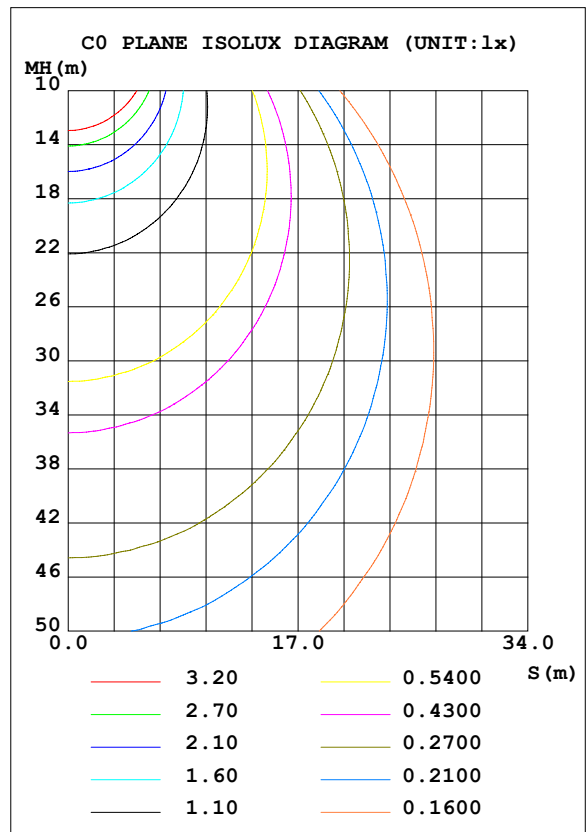
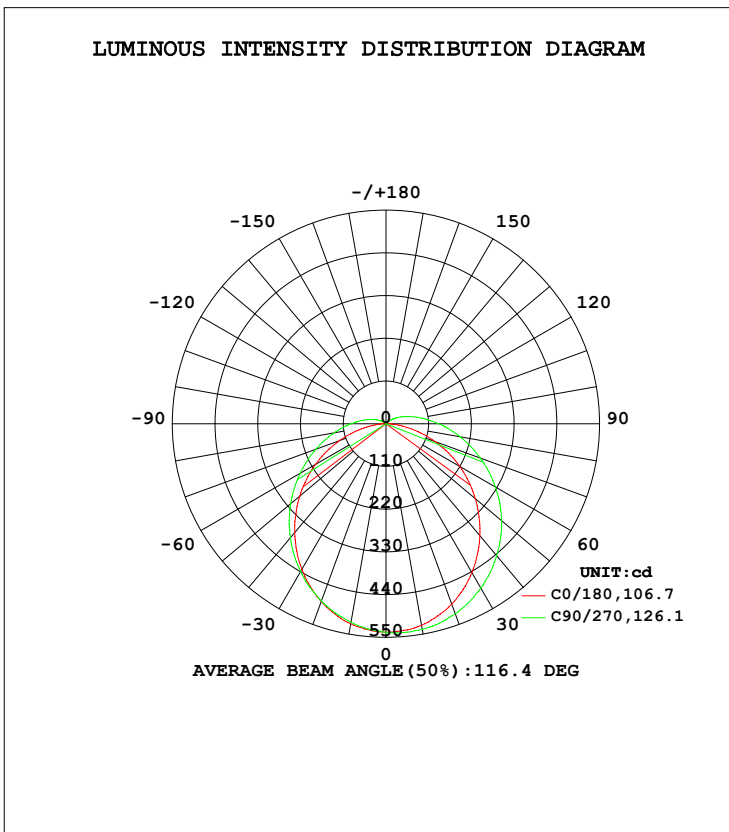


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

| DATA OF LAMP      |             | PHOTOMETRIC DATA Eff: 147.21 lm/W |        |                     |           |
|-------------------|-------------|-----------------------------------|--------|---------------------|-----------|
| MODEL             | ERS-TRI12WS | I <sub>max</sub> (cd)             | 539.7  | S/MH (C0/180)       | 1.23      |
| NOMINAL POWER (W) | 12          | LOR (%)                           | 100.0  | S/MH (C90/270)      | 1.35      |
| RATED VOLTAGE (V) | 240         | TOTAL FLUX (lm)                   | 1796.0 | η UP, DN (C0-180)   | 2.4, 43.8 |
| NOMINAL FLUX (lm) | 1795.95     | CIE CLASS                         | DIRECT | η UP, DN (C180-360) | 3.8, 50.0 |
| LAMPS INSIDE      | 1           | η up (%)                          | 6.2    | CIBSE SHR NOM       | 1.25      |
| TEST VOLTAGE (V)  | 240         | η down (%)                        | 93.8   | CIBSE SHR MAX       | 1.35      |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [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  | 523.0  | 518.3  | 518.7  | 521.7  | 527.2  | 534.5  | 537.2  | 531.4  | 0- 10   | 50.73   | 50.73   | 2.82,2.82 |
| 20  | 487.3  | 481.5  | 485.6  | 487.6  | 494.5  | 511.8  | 520.6  | 506.0  | 10- 20  | 145.0   | 195.7   | 10.9,10.9 |
| 30  | 433.4  | 429.0  | 439.3  | 437.9  | 442.5  | 471.1  | 488.1  | 463.4  | 20- 30  | 219.1   | 414.8   | 23.1,23.1 |
| 40  | 365.7  | 366.0  | 382.6  | 376.3  | 376.0  | 416.6  | 443.3  | 407.1  | 30- 40  | 264.3   | 679.2   | 37.8,37.8 |
| 50  | 289.8  | 296.8  | 320.3  | 307.6  | 300.5  | 351.8  | 388.4  | 342.1  | 40- 50  | 277.0   | 956.2   | 53.2,53.2 |
| 60  | 209.7  | 225.9  | 255.1  | 236.8  | 219.1  | 281.2  | 325.0  | 272.2  | 50- 60  | 258.6   | 1215    | 67.6,67.6 |
| 70  | 127.6  | 158.7  | 192.1  | 168.3  | 134.7  | 210.1  | 258.6  | 202.2  | 60- 70  | 215.0   | 1430    | 79.6,79.6 |
| 80  | 51.14  | 99.75  | 135.6  | 107.8  | 55.49  | 143.3  | 193.7  | 137.0  | 70- 80  | 156.3   | 1586    | 88.3,88.3 |
| 90  | 7.670  | 56.25  | 90.17  | 62.49  | 10.65  | 87.80  | 136.2  | 83.70  | 80- 90  | 97.89   | 1684    | 93.8,93.8 |
| 100 | 2.664  | 29.30  | 56.81  | 33.22  | 3.689  | 50.47  | 89.62  | 48.04  | 90-100  | 56.93   | 1741    | 96.9,96.9 |
| 110 | 1.890  | 12.96  | 32.43  | 15.10  | 2.645  | 26.08  | 55.35  | 24.83  | 100-110 | 31.24   | 1772    | 98.7,98.7 |
| 120 | 1.179  | 3.569  | 15.16  | 4.518  | 1.618  | 10.45  | 29.82  | 9.954  | 110-120 | 14.99   | 1787    | 99.5,99.5 |
| 130 | 0.7337   | 1.205  | 4.233  | 1.503  | 0.9125 | 2.356  | 12.14  | 2.058  | 120-130 | 5.575   | 1793    | 99.8,99.8 |
| 140 | 0.6999   | 1.086  | 1.589  | 1.290  | 0.6384 | 1.500  | 2.275  | 1.278  | 130-140 | 1.552   | 1794    | 99.9,99.9 |
| 150 | 0.9700   | 1.158  | 1.498  | 1.287  | 0.6547 | 1.152  | 1.577  | 1.150  | 140-150 | 0.7663  | 1795    | 99.9,99.9 |
| 160 | 1.133  | 1.172  | 1.329  | 1.272  | 0.7227 | 0.8836 | 1.206  | 1.046  | 150-160 | 0.5302  | 1796    | 100,100   |
| 170 | 1.062  | 1.067  | 1.108  | 1.148  | 0.7879 | 0.7992 | 0.8944 | 0.8539 | 160-170 | 0.2948  | 1796    | 100,100   |
| 180 | 0.9492   | 0.9211 | 0.8596 | 0.9300 | 0.9436 | 0.9432 | 0.9142 | 0.9179 | 170-180 | 0.0904  | 1796    | 100,100   |
| DEG | LUMINOUS INTENSITY:cd Less than 25% Percent = 12.2 % |        |        |        |        |        |        |        |         | UNIT:lm |         |           |

Conical surface Flux(90deg): 818.13 lm

%lum = 45.6%  
%lamp = 45.6%

Conical surface Flux(120deg): 1214.8 lm

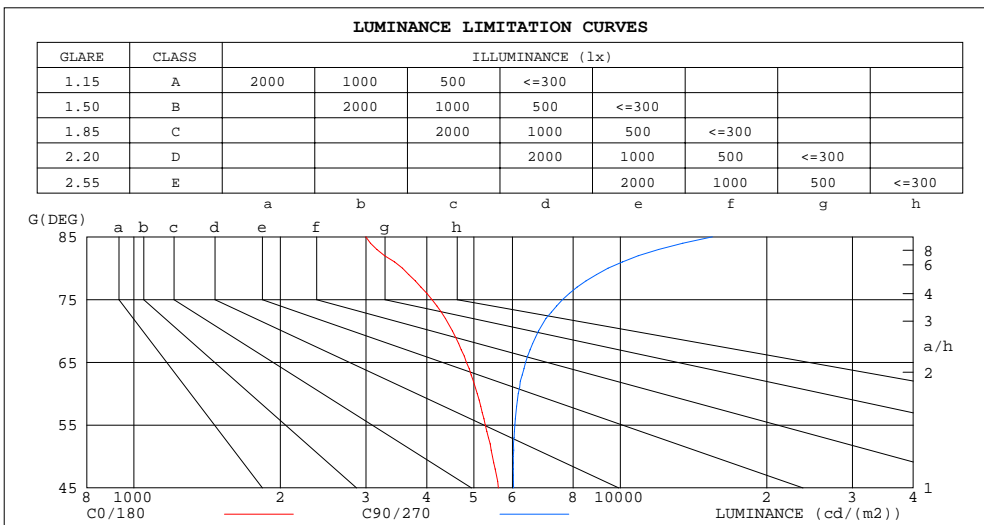
%lum = 67.6%  
%lamp = 67.6%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.8DEG  
Operators:East  
Test Date:2020-07-28

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:35%  
Test Distance:2.490m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G( DEG)           | C0/180 | C90/270 |
| 85                | 2999   | 15461   |
| 80                | 3566   | 9436    |
| 75                | 4098   | 7610    |
| 70                | 4517   | 6789    |
| 65                | 4825   | 6387    |
| 60                | 5079   | 6166    |
| 55                | 5275   | 6072    |
| 50                | 5459   | 6023    |
| 45                | 5616   | 6032    |

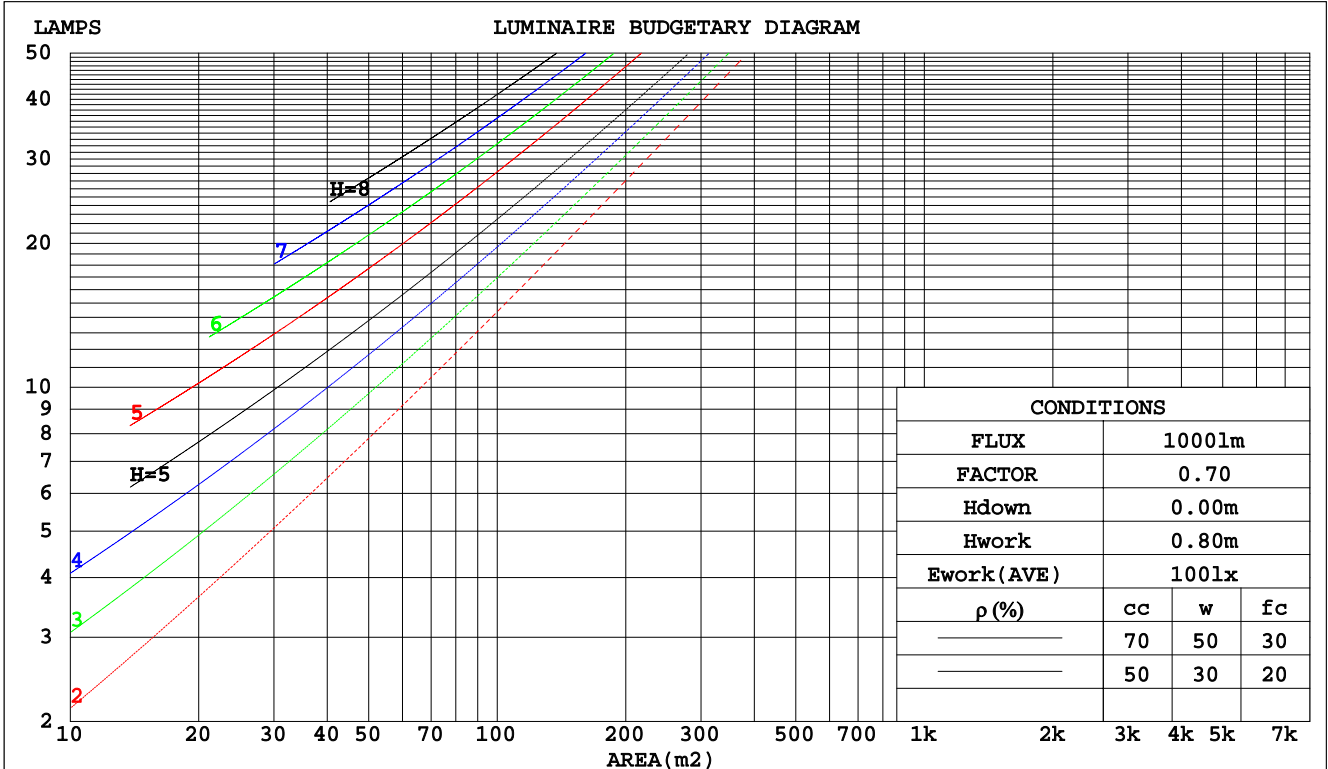
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

| pcc  | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10% |     |     | 0   |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
|      | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| pw   |                                 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| pfc  | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
|      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |
| 0.0  | 1.18                            | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | .96 | .96 | .96 | .94 |
| 1.0  | .00                             | .95  | .91  | .97  | .93  | .88  | .92  | .88  | .84  | .87  | .84  | .81  | .82 | .79 | .77 | .75 |
| 2.0  | .86                             | .79  | .72  | .84  | .77  | .71  | .79  | .73  | .68  | .75  | .70  | .66  | .71 | .67 | .64 | .61 |
| 3.0  | .75                             | .67  | .60  | .73  | .65  | .59  | .69  | .62  | .57  | .66  | .60  | .55  | .62 | .57 | .53 | .51 |
| 4.0  | .66                             | .57  | .50  | .65  | .56  | .49  | .61  | .54  | .48  | .58  | .52  | .47  | .55 | .50 | .45 | .43 |
| 5.0  | .59                             | .50  | .43  | .58  | .49  | .42  | .55  | .47  | .41  | .52  | .45  | .40  | .50 | .44 | .39 | .37 |
| 6.0  | .53                             | .44  | .37  | .52  | .43  | .37  | .49  | .42  | .36  | .47  | .40  | .35  | .45 | .39 | .34 | .32 |
| 7.0  | .48                             | .39  | .33  | .47  | .39  | .32  | .45  | .37  | .32  | .43  | .36  | .31  | .41 | .35 | .30 | .28 |
| 8.0  | .44                             | .35  | .29  | .43  | .35  | .29  | .41  | .34  | .28  | .39  | .33  | .28  | .38 | .32 | .27 | .25 |
| 9.0  | .40                             | .32  | .26  | .39  | .31  | .26  | .38  | .31  | .25  | .36  | .30  | .25  | .35 | .29 | .25 | .23 |
| 10.0 | .37                             | .29  | .24  | .36  | .29  | .23  | .35  | .28  | .23  | .34  | .27  | .23  | .32 | .26 | .22 | .20 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:

WEC AND CCEC

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

| 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .357                  | .203 | .064 | .348 | .198 | .063 | .330                            | .190 | .061 | .315 | .182 | .058 | .300 | .174 | .056 |   |
| 2.0  | .318                  | .174 | .053 | .310 | .171 | .053 | .294                            | .164 | .051 | .280 | .157 | .049 | .267 | .151 | .048 |   |
| 3.0  | .287                  | .153 | .046 | .279 | .150 | .045 | .266                            | .144 | .044 | .253 | .139 | .043 | .241 | .134 | .041 |   |
| 4.0  | .260                  | .135 | .040 | .254 | .133 | .039 | .242                            | .128 | .038 | .230 | .124 | .037 | .220 | .119 | .036 |   |
| 5.0  | .238                  | .121 | .035 | .232 | .119 | .035 | .222                            | .115 | .034 | .211 | .112 | .033 | .202 | .108 | .032 |   |
| 6.0  | .219                  | .110 | .031 | .214 | .108 | .031 | .204                            | .105 | .030 | .195 | .101 | .030 | .186 | .098 | .029 |   |
| 7.0  | .203                  | .100 | .028 | .198 | .099 | .028 | .189                            | .096 | .028 | .181 | .093 | .027 | .173 | .090 | .026 |   |
| 8.0  | .189                  | .092 | .026 | .185 | .091 | .026 | .177                            | .088 | .025 | .169 | .086 | .025 | .162 | .083 | .024 |   |
| 9.0  | .176                  | .085 | .024 | .173 | .084 | .024 | .165                            | .082 | .023 | .158 | .079 | .023 | .152 | .077 | .022 |   |
| 10.0 | .165                  | .079 | .022 | .162 | .078 | .022 | .155                            | .076 | .021 | .149 | .074 | .021 | .143 | .072 | .021 |   |

| 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .238                  | .238 | .238 | .203 | .203 | .203 | .139                                       | .139 | .139 | .080 | .080 | .080 | .025 | .025 | .025 |   |
| 1.0  | .231                  | .204 | .179 | .198 | .175 | .154 | .135                                       | .120 | .106 | .078 | .070 | .062 | .025 | .022 | .020 |   |
| 2.0  | .224                  | .180 | .143 | .192 | .155 | .124 | .131                                       | .107 | .086 | .076 | .062 | .051 | .024 | .020 | .016 |   |
| 3.0  | .216                  | .163 | .120 | .185 | .141 | .104 | .127                                       | .098 | .073 | .073 | .057 | .043 | .024 | .019 | .014 |   |
| 4.0  | .208                  | .150 | .105 | .179 | .130 | .091 | .123                                       | .090 | .064 | .071 | .053 | .038 | .023 | .017 | .013 |   |
| 5.0  | .201                  | .140 | .095 | .172 | .121 | .083 | .119                                       | .084 | .058 | .069 | .050 | .035 | .022 | .016 | .011 |   |
| 6.0  | .193                  | .132 | .087 | .166 | .114 | .076 | .115                                       | .080 | .054 | .066 | .047 | .032 | .021 | .015 | .011 |   |
| 7.0  | .186                  | .125 | .082 | .160 | .108 | .071 | .111                                       | .076 | .050 | .064 | .045 | .030 | .021 | .015 | .010 |   |
| 8.0  | .179                  | .119 | .078 | .154 | .103 | .068 | .107                                       | .072 | .048 | .062 | .043 | .029 | .020 | .014 | .009 |   |
| 9.0  | .173                  | .114 | .074 | .149 | .099 | .065 | .103                                       | .070 | .046 | .060 | .041 | .027 | .020 | .013 | .009 |   |
| 10.0 | .167                  | .110 | .072 | .144 | .095 | .062 | .100                                       | .067 | .044 | .058 | .040 | .026 | .019 | .013 | .009 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:East  
 Test Date:2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.490m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |       |                |      |                  |      |      |
|---|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME: LED Waterproof Luminaires                                   |                  |      |      |      | TYPE: |                |      | WEIGHT:          |      |      |
| SPEC.:  |                  |      |      |      | DIM.: |                |      | SERIAL No.:      |      |      |
| MFR.: ERS   |                  |      |      |      | 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   | 17.6             | 19.1 | 18.0 | 19.4 | 19.8  | 18.5           | 20.0 | 18.8             | 20.3 | 20.6 |
| 3H  | 19.1             | 20.5 | 19.5 | 20.8 | 21.2  | 20.5           | 21.9 | 20.9             | 22.3 | 22.6 |
| 4H  | 19.6             | 21.0 | 20.1 | 21.3 | 21.7  | 21.6           | 22.9 | 22.0             | 23.3 | 23.7 |
| 6H  | 20.1             | 21.3 | 20.5 | 21.7 | 22.1  | 22.7           | 24.0 | 23.2             | 24.4 | 24.8 |
| 8H  | 20.2             | 21.4 | 20.6 | 21.8 | 22.2  | 23.3           | 24.5 | 23.8             | 24.9 | 25.4 |
| 12H   | 20.2             | 21.4 | 20.7 | 21.8 | 22.2  | 24.0           | 25.2 | 24.5             | 25.6 | 26.1 |
| 4H 2H   | 18.4             | 19.7 | 18.8 | 20.0 | 20.4  | 19.0           | 20.3 | 19.4             | 20.7 | 21.1 |
| 3H  | 20.0             | 21.2 | 20.5 | 21.6 | 22.0  | 21.3           | 22.5 | 21.7             | 22.9 | 23.3 |
| 4H  | 20.7             | 21.8 | 21.2 | 22.2 | 22.7  | 22.5           | 23.6 | 23.0             | 24.0 | 24.5 |
| 6H  | 21.3             | 22.2 | 21.8 | 22.7 | 23.2  | 23.9           | 24.8 | 24.4             | 25.3 | 25.8 |
| 8H  | 21.5             | 22.4 | 22.0 | 22.8 | 23.4  | 24.6           | 25.5 | 25.1             | 26.0 | 26.5 |
| 12H   | 21.6             | 22.4 | 22.1 | 22.9 | 23.5  | 25.5           | 26.3 | 26.0             | 26.8 | 27.3 |
| 8H 4H   | 21.3             | 22.2 | 21.8 | 22.6 | 23.2  | 22.8           | 23.7 | 23.3             | 24.2 | 24.7 |
| 6H  | 22.1             | 22.8 | 22.6 | 23.3 | 23.9  | 24.4           | 25.2 | 25.0             | 25.7 | 26.3 |
| 8H  | 22.4             | 23.1 | 23.0 | 23.6 | 24.2  | 25.4           | 26.0 | 25.9             | 26.6 | 27.2 |
| 12H   | 22.7             | 23.2 | 23.2 | 23.8 | 24.4  | 26.4           | 27.0 | 27.0             | 27.6 | 28.2 |
| 12H 4H  | 21.4             | 22.2 | 21.9 | 22.7 | 23.3  | 22.8           | 23.7 | 23.4             | 24.2 | 24.7 |
| 6H  | 22.4             | 23.0 | 22.9 | 23.6 | 24.1  | 24.5           | 25.2 | 25.1             | 25.7 | 26.3 |
| 8H  | 22.8             | 23.4 | 23.4 | 23.9 | 24.5  | 25.5           | 26.1 | 26.1             | 26.7 | 27.3 |
| 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 / - 0.3  |      |                  |      |      |
| 2.0H  | + 0.1 / - 0.3    |      |      |      |       | + 0.2 / - 0.3  |      |                  |      |      |

CIE Pub.117 Corrected 1796 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:East  
 Test Date:2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.490m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

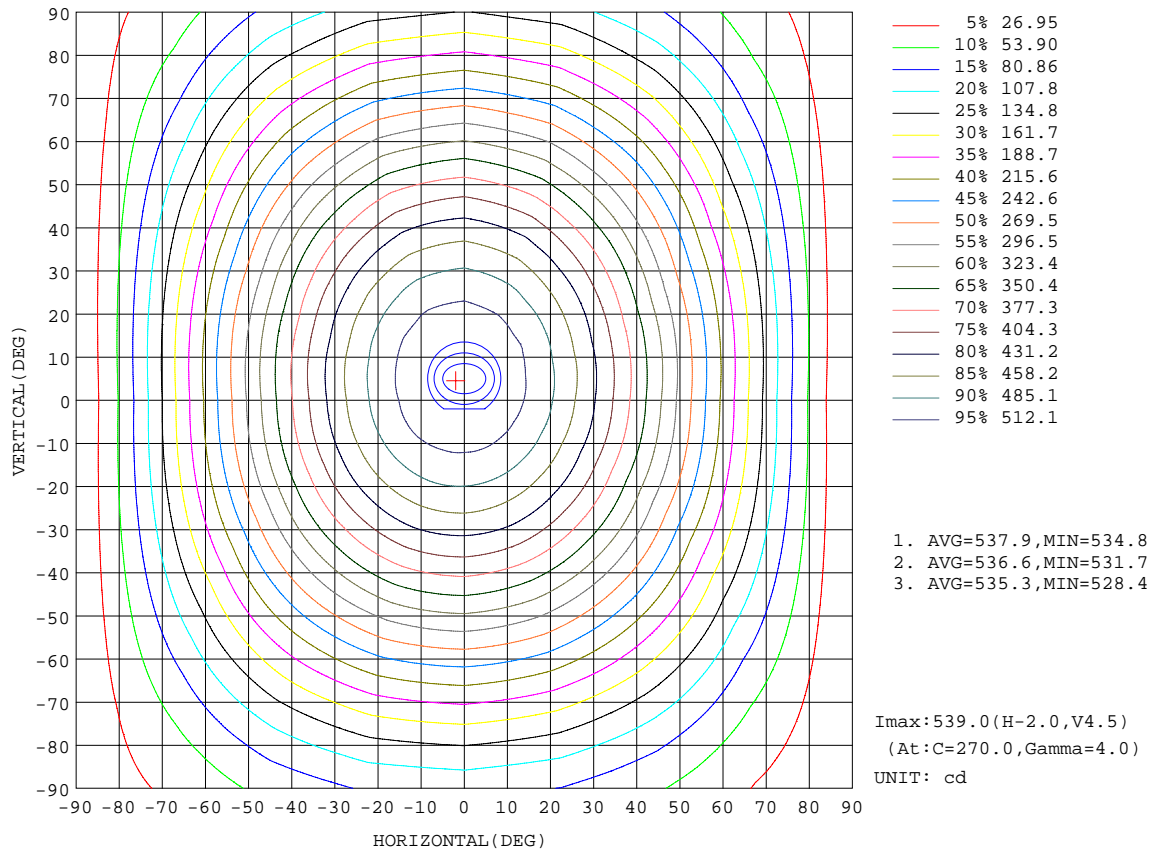
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 53  | 41  | 34        | 53  | 41  | 34  | 51            | 41  | 34  | 27     |
| 0.80                             | 63  | 51  | 43        | 62  | 50  | 43  | 60            | 49  | 42  | 35     |
| 1.00                             | 71  | 59  | 51        | 70  | 58  | 51  | 67            | 59  | 50  | 42     |
| 1.25                             | 78  | 66  | 58        | 76  | 65  | 58  | 73            | 64  | 57  | 49     |
| 1.50                             | 83  | 72  | 64        | 81  | 71  | 63  | 77            | 69  | 62  | 53     |
| 2.00                             | 90  | 80  | 73        | 88  | 79  | 72  | 83            | 76  | 70  | 61     |
| 2.50                             | 94  | 85  | 78        | 92  | 83  | 77  | 87            | 80  | 75  | 65     |
| 3.00                             | 98  | 89  | 83        | 95  | 88  | 82  | 90            | 84  | 79  | 69     |
| 4.00                             | 102   | 95  | 89        | 99  | 93  | 88  | 94            | 89  | 84  | 74     |
| 5.00                             | 105   | 99  | 94        | 102 | 96  | 92  | 96            | 92  | 88  | 77     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:East  
 Test Date:2020-07-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.490m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |



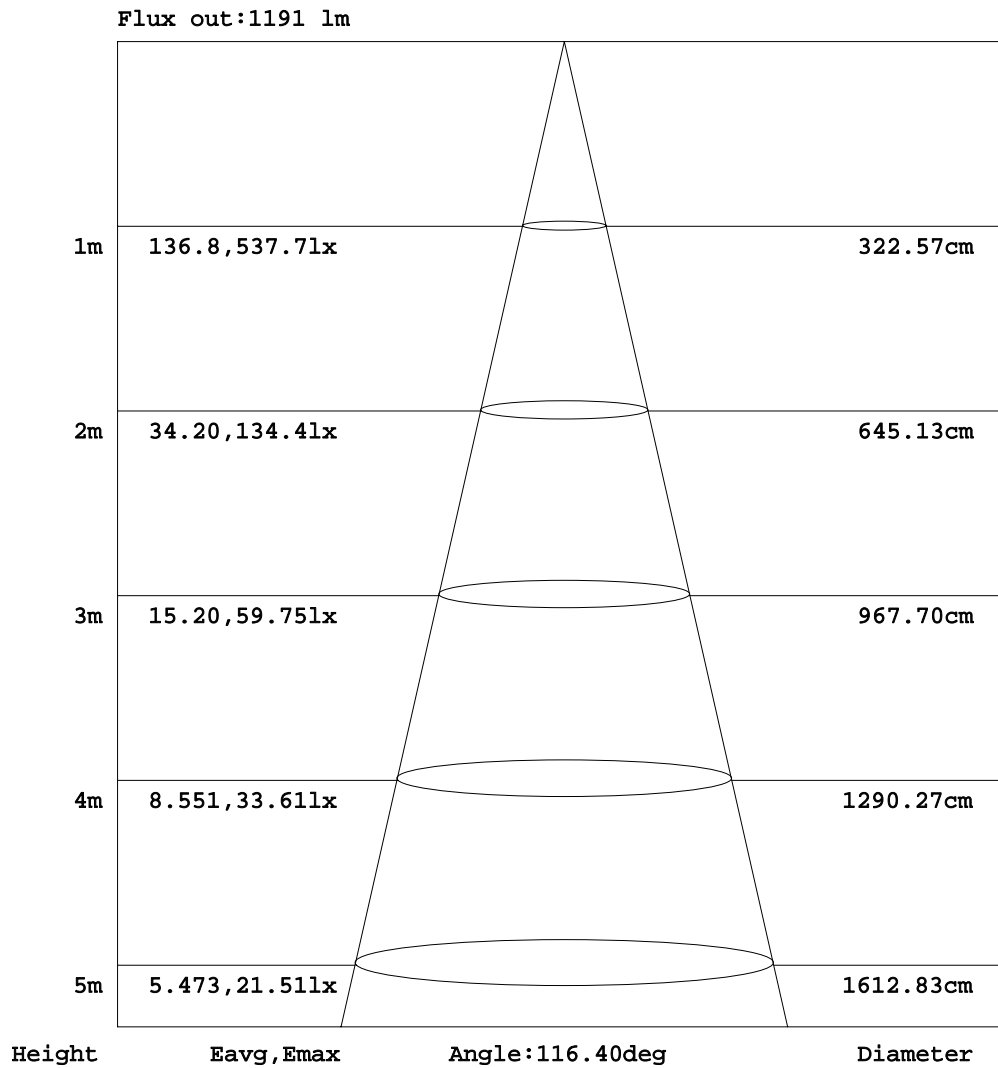
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:



AAI Figure

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |



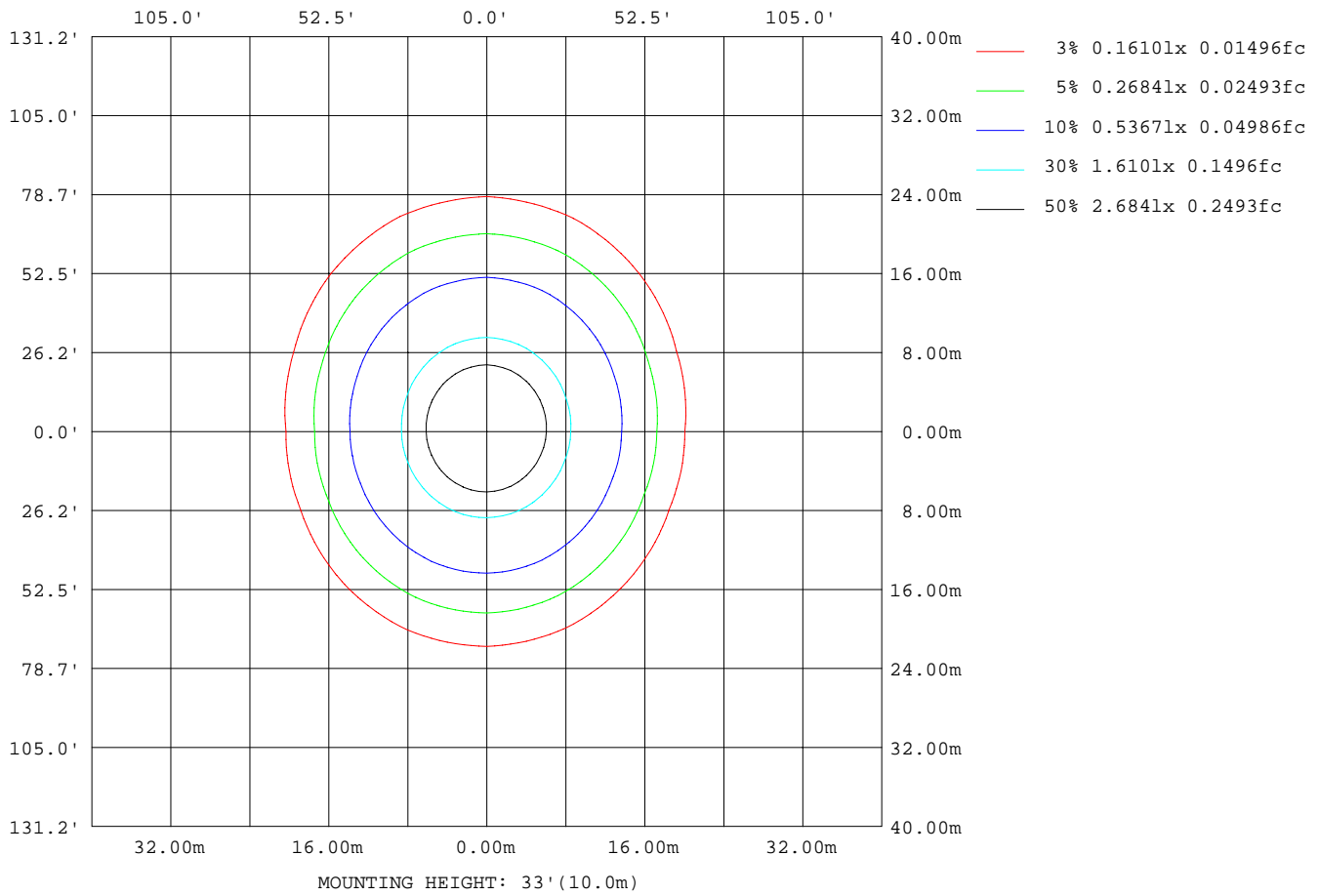
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

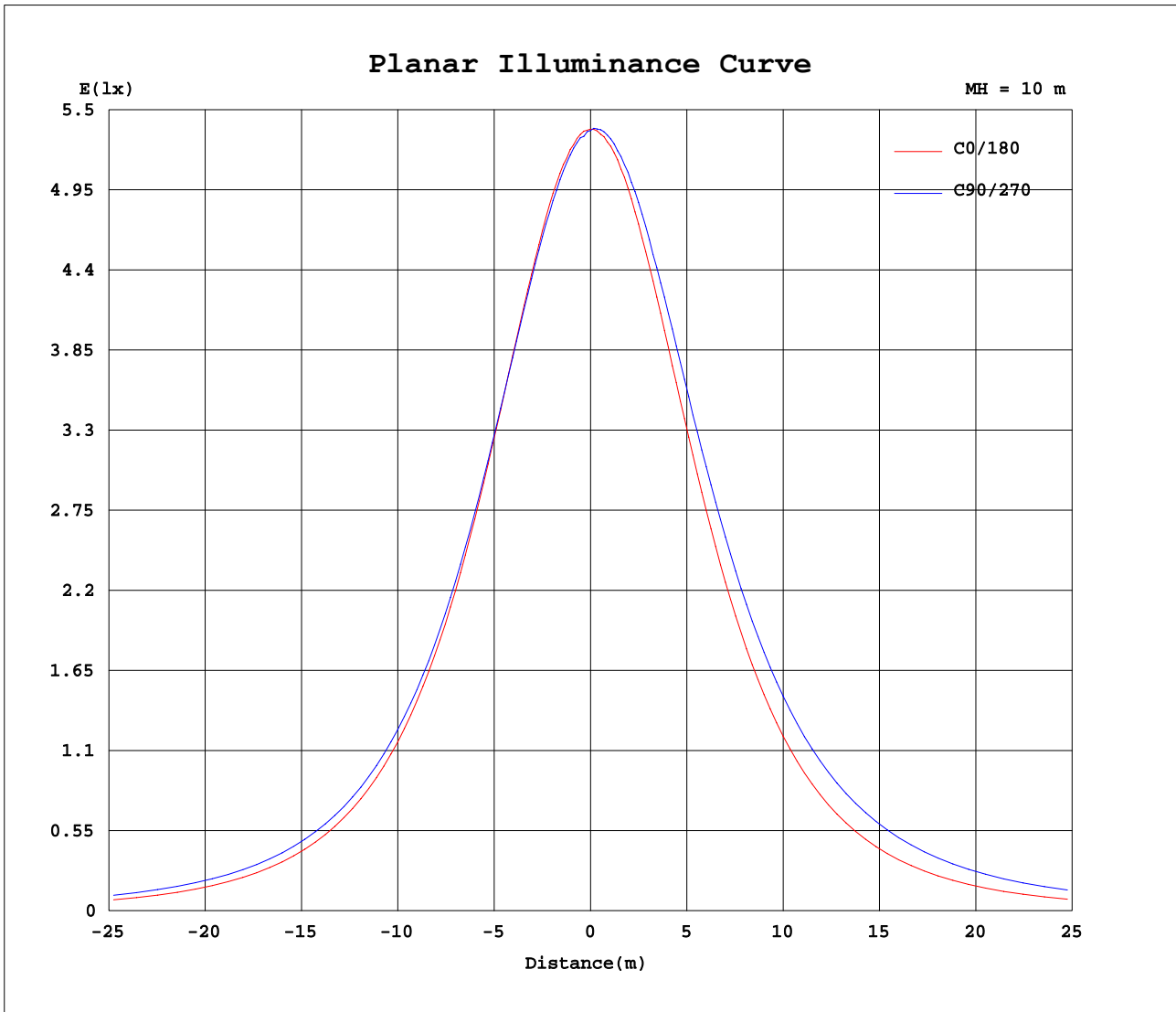
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 4947  |
| L_0~180 (75) av  | 4229  |
| L_0~180 (85) av  | 3273  |
| L_90~270 (65) av | 7381  |
| L_90~270 (75) av | 9091  |
| L_90~270 (85) av | 19121 |
| L_45 (65) av     | 6274  |
| L_45 (75) av     | 7120  |
| L_45 (85) av     | 13190 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.8DEG  
 Operators:East  
 Test Date:2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.490m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: East  
 Test Date: 2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 35%  
 Test Distance: 2.490m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |       |                  |
|---|-------|------------------|
| Test:U:240.0V I:0.0540A P:12.20W PF:0.9408 Lamp Flux:1795.95x1 lm |       |                  |
| NAME: LED Waterproof Luminaires                                   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.: ERS   | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                 | 537  | 537  | 537  | 537  | 537  | 537   | 537  | 537   | 537  | 537   | 537  | 537   | 537  | 537   | 537  | 537   |  |  |  |
| 5                 | 532  | 531  | 529  | 530  | 531  | 530   | 532  | 533   | 534  | 536   | 538  | 539   | 540  | 538   | 538  | 534   |  |  |  |
| 10                | 523  | 520  | 518  | 518  | 519  | 520   | 522  | 524   | 527  | 531   | 535  | 537   | 537  | 535   | 531  | 526   |  |  |  |
| 15                | 507  | 503  | 502  | 503  | 504  | 505   | 507  | 510   | 513  | 519   | 525  | 530   | 532  | 528   | 522  | 513   |  |  |  |
| 20                | 487  | 482  | 481  | 483  | 486  | 487   | 488  | 490   | 495  | 503   | 512  | 519   | 521  | 515   | 506  | 495   |  |  |  |
| 25                | 462  | 456  | 456  | 461  | 464  | 465   | 465  | 466   | 470  | 481   | 493  | 503   | 507  | 499   | 487  | 472   |  |  |  |
| 30                | 433  | 427  | 429  | 435  | 439  | 440   | 438  | 438   | 443  | 454   | 471  | 485   | 488  | 480   | 463  | 445   |  |  |  |
| 35                | 400  | 395  | 398  | 407  | 413  | 412   | 409  | 407   | 410  | 425   | 445  | 462   | 468  | 457   | 437  | 414   |  |  |  |
| 40                | 366  | 360  | 366  | 376  | 383  | 382   | 376  | 372   | 376  | 393   | 417  | 437   | 443  | 431   | 407  | 381   |  |  |  |
| 45                | 328  | 323  | 331  | 345  | 353  | 351   | 343  | 336   | 339  | 358   | 385  | 409   | 417  | 403   | 376  | 346   |  |  |  |
| 50                | 290  | 285  | 297  | 312  | 320  | 318   | 308  | 298   | 300  | 321   | 352  | 379   | 388  | 373   | 342  | 309   |  |  |  |
| 55                | 250  | 247  | 260  | 279  | 288  | 285   | 273  | 260   | 260  | 283   | 317  | 347   | 358  | 341   | 308  | 271   |  |  |  |
| 60                | 210  | 208  | 226  | 245  | 255  | 252   | 237  | 220   | 219  | 243   | 281  | 314   | 325  | 308   | 272  | 232   |  |  |  |
| 65                | 168  | 170  | 191  | 213  | 223  | 219   | 202  | 181   | 177  | 204   | 246  | 281   | 292  | 275   | 237  | 193   |  |  |  |
| 70                | 128  | 133  | 159  | 181  | 192  | 187   | 168  | 144   | 135  | 165   | 210  | 247   | 259  | 241   | 202  | 155   |  |  |  |
| 75                | 87.6 | 98.2 | 127  | 152  | 163  | 157   | 137  | 108   | 93.2 | 126   | 176  | 214   | 226  | 208   | 169  | 118   |  |  |  |
| 80                | 51.1 | 67.5 | 99.8 | 125  | 136  | 130   | 108  | 76.4  | 55.5 | 91.8  | 143  | 181   | 194  | 177   | 137  | 85.4  |  |  |  |
| 85                | 21.6 | 42.3 | 75.5 | 101  | 111  | 105   | 83.1 | 50.3  | 25.5 | 62.7  | 113  | 152   | 164  | 148   | 108  | 57.6  |  |  |  |
| 90                | 7.67 | 25.5 | 56.2 | 80.3 | 90.2 | 84.0  | 62.5 | 31.6  | 10.7 | 40.8  | 87.8 | 124   | 136  | 120   | 83.7 | 37.0  |  |  |  |
| 95                | 6.45 | 15.4 | 40.9 | 63.1 | 72.3 | 66.2  | 46.1 | 19.9  | 8.81 | 26.6  | 67.1 | 99.8  | 111  | 97.3  | 63.8 | 23.7  |  |  |  |
| 100               | 2.66 | 9.29 | 29.3 | 48.4 | 56.8 | 51.2  | 33.2 | 12.4  | 3.69 | 17.2  | 50.5 | 79.4  | 89.6 | 77.5  | 48.0 | 15.1  |  |  |  |
| 105               | 2.27 | 5.42 | 20.1 | 36.4 | 43.6 | 38.4  | 23.1 | 7.45  | 3.25 | 10.7  | 37.0 | 62.2  | 71.3 | 60.8  | 35.2 | 9.21  |  |  |  |
| 110               | 1.89 | 3.17 | 13.0 | 26.3 | 32.4 | 27.9  | 15.1 | 4.39  | 2.65 | 6.34  | 26.1 | 47.2  | 55.4 | 46.3  | 24.8 | 5.24  |  |  |  |
| 115               | 1.51 | 2.39 | 7.49 | 18.0 | 23.0 | 19.1  | 8.99 | 3.19  | 2.11 | 3.96  | 17.3 | 34.7  | 41.6 | 34.0  | 16.5 | 2.98  |  |  |  |
| 120               | 1.18 | 1.78 | 3.57 | 11.2 | 15.2 | 12.0  | 4.52 | 2.37  | 1.62 | 3.00  | 10.5 | 24.0  | 29.8 | 23.6  | 9.95 | 2.24  |  |  |  |
| 125               | 0.91 | 1.30 | 1.48 | 6.03 | 8.89 | 6.49  | 1.93 | 1.71  | 1.22 | 2.26  | 5.41 | 15.5  | 20.0 | 15.2  | 5.09 | 1.67  |  |  |  |
| 130               | 0.73 | 0.96 | 1.20 | 2.43 | 4.23 | 2.74  | 1.50 | 1.25  | 0.91 | 1.67  | 2.36 | 8.61  | 12.1 | 8.52  | 2.06 | 1.23  |  |  |  |
| 135               | 0.65 | 0.76 | 1.08 | 1.44 | 1.69 | 1.59  | 1.32 | 0.99  | 0.72 | 1.24  | 1.77 | 3.86  | 6.05 | 3.83  | 1.47 | 0.91  |  |  |  |
| 140               | 0.70 | 0.75 | 1.09 | 1.41 | 1.59 | 1.54  | 1.29 | 0.96  | 0.64 | 0.97  | 1.50 | 1.87  | 2.27 | 1.76  | 1.28 | 0.75  |  |  |  |
| 145               | 0.84 | 0.87 | 1.13 | 1.41 | 1.56 | 1.51  | 1.29 | 1.05  | 0.64 | 0.87  | 1.33 | 1.67  | 1.78 | 1.60  | 1.21 | 0.74  |  |  |  |
| 150               | 0.97 | 0.98 | 1.16 | 1.38 | 1.50 | 1.46  | 1.29 | 1.13  | 0.65 | 0.78  | 1.15 | 1.46  | 1.58 | 1.46  | 1.15 | 0.77  |  |  |  |
| 155               | 1.08 | 1.07 | 1.17 | 1.33 | 1.43 | 1.40  | 1.28 | 1.21  | 0.69 | 0.75  | 1.00 | 1.27  | 1.40 | 1.34  | 1.11 | 0.81  |  |  |  |
| 160               | 1.13 | 1.12 | 1.17 | 1.26 | 1.33 | 1.32  | 1.27 | 1.25  | 0.72 | 0.74  | 0.88 | 1.08  | 1.21 | 1.19  | 1.05 | 0.83  |  |  |  |
| 165               | 1.11 | 1.10 | 1.13 | 1.18 | 1.20 | 1.22  | 1.22 | 1.22  | 0.75 | 0.76  | 0.82 | 0.94  | 1.03 | 1.03  | 0.95 | 0.81  |  |  |  |
| 170               | 1.06 | 1.05 | 1.07 | 1.09 | 1.11 | 1.13  | 1.15 | 1.19  | 0.79 | 0.79  | 0.80 | 0.85  | 0.89 | 0.89  | 0.85 | 0.79  |  |  |  |
| 175               | 0.99 | 0.98 | 0.99 | 1.00 | 1.01 | 1.04  | 1.07 | 1.10  | 0.86 | 0.87  | 0.86 | 0.86  | 0.86 | 0.86  | 0.84 | 0.80  |  |  |  |
| 180               | 0.95 | 0.94 | 0.92 | 0.91 | 0.86 | 0.92  | 0.93 | 0.97  | 0.94 | 0.95  | 0.94 | 0.93  | 0.91 | 0.90  | 0.92 | 0.93  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
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 Operators:East  
 Test Date:2020-07-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:35%  
 Test Distance:2.490m [K=1.0000]  
 Remarks: