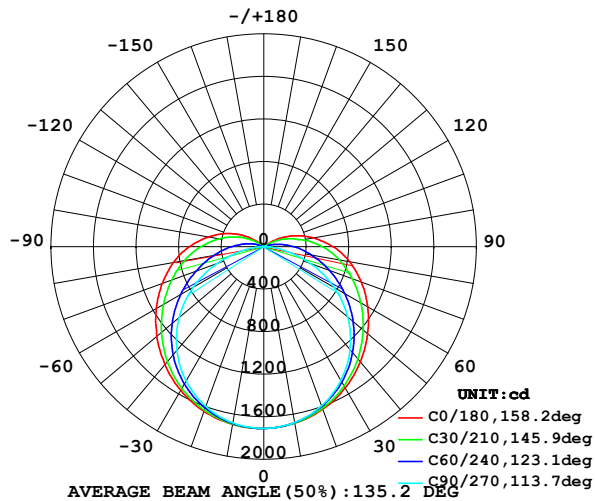


## LUMINAIRE PHOTOMETRIC TEST REPORT

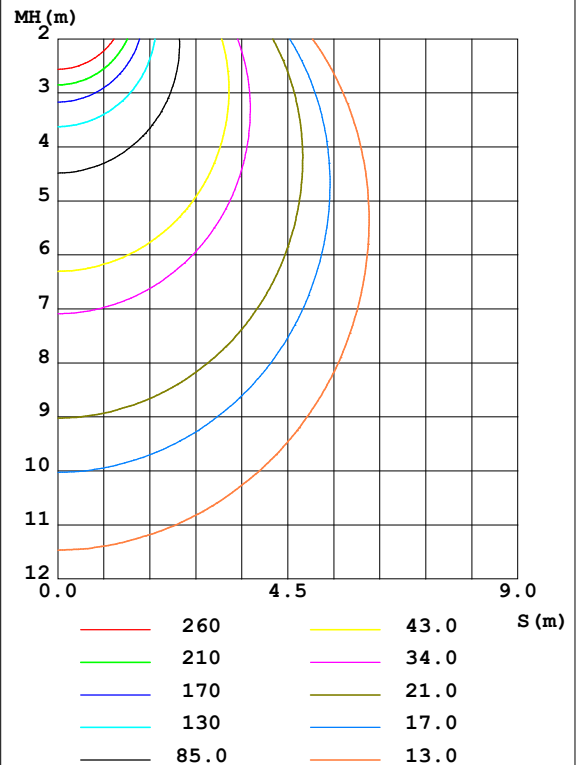
|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |

| DATA OF LAMP      |                   | PHOTOMETRIC DATA Eff: 129.37 lm/W |         |                     |           |
|-------------------|-------------------|-----------------------------------|---------|---------------------|-----------|
| MODEL             | BR5115T, BR5115TE | I <sub>max</sub> (cd)             | 1711    | S/MH (C0/180)       | 1.37      |
| NOMINAL POWER (W) | 54.3577           | LOR (%)                           | 100.0   | S/MH (C90/270)      | 1.27      |
| RATED VOLTAGE (V) | 230               | TOTAL FLUX (lm)                   | 7032.2  | η UP, DN (C0-180)   | 5.2, 44.5 |
| NOMINAL FLUX (lm) | 7032.22           | CIE CLASS                         | SEMI-D. | η UP, DN (C180-360) | 5.4, 44.9 |
| LAMPS INSIDE      | 1                 | η up (%)                          | 10.6    | CIBSE SHR NOM       | 1.50      |
| TEST VOLTAGE (V)  | 230.375           | η down (%)                        | 89.4    | CIBSE SHR MAX       | 1.55      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-06-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 11.780m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 1686                  | 1681  | 1679  | 1687  | 1697  | 1691  | 1682  | 1683  | 0- 10    | 162.0       | 162.0        | 2.3,2.3    |
| 20       | 1625                  | 1608  | 1592  | 1619  | 1647  | 1626  | 1599  | 1612  | 10- 20   | 467.9       | 630.0        | 8.96,8.96  |
| 30       | 1534                  | 1491  | 1452  | 1508  | 1560  | 1516  | 1461  | 1497  | 20- 30   | 721.7       | 1352         | 19.2,19.2  |
| 40       | 1414                  | 1338  | 1263  | 1360  | 1449  | 1369  | 1273  | 1346  | 30- 40   | 896.4       | 2248         | 32,32      |
| 50       | 1276                  | 1159  | 1032  | 1183  | 1312  | 1191  | 1039  | 1166  | 40- 50   | 976.6       | 3225         | 45.9,45.9  |
| 60       | 1129                  | 965.9 | 763.6 | 991.3 | 1167  | 996.4 | 767.3 | 973.5 | 50- 60   | 961.1       | 4186         | 59.5,59.5  |
| 70       | 976.7                 | 771.7 | 467.4 | 798.1 | 1015  | 800.8 | 467.4 | 779.1 | 60- 70   | 863.4       | 5049         | 71.8,71.8  |
| 80       | 819.4                 | 588.1 | 178.5 | 615.8 | 862.2 | 615.4 | 173.1 | 593.3 | 70- 80   | 706.9       | 5756         | 81.9,81.9  |
| 90       | 652.0                 | 418.1 | 6.548 | 449.4 | 699.8 | 446.6 | 4.636 | 421.8 | 80- 90   | 527.5       | 6284         | 89.4,89.4  |
| 100      | 476.8                 | 253.7 | 6.958 | 297.8 | 530.0 | 295.1 | 5.780 | 257.5 | 90-100   | 365.7       | 6649         | 94.6,94.6  |
| 110      | 304.6                 | 115.4 | 8.822 | 161.4 | 363.4 | 157.1 | 7.504 | 115.4 | 100-110  | 220.3       | 6870         | 97.7,97.7  |
| 120      | 132.2                 | 35.42 | 10.49 | 65.71 | 198.0 | 62.35 | 9.103 | 34.37 | 110-120  | 102.8       | 6973         | 99.2,99.2  |
| 130      | 12.56                 | 12.62 | 12.08 | 12.35 | 33.17 | 11.26 | 10.73 | 11.56 | 120-130  | 28.50       | 7001         | 99.6,99.6  |
| 140      | 13.58                 | 13.78 | 13.54 | 13.56 | 12.79 | 12.54 | 12.30 | 12.85 | 130-140  | 9.825       | 7011         | 99.7,99.7  |
| 150      | 14.50                 | 14.80 | 14.70 | 14.60 | 13.88 | 13.76 | 13.69 | 14.02 | 140-150  | 8.599       | 7019         | 99.8,99.8  |
| 160      | 15.41                 | 15.55 | 15.59 | 15.43 | 15.00 | 14.84 | 14.90 | 15.06 | 150-160  | 6.816       | 7026         | 99.9,99.9  |
| 170      | 16.22                 | 16.08 | 16.11 | 16.03 | 16.01 | 15.70 | 15.76 | 15.84 | 160-170  | 4.412       | 7031         | 100,100    |
| 180      | 16.56                 | 16.26 | 16.31 | 16.33 | 16.56 | 16.27 | 16.31 | 16.32 | 170-180  | 1.538       | 7032         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

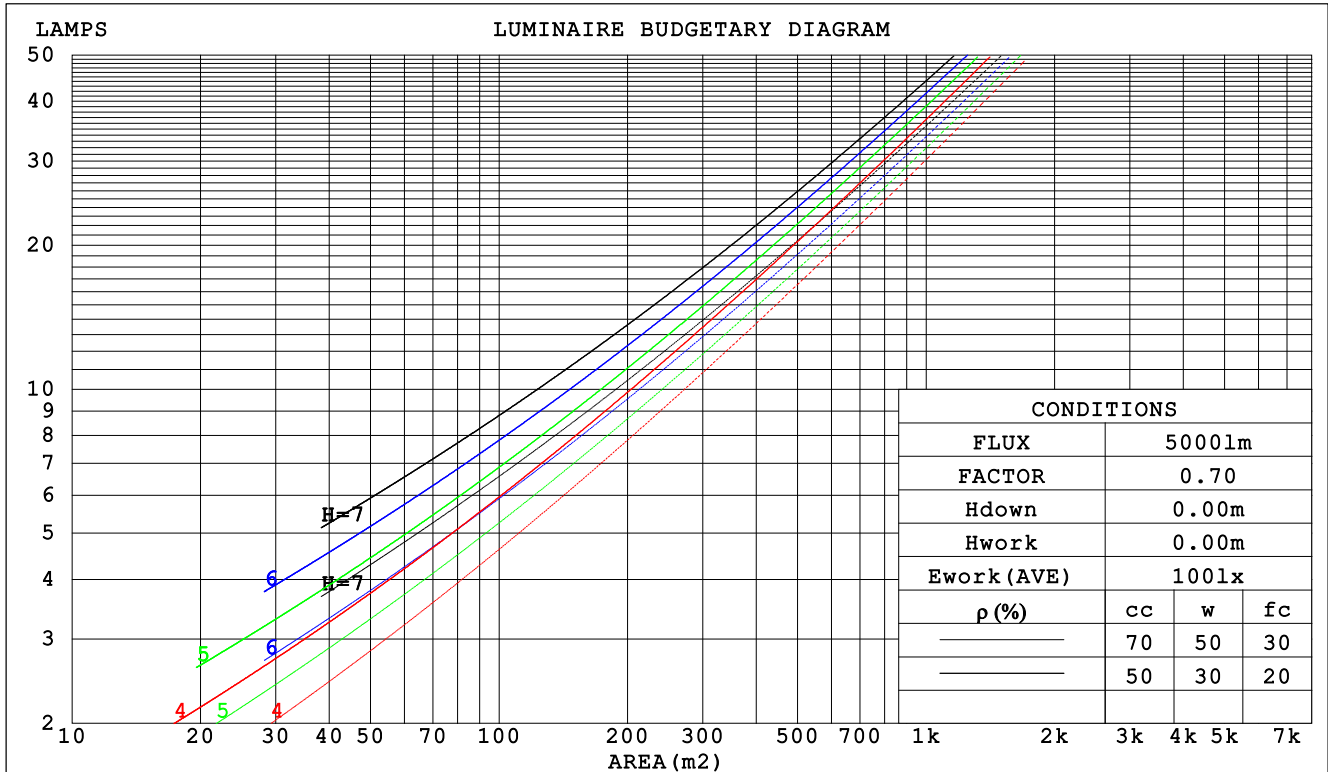
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-06-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |

| pcc             | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30% |     |     | 10% |     |     | 0   |
|-----------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| p <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| p <sub>fc</sub> | 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 | 1.05 | 1.05 | 1.05 | .98 | .98 | .98 | .92 | .92 | .92 | .89 |
| 1.0             | .97                   | .92  | .87  | .94                             | .89  | .85  | .88  | .84  | .80  | .82 | .78 | .75 | .76 | .74 | .71 | .68 |
| 2.0             | .83                   | .75  | .69  | .80                             | .73  | .67  | .75  | .69  | .64  | .70 | .65 | .61 | .65 | .61 | .58 | .55 |
| 3.0             | .72                   | .63  | .56  | .70                             | .61  | .55  | .65  | .58  | .52  | .61 | .55 | .50 | .57 | .52 | .48 | .45 |
| 4.0             | .63                   | .54  | .46  | .61                             | .52  | .46  | .57  | .50  | .44  | .54 | .47 | .42 | .50 | .45 | .40 | .38 |
| 5.0             | .56                   | .47  | .40  | .54                             | .45  | .39  | .51  | .43  | .37  | .48 | .41 | .36 | .45 | .39 | .35 | .32 |
| 6.0             | .50                   | .41  | .34  | .49                             | .40  | .34  | .46  | .38  | .32  | .43 | .36 | .31 | .41 | .35 | .30 | .28 |
| 7.0             | .45                   | .36  | .30  | .44                             | .36  | .29  | .42  | .34  | .28  | .39 | .32 | .27 | .37 | .31 | .27 | .24 |
| 8.0             | .41                   | .33  | .26  | .40                             | .32  | .26  | .38  | .31  | .25  | .36 | .29 | .24 | .34 | .28 | .24 | .22 |
| 9.0             | .38                   | .29  | .24  | .37                             | .29  | .23  | .35  | .28  | .23  | .33 | .27 | .22 | .31 | .25 | .21 | .19 |
| 10.0            | .35                   | .27  | .21  | .34                             | .26  | .21  | .32  | .25  | .20  | .31 | .24 | .20 | .29 | .23 | .19 | .17 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-06-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

# WEC AND CCEC

|                                                                   |  |  |  |       |  |  |                  |  |  |
|-------------------------------------------------------------------|--|--|--|-------|--|--|------------------|--|--|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |  |  |  |       |  |  |                  |  |  |
| NAME:                                                             |  |  |  | TYPE: |  |  | WEIGHT:          |  |  |
| SPEC.:                                                            |  |  |  | DIM.: |  |  | SERIAL No.:      |  |  |
| MFR.: Deta Electrical Company Ltd.                                |  |  |  | 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  | .388                  | .221 | .070 | .378 | .215 | .068 | .358                             | .205 | .066 | .340 | .196 | .063 | .323 | .187 | .060 |   |  |
| 2.0  | .337                  | .185 | .057 | .328 | .180 | .056 | .310                             | .172 | .054 | .294 | .165 | .052 | .279 | .158 | .050 |   |  |
| 3.0  | .300                  | .160 | .048 | .291 | .156 | .047 | .275                             | .149 | .045 | .261 | .143 | .044 | .247 | .137 | .042 |   |  |
| 4.0  | .270                  | .140 | .041 | .262 | .137 | .041 | .248                             | .132 | .039 | .235 | .126 | .038 | .222 | .121 | .037 |   |  |
| 5.0  | .245                  | .125 | .036 | .239 | .122 | .036 | .226                             | .117 | .035 | .214 | .113 | .034 | .202 | .108 | .032 |   |  |
| 6.0  | .225                  | .113 | .032 | .219 | .110 | .032 | .207                             | .106 | .031 | .196 | .102 | .030 | .186 | .098 | .029 |   |  |
| 7.0  | .207                  | .102 | .029 | .202 | .100 | .029 | .191                             | .097 | .028 | .181 | .093 | .027 | .172 | .089 | .026 |   |  |
| 8.0  | .192                  | .094 | .026 | .187 | .092 | .026 | .177                             | .089 | .025 | .168 | .085 | .025 | .160 | .082 | .024 |   |  |
| 9.0  | .179                  | .087 | .024 | .174 | .085 | .024 | .166                             | .082 | .023 | .157 | .079 | .023 | .149 | .076 | .022 |   |  |
| 10.0 | .168                  | .080 | .022 | .163 | .079 | .022 | .155                             | .076 | .021 | .148 | .073 | .021 | .140 | .071 | .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  | .272                  | .272 | .272 | .232 | .232 | .232 | .158                                       | .158 | .158 | .091 | .091 | .091 | .029 | .029 | .029 |   |
| 1.0  | .267                  | .237 | .210 | .229 | .204 | .181 | .157                                       | .140 | .125 | .090 | .081 | .073 | .029 | .026 | .023 |   |
| 2.0  | .261                  | .214 | .175 | .223 | .184 | .151 | .153                                       | .127 | .105 | .088 | .074 | .062 | .028 | .024 | .020 |   |
| 3.0  | .253                  | .197 | .153 | .217 | .170 | .133 | .149                                       | .118 | .093 | .086 | .069 | .055 | .028 | .022 | .018 |   |
| 4.0  | .245                  | .185 | .138 | .210 | .159 | .120 | .145                                       | .111 | .085 | .084 | .065 | .050 | .027 | .021 | .016 |   |
| 5.0  | .237                  | .175 | .128 | .204 | .151 | .112 | .140                                       | .106 | .079 | .081 | .062 | .047 | .026 | .020 | .015 |   |
| 6.0  | .230                  | .167 | .121 | .197 | .144 | .106 | .136                                       | .101 | .075 | .079 | .059 | .044 | .025 | .019 | .015 |   |
| 7.0  | .222                  | .160 | .116 | .191 | .139 | .101 | .132                                       | .097 | .072 | .077 | .057 | .043 | .025 | .019 | .014 |   |
| 8.0  | .216                  | .154 | .112 | .186 | .134 | .098 | .128                                       | .094 | .069 | .075 | .055 | .041 | .024 | .018 | .014 |   |
| 9.0  | .209                  | .149 | .109 | .180 | .130 | .095 | .125                                       | .091 | .067 | .073 | .054 | .040 | .024 | .018 | .013 |   |
| 10.0 | .203                  | .145 | .106 | .175 | .126 | .093 | .122                                       | .089 | .066 | .071 | .052 | .039 | .023 | .017 | .013 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-06-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:11.780m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                      |                  |      |      |      |       |                |      |                  |      |      |
|----------------------------------------------------------------------|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602    Lamp Flux:7032.22x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME:                                                                |                  |      |      |      | TYPE: |                |      | WEIGHT:          |      |      |
| SPEC.:                                                               |                  |      |      |      | DIM.: |                |      | SERIAL No.:      |      |      |
| MFR.: Deta Electrical Company Ltd.                                   |                  |      |      |      | 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                                                  | 23.0             | 24.5 | 23.4 | 24.9 | 25.3  | 21.5           | 23.0 | 21.9             | 23.4 | 23.8 |
| 3H                                                                   | 25.6             | 27.0 | 26.1 | 27.4 | 27.9  | 23.1           | 24.5 | 23.5             | 24.9 | 25.3 |
| 4H                                                                   | 27.0             | 28.3 | 27.5 | 28.8 | 29.3  | 23.7           | 25.0 | 24.2             | 25.5 | 26.0 |
| 6H                                                                   | 28.6             | 29.9 | 29.1 | 30.3 | 30.8  | 24.2           | 25.4 | 24.7             | 25.9 | 26.4 |
| 8H                                                                   | 29.5             | 30.7 | 30.0 | 31.2 | 31.7  | 24.3           | 25.5 | 24.8             | 26.0 | 26.5 |
| 12H                                                                  | 30.5             | 31.7 | 31.0 | 32.1 | 32.7  | 24.4           | 25.5 | 24.9             | 26.0 | 26.5 |
| 4H        2H                                                         | 23.6             | 24.9 | 24.1 | 25.4 | 25.9  | 22.5           | 23.8 | 23.0             | 24.3 | 24.7 |
| 3H                                                                   | 26.5             | 27.6 | 27.0 | 28.1 | 28.6  | 24.4           | 25.5 | 24.9             | 26.0 | 26.5 |
| 4H                                                                   | 28.1             | 29.1 | 28.6 | 29.7 | 30.2  | 25.2           | 26.3 | 25.7             | 26.8 | 27.3 |
| 6H                                                                   | 29.9             | 30.8 | 30.4 | 31.4 | 32.0  | 25.9           | 26.8 | 26.4             | 27.4 | 28.0 |
| 8H                                                                   | 30.9             | 31.8 | 31.4 | 32.3 | 32.9  | 26.1           | 27.0 | 26.7             | 27.5 | 28.2 |
| 12H                                                                  | 32.0             | 32.8 | 32.6 | 33.4 | 34.0  | 26.2           | 27.1 | 26.8             | 27.6 | 28.3 |
| 8H        4H                                                         | 28.5             | 29.3 | 29.0 | 29.9 | 30.5  | 26.1           | 27.0 | 26.7             | 27.6 | 28.2 |
| 6H                                                                   | 30.6             | 31.3 | 31.2 | 31.9 | 32.6  | 27.2           | 27.9 | 27.8             | 28.5 | 29.2 |
| 8H                                                                   | 31.8             | 32.4 | 32.4 | 33.0 | 33.7  | 27.6           | 28.3 | 28.2             | 28.9 | 29.6 |
| 12H                                                                  | 33.2             | 33.8 | 33.8 | 34.4 | 35.1  | 28.0           | 28.6 | 28.6             | 29.2 | 29.9 |
| 12H        4H                                                        | 28.5             | 29.3 | 29.1 | 29.9 | 30.5  | 26.4           | 27.3 | 27.0             | 27.8 | 28.5 |
| 6H                                                                   | 30.7             | 31.4 | 31.3 | 32.0 | 32.6  | 27.7           | 28.4 | 28.3             | 29.0 | 29.6 |
| 8H                                                                   | 32.0             | 32.6 | 32.6 | 33.2 | 33.9  | 28.3           | 28.9 | 28.9             | 29.5 | 30.2 |
| Variations with the observer position at spacings:                   |                  |      |      |      |       |                |      |                  |      |      |
| S = 1.0H                                                             | + 0.1 / - 0.1    |      |      |      |       | + 0.1 / - 0.1  |      |                  |      |      |
| 1.5H                                                                 | + 0.2 / - 0.3    |      |      |      |       | + 0.2 / - 0.3  |      |                  |      |      |
| 2.0H                                                                 | + 0.2 / - 0.3    |      |      |      |       | + 0.2 / - 0.4  |      |                  |      |      |

CIE Pub.117 Corrected 7032 lm Total Lamp Luminous Flux. (8log(F/F0) = 6.8)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-06-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:11.780m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |

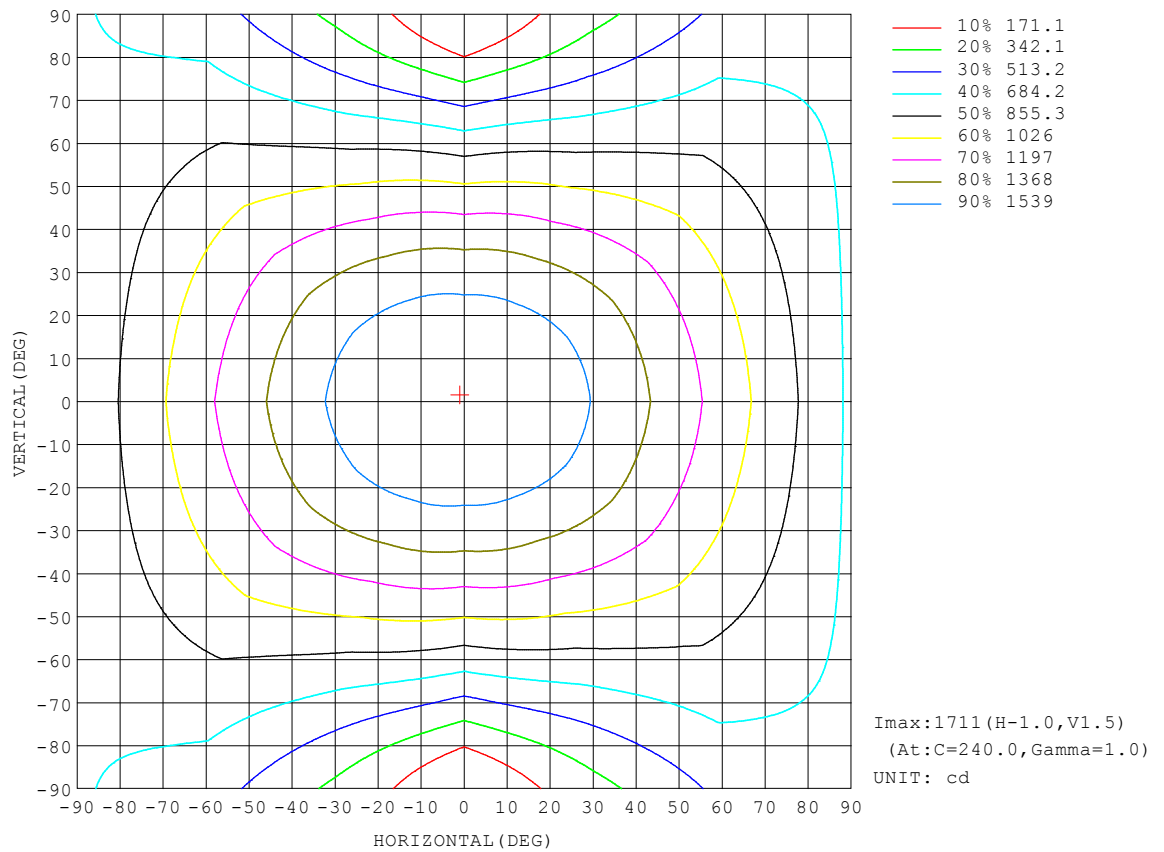
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 50                                                   | 37  | 30        | 49  | 37  | 30  | 47  | 36            | 30  | 23     |
| 0.80                             | 59                                                   | 46  | 38        | 58  | 46  | 38  | 56  | 45            | 37  | 30     |
| 1.00                             | 67                                                   | 54  | 46        | 65  | 53  | 45  | 62  | 55            | 45  | 36     |
| 1.25                             | 74                                                   | 61  | 53        | 72  | 60  | 52  | 68  | 58            | 51  | 42     |
| 1.50                             | 79                                                   | 67  | 58        | 77  | 66  | 58  | 73  | 63            | 56  | 47     |
| 2.00                             | 86                                                   | 75  | 67        | 84  | 74  | 66  | 79  | 71            | 64  | 54     |
| 2.50                             | 91                                                   | 81  | 73        | 88  | 79  | 71  | 83  | 75            | 69  | 58     |
| 3.00                             | 94                                                   | 85  | 78        | 91  | 83  | 76  | 86  | 79            | 73  | 62     |
| 4.00                             | 99                                                   | 91  | 85        | 96  | 89  | 83  | 90  | 84            | 79  | 67     |
| 5.00                             | 102                                                  | 95  | 89        | 99  | 92  | 87  | 92  | 87            | 83  | 70     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-06-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 11.780m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |

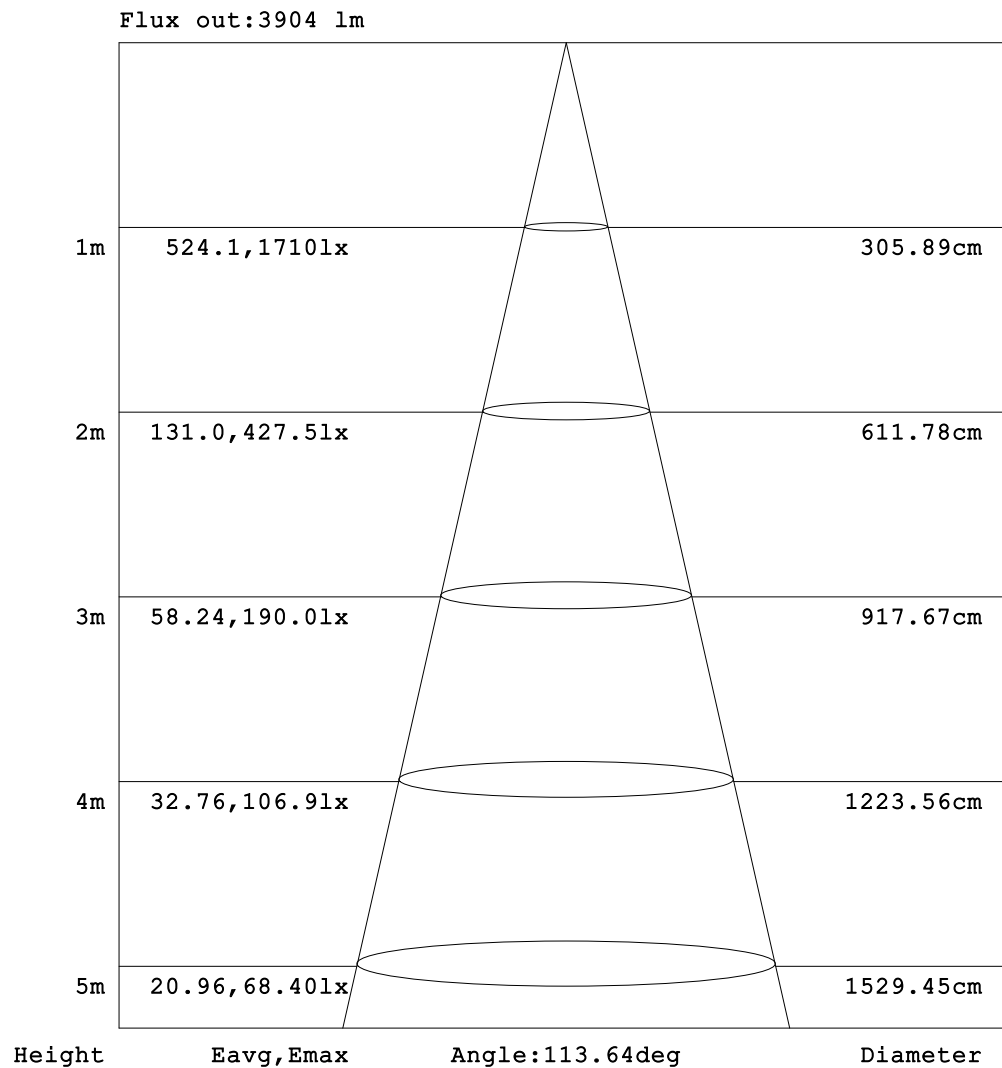


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-06-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:11.780m [K=1.0000]  
Remarks:

### AAI Figure

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |



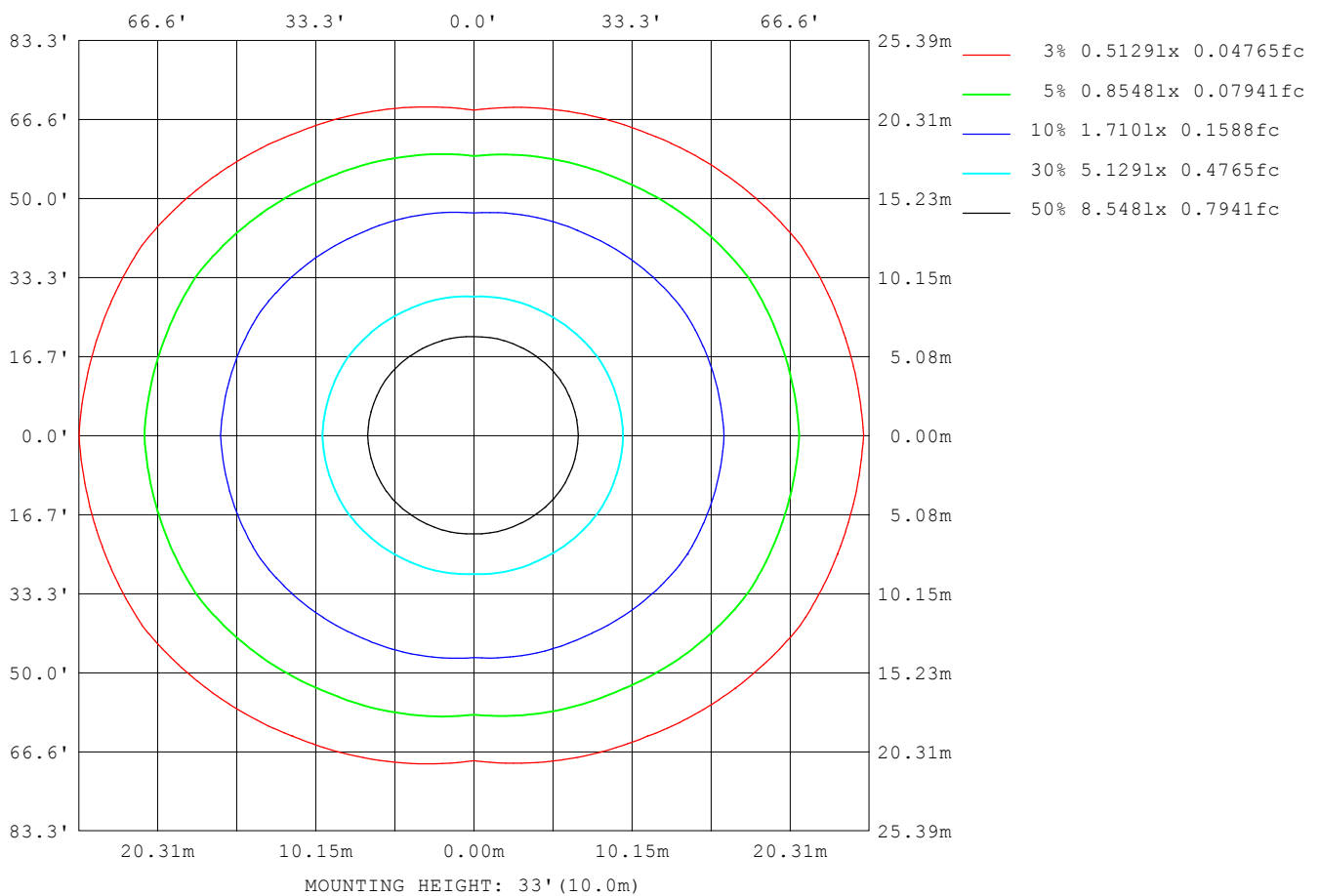
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-06-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 11.780m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-06-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:11.780m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                   |       |                  |
|-------------------------------------------------------------------|-------|------------------|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |       |                  |
| NAME:                                                             | TYPE: | WEIGHT:          |
| SPEC.:                                                            | DIM.: | SERIAL No.:      |
| MFR.: Deta Electrical Company Ltd.                                | SUR.: | Shielding Angle: |

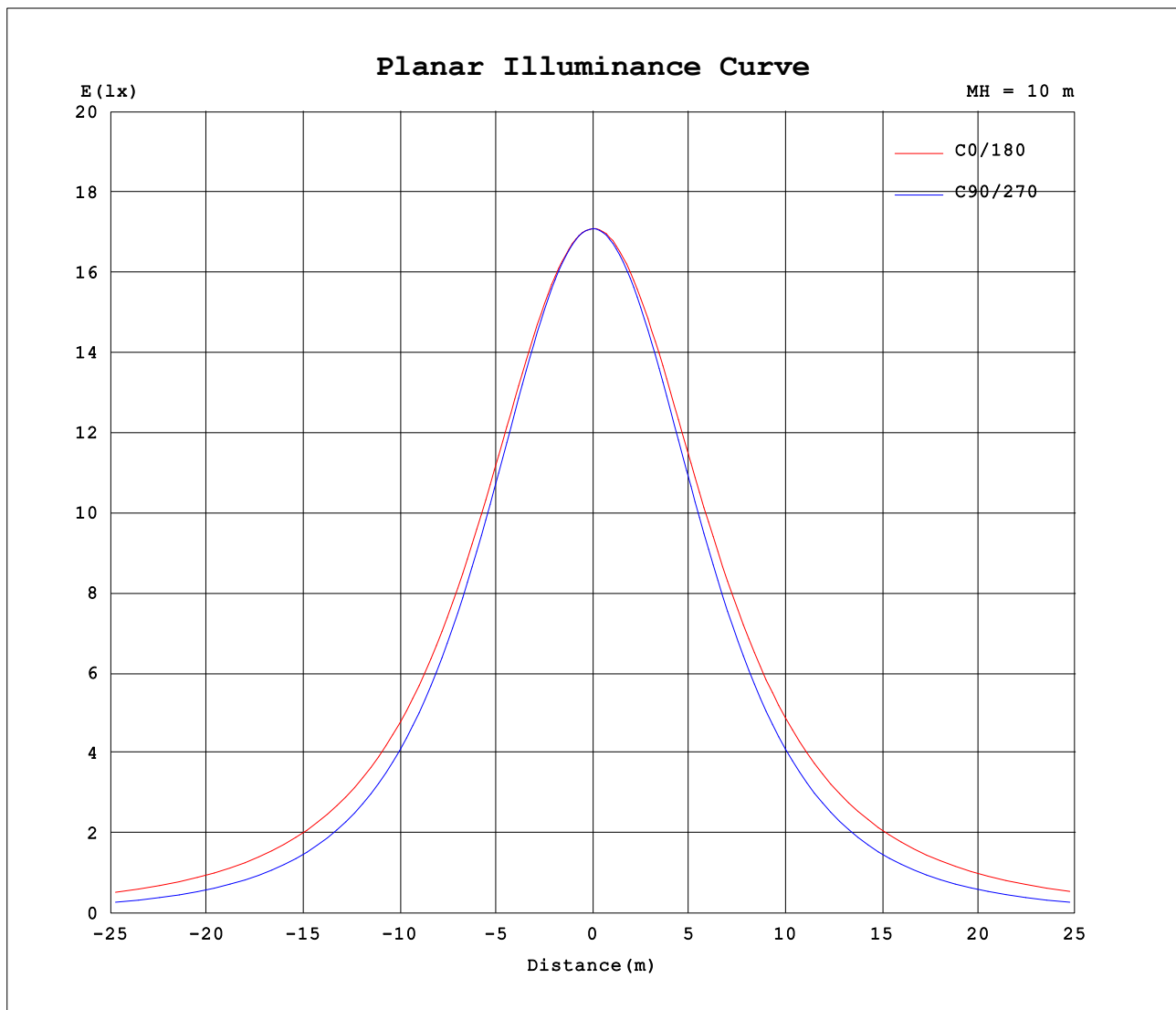
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 25365 |
| L_0~180 (75) av  | 35503 |
| L_0~180 (85) av  | 87226 |
| L_90~270 (65) av | 14645 |
| L_90~270 (75) av | 12247 |
| L_90~270 (85) av | 7151  |
| L_45 (65) av     | 21029 |
| L_45 (75) av     | 27168 |
| L_45 (85) av     | 60865 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-06-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2021-06-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 11.780m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|
| Test:U:230.4V I:0.2457A P:54.36W PF:0.9602 Lamp Flux:7032.22x1 lm |  |  |  |  |  |  |  |  |       |  |  |  |  |  |                  |  |  |
| NAME:                                                             |  |  |  |  |  |  |  |  | TYPE: |  |  |  |  |  | WEIGHT:          |  |  |
| SPEC.:                                                            |  |  |  |  |  |  |  |  | DIM.: |  |  |  |  |  | SERIAL No.:      |  |  |
| MFR.: Deta Electrical Company Ltd.                                |  |  |  |  |  |  |  |  | SUR.: |  |  |  |  |  | Shielding Angle: |  |  |

Table--1

UNIT: cd

| Table 1            |      |      |      |      |      |      |      |      |      |      |      |      | Table 2 |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|---------|--|--|--|--|--|--|
| C (DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |         |  |  |  |  |  |  |
| 0                  | 1710 | 1709 | 1710 | 1709 | 1709 | 1708 | 1710 | 1709 | 1710 | 1709 | 1709 | 1708 |         |  |  |  |  |  |  |
| 5                  | 1702 | 1702 | 1702 | 1701 | 1703 | 1704 | 1707 | 1707 | 1705 | 1702 | 1702 | 1701 |         |  |  |  |  |  |  |
| 10                 | 1686 | 1683 | 1679 | 1679 | 1683 | 1691 | 1697 | 1694 | 1688 | 1682 | 1682 | 1684 |         |  |  |  |  |  |  |
| 15                 | 1661 | 1656 | 1645 | 1642 | 1651 | 1666 | 1676 | 1670 | 1658 | 1648 | 1650 | 1656 |         |  |  |  |  |  |  |
| 20                 | 1625 | 1617 | 1598 | 1592 | 1606 | 1632 | 1647 | 1636 | 1615 | 1599 | 1605 | 1619 |         |  |  |  |  |  |  |
| 25                 | 1583 | 1569 | 1540 | 1528 | 1550 | 1588 | 1607 | 1592 | 1560 | 1536 | 1547 | 1572 |         |  |  |  |  |  |  |
| 30                 | 1534 | 1512 | 1470 | 1452 | 1482 | 1534 | 1560 | 1540 | 1492 | 1461 | 1479 | 1515 |         |  |  |  |  |  |  |
| 35                 | 1477 | 1447 | 1390 | 1364 | 1404 | 1473 | 1509 | 1480 | 1414 | 1373 | 1400 | 1451 |         |  |  |  |  |  |  |
| 40                 | 1414 | 1376 | 1300 | 1263 | 1316 | 1404 | 1449 | 1410 | 1327 | 1273 | 1311 | 1381 |         |  |  |  |  |  |  |
| 45                 | 1345 | 1300 | 1202 | 1153 | 1220 | 1329 | 1382 | 1335 | 1230 | 1161 | 1213 | 1305 |         |  |  |  |  |  |  |
| 50                 | 1276 | 1220 | 1098 | 1032 | 1116 | 1250 | 1312 | 1255 | 1126 | 1039 | 1109 | 1224 |         |  |  |  |  |  |  |
| 55                 | 1203 | 1138 | 989  | 901  | 1008 | 1167 | 1242 | 1173 | 1016 | 907  | 999  | 1143 |         |  |  |  |  |  |  |
| 60                 | 1129 | 1055 | 877  | 764  | 897  | 1085 | 1167 | 1090 | 903  | 767  | 887  | 1060 |         |  |  |  |  |  |  |
| 65                 | 1053 | 970  | 766  | 618  | 785  | 1002 | 1091 | 1005 | 790  | 619  | 776  | 976  |         |  |  |  |  |  |  |
| 70                 | 977  | 885  | 658  | 467  | 677  | 919  | 1015 | 922  | 680  | 467  | 667  | 891  |         |  |  |  |  |  |  |
| 75                 | 898  | 804  | 554  | 318  | 573  | 836  | 940  | 839  | 575  | 316  | 562  | 807  |         |  |  |  |  |  |  |
| 80                 | 819  | 721  | 455  | 178  | 476  | 755  | 862  | 757  | 474  | 173  | 462  | 725  |         |  |  |  |  |  |  |
| 85                 | 738  | 638  | 366  | 65.4 | 387  | 675  | 782  | 675  | 384  | 59.2 | 371  | 641  |         |  |  |  |  |  |  |
| 90                 | 652  | 553  | 283  | 6.55 | 306  | 593  | 700  | 591  | 302  | 4.64 | 288  | 556  |         |  |  |  |  |  |  |
| 95                 | 564  | 465  | 205  | 6.00 | 232  | 509  | 615  | 507  | 228  | 4.91 | 210  | 469  |         |  |  |  |  |  |  |
| 100                | 477  | 373  | 134  | 6.96 | 168  | 428  | 530  | 427  | 163  | 5.78 | 137  | 378  |         |  |  |  |  |  |  |
| 105                | 391  | 294  | 71.4 | 7.92 | 108  | 350  | 446  | 348  | 102  | 6.65 | 74.3 | 301  |         |  |  |  |  |  |  |
| 110                | 305  | 216  | 14.3 | 8.82 | 49.3 | 273  | 363  | 271  | 43.4 | 7.50 | 16.3 | 214  |         |  |  |  |  |  |  |
| 115                | 218  | 141  | 10.3 | 9.67 | 10.1 | 197  | 281  | 193  | 8.72 | 8.29 | 8.98 | 134  |         |  |  |  |  |  |  |
| 120                | 132  | 59.8 | 11.1 | 10.5 | 10.7 | 121  | 198  | 115  | 9.36 | 9.10 | 9.74 | 59.0 |         |  |  |  |  |  |  |
| 125                | 46.4 | 12.3 | 11.7 | 11.3 | 11.5 | 45.2 | 115  | 40.1 | 10.2 | 9.91 | 10.5 | 11.4 |         |  |  |  |  |  |  |
| 130                | 12.6 | 12.8 | 12.4 | 12.1 | 12.2 | 12.5 | 33.2 | 11.6 | 11.0 | 10.7 | 11.2 | 11.9 |         |  |  |  |  |  |  |
| 135                | 13.1 | 13.4 | 13.1 | 12.8 | 12.9 | 13.0 | 12.2 | 12.1 | 11.7 | 11.5 | 11.9 | 12.5 |         |  |  |  |  |  |  |
| 140                | 13.6 | 13.9 | 13.7 | 13.5 | 13.6 | 13.6 | 12.8 | 12.7 | 12.4 | 12.3 | 12.6 | 13.1 |         |  |  |  |  |  |  |
| 145                | 14.0 | 14.4 | 14.2 | 14.2 | 14.1 | 14.1 | 13.3 | 13.2 | 13.1 | 13.0 | 13.2 | 13.7 |         |  |  |  |  |  |  |
| 150                | 14.5 | 14.9 | 14.7 | 14.7 | 14.7 | 14.5 | 13.9 | 13.8 | 13.7 | 13.7 | 13.9 | 14.2 |         |  |  |  |  |  |  |
| 155                | 15.0 | 15.3 | 15.2 | 15.2 | 15.1 | 14.9 | 14.4 | 14.3 | 14.3 | 14.3 | 14.4 | 14.7 |         |  |  |  |  |  |  |
| 160                | 15.4 | 15.6 | 15.5 | 15.6 | 15.5 | 15.3 | 15.0 | 14.8 | 14.9 | 14.9 | 14.9 | 15.2 |         |  |  |  |  |  |  |
| 165                | 15.8 | 15.9 | 15.8 | 15.9 | 15.8 | 15.7 | 15.5 | 15.3 | 15.3 | 15.4 | 15.4 | 15.6 |         |  |  |  |  |  |  |
| 170                | 16.2 | 16.1 | 16.1 | 16.1 | 16.1 | 16.0 | 16.0 | 15.7 | 15.7 | 15.8 | 15.8 | 15.9 |         |  |  |  |  |  |  |
| 175                | 16.5 | 16.2 | 16.2 | 16.3 | 16.3 | 16.2 | 16.3 | 16.0 | 16.1 | 16.1 | 16.1 | 16.1 |         |  |  |  |  |  |  |
| 180                | 16.6 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 16.6 | 16.2 | 16.3 | 16.3 | 16.3 | 16.3 |         |  |  |  |  |  |  |

C Range: 0 - 360DEG  
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