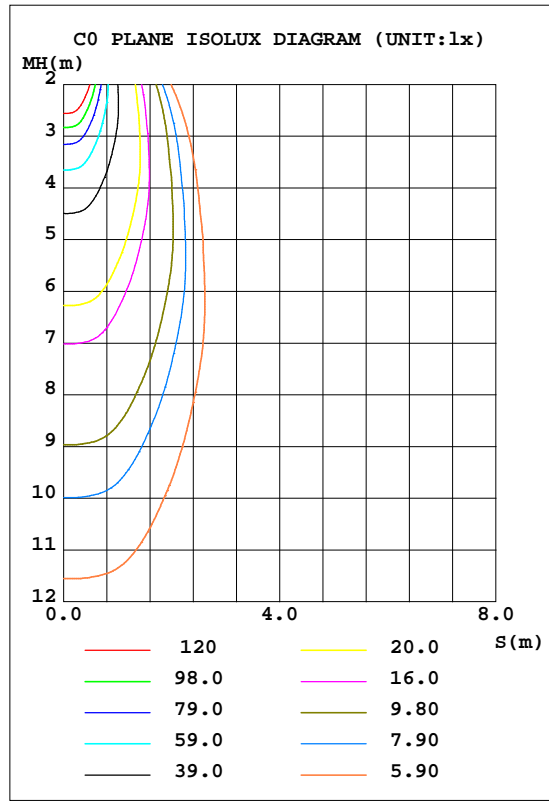
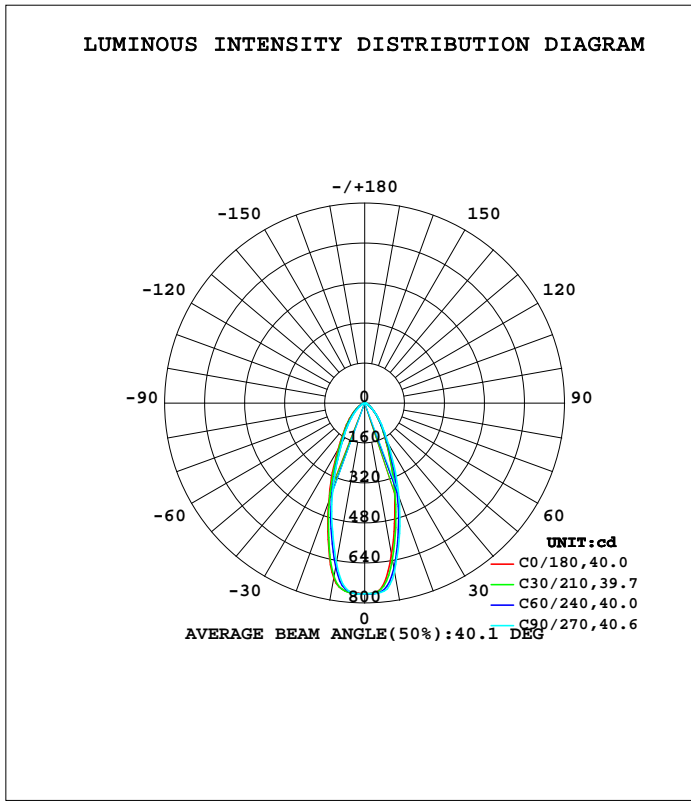


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA      |        |                    |          |
|------------------|---------|-----------------------|--------|--------------------|----------|
| MODEL            |         | I <sub>max</sub> (cd) | 764.4  | S/MH(C0/180)       | 0.69     |
| NOMINAL POWER(W) | --      | LOR(%)                | 100.0  | S/MH(C90/270)      | 0.63     |
| RATED VOLTAGE(V) | --      | TOTAL FLUX(lm)        | 523.73 | η UP, DN(C0-180)   | 0.0,49.6 |
| NOMINAL FLUX(lm) | 523.726 | CIE CLASS             | DIRECT | η UP, DN(C180-360) | 0.0,50.4 |
| LAMPS INSIDE     | 1       | η up(%)               | 0.0    | CIBSE SHR NOM      | 0.50     |
| TEST VOLTAGE(V)  | --      | η down(%)             | 100.0  | CIBSE SHR MAX      | 0.70     |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM**

**ZONAL FLUX DIAGRAM:**

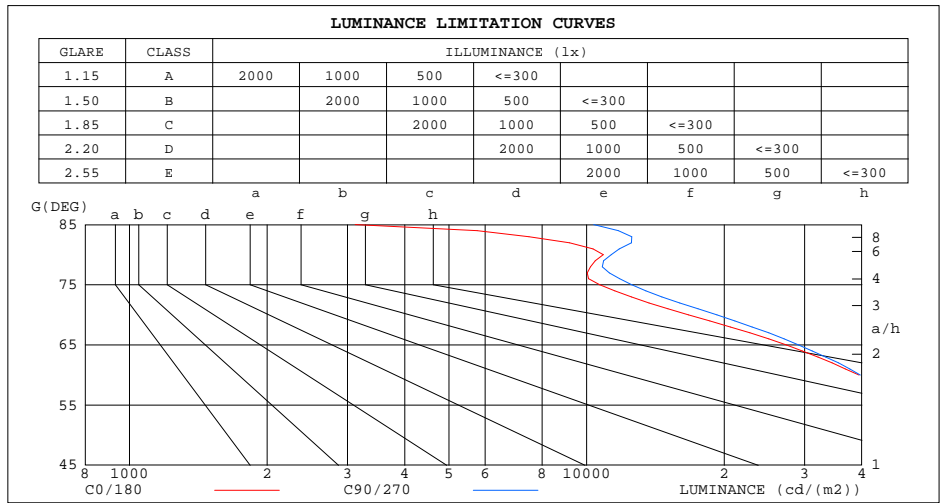
| $\gamma$ | C0                    | C45    | C90   | C135  | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | \$lum,lamp |
|----------|-----------------------|--------|-------|-------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 617.3                 | 655.7  | 685.9 | 698.0 | 713.0  | 689.7  | 650.0  | 650.9  | 0- 10    | 69.52       | 69.52        | 13.3,13.3  |
| 20       | 344.4                 | 360.6  | 402.3 | 397.9 | 421.1  | 392.5  | 377.8  | 355.5  | 10- 20   | 143.7       | 213.2        | 40.7,40.7  |
| 30       | 167.6                 | 175.1  | 192.8 | 192.9 | 211.1  | 194.0  | 184.2  | 174.9  | 20- 30   | 123.5       | 336.7        | 64.3,64.3  |
| 40       | 89.85                 | 91.57  | 95.91 | 101.9 | 113.5  | 102.9  | 92.61  | 92.27  | 30- 40   | 84.40       | 421.1        | 80.4,80.4  |
| 50       | 43.50                 | 46.39  | 45.03 | 52.34 | 59.02  | 53.42  | 42.76  | 46.43  | 40- 50   | 54.13       | 475.2        | 90.7,90.7  |
| 60       | 19.10                 | 21.22  | 19.97 | 24.31 | 26.43  | 25.52  | 18.96  | 21.53  | 50- 60   | 29.96       | 505.2        | 96.5,96.5  |
| 70       | 5.533                 | 6.584  | 6.633 | 8.267 | 9.291  | 8.571  | 5.837  | 6.719  | 60- 70   | 13.64       | 518.8        | 99.1,99.1  |
| 80       | 1.829                 | 1.858  | 1.979 | 2.125 | 2.257  | 2.093  | 1.897  | 1.902  | 70- 80   | 3.951       | 522.8        | 99.8,99.8  |
| 90       | 0.0050                | 0.0015 | 0     | 0     | 0.0252 | 0.0207 | 0.0202 | 0.0249 | 80- 90   | 0.9418      | 523.7        | 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     |              |            |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 3117   | 10368   |
| 80                | 10874  | 11328   |
| 75                | 10689  | 12549   |
| 70                | 16703  | 19271   |
| 65                | 27350  | 29108   |
| 60                | 39437  | 39681   |
| 55                | 52666  | 52161   |
| 50                | 69870  | 69611   |
| 45                | 92830  | 93738   |

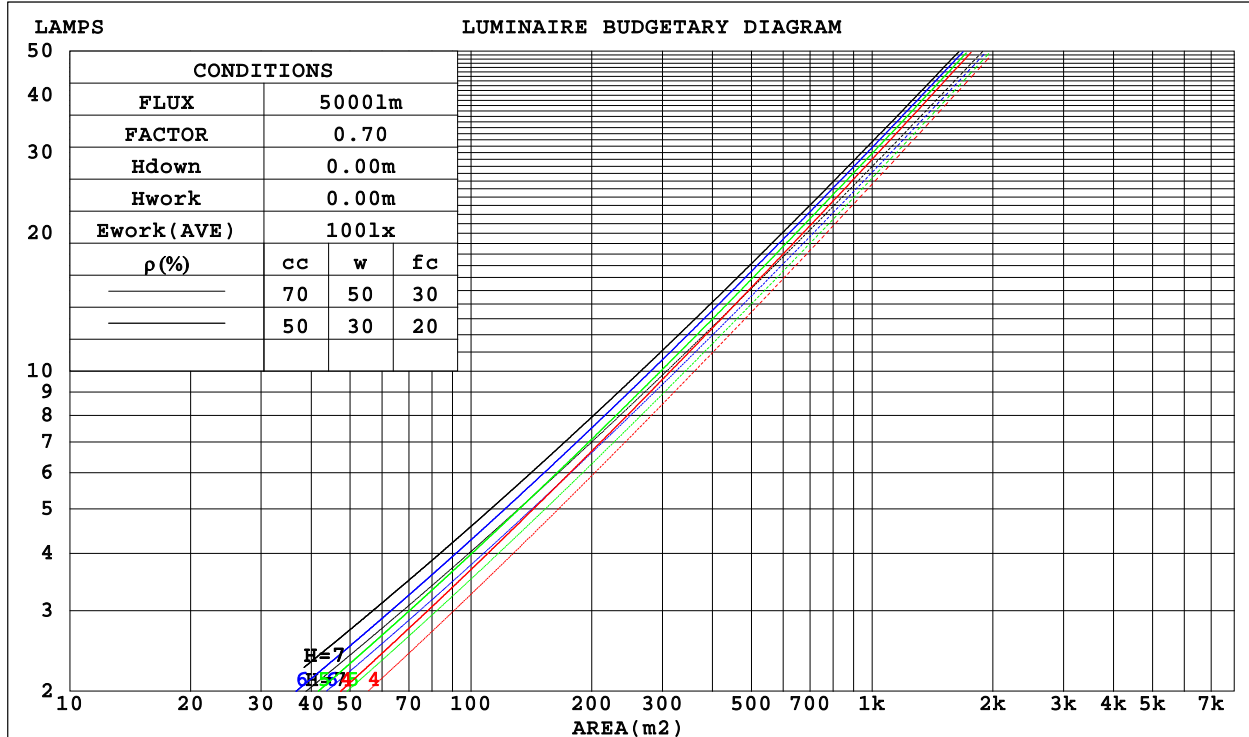
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

| ρ <sub>cc</sub> | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ρ <sub>w</sub>  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| ρ <sub>fc</sub> | 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             | 1.10                            | 1.07 | 1.05 | 1.08 | 1.05 | 1.03 | 1.04 | 1.02 | .00  | .00  | .98  | .97  | .96  | .95  | .94  | .92  |
| 2.0             | 1.01                            | .97  | .93  | .00  | .96  | .92  | .96  | .93  | .90  | .93  | .91  | .88  | .91  | .88  | .86  | .85  |
| 3.0             | .94                             | .88  | .84  | .92  | .87  | .83  | .90  | .85  | .82  | .87  | .84  | .81  | .85  | .82  | .79  | .78  |
| 4.0             | .87                             | .81  | .77  | .86  | .80  | .76  | .84  | .79  | .75  | .82  | .78  | .74  | .80  | .76  | .73  | .72  |
| 5.0             | .81                             | .75  | .70  | .80  | .74  | .70  | .78  | .73  | .69  | .77  | .72  | .69  | .75  | .71  | .68  | .67  |
| 6.0             | .76                             | .70  | .65  | .75  | .69  | .65  | .74  | .68  | .64  | .72  | .68  | .64  | .71  | .67  | .64  | .62  |
| 7.0             | .71                             | .65  | .61  | .71  | .65  | .61  | .69  | .64  | .60  | .68  | .63  | .60  | .67  | .63  | .60  | .58  |
| 8.0             | .67                             | .61  | .57  | .67  | .61  | .57  | .66  | .60  | .56  | .65  | .60  | .56  | .64  | .59  | .56  | .54  |
| 9.0             | .64                             | .58  | .53  | .63  | .57  | .53  | .62  | .57  | .53  | .61  | .56  | .53  | .60  | .56  | .53  | .51  |
| 10.0            | .60                             | .54  | .50  | .60  | .54  | .50  | .59  | .54  | .50  | .58  | .53  | .50  | .58  | .53  | .50  | .49  |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | 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  | .195                  | .111 | .035 | .188 | .107 | .034 | .175                            | .101 | .032 | .164 | .094 | .030 | .153 | .089 | .029 |   |
| 2.0  | .187                  | .103 | .031 | .181 | .100 | .031 | .171                            | .095 | .029 | .161 | .090 | .028 | .152 | .086 | .027 |   |
| 3.0  | .178                  | .095 | .028 | .173 | .092 | .028 | .163                            | .089 | .027 | .155 | .085 | .026 | .147 | .081 | .025 |   |
| 4.0  | .168                  | .087 | .026 | .164 | .086 | .025 | .156                            | .083 | .025 | .148 | .080 | .024 | .141 | .077 | .023 |   |
| 5.0  | .159                  | .081 | .023 | .155 | .080 | .023 | .148                            | .077 | .023 | .142 | .075 | .022 | .136 | .073 | .022 |   |
| 6.0  | .151                  | .075 | .022 | .147 | .074 | .021 | .141                            | .072 | .021 | .135 | .070 | .021 | .130 | .068 | .020 |   |
| 7.0  | .143                  | .071 | .020 | .140 | .070 | .020 | .134                            | .068 | .020 | .129 | .066 | .019 | .125 | .065 | .019 |   |
| 8.0  | .136                  | .066 | .019 | .133 | .066 | .019 | .128                            | .064 | .018 | .124 | .063 | .018 | .119 | .061 | .018 |   |
| 9.0  | .129                  | .062 | .017 | .127 | .062 | .017 | .123                            | .061 | .017 | .118 | .059 | .017 | .115 | .058 | .017 |   |
| 10.0 | .123                  | .059 | .016 | .121 | .059 | .016 | .117                            | .057 | .016 | .113 | .056 | .016 | .110 | .055 | .016 |   |

| 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  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .172                  | .157 | .143 | .147 | .135 | .123 | .101                                       | .093 | .085 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0  | .158                  | .132 | .111 | .136 | .114 | .096 | .093                                       | .079 | .067 | .054 | .046 | .039 | .017 | .015 | .013 |   |
| 3.0  | .147                  | .114 | .087 | .126 | .098 | .076 | .086                                       | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 |   |
| 4.0  | .137                  | .099 | .070 | .117 | .086 | .061 | .081                                       | .060 | .043 | .047 | .035 | .025 | .015 | .011 | .008 |   |
| 5.0  | .128                  | .088 | .058 | .110 | .076 | .050 | .076                                       | .053 | .035 | .044 | .031 | .021 | .014 | .010 | .007 |   |
| 6.0  | .121                  | .079 | .048 | .104 | .068 | .042 | .072                                       | .048 | .030 | .042 | .028 | .018 | .013 | .009 | .006 |   |
| 7.0  | .114                  | .071 | .041 | .098 | .062 | .036 | .068                                       | .043 | .025 | .039 | .025 | .015 | .013 | .008 | .005 |   |
| 8.0  | .108                  | .065 | .035 | .093 | .056 | .031 | .065                                       | .040 | .022 | .038 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .103                  | .060 | .030 | .089 | .052 | .027 | .061                                       | .036 | .019 | .036 | .022 | .011 | .012 | .007 | .004 |   |
| 10.0 | .098                  | .055 | .027 | .085 | .048 | .023 | .059                                       | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

|                                                                                  |                  |      |      |      |           |                |      |                  |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|-----------|----------------|------|------------------|------|------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |                  |      |      |      |           |                |      |                  |      |      |
| NAME: 486770-MR16-6W-3000K-40°                                                   |                  |      |      |      | TYPE:     |                |      | WEIGHT:          |      |      |
| SPEC.:                                                                           |                  |      |      |      | DIM.:     |                |      | SERIAL No.:      |      |      |
| MFR.:                                                                            |                  |      |      |      | SUR.:35mm |                |      | 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                                                                    | 24.1             | 25.1 | 24.3 | 25.3 | 25.5      | 24.2           | 25.3 | 24.5             | 25.4 | 25.6 |
| 3H                                                                               | 24.2             | 25.2 | 24.5 | 25.4 | 25.6      | 24.4           | 25.3 | 24.6             | 25.5 | 25.7 |
| 4H                                                                               | 24.2             | 25.1 | 24.5 | 25.3 | 25.5      | 24.4           | 25.3 | 24.6             | 25.5 | 25.7 |
| 6H                                                                               | 24.1             | 25.0 | 24.4 | 25.2 | 25.5      | 24.3           | 25.2 | 24.6             | 25.4 | 25.7 |
| 8H                                                                               | 24.1             | 24.9 | 24.4 | 25.2 | 25.4      | 24.3           | 25.1 | 24.6             | 25.4 | 25.6 |
| 12H                                                                              | 24.1             | 24.8 | 24.4 | 25.1 | 25.4      | 24.3           | 25.1 | 24.6             | 25.3 | 25.6 |
| 4H 2H                                                                            | 24.2             | 25.1 | 24.5 | 25.3 | 25.5      | 24.3           | 25.2 | 24.6             | 25.4 | 25.6 |
| 3H                                                                               | 24.4             | 25.1 | 24.7 | 25.4 | 25.7      | 24.5           | 25.3 | 24.8             | 25.6 | 25.8 |
| 4H                                                                               | 24.3             | 25.0 | 24.7 | 25.3 | 25.6      | 24.5           | 25.2 | 24.9             | 25.5 | 25.8 |
| 6H                                                                               | 24.3             | 24.9 | 24.7 | 25.3 | 25.6      | 24.5           | 25.1 | 24.9             | 25.5 | 25.8 |
| 8H                                                                               | 24.3             | 24.9 | 24.7 | 25.2 | 25.6      | 24.5           | 25.1 | 24.9             | 25.4 | 25.8 |
| 12H                                                                              | 24.3             | 24.8 | 24.7 | 25.1 | 25.5      | 24.5           | 25.0 | 24.9             | 25.4 | 25.8 |
| 8H 4H                                                                            | 24.2             | 24.8 | 24.6 | 25.2 | 25.5      | 24.4           | 25.0 | 24.8             | 25.4 | 25.7 |
| 6H                                                                               | 24.3             | 24.7 | 24.7 | 25.1 | 25.5      | 24.4           | 24.9 | 24.9             | 25.3 | 25.7 |
| 8H                                                                               | 24.2             | 24.7 | 24.7 | 25.1 | 25.5      | 24.5           | 24.9 | 24.9             | 25.3 | 25.7 |
| 12H                                                                              | 24.2             | 24.6 | 24.7 | 25.0 | 25.5      | 24.5           | 24.8 | 24.9             | 25.3 | 25.7 |
| 12H 4H                                                                           | 24.2             | 24.7 | 24.6 | 25.1 | 25.5      | 24.4           | 24.9 | 24.8             | 25.3 | 25.7 |
| 6H                                                                               | 24.2             | 24.6 | 24.7 | 25.1 | 25.5      | 24.4           | 24.8 | 24.9             | 25.2 | 25.7 |
| 8H                                                                               | 24.2             | 24.6 | 24.7 | 25.0 | 25.5      | 24.4           | 24.8 | 24.9             | 25.2 | 25.7 |
| Variations with the observer position at spacings:                               |                  |      |      |      |           |                |      |                  |      |      |
| S = 1.0H                                                                         | + 1.2 / - 1.8    |      |      |      |           | + 1.2 / - 1.8  |      |                  |      |      |
| 1.5H                                                                             | + 1.3 / - 1.0    |      |      |      |           | + 1.5 / - 1.1  |      |                  |      |      |
| 2.0H                                                                             | + 2.4 / - 2.2    |      |      |      |           | + 2.4 / - 2.0  |      |                  |      |      |

CIE Pub.117, 523.7 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.2)  
Area: 0.001 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

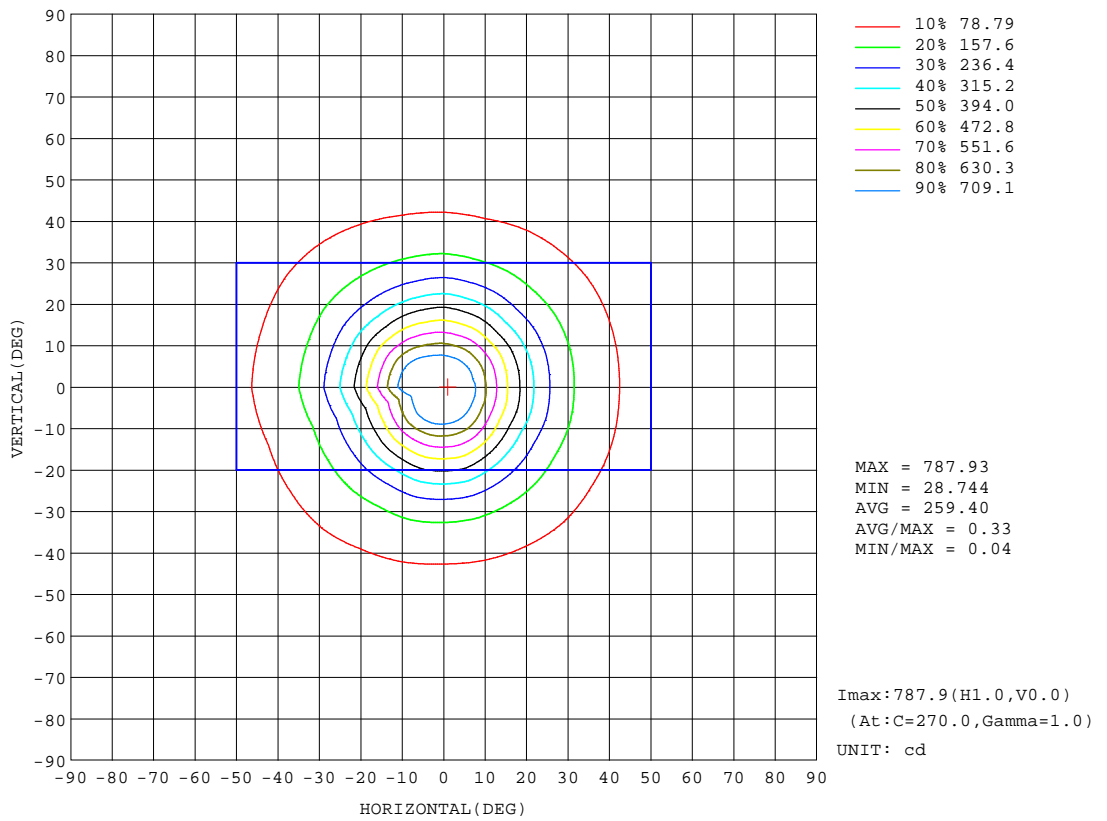
| REFLECTANCE                      |                                              |     |           |     |     |     |               |     |     |        |
|----------------------------------|----------------------------------------------|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| 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) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 79                                           | 71  | 67        | 79  | 71  | 67  | 78            | 71  | 66  | 62     |
| 0.80                             | 88                                           | 80  | 76        | 87  | 80  | 75  | 86            | 79  | 75  | 71     |
| 1.00                             | 94                                           | 87  | 82        | 93  | 86  | 82  | 91            | 86  | 81  | 77     |
| 1.25                             | 99                                           | 92  | 88        | 97  | 92  | 87  | 95            | 90  | 87  | 82     |
| 1.50                             | 102                                          | 96  | 92        | 101 | 95  | 91  | 98            | 94  | 90  | 85     |
| 2.00                             | 106                                          | 101 | 97        | 104 | 100 | 96  | 101           | 97  | 94  | 89     |
| 2.50                             | 108                                          | 103 | 100       | 106 | 102 | 99  | 103           | 99  | 97  | 90     |
| 3.00                             | 110                                          | 106 | 102       | 108 | 104 | 101 | 104           | 102 | 99  | 92     |
| 4.00                             | 112                                          | 109 | 106       | 110 | 107 | 105 | 106           | 104 | 102 | 95     |
| 5.00                             | 114                                          | 111 | 108       | 111 | 109 | 107 | 107           | 105 | 104 | 96     |
| ROOM INDEX                       | UF(total)                                    |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |                                              |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-04-10

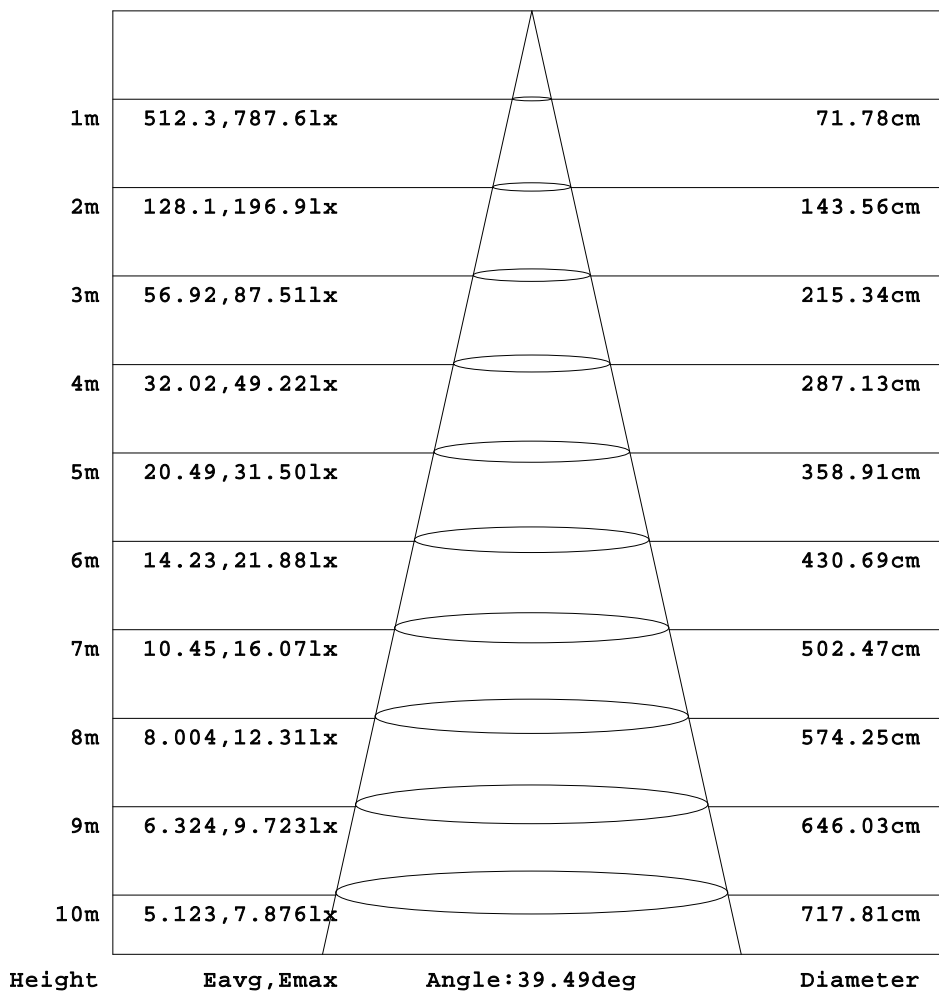
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:



**AAI Figure**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

Flux out:213.2 lm



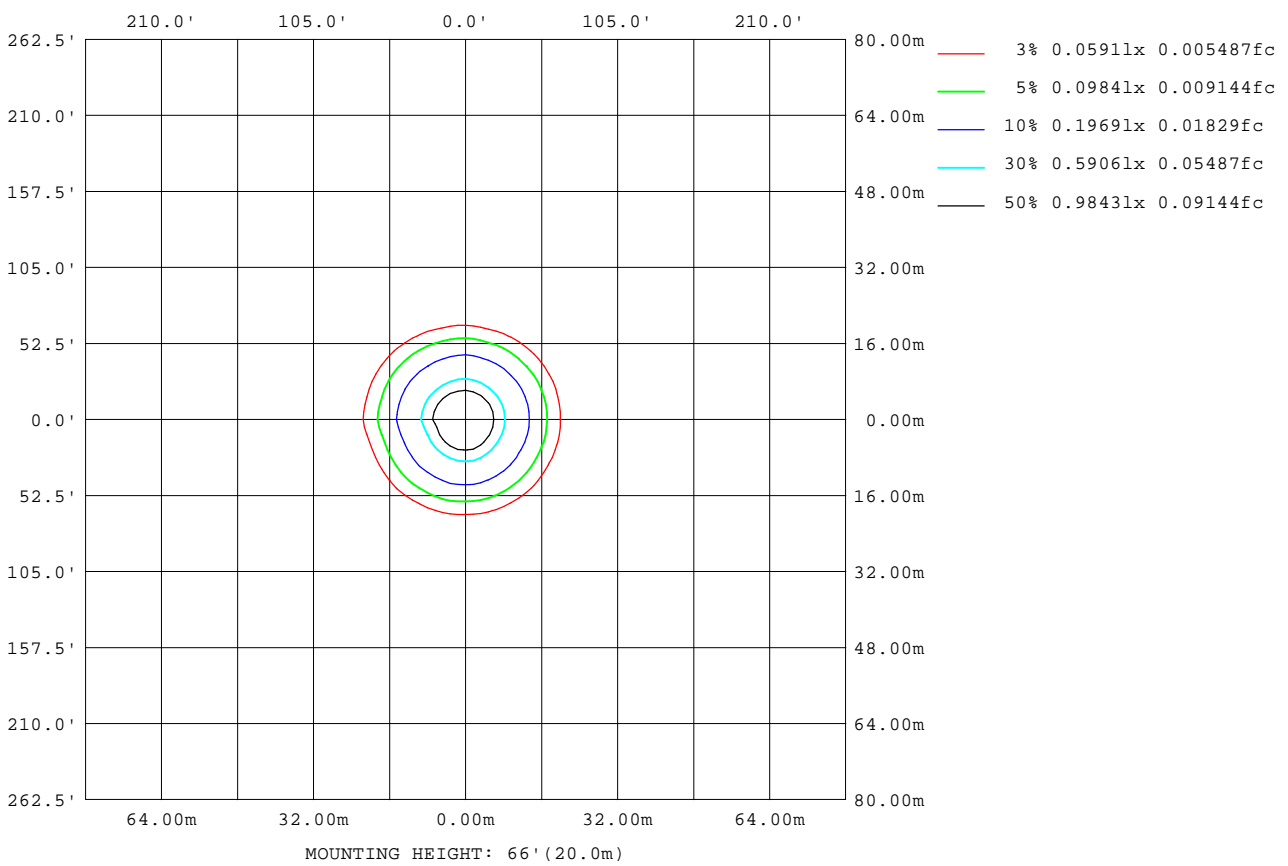
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

LED Avg.L Report

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

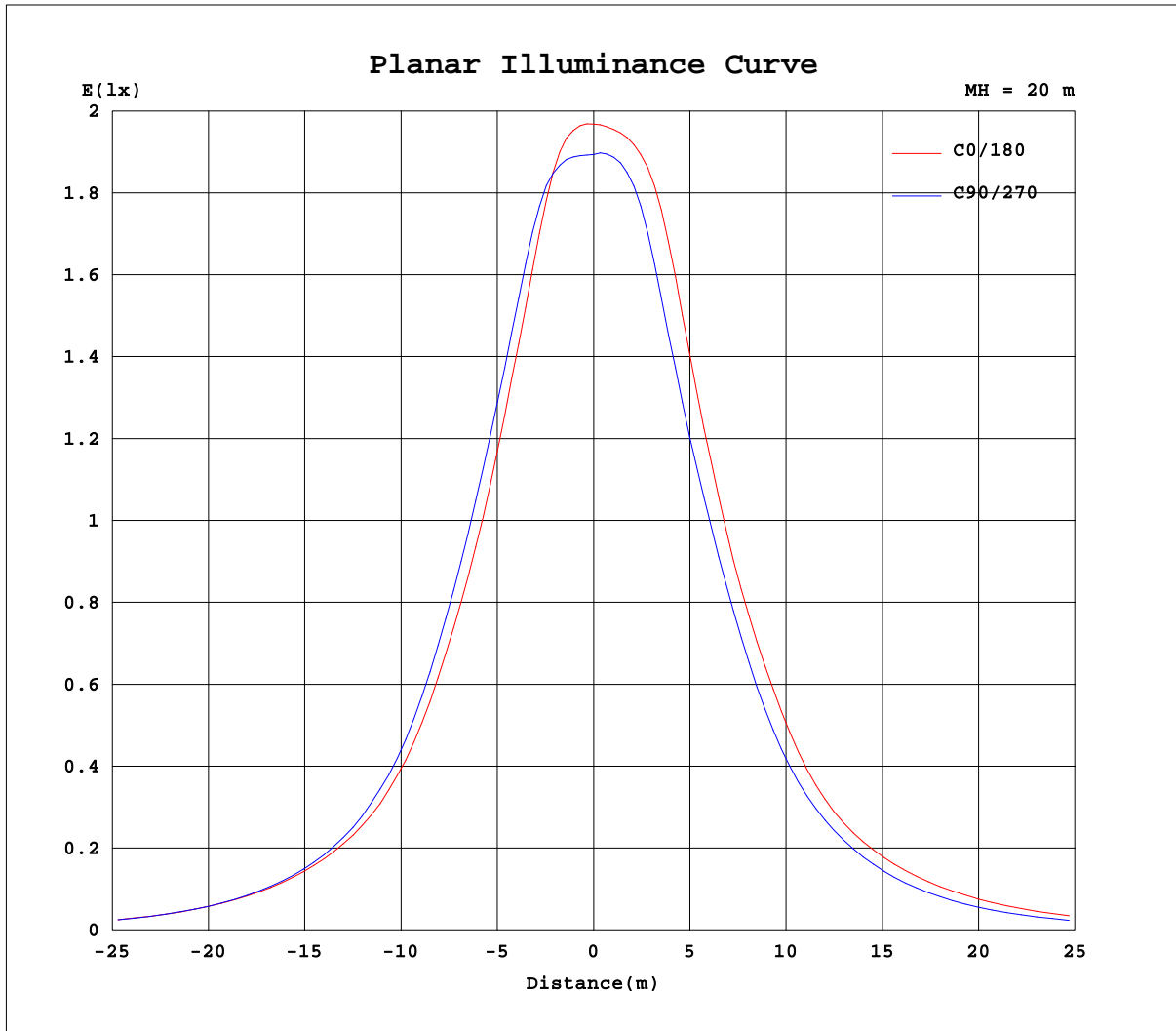
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 33166 |
| L_0~180(75)av  | 13554 |
| L_0~180(85)av  | 9251  |
| L_90~270(65)av | 28079 |
| L_90~270(75)av | 12051 |
| L_90~270(85)av | 8977  |
| L_45(65)av     | 33584 |
| L_45(75)av     | 13344 |
| L_45(85)av     | 9050  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-04-10

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 9.000m [K=1.0000]  
 Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135  | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  | 763  |
| 5                 | 745  | 748  | 748  | 753  | 757  | 759  | 761  | 761  | 760  | 758  | 755  | 754  | 758  | 758  | 760  | 758  | 755  | 754  | 753  |
| 10                | 617  | 628  | 637  | 656  | 672  | 681  | 686  | 695  | 697  | 698  | 688  | 681  | 713  | 711  | 708  | 690  | 668  | 654  | 650  |
| 15                | 468  | 478  | 483  | 504  | 524  | 537  | 540  | 546  | 544  | 546  | 537  | 529  | 565  | 560  | 557  | 538  | 520  | 506  | 505  |
| 20                | 344  | 350  | 346  | 361  | 380  | 401  | 402  | 408  | 399  | 398  | 389  | 390  | 421  | 414  | 414  | 392  | 383  | 376  | 378  |
| 25                | 239  | 244  | 241  | 251  | 263  | 277  | 279  | 283  | 274  | 277  | 275  | 279  | 307  | 297  | 292  | 275  | 267  | 261  | 265  |
| 30                | 168  | 170  | 168  | 175  | 180  | 189  | 193  | 195  | 189  | 193  | 191  | 193  | 211  | 206  | 203  | 194  | 186  | 182  | 184  |
| 35                | 123  | 124  | 122  | 126  | 128  | 133  | 135  | 138  | 135  | 139  | 138  | 141  | 152  | 148  | 146  | 140  | 134  | 131  | 131  |
| 40                | 89.8 | 90.3 | 88.7 | 91.6 | 92.6 | 95.2 | 95.9 | 98.7 | 98.0 | 102  | 102  | 104  | 114  | 109  | 108  | 103  | 97.8 | 93.2 | 92.6 |
| 45                | 63.6 | 64.7 | 63.8 | 65.9 | 66.0 | 67.0 | 66.7 | 69.4 | 70.2 | 73.8 | 73.7 | 75.8 | 83.4 | 80.1 | 79.0 | 75.0 | 70.0 | 65.5 | 64.1 |
| 50                | 43.5 | 44.4 | 44.9 | 46.4 | 45.9 | 45.6 | 45.0 | 47.5 | 49.0 | 52.3 | 52.5 | 53.3 | 59.0 | 57.2 | 57.1 | 53.4 | 49.0 | 44.7 | 42.8 |
| 55                | 29.3 | 29.8 | 31.0 | 31.5 | 31.4 | 30.3 | 30.1 | 31.2 | 33.5 | 35.7 | 36.4 | 35.5 | 39.3 | 39.6 | 39.2 | 37.4 | 32.9 | 30.2 | 28.3 |
| 60                | 19.1 | 19.6 | 20.6 | 21.2 | 21.1 | 20.2 | 20.0 | 20.8 | 22.5 | 24.3 | 24.6 | 23.7 | 26.4 | 26.8 | 26.9 | 25.5 | 22.1 | 20.0 | 19.0 |
| 65                | 11.2 | 11.5 | 12.2 | 12.7 | 12.8 | 12.4 | 12.4 | 12.9 | 13.9 | 15.2 | 15.2 | 14.6 | 16.8 | 17.0 | 17.2 | 15.9 | 13.5 | 12.1 | 11.4 |
| 70                | 5.53 | 5.72 | 6.19 | 6.58 | 6.76 | 6.58 | 6.63 | 6.92 | 7.52 | 8.27 | 8.19 | 7.71 | 9.29 | 9.32 | 9.44 | 8.57 | 7.05 | 6.20 | 5.84 |
| 75                | 2.68 | 2.68 | 2.78 | 2.97 | 3.18 | 3.19 | 3.27 | 3.40 | 3.58 | 3.83 | 3.74 | 3.55 | 4.34 | 4.31 | 4.35 | 3.92 | 3.30 | 3.04 | 2.97 |
| 80                | 1.83 | 1.81 | 1.82 | 1.86 | 1.92 | 1.94 | 1.98 | 2.04 | 2.09 | 2.13 | 2.10 | 2.07 | 2.26 | 2.24 | 2.20 | 2.09 | 1.94 | 1.89 | 1.90 |
| 85                | 0.26 | 0.31 | 0.40 | 0.54 | 0.75 | 0.83 | 0.91 | 0.98 | 1.02 | 1.04 | 1.00 | 0.93 | 1.35 | 1.30 | 1.22 | 1.01 | 0.75 | 0.68 | 0.66 |
| 90                | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-04-10

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:11.850V I:0.6741A P:5.9559W PF:0.7456 Freq:60.00Hz Lamp Flux:523.726x1 lm |           |                  |
| NAME: 486770-MR16-6W-3000K-40°                                                   | TYPE:     | WEIGHT:          |
| SPEC.:                                                                           | DIM.:     | SERIAL No.:      |
| MFR.:                                                                            | SUR.:35mm | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) \ γ (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 763  | 763  | 763  | 763  | 763  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 752  | 754  | 755  | 757  | 756  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 646  | 650  | 651  | 654  | 650  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 497  | 501  | 496  | 502  | 497  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 367  | 365  | 356  | 362  | 363  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 256  | 254  | 248  | 255  | 255  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 178  | 177  | 175  | 179  | 179  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 126  | 127  | 127  | 130  | 130  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 89.2 | 91.6 | 92.3 | 94.6 | 95.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 62.4 | 65.0 | 66.1 | 67.9 | 68.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 42.5 | 44.8 | 46.4 | 47.7 | 47.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 28.7 | 30.1 | 32.2 | 32.2 | 32.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 19.0 | 20.2 | 21.5 | 21.6 | 21.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 11.4 | 12.0 | 12.9 | 13.0 | 12.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 5.84 | 6.24 | 6.72 | 6.72 | 6.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 2.93 | 2.99 | 3.09 | 3.12 | 3.13 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 1.88 | 1.88 | 1.90 | 1.92 | 1.93 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 0.59 | 0.57 | 0.57 | 0.60 | 0.65 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                      |                                                   |
|----------------------|---------------------------------------------------|
| C Range: 0 - 360DEG  | γ Range: 0 - 90DEG                                |
| C Interval: 15.0DEG  | γ Interval: 1.0DEG                                |
| Test Speed: HIGH     | Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411 |
| Temperature:25.3DEG  | Humidity:65.0%                                    |
| Operators:DAMIN      | Test Distance:9.000m [K=1.0000]                   |
| Test Date:2022-04-10 | Remarks:                                          |