



ATC MIDDLE EAST FZCO



 rafeed[®]
LED
Eseries

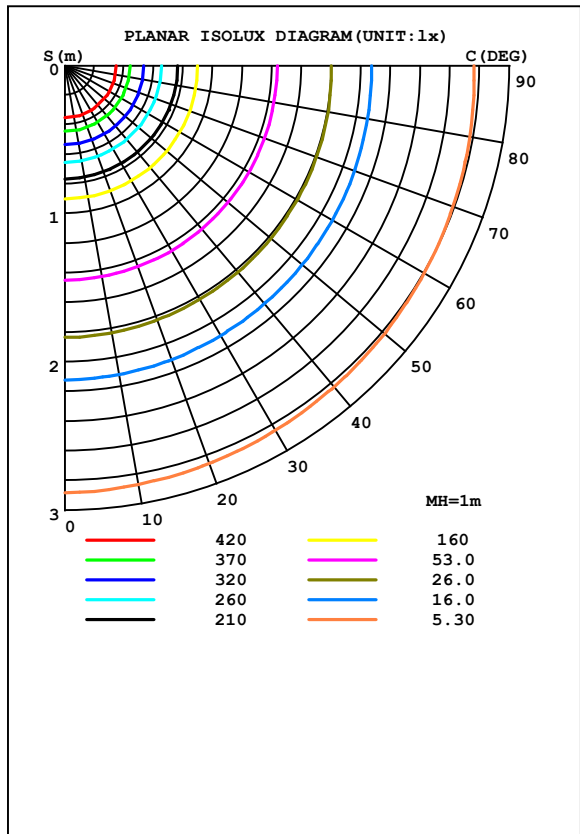
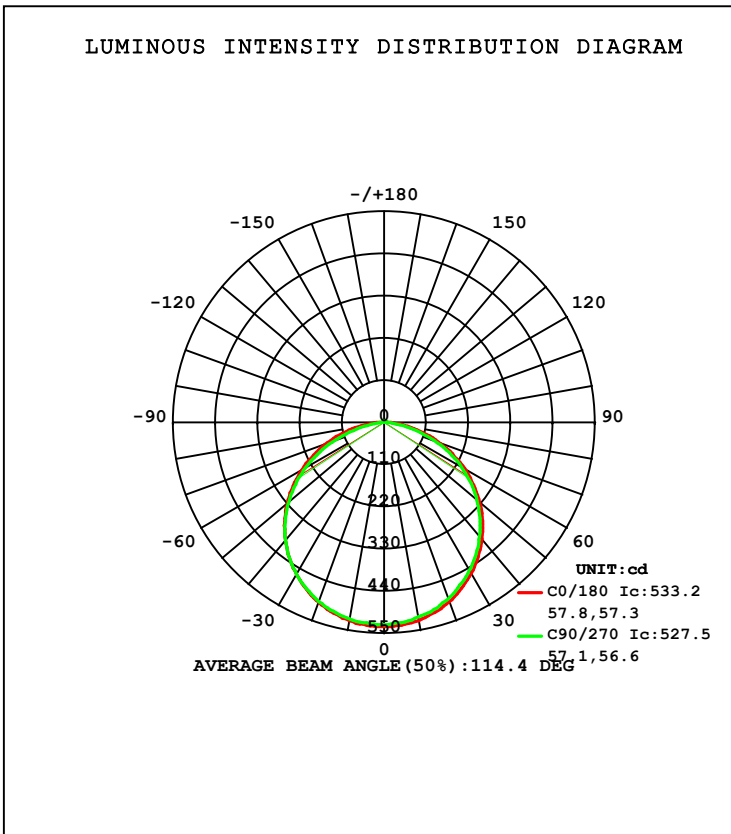
2022

OUR BEAUTIFUL WORLD WITH
LIGHTS.

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.21V I:0.0867A P:19.421W PF:0.9726 Freq:49.99Hz Lamp Flux:1547.94x1 lm | | |
| NAME: Panel Down light 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ATC | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 79.70 lm/W | | | |
|-------------------|----------------------|----------------------------------|--------|---------------------|-----------|
| MODEL | Panel Down light 20W | I _{max} (cd) | 533.2 | S/MH (C0/180) | 1.27 |
| NOMINAL POWER (W) | 20 | LOR (%) | 100.0 | S/MH (C90/270) | 1.26 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 1547.9 | η UP, DN (C0-180) | 0.6, 49.8 |
| NOMINAL FLUX (lm) | 1547.94 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.5, 49.1 |
| LAMPS INSIDE | 1 | η up (%) | 1.1 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE (V) | 230 | η down (%) | 98.9 | CIBSE SHR MAX | 1.35 |



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

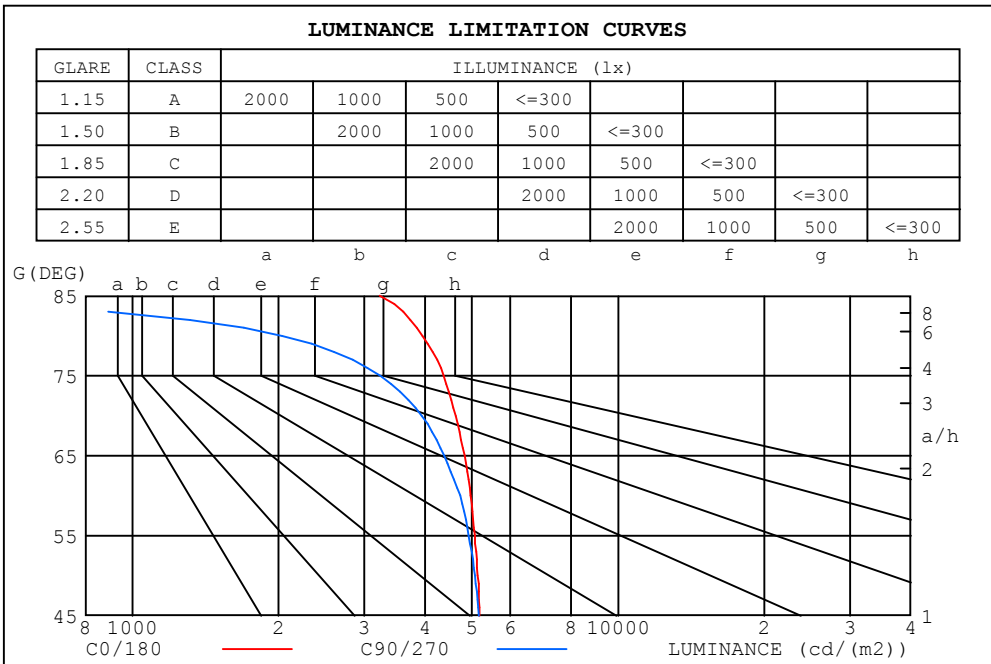
ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | | γ | Φ zone | Φ total | %lum, lamp |
|----------|------------------------------------------------------|-------|--------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10 | 525.2 | 520.4 | 524.7 | 516.0 | | | | | 0- 10 | 50.18 | 50.18 | 3.24,3.24 |
| 20 | 499.7 | 497.2 | 498.0 | 489.6 | | | | | 10- 20 | 144.2 | 194.4 | 12.6,12.6 |
| 30 | 457.6 | 457.5 | 455.1 | 445.7 | | | | | 20- 30 | 219.8 | 414.1 | 26.8,26.8 |
| 40 | 400.6 | 400.7 | 398.1 | 388.0 | | | | | 30- 40 | 267.3 | 681.5 | 44,44 |
| 50 | 330.4 | 325.7 | 326.2 | 316.4 | | | | | 40- 50 | 279.4 | 960.9 | 62.1,62.1 |
| 60 | 247.9 | 236.3 | 243.3 | 234.2 | | | | | 50- 60 | 253.5 | 1214 | 78.5,78.5 |
| 70 | 158.5 | 134.8 | 151.5 | 139.0 | | | | | 60- 70 | 191.4 | 1406 | 90.8,90.8 |
| 80 | 68.72 | 35.35 | 63.40 | 43.48 | | | | | 70- 80 | 103.9 | 1510 | 97.5,97.5 |
| 90 | 0.8703 | 1.206 | 0.6048 | 1.674 | | | | | 80- 90 | 21.35 | 1531 | 98.9,98.9 |
| 100 | 1.520 | 1.557 | 1.090 | 2.338 | | | | | 90-100 | 1.407 | 1533 | 99,99 |
| 110 | 2.247 | 2.065 | 1.692 | 1.670 | | | | | 100-110 | 1.734 | 1534 | 99.1,99.1 |
| 120 | 2.932 | 2.785 | 2.326 | 2.440 | | | | | 110-120 | 2.263 | 1537 | 99.3,99.3 |
| 130 | 3.510 | 3.366 | 2.934 | 3.083 | | | | | 120-130 | 2.619 | 1539 | 99.4,99.4 |
| 140 | 3.931 | 3.874 | 3.469 | 3.329 | | | | | 130-140 | 2.669 | 1542 | 99.6,99.6 |
| 150 | 4.296 | 4.201 | 3.958 | 3.918 | | | | | 140-150 | 2.425 | 1544 | 99.8,99.8 |
| 160 | 4.547 | 4.509 | 4.347 | 4.238 | | | | | 150-160 | 1.963 | 1546 | 99.9,99.9 |
| 170 | 4.747 | 4.763 | 4.674 | 4.647 | | | | | 160-170 | 1.293 | 1547 | 100,100 |
| 180 | 4.863 | 4.836 | 4.901 | 4.813 | | | | | 170-180 | 0.4554 | 1548 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd Less than 35% Percent = 13.2 % | | | | | | | | | 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



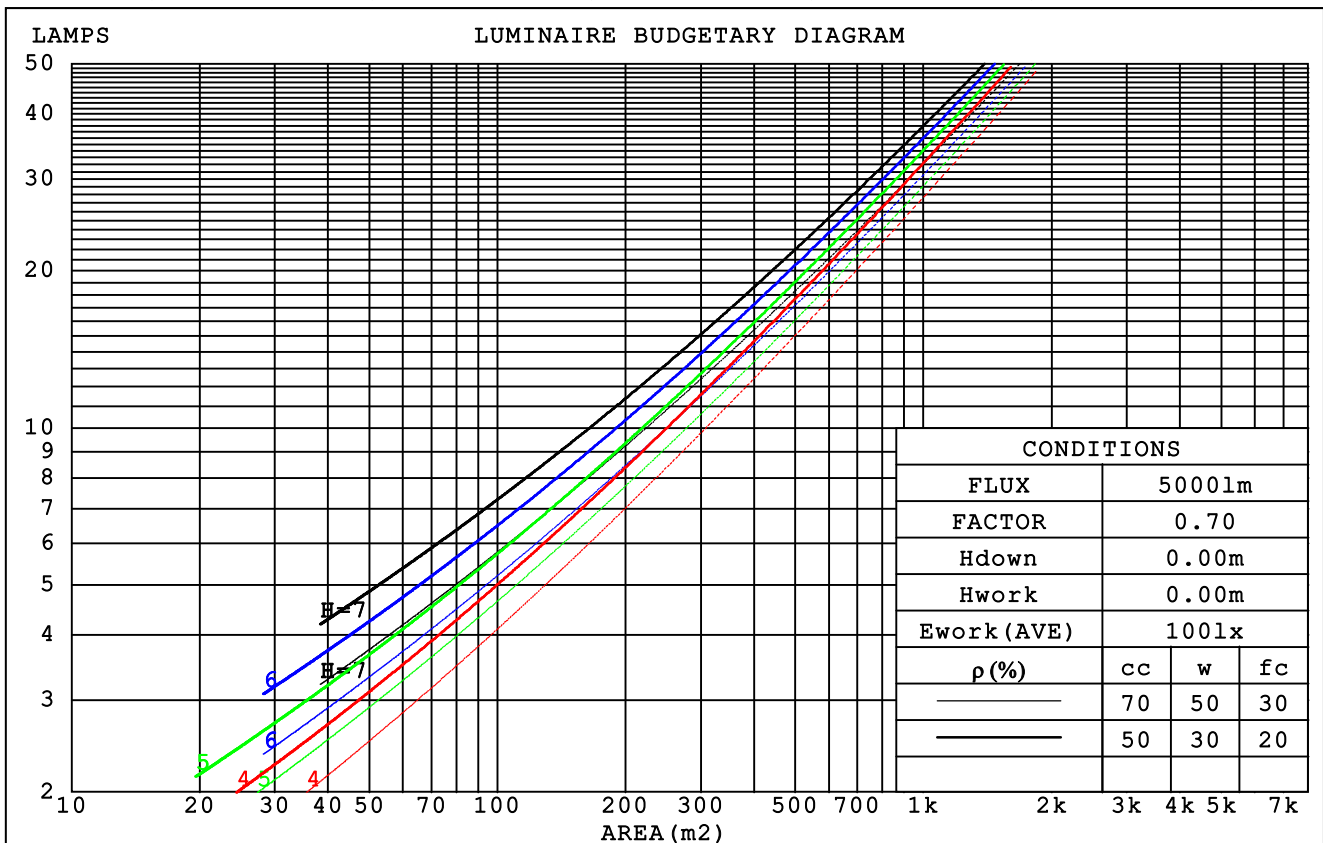
| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 3226 | 190 |
| 80 | 3958 | 2036 |
| 75 | 4367 | 3236 |
| 70 | 4635 | 3941 |
| 65 | 4824 | 4386 |
| 60 | 4957 | 4725 |
| 55 | 5065 | 4922 |
| 50 | 5140 | 5067 |
| 45 | 5188 | 5163 |

C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
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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 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0 | 1.04 | .90 | .96 | 1.02 | .98 | .94 | .97 | .94 | .91 | .93 | .90 | .88 | .89 | .87 | .85 | .83 |
| 2.0 | .90 | .84 | .78 | .89 | .82 | .77 | .85 | .80 | .75 | .81 | .77 | .73 | .78 | .75 | .71 | .69 |
| 3.0 | .79 | .71 | .65 | .78 | .70 | .64 | .75 | .68 | .63 | .72 | .66 | .62 | .69 | .64 | .60 | .58 |
| 4.0 | .70 | .61 | .55 | .69 | .61 | .54 | .66 | .59 | .53 | .64 | .58 | .53 | .61 | .56 | .52 | .49 |
| 5.0 | .63 | .54 | .47 | .61 | .53 | .47 | .59 | .52 | .46 | .57 | .51 | .45 | .55 | .49 | .45 | .43 |
| 6.0 | .56 | .47 | .41 | .55 | .47 | .41 | .53 | .46 | .40 | .52 | .45 | .40 | .50 | .44 | .39 | .37 |
| 7.0 | .51 | .42 | .36 | .50 | .42 | .36 | .49 | .41 | .36 | .47 | .40 | .35 | .46 | .39 | .35 | .33 |
| 8.0 | .47 | .38 | .32 | .46 | .38 | .32 | .44 | .37 | .32 | .43 | .36 | .31 | .42 | .36 | .31 | .29 |
| 9.0 | .43 | .34 | .29 | .42 | .34 | .29 | .41 | .34 | .29 | .40 | .33 | .28 | .39 | .33 | .28 | .26 |
| 10.0 | .39 | .31 | .26 | .39 | .31 | .26 | .38 | .31 | .26 | .37 | .30 | .26 | .36 | .30 | .26 | .24 |



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 | .304 | .173 | .055 | .297 | .169 | .054 | .283 | .162 | .052 | .270 | .156 | .050 | .258 | .150 | .048 | |
| 2.0 | .289 | .158 | .049 | .282 | .155 | .048 | .270 | .150 | .047 | .259 | .145 | .045 | .248 | .140 | .044 | |
| 3.0 | .268 | .143 | .043 | .262 | .141 | .042 | .252 | .136 | .041 | .242 | .132 | .041 | .232 | .129 | .040 | |
| 4.0 | .248 | .129 | .038 | .243 | .127 | .038 | .233 | .124 | .037 | .224 | .120 | .036 | .216 | .117 | .036 | |
| 5.0 | .230 | .117 | .034 | .225 | .116 | .034 | .216 | .113 | .033 | .208 | .110 | .033 | .201 | .107 | .032 | |
| 6.0 | .213 | .107 | .031 | .209 | .106 | .030 | .201 | .103 | .030 | .194 | .101 | .030 | .188 | .099 | .029 | |
| 7.0 | .198 | .098 | .028 | .195 | .097 | .028 | .188 | .095 | .027 | .182 | .093 | .027 | .175 | .091 | .027 | |
| 8.0 | .185 | .091 | .025 | .182 | .090 | .025 | .176 | .088 | .025 | .170 | .086 | .025 | .165 | .085 | .025 | |
| 9.0 | .174 | .084 | .023 | .171 | .083 | .023 | .165 | .082 | .023 | .160 | .080 | .023 | .155 | .079 | .023 | |
| 10.0 | .163 | .078 | .022 | .161 | .078 | .022 | .156 | .076 | .021 | .151 | .075 | .021 | .147 | .074 | .021 | |

| 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 | .199 | .199 | .199 | .170 | .170 | .170 | .116 | .116 | .116 | .067 | .067 | .067 | .021 | .021 | .021 | |
| 1.0 | .188 | .165 | .143 | .161 | .141 | .123 | .110 | .097 | .085 | .063 | .056 | .050 | .020 | .018 | .016 | |
| 2.0 | .180 | .140 | .107 | .154 | .121 | .092 | .106 | .084 | .064 | .061 | .049 | .038 | .020 | .016 | .012 | |
| 3.0 | .173 | .123 | .083 | .148 | .106 | .072 | .102 | .074 | .050 | .059 | .043 | .030 | .019 | .014 | .010 | |
| 4.0 | .165 | .109 | .067 | .142 | .095 | .058 | .097 | .066 | .041 | .056 | .039 | .024 | .018 | .013 | .008 | |
| 5.0 | .158 | .099 | .056 | .135 | .086 | .049 | .093 | .060 | .034 | .054 | .035 | .020 | .017 | .011 | .007 | |
| 6.0 | .151 | .091 | .048 | .129 | .079 | .042 | .089 | .055 | .029 | .052 | .032 | .017 | .017 | .011 | .006 | |
| 7.0 | .144 | .084 | .042 | .124 | .073 | .036 | .085 | .051 | .026 | .050 | .030 | .015 | .016 | .010 | .005 | |
| 8.0 | .137 | .078 | .037 | .118 | .068 | .033 | .082 | .048 | .023 | .048 | .028 | .014 | .015 | .009 | .005 | |
| 9.0 | .131 | .073 | .034 | .113 | .063 | .029 | .078 | .045 | .021 | .046 | .026 | .012 | .015 | .009 | .004 | |
| 10.0 | .126 | .069 | .031 | .108 | .060 | .027 | .075 | .042 | .019 | .044 | .025 | .011 | .014 | .008 | .004 | |

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 | 18.6 | 20.1 | 18.9 | 20.3 | 20.5 | 18.4 | 19.9 | 18.7 | 20.1 | 20.4 |
| 3H | 20.1 | 21.5 | 20.4 | 21.8 | 22.0 | 19.8 | 21.2 | 20.1 | 21.4 | 21.7 |
| 4H | 20.8 | 22.1 | 21.1 | 22.4 | 22.6 | 20.2 | 21.5 | 20.5 | 21.8 | 22.1 |
| 6H | 21.2 | 22.5 | 21.6 | 22.8 | 23.1 | 20.4 | 21.6 | 20.7 | 21.9 | 22.2 |
| 8H | 21.4 | 22.6 | 21.7 | 22.9 | 23.2 | 20.4 | 21.6 | 20.7 | 21.9 | 22.2 |
| 12H | 21.4 | 22.6 | 21.8 | 22.9 | 23.2 | 20.3 | 21.5 | 20.7 | 21.8 | 22.1 |
| 4H 2H | 19.1 | 20.5 | 19.5 | 20.7 | 21.0 | 19.0 | 20.3 | 19.4 | 20.6 | 20.9 |
| 3H | 20.9 | 22.0 | 21.3 | 22.4 | 22.7 | 20.6 | 21.7 | 20.9 | 22.0 | 22.3 |
| 4H | 21.6 | 22.7 | 22.0 | 23.0 | 23.4 | 21.1 | 22.2 | 21.5 | 22.5 | 22.9 |
| 6H | 22.2 | 23.1 | 22.6 | 23.5 | 23.9 | 21.4 | 22.3 | 21.8 | 22.7 | 23.1 |
| 8H | 22.4 | 23.3 | 22.8 | 23.6 | 24.1 | 21.4 | 22.3 | 21.8 | 22.6 | 23.1 |
| 12H | 22.5 | 23.3 | 23.0 | 23.7 | 24.1 | 21.4 | 22.2 | 21.8 | 22.6 | 23.0 |
| 8H 4H | 21.8 | 22.7 | 22.3 | 23.1 | 23.5 | 21.4 | 22.2 | 21.8 | 22.6 | 23.0 |
| 6H | 22.5 | 23.2 | 23.0 | 23.7 | 24.1 | 21.7 | 22.5 | 22.2 | 22.9 | 23.3 |
| 8H | 22.8 | 23.4 | 23.2 | 23.9 | 24.3 | 21.8 | 22.4 | 22.3 | 22.9 | 23.3 |
| 12H | 23.0 | 23.5 | 23.4 | 24.0 | 24.5 | 21.8 | 22.3 | 22.3 | 22.8 | 23.3 |
| 12H 4H | 21.8 | 22.6 | 22.3 | 23.0 | 23.4 | 21.4 | 22.2 | 21.8 | 22.6 | 23.0 |
| 6H | 22.5 | 23.2 | 23.0 | 23.6 | 24.1 | 21.8 | 22.4 | 22.3 | 22.9 | 23.3 |
| 8H | 22.8 | 23.4 | 23.3 | 23.8 | 24.3 | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 1548 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.5)

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:

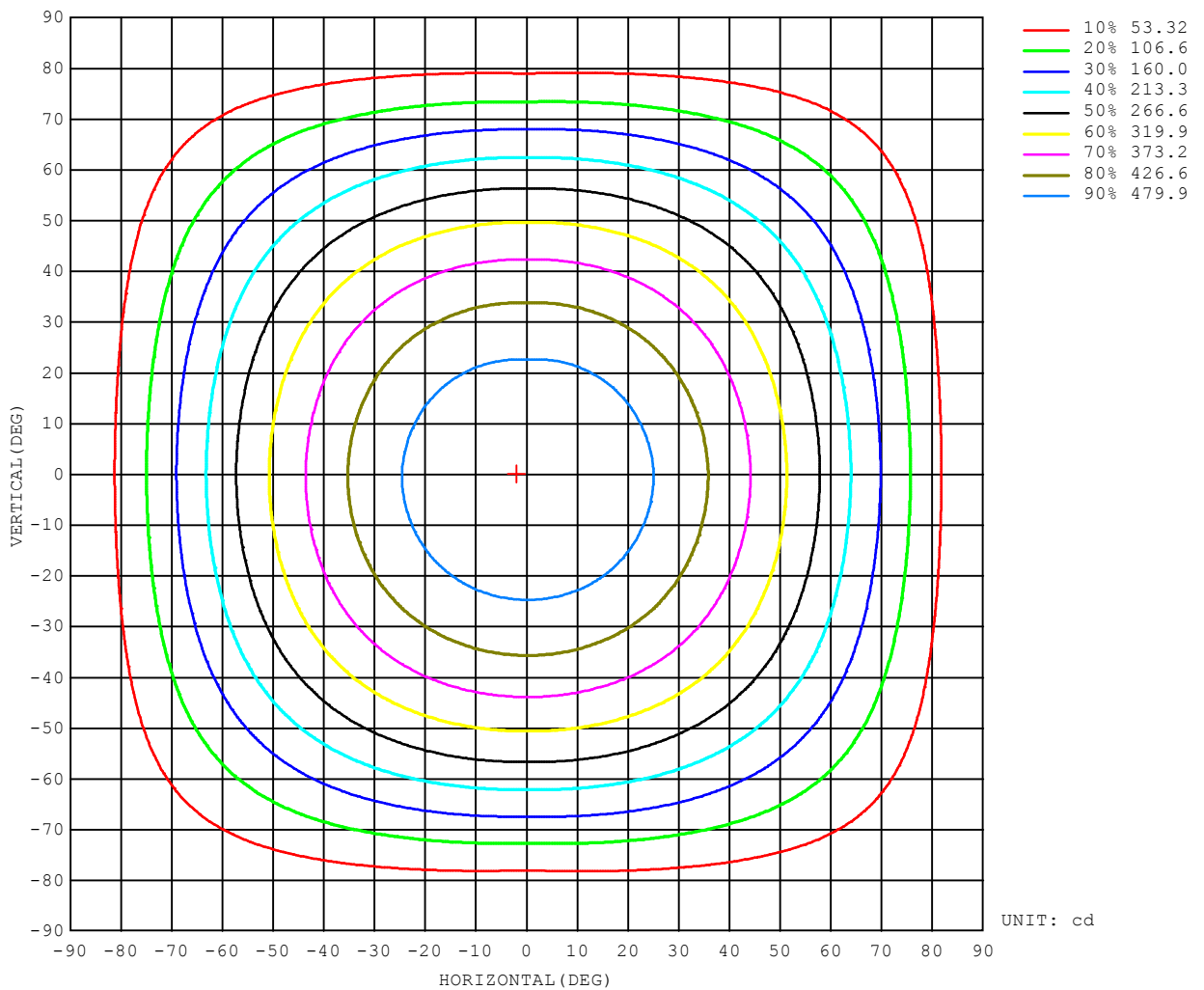
UTILIZATION FACTORS TABLE

| 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 | 57 | 45 | 38 | 56 | 45 | 38 | 55 | 45 | 38 | 32 |
| 0.80 | 67 | 56 | 48 | 66 | 55 | 48 | 64 | 54 | 48 | 41 |
| 1.00 | 76 | 65 | 57 | 74 | 64 | 57 | 72 | 65 | 56 | 49 |
| 1.25 | 83 | 72 | 65 | 81 | 72 | 65 | 79 | 70 | 64 | 56 |
| 1.50 | 88 | 78 | 71 | 86 | 77 | 70 | 83 | 75 | 69 | 62 |
| 2.00 | 95 | 86 | 80 | 93 | 85 | 79 | 89 | 83 | 77 | 69 |
| 2.50 | 99 | 91 | 85 | 97 | 90 | 84 | 93 | 87 | 82 | 74 |
| 3.00 | 102 | 95 | 90 | 100 | 94 | 89 | 96 | 91 | 86 | 78 |
| 4.00 | 106 | 100 | 96 | 104 | 99 | 94 | 99 | 95 | 92 | 82 |
| 5.00 | 109 | 104 | 100 | 106 | 102 | 98 | 101 | 98 | 95 | 85 |
| 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
 γ Interval: 1.0DEG
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 Humidity: 60%
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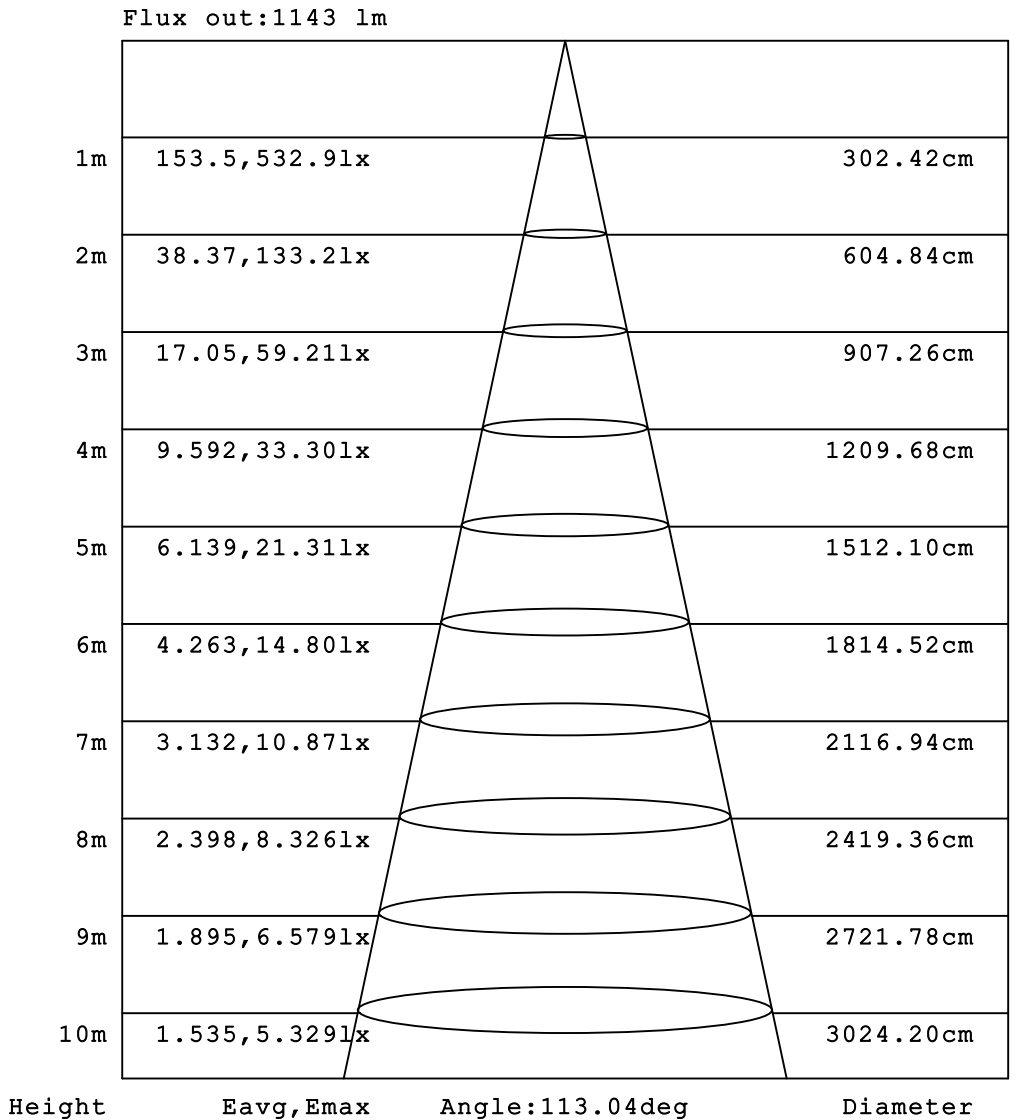
ISOCANDELA DIAGRAM



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
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 Remarks:

AAI Figure

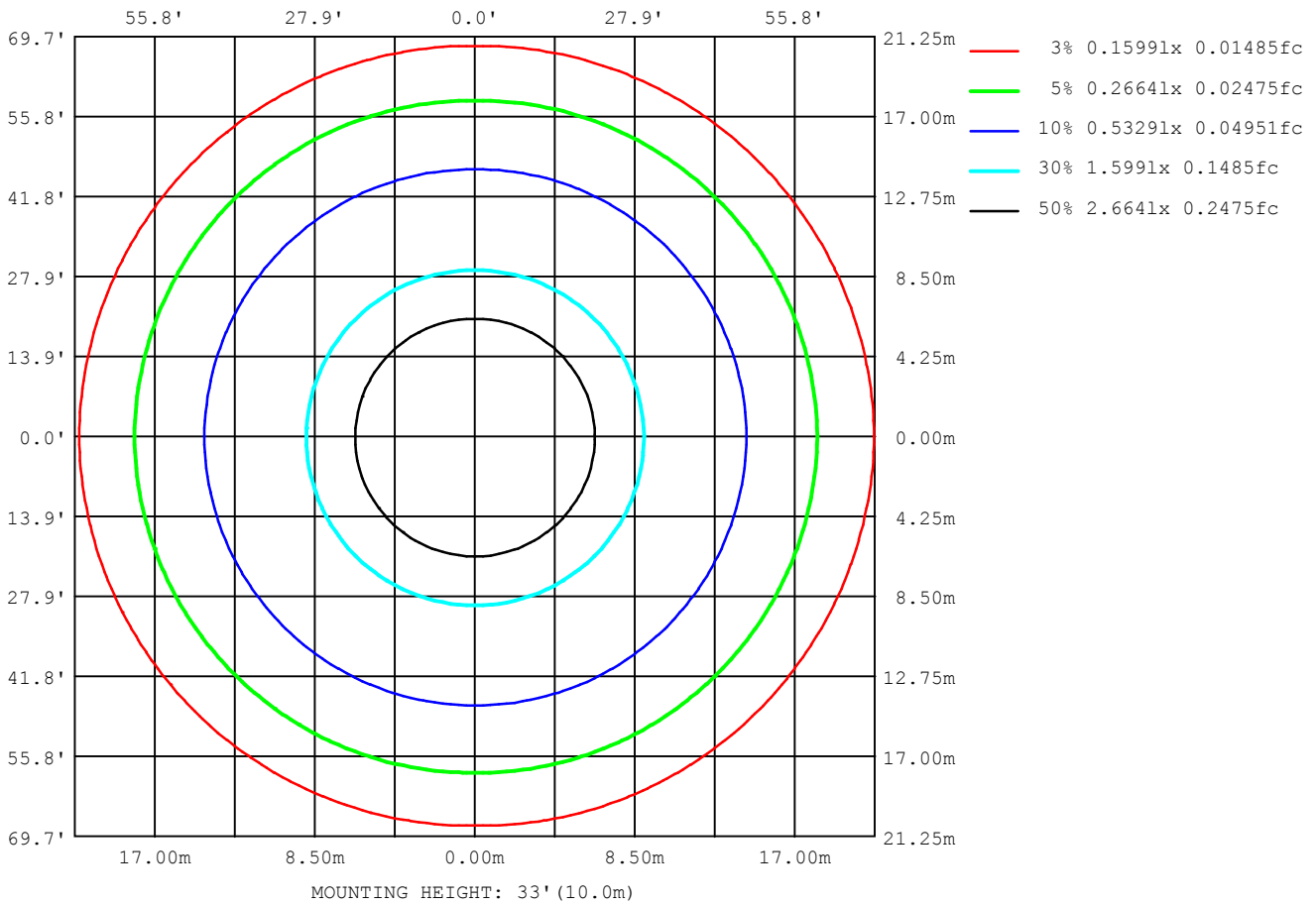


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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ISOLUX DIAGRAM



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γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 60%
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 Remarks:

LED Avg.L Report

| | | |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:230.21V I:0.0867A P:19.421W PF:0.9726 Freq:49.99Hz Lamp Flux:1547.94x1 lm | | |
| NAME: DL8G 20W 6000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: SEE | SUR.: | Shielding Angle: |

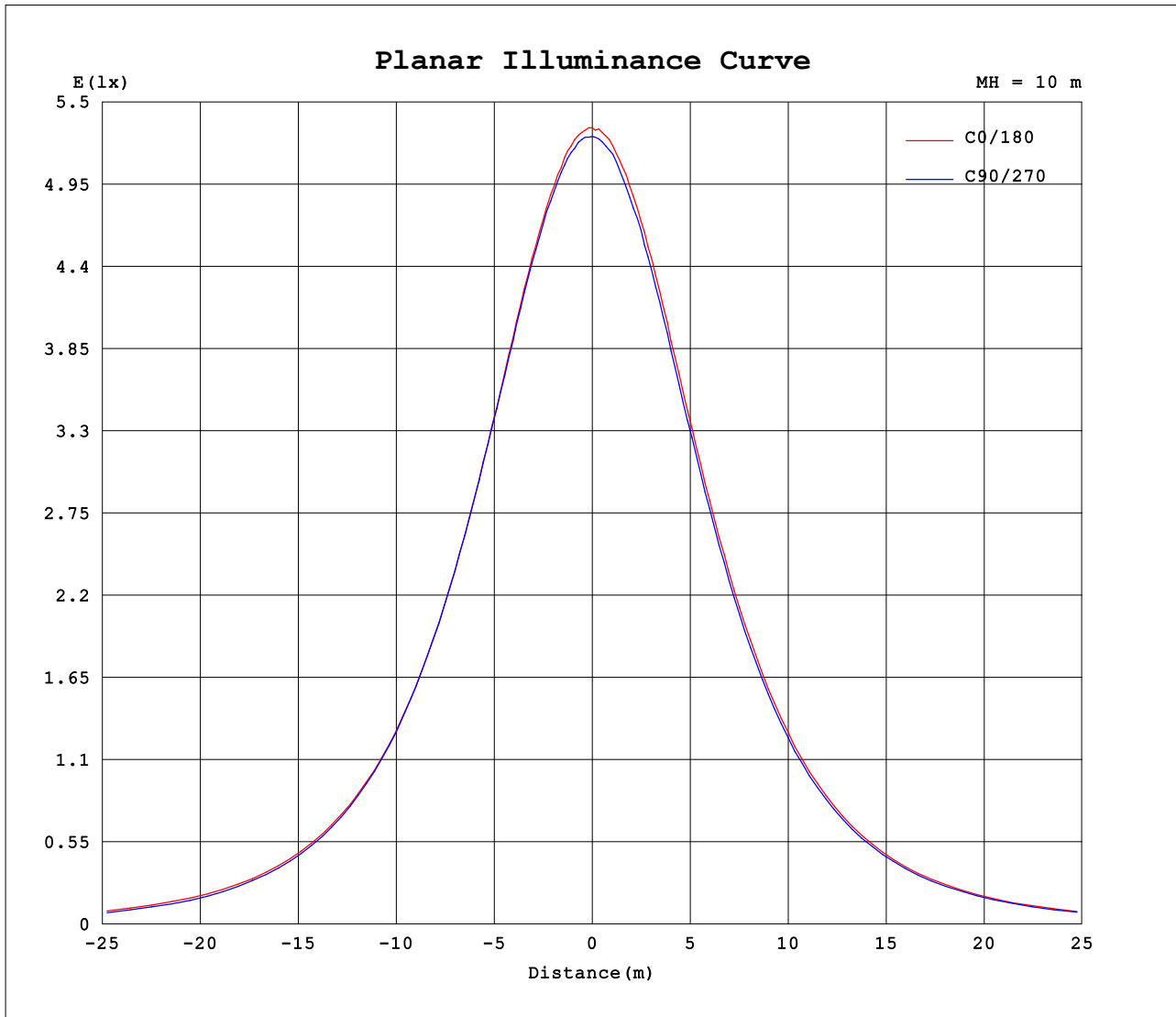
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 4744 |
| L_0~180 (75) av | 4240 |
| L_0~180 (85) av | 3112 |
| L_90~270 (65) av | 4412 |
| L_90~270 (75) av | 3351 |
| L_90~270 (85) av | 460 |
| L_45 (65) av | 4532 |
| L_45 (75) av | 3676 |
| L_45 (85) av | 1447 |

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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 Remarks:



ATC MIDDLE EAST FZCO

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