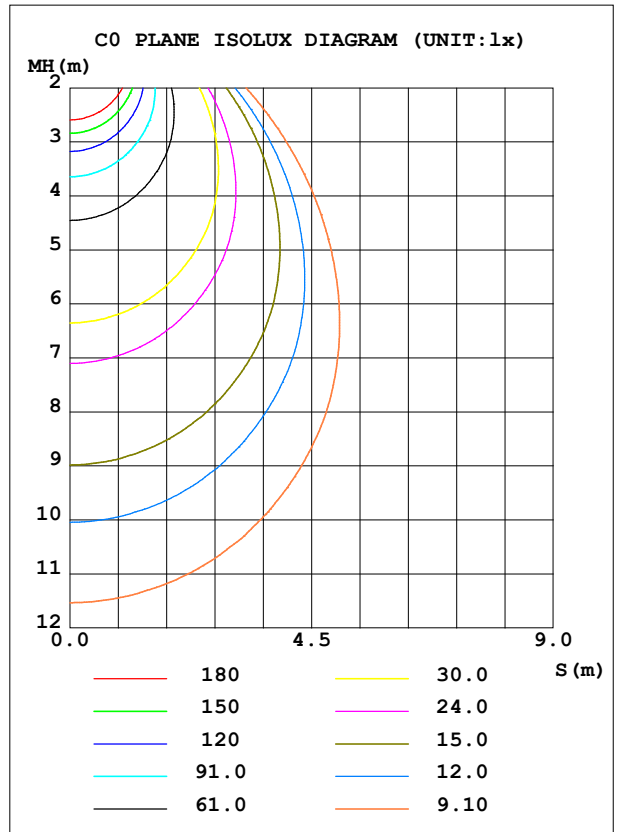
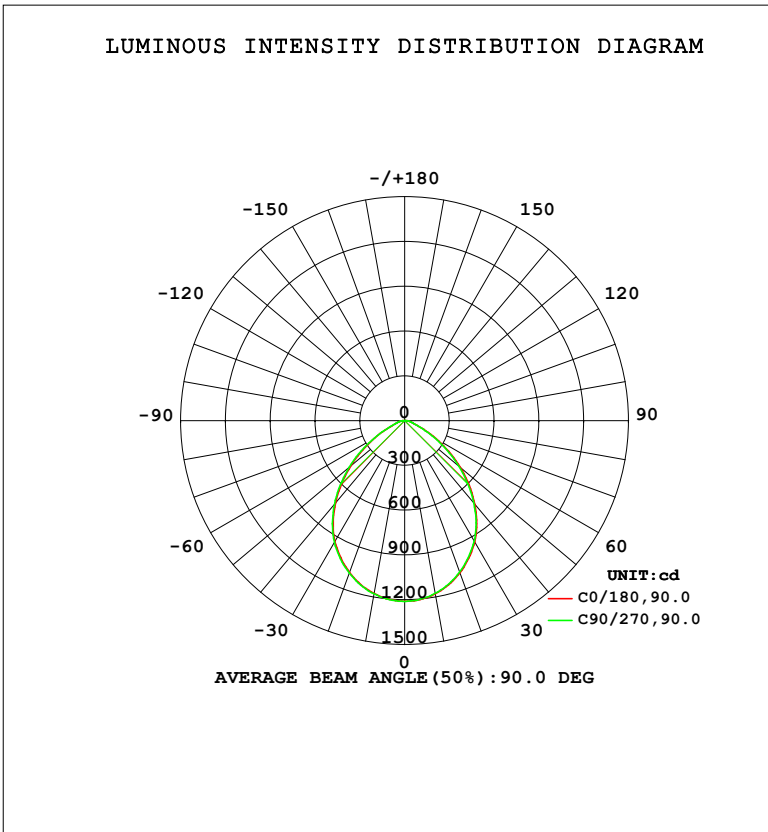


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz |             |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm    |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO                              | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights                                    | SUR.: 0.22  | Shielding Angle: |

| DATA OF LAMP      |                        | PHOTOMETRIC DATA                  |        |  |           |
|-------------------|------------------------|-----------------------------------|--------|--|-----------|
| MODEL             | DL254-10-40W-M-A5C5-HO | Imax (cd)                         | 1212   | S/MH (C0/180)                              | 1.16      |
| NOMINAL POWER (W) | 22                     | LOR (%)                           | 100.0  | S/MH (C90/270)                             | 1.16      |
| RATED VOLTAGE (V) | 120                    | TOTAL FLUX (lm)                   | 2417.8 | <input type="checkbox"/> UP, DN (C0-180)   | 0.0, 50.2 |
| NOMINAL FLUX (lm) | 2417.77                | CIE CLASS                         | DIRECT | <input type="checkbox"/> UP, DN (C180-360) | 0.0, 49.8 |
| LAMPS INSIDE      | 1                      | <input type="checkbox"/> up (%)   | 0.0    | CIBSE SHR NOM                              | 1.25      |
| TEST VOLTAGE (V)  | 120                    | <input type="checkbox"/> down (%) | 100.0  | CIBSE SHR MAX                              | 1.25      |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| °   | C0                    | C45    | C90    | C135   | C180  | C225  | C270  | C315  | °       | □ zone  | □ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|-------|-------|-------|-------|---------|---------|---------|------------|
| 10  | 1177                  | 1178   | 1179   | 1180   | 1179  | 1179  | 1175  | 1174  | 0- 10   | 114.0   | 114.0   | 4.71,4.71  |
| 20  | 1082                  | 1084   | 1087   | 1089   | 1084  | 1082  | 1078  | 1077  | 10- 20  | 320.3   | 434.3   | 18,18      |
| 30  | 934.6                 | 936.6  | 941.9  | 945.6  | 938.9 | 936.7 | 933.0 | 928.7 | 20- 30  | 467.1   | 901.4   | 37.3,37.3  |
| 40  | 722.0                 | 725.4  | 732.9  | 739.2  | 731.5 | 726.9 | 721.2 | 717.9 | 30- 40  | 523.2   | 1425    | 58.9,58.9  |
| 50  | 470.7                 | 477.3  | 484.7  | 491.8  | 487.0 | 479.6 | 473.4 | 468.6 | 40- 50  | 465.5   | 1890    | 78.2,78.2  |
| 60  | 227.7                 | 231.3  | 236.1  | 239.6  | 242.7 | 238.7 | 231.2 | 225.6 | 50- 60  | 315.5   | 2206    | 91.2,91.2  |
| 70  | 72.85                 | 73.14  | 74.50  | 75.99  | 77.73 | 78.31 | 75.91 | 74.01 | 60- 70  | 141.1   | 2347    | 97.1,97.1  |
| 80  | 32.07                 | 32.22  | 32.81  | 33.61  | 34.54 | 34.56 | 34.08 | 33.45 | 70- 80  | 54.67   | 2401    | 99.3,99.3  |
| 90  | 0.6752                | 0.6817 | 0.6621 | 0.6686 | 1.186 | 1.180 | 1.173 | 1.174 | 80- 90  | 16.29   | 2418    | 100,100    |
| 100 |                       |        |        |        |       |       |       |       | 90-100  |         |         |            |
| 110 |                       |        |        |        |       |       |       |       | 100-110 |         |         |            |
| 120 |                       |        |        |        |       |       |       |       | 110-120 |         |         |            |
| 130 |                       |        |        |        |       |       |       |       | 120-130 |         |         |            |
| 140 |                       |        |        |        |       |       |       |       | 130-140 |         |         |            |
| 150 |                       |        |        |        |       |       |       |       | 140-150 |         |         |            |
| 160 |                       |        |        |        |       |       |       |       | 150-160 |         |         |            |
| 170 |                       |        |        |        |       |       |       |       | 160-170 |         |         |            |
| 180 |                       |        |        |        |       |       |       |       | 170-180 |         |         |            |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |       |       |       |       |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 1671.3 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(130deg): 2294.7 lm

%lum = 94.9%

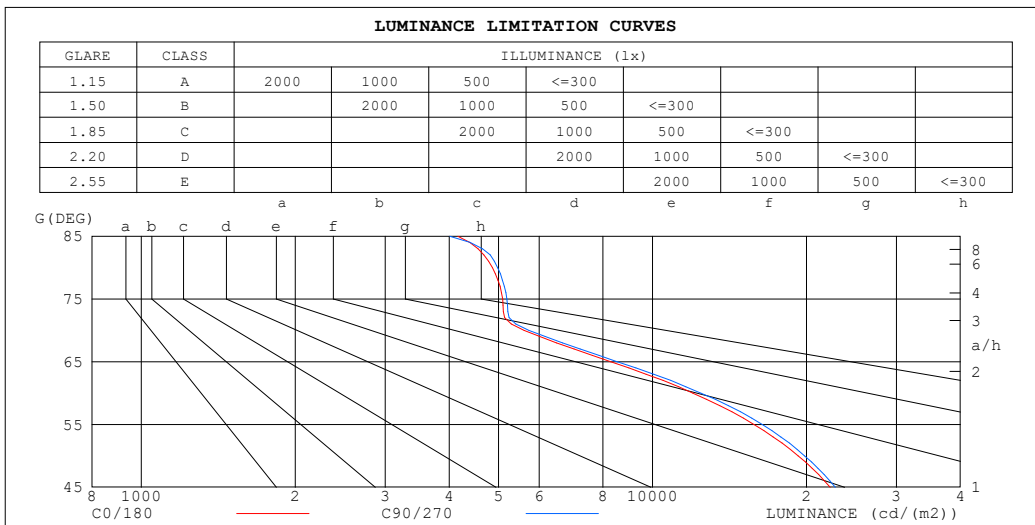
%lamp = 94.9%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 4164   | 4015    |
| 80                | 4860   | 4972    |
| 75                | 5089   | 5189    |
| 70                | 5605   | 5733    |
| 65                | 8284   | 8532    |
| 60                | 11983  | 12427   |
| 55                | 15800  | 16399   |
| 50                | 19269  | 19844   |
| 45                | 22250  | 22763   |

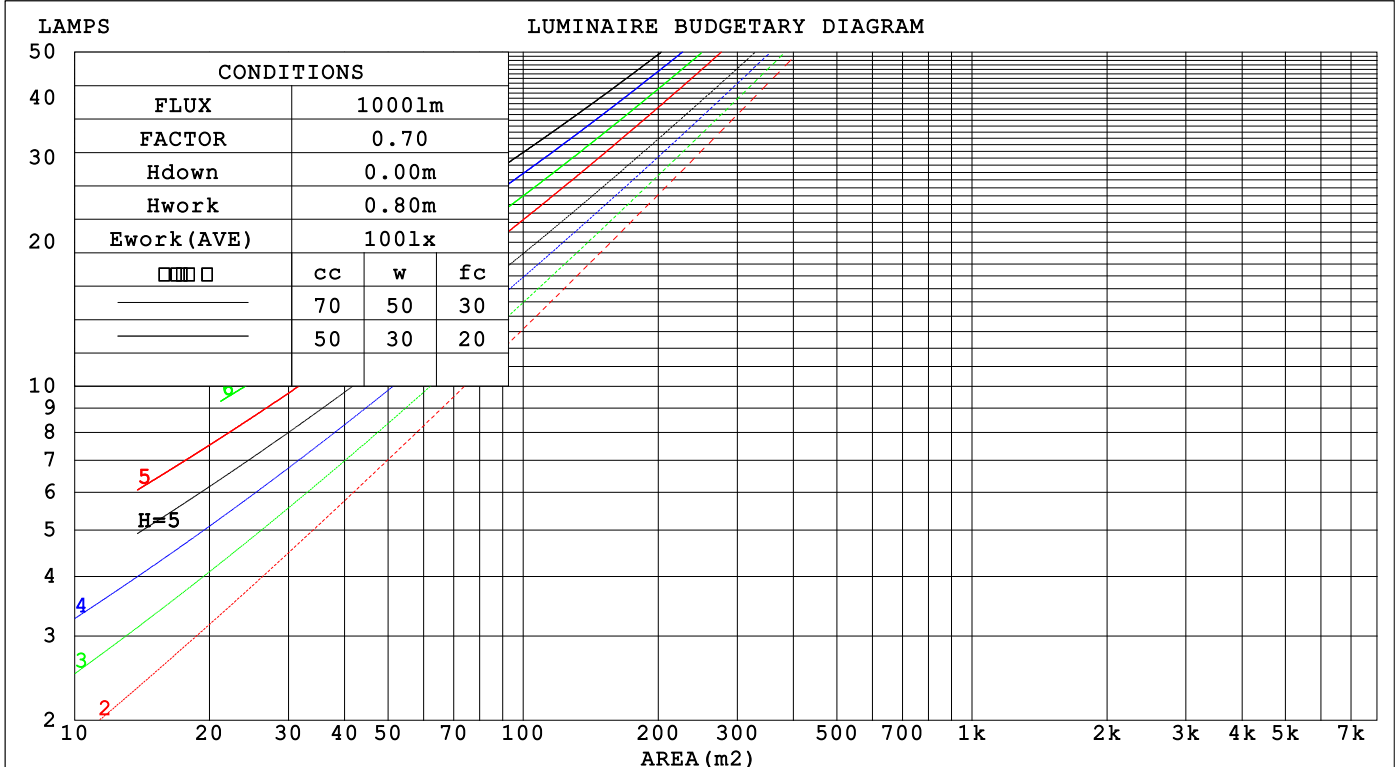
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz |             |                  |
| UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm    |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO                              | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights                                    | SUR.: 0.22  | Shielding Angle: |

|      |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |      |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| □cc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0    |
| □w   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| □fc  | 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 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0  | 1.07                  | 1.04 | 1.00 | 1.05 | 1.02 | .99  | 1.01                            | .98  | .96  | .97  | .95  | .93  | .93  | .92  | .90  | .88  |
| 2.0  | .96                   | .90  | .85  | .94  | .89  | .84  | .90                             | .86  | .82  | .87  | .84  | .81  | .84  | .81  | .79  | .77  |
| 3.0  | .86                   | .79  | .73  | .84  | .78  | .73  | .81                             | .76  | .71  | .79  | .74  | .70  | .76  | .72  | .69  | .67  |
| 4.0  | .77                   | .70  | .64  | .76  | .69  | .63  | .74                             | .67  | .63  | .71  | .66  | .62  | .69  | .65  | .61  | .59  |
| 5.0  | .70                   | .62  | .56  | .69  | .61  | .56  | .67                             | .60  | .55  | .65  | .59  | .55  | .63  | .58  | .54  | .52  |
| 6.0  | .64                   | .56  | .50  | .63  | .55  | .50  | .61                             | .54  | .49  | .59  | .53  | .49  | .58  | .53  | .49  | .47  |
| 7.0  | .58                   | .50  | .45  | .57  | .50  | .45  | .56                             | .49  | .44  | .55  | .49  | .44  | .53  | .48  | .44  | .42  |
| 8.0  | .54                   | .46  | .40  | .53  | .45  | .40  | .52                             | .45  | .40  | .50  | .44  | .40  | .49  | .44  | .40  | .38  |
| 9.0  | .49                   | .42  | .37  | .49  | .42  | .37  | .48                             | .41  | .36  | .47  | .41  | .36  | .46  | .40  | .36  | .34  |
| 10.0 | .46                   | .38  | .34  | .45  | .38  | .33  | .44                             | .38  | .33  | .43  | .37  | .33  | .43  | .37  | .33  | .31  |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz |             |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm    |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO                              | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights                                    | SUR.: 0.22  | Shielding Angle: |

|                             |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
|-----------------------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| <input type="checkbox"/> cc | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
| <input type="checkbox"/> w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| <input type="checkbox"/> fc | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR                         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0                         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0                         | .249                  | .142 | .045 | .242 | .138 | .044 | .229                            | .132 | .042 | .217 | .125 | .040 | .206 | .120 | .039 |   |
| 2.0                         | .241                  | .132 | .041 | .235 | .129 | .040 | .224                            | .124 | .039 | .213 | .120 | .037 | .204 | .115 | .036 |   |
| 3.0                         | .228                  | .122 | .036 | .223 | .120 | .036 | .213                            | .116 | .035 | .204 | .112 | .034 | .196 | .108 | .034 |   |
| 4.0                         | .215                  | .112 | .033 | .211 | .110 | .033 | .202                            | .107 | .032 | .194 | .104 | .031 | .186 | .101 | .031 |   |
| 5.0                         | .202                  | .103 | .030 | .198 | .102 | .030 | .191                            | .099 | .029 | .183 | .097 | .029 | .177 | .094 | .028 |   |
| 6.0                         | .190                  | .095 | .027 | .187 | .094 | .027 | .180                            | .092 | .027 | .173 | .090 | .027 | .167 | .088 | .026 |   |
| 7.0                         | .179                  | .089 | .025 | .176 | .088 | .025 | .170                            | .086 | .025 | .164 | .084 | .024 | .159 | .083 | .024 |   |
| 8.0                         | .169                  | .083 | .023 | .166 | .082 | .023 | .161                            | .080 | .023 | .156 | .079 | .023 | .151 | .077 | .023 |   |
| 9.0                         | .160                  | .077 | .022 | .157 | .077 | .022 | .152                            | .075 | .021 | .148 | .074 | .021 | .143 | .073 | .021 |   |
| 10.0                        | .151                  | .073 | .020 | .149 | .072 | .020 | .145                            | .071 | .020 | .140 | .070 | .020 | .136 | .069 | .020 |   |

|                             |                       |      |      |      |      |      |  |      |      |      |      |      |      |      |      |   |
|-----------------------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| <input type="checkbox"/> cc | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
| <input type="checkbox"/> w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| <input type="checkbox"/> fc | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR                         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0                         |                       |      |      |      |      |      |  |      |      |      |      |      |      |      |      |   |
| 1.0                         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 2.0                         | .176                  | .157 | .139 | .151 | .134 | .120 | .103                                       | .093 | .083 | .059 | .054 | .048 | .019 | .017 | .016 |   |
| 3.0                         | .165                  | .132 | .104 | .142 | .114 | .090 | .097                                       | .079 | .063 | .056 | .046 | .037 | .018 | .015 | .012 |   |
| 4.0                         | .156                  | .114 | .080 | .134 | .098 | .070 | .092                                       | .068 | .049 | .053 | .040 | .029 | .017 | .013 | .009 |   |
| 5.0                         | .148                  | .100 | .063 | .127 | .087 | .055 | .088                                       | .060 | .039 | .051 | .035 | .023 | .016 | .012 | .008 |   |
| 6.0                         | .141                  | .089 | .051 | .121 | .077 | .045 | .083                                       | .054 | .032 | .048 | .032 | .019 | .016 | .010 | .006 |   |
| 7.0                         | .134                  | .081 | .042 | .115 | .070 | .037 | .080                                       | .049 | .026 | .046 | .029 | .016 | .015 | .009 | .005 |   |
| 8.0                         | .128                  | .074 | .036 | .110 | .064 | .031 | .076                                       | .045 | .022 | .044 | .026 | .013 | .014 | .009 | .004 |   |
| 9.0                         | .122                  | .068 | .031 | .105 | .059 | .027 | .073                                       | .041 | .019 | .042 | .024 | .011 | .014 | .008 | .004 |   |
| 10.0                        | .117                  | .063 | .027 | .100 | .055 | .023 | .070                                       | .038 | .017 | .041 | .023 | .010 | .013 | .007 | .003 |   |
| 10.0                        | .111                  | .059 | .024 | .096 | .051 | .021 | .067                                       | .036 | .015 | .039 | .021 | .009 | .013 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | 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   | 21.8             | 23.2 | 22.1 | 23.3 | 23.5 | 21.9           | 23.3 | 22.2 | 23.5 | 23.6 |
| 3H              | 22.0             | 23.3 | 22.3 | 23.5 | 23.7 | 22.2           | 23.4 | 22.4 | 23.6 | 23.8 |
| 4H              | 22.1             | 23.3 | 22.4 | 23.5 | 23.7 | 22.2           | 23.4 | 22.5 | 23.6 | 23.9 |
| 6H              | 22.2             | 23.2 | 22.5 | 23.5 | 23.8 | 22.3           | 23.4 | 22.6 | 23.6 | 23.9 |
| 8H              | 22.2             | 23.2 | 22.5 | 23.5 | 23.8 | 22.3           | 23.3 | 22.6 | 23.6 | 23.9 |
| 12H             | 22.2             | 23.2 | 22.5 | 23.5 | 23.7 | 22.3           | 23.3 | 22.6 | 23.6 | 23.9 |
| 4H 2H           | 22.0             | 23.1 | 22.3 | 23.4 | 23.6 | 22.1           | 23.2 | 22.4 | 23.5 | 23.7 |
| 3H              | 22.3             | 23.3 | 22.6 | 23.6 | 23.8 | 22.4           | 23.4 | 22.7 | 23.7 | 23.9 |
| 4H              | 22.4             | 23.3 | 22.8 | 23.6 | 23.9 | 22.5           | 23.4 | 22.9 | 23.7 | 24.0 |
| 6H              | 22.5             | 23.3 | 22.9 | 23.7 | 24.0 | 22.6           | 23.4 | 23.0 | 23.8 | 24.1 |
| 8H              | 22.6             | 23.3 | 23.0 | 23.7 | 24.1 | 22.7           | 23.4 | 23.1 | 23.8 | 24.2 |
| 12H             | 22.6             | 23.3 | 23.0 | 23.7 | 24.1 | 22.7           | 23.4 | 23.1 | 23.8 | 24.2 |
| 8H 4H           | 22.4             | 23.1 | 22.8 | 23.5 | 23.9 | 22.5           | 23.2 | 22.9 | 23.6 | 24.0 |
| 6H              | 22.6             | 23.2 | 23.1 | 23.6 | 24.0 | 22.7           | 23.3 | 23.2 | 23.7 | 24.1 |
| 8H              | 22.7             | 23.3 | 23.2 | 23.7 | 24.1 | 22.8           | 23.4 | 23.3 | 23.8 | 24.2 |
| 12H             | 22.8             | 23.2 | 23.3 | 23.7 | 24.2 | 22.9           | 23.3 | 23.4 | 23.8 | 24.3 |
| 12H 4H          | 22.4             | 23.1 | 22.8 | 23.4 | 23.8 | 22.5           | 23.1 | 22.9 | 23.5 | 23.9 |
| 6H              | 22.6             | 23.2 | 23.1 | 23.6 | 24.0 | 22.7           | 23.3 | 23.2 | 23.7 | 24.1 |
| 8H              | 22.7             | 23.2 | 23.2 | 23.6 | 24.1 | 22.8           | 23.3 | 23.3 | 23.7 | 24.2 |

|   |               |               |
|---|---------------|---------------|
| Variations with the observer position at spacings(CIE Pub.117): |               |               |
| S = 1.0H  | + 0.7 / - 0.8 | + 0.6 / - 0.8 |
| 1.5H  | + 0.3 / - 0.4 | + 0.3 / - 0.4 |
| 2.0H  | + 1.3 / - 1.7 | + 1.3 / - 1.8 |

CIE Pub.117, 2418 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.1)  
 Area: 0.038 m2

|                      |   |
|----------------------|---|
| C Range: 0 - 360DEG  | <input type="checkbox"/> Range: 0 - 90DEG         |
| C Interval: 22.5DEG  | <input type="checkbox"/> Interval: 1.0DEG         |
| Test Speed: HIGH     | Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461 |
| Temperature:25.3°C   | Humidity:65.0%                                    |
| Operators:DAMIN      | Test Distance:9.680m [K=1.0000]                   |
| Test Date:2023-07-04 | Remarks:  |

**UTILIZATION FACTORS TABLE**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |

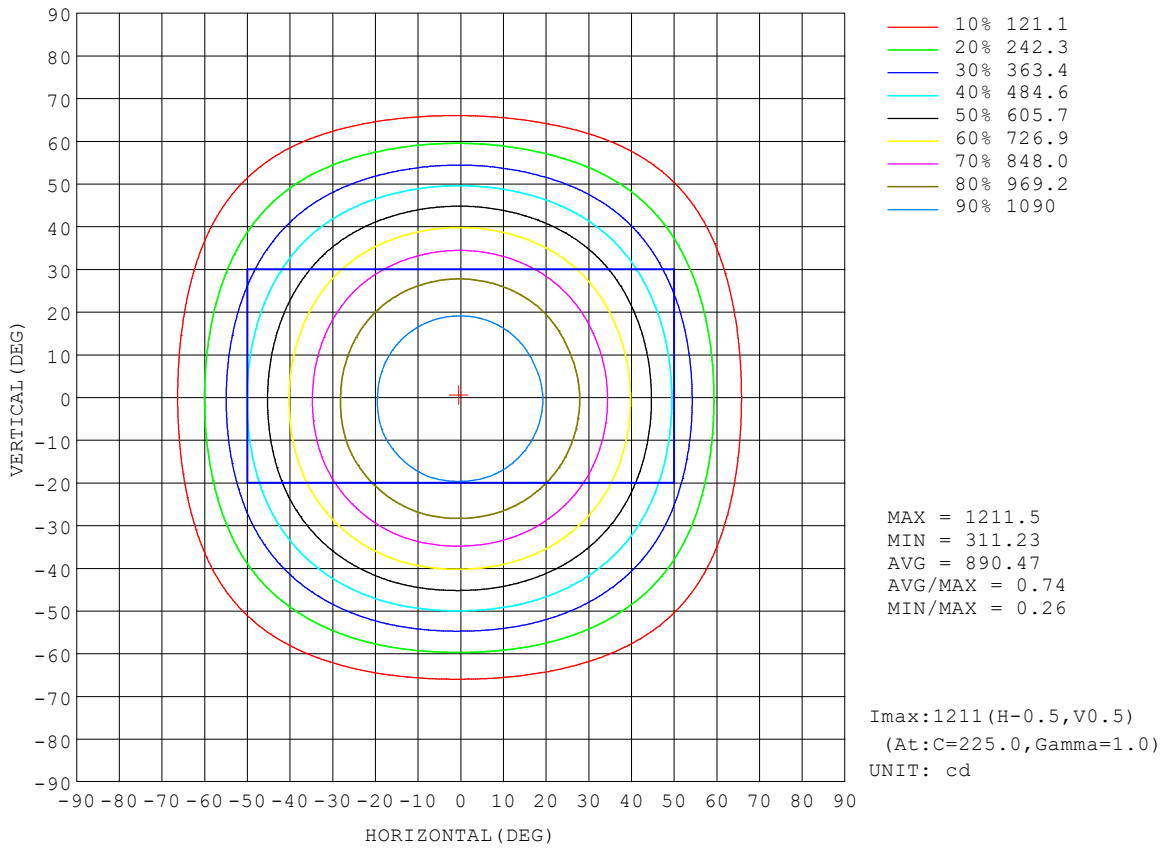
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 65   | 55  | 49        | 65  | 55  | 49  | 64            | 55  | 49  | 43     |
| 0.80                             | 76   | 66  | 59        | 75  | 65  | 59  | 73            | 65  | 59  | 53     |
| 1.00                             | 84   | 75  | 69        | 83  | 74  | 68  | 81            | 75  | 68  | 62     |
| 1.25                             | 90   | 82  | 76        | 89  | 81  | 76  | 87            | 80  | 75  | 69     |
| 1.50                             | 95   | 87  | 81        | 93  | 86  | 81  | 91            | 84  | 80  | 73     |
| 2.00                             | 101  | 94  | 89        | 99  | 93  | 88  | 96            | 91  | 86  | 80     |
| 2.50                             | 103  | 97  | 93        | 102 | 96  | 92  | 98            | 93  | 90  | 82     |
| 3.00                             | 106  | 101 | 96        | 104 | 99  | 95  | 100           | 96  | 93  | 86     |
| 4.00                             | 109  | 105 | 101       | 107 | 103 | 100 | 103           | 100 | 97  | 89     |
| 5.00                             | 111  | 107 | 104       | 109 | 105 | 102 | 104           | 102 | 99  | 91     |
| 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:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |



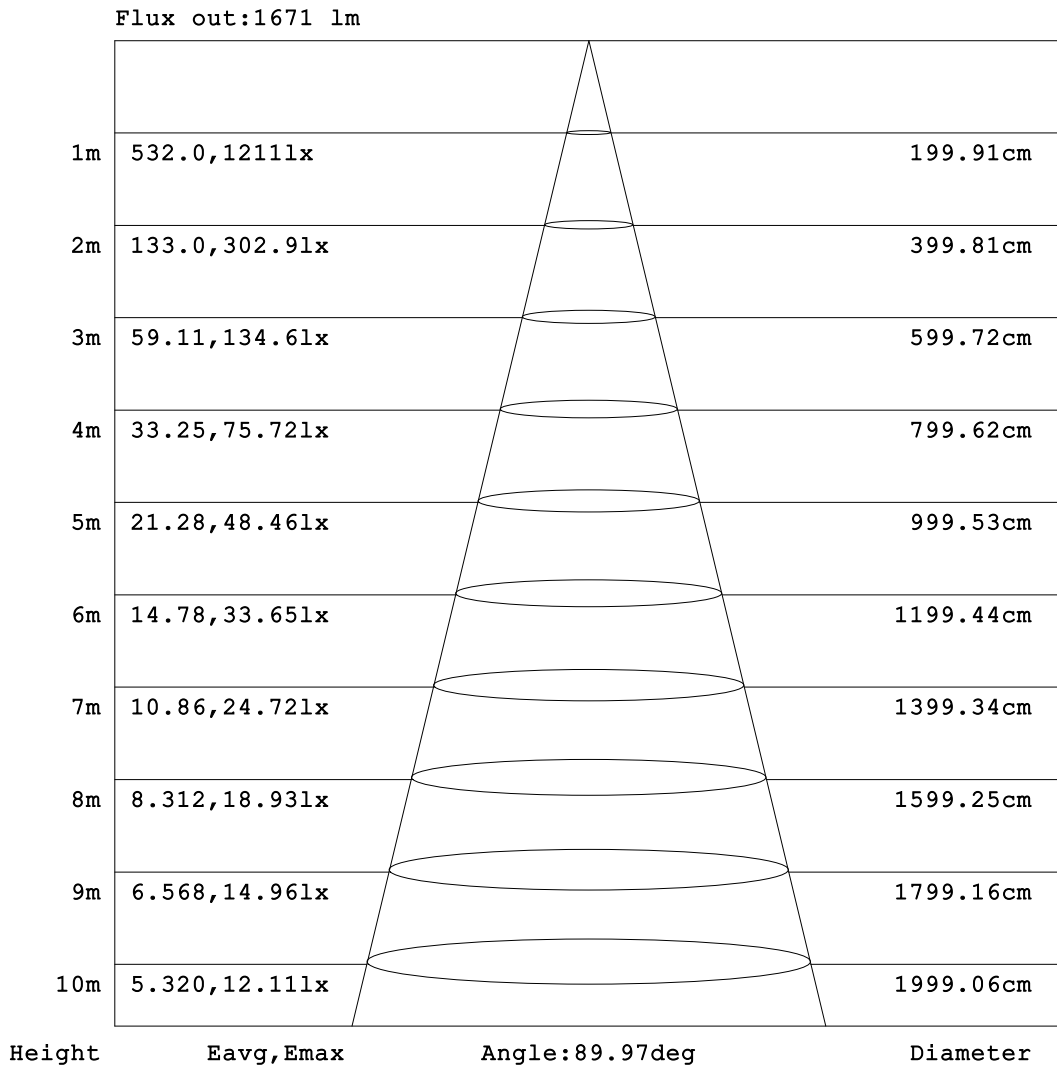
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:



**AAI Figure**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |



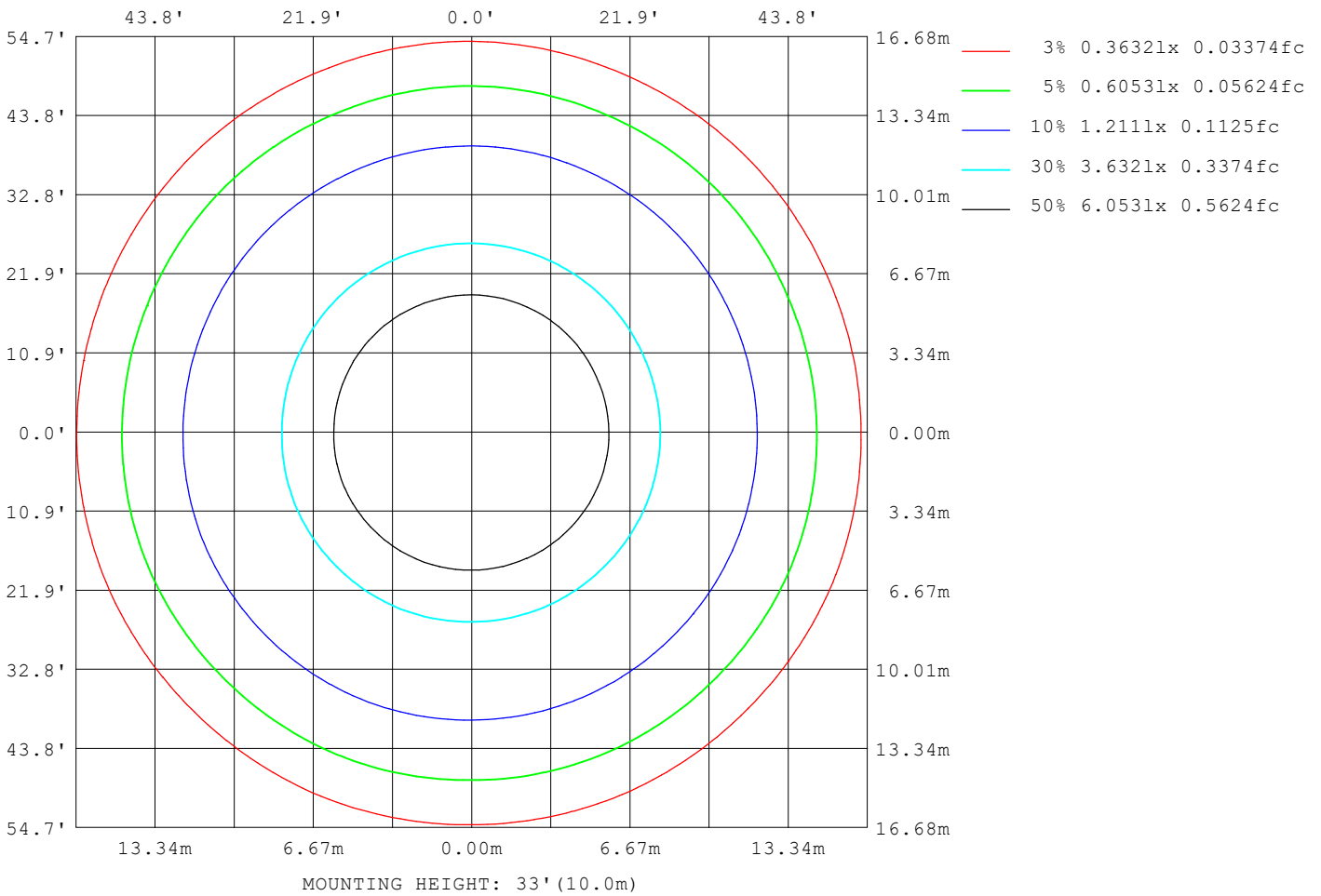
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

|   |             |                  |
|---|-------------|------------------|
| Test:U:119.40V I:0.1773A P:20.748W PF:0.9803 Freq:60.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2417.77x1 lm |             |                  |
| NAME: DL254-10-40W-M-A5C5-HO  | TYPE: 22W   | WEIGHT:          |
| SPEC.: 3500K  | DIM.: 0.295 | SERIAL No.: 1    |
| MFR.: Lotus LED Lights  | SUR.: 0.22  | Shielding Angle: |

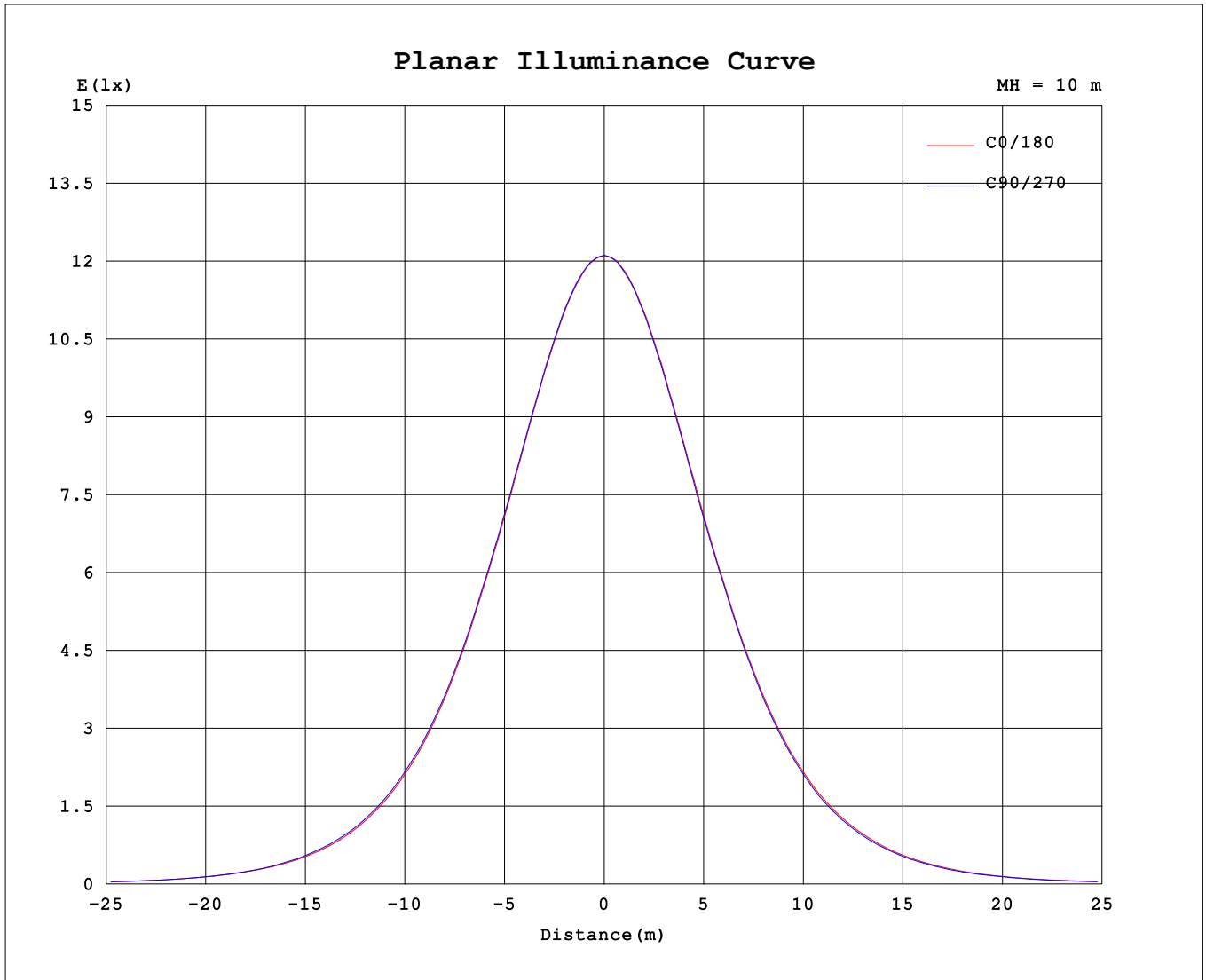
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 8562  |
| L_0~180 (75) av  | 5217  |
| L_0~180 (85) av  | 4509  |
| L_90~270 (65) av | 8486  |
| L_90~270 (75) av | 5227  |
| L_90~270 (85) av | 4163  |
| L_45 (65) av     | 8527  |
| L_45 (75) av     | 5225  |
| L_45 (85) av     | 4423  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-04

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

