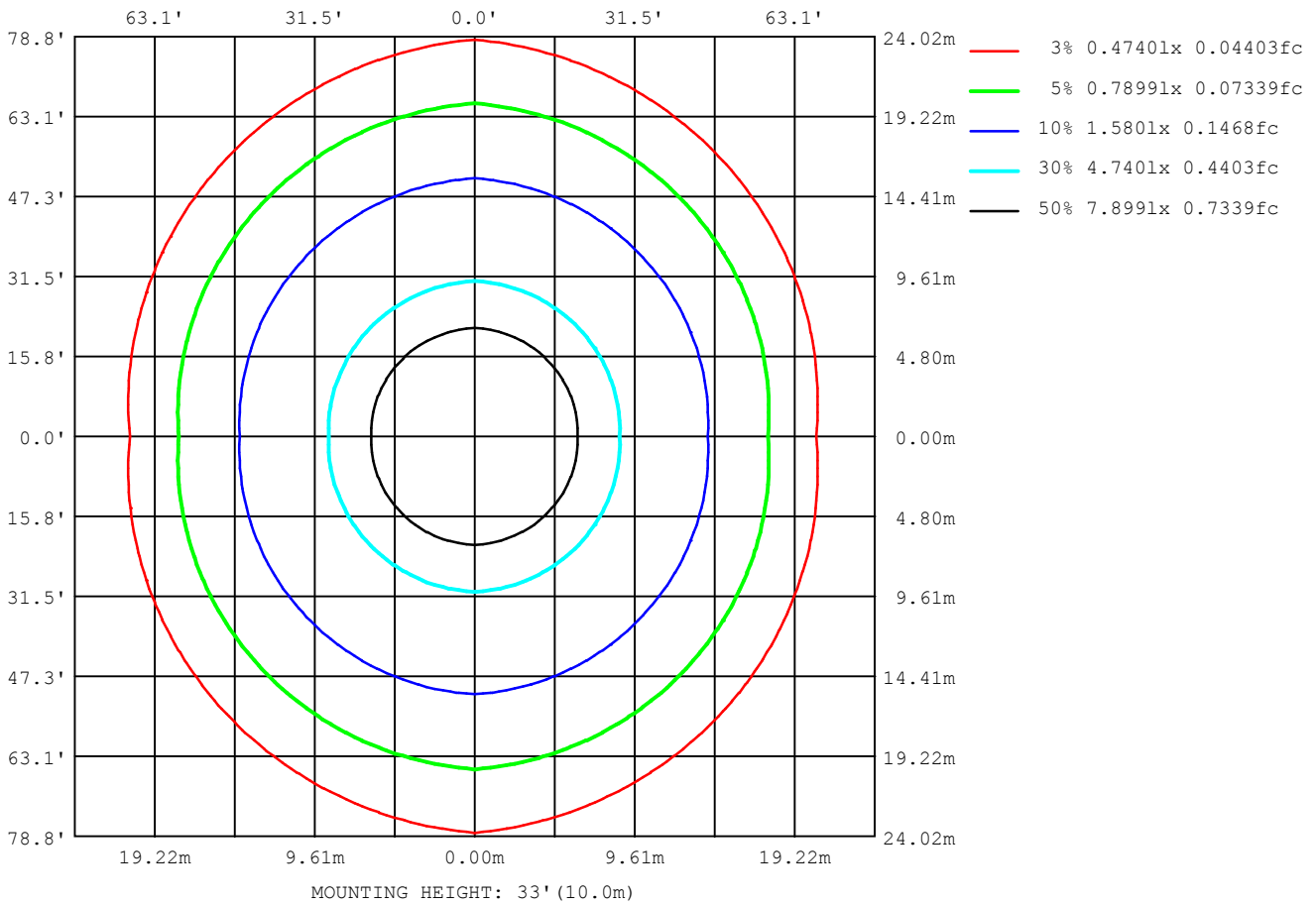


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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γ Range: 0 - 180DEG
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ISOLUX DIAGRAM



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LED Avg.L Report

| | | |
|--|-------|------------------|
| Test:U:230.21V I:0.2505A P:54.307W PF:0.9416 Freq:49.99Hz Lamp Flux:5774.73x1 lm | | |
| NAME: 一字灯 50W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ATC | SUR.: | Shielding Angle: |

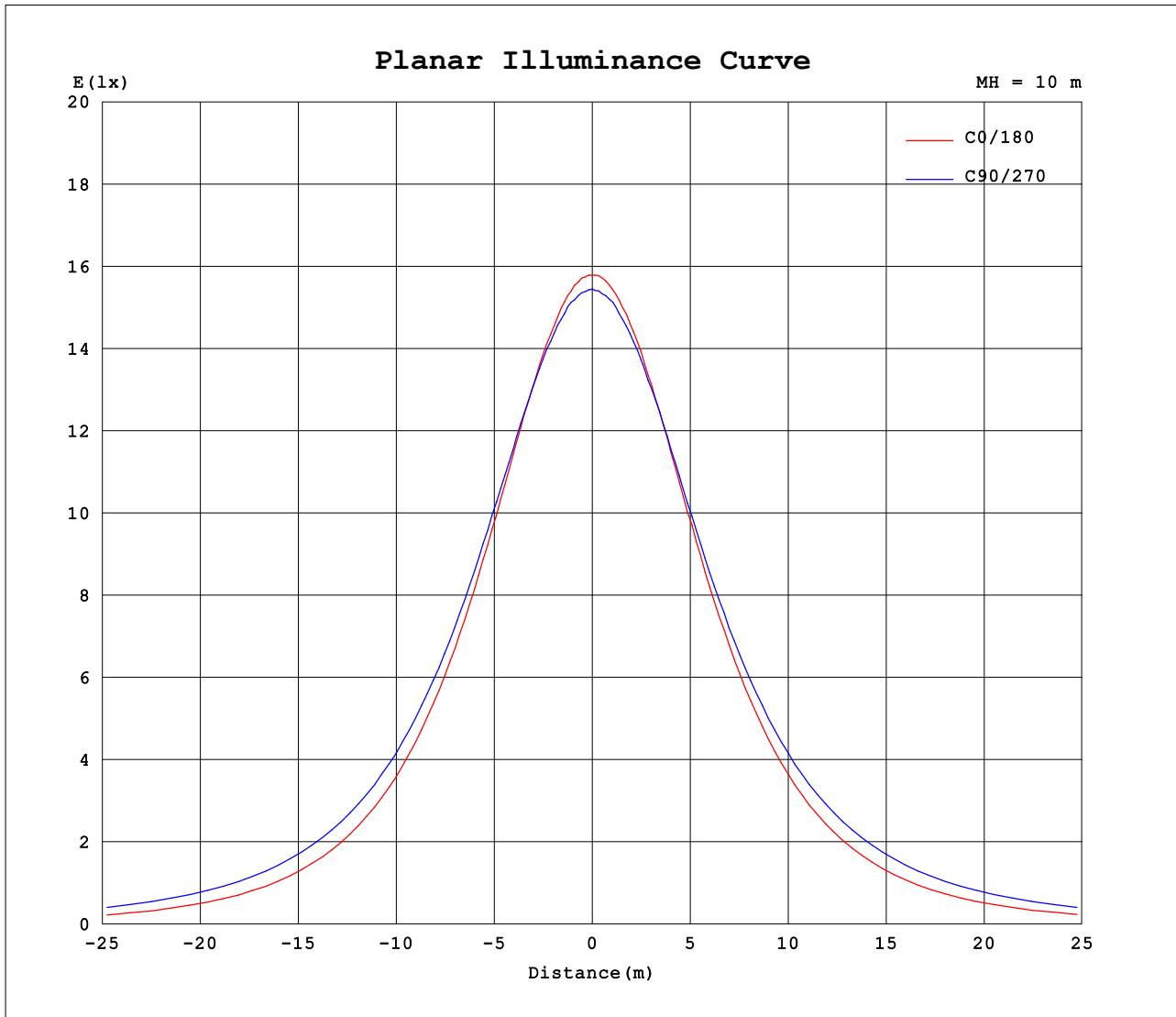
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 12909 |
| L_0~180 (75) av | 11108 |
| L_0~180 (85) av | 8181 |
| L_90~270 (65) av | 20187 |
| L_90~270 (75) av | 26295 |
| L_90~270 (85) av | 59780 |
| L_45 (65) av | 17474 |
| L_45 (75) av | 20627 |
| L_45 (85) av | 40475 |

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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 Remarks:



ATC MIDDLE EAST FZCO

ATC
Dubai, UAE
BCW, JAFZA View 18 &19, First Floor, Jebel Ali Free Zone.
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