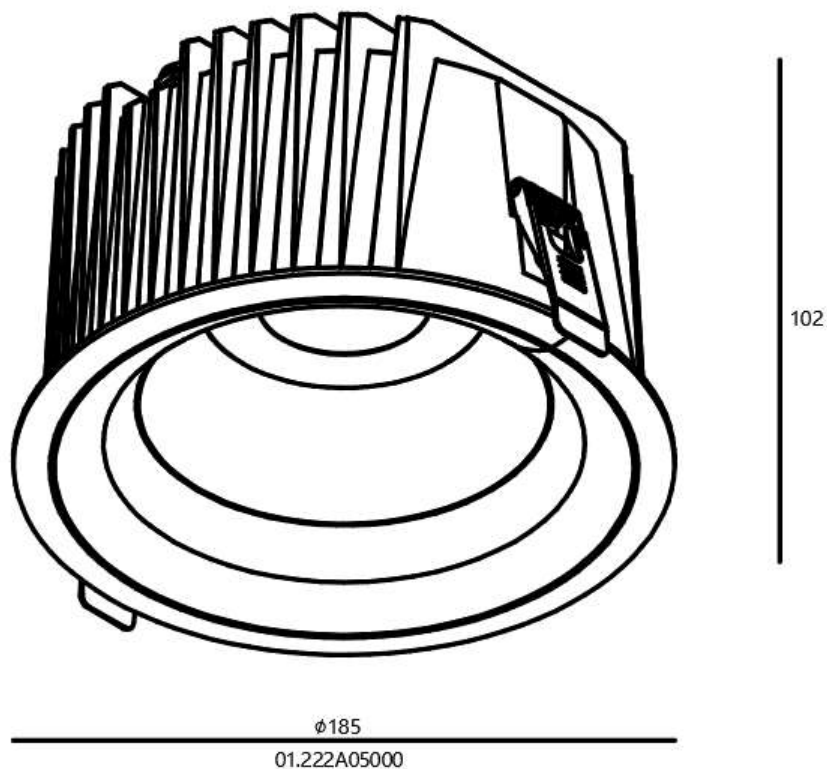


01.222A05000



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0%  |                          |
| Luminaire Power:    | 43.47 W |                          |
| SHR Nominal:        | 0.00    | Calculated using the TM5 |
| SHR Maximum:        | 1.00    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QINBOMIN  
Test Date: 2023-03-12

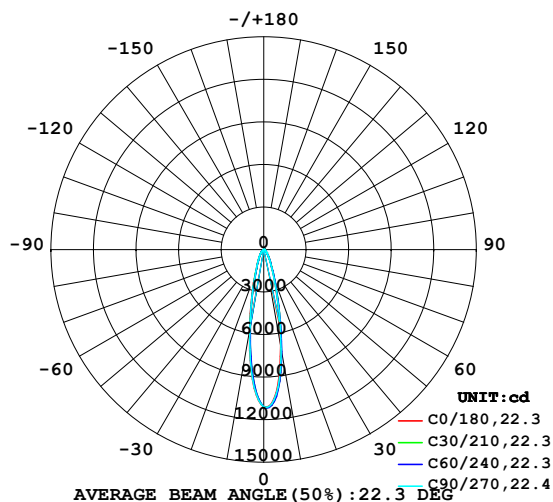
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity: 65.0%  
Test Distance: 11.700m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

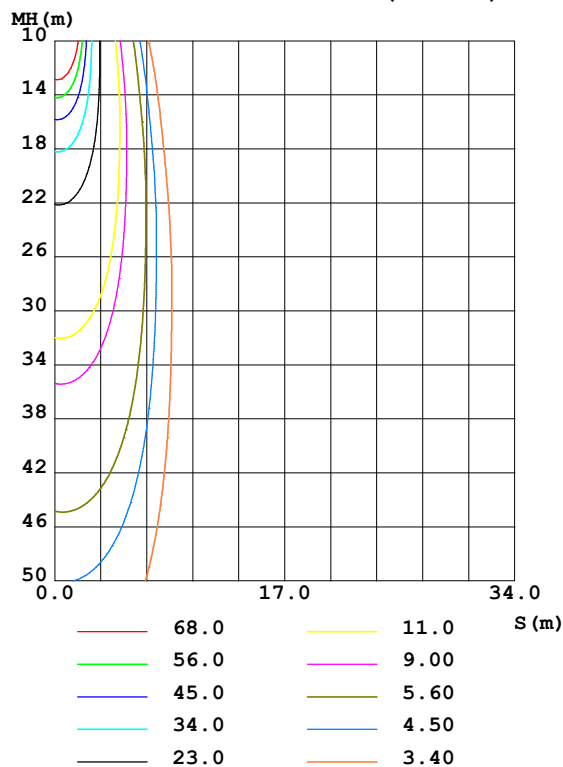
|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

| DATA OF LAMP     |              | PHOTOMETRIC DATA |        |                        |          | Eff: 67.67 lm/W |
|------------------|--------------|------------------|--------|------------------------|----------|-----------------|
| MODEL            | 01.222A05000 | Imax(cd)         | 11177  | S/MH(C0/180)           | 0.35     |                 |
| NOMINAL POWER(W) | 45           | LOR(%)           | 100.0  | S/MH(C90/270)          | 0.35     |                 |
| RATED VOLTAGE(V) | 220          | TOTAL FLUX(lm)   | 2941.5 | $\eta$ UP,DN(C0-180)   | 0.0,53.7 |                 |
| NOMINAL FLUX(lm) | 2941.51      | CIE CLASS        | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,46.3 |                 |
| LAMPS INSIDE     | 1            | $\eta$ up (%)    | 0.0    | CIBSE SHR NOM          | 0.00     |                 |
| TEST VOLTAGE(V)  | 220          | $\eta$ down (%)  | 100.0  | CIBSE SHR MAX          | 1.00     |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

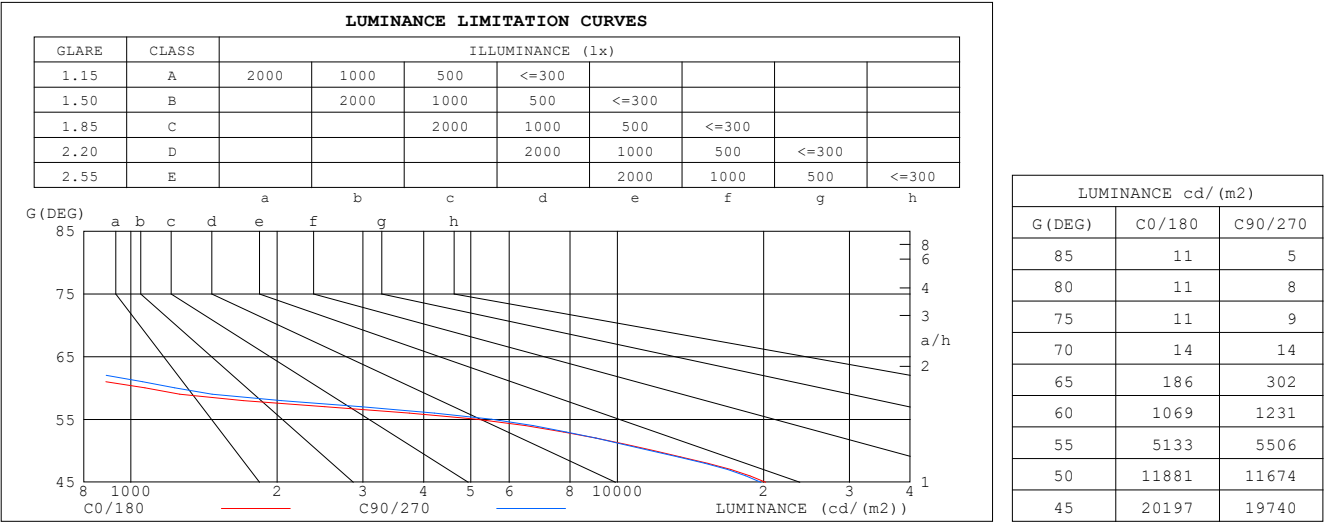
| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 689.8                    | 733.2  | 710.5  | 644.8  | 578.6  | 547.4  | 570.2  | 623.9  | 0- 10    | 814.2       | 814.2        | 27.7,27.7 |
| 20       | 220.0                    | 231.6  | 214.6  | 190.8  | 169.4  | 157.6  | 166.6  | 190.1  | 10- 20   | 993.7       | 1808         | 61.5,61.5 |
| 30       | 86.11                    | 88.07  | 83.07  | 75.44  | 68.35  | 65.80  | 70.04  | 79.12  | 20- 30   | 549.3       | 2357         | 80.1,80.1 |
| 40       | 41.13                    | 42.12  | 40.22  | 37.14  | 34.10  | 33.11  | 34.65  | 38.12  | 30- 40   | 337.5       | 2695         | 91.6,91.6 |
| 50       | 15.49                    | 16.81  | 15.50  | 13.23  | 11.14  | 10.24  | 11.16  | 13.13  | 40- 50   | 195.9       | 2891         | 98.3,98.3 |
| 60       | 1.084                    | 1.307  | 1.271  | 0.9701 | 0.7693 | 0.5893 | 0.6188 | 0.8091 | 50- 60   | 48.38       | 2939         | 99.9,99.9 |
| 70       | 0.0095                   | 0.0086 | 0.0097 | 0.0087 | 0.0104 | 0.0096 | 0.0097 | 0.0107 | 60- 70   | 2.468       | 2941         | 100,100   |
| 80       | 0.0038                   | 0.0029 | 0.0029 | 0.0019 | 0.0047 | 0.0057 | 0.0058 | 0.0049 | 70- 80   | 0.0637      | 2941         | 100,100   |
| 90       | 0.0009                   | 0.0019 | 0.0019 | 0.0010 | 0.0047 | 0.0038 | 0.0029 | 0.0039 | 80- 90   | 0.0326      | 2942         | 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:×10cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QINBOMIN  
 Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.700m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |



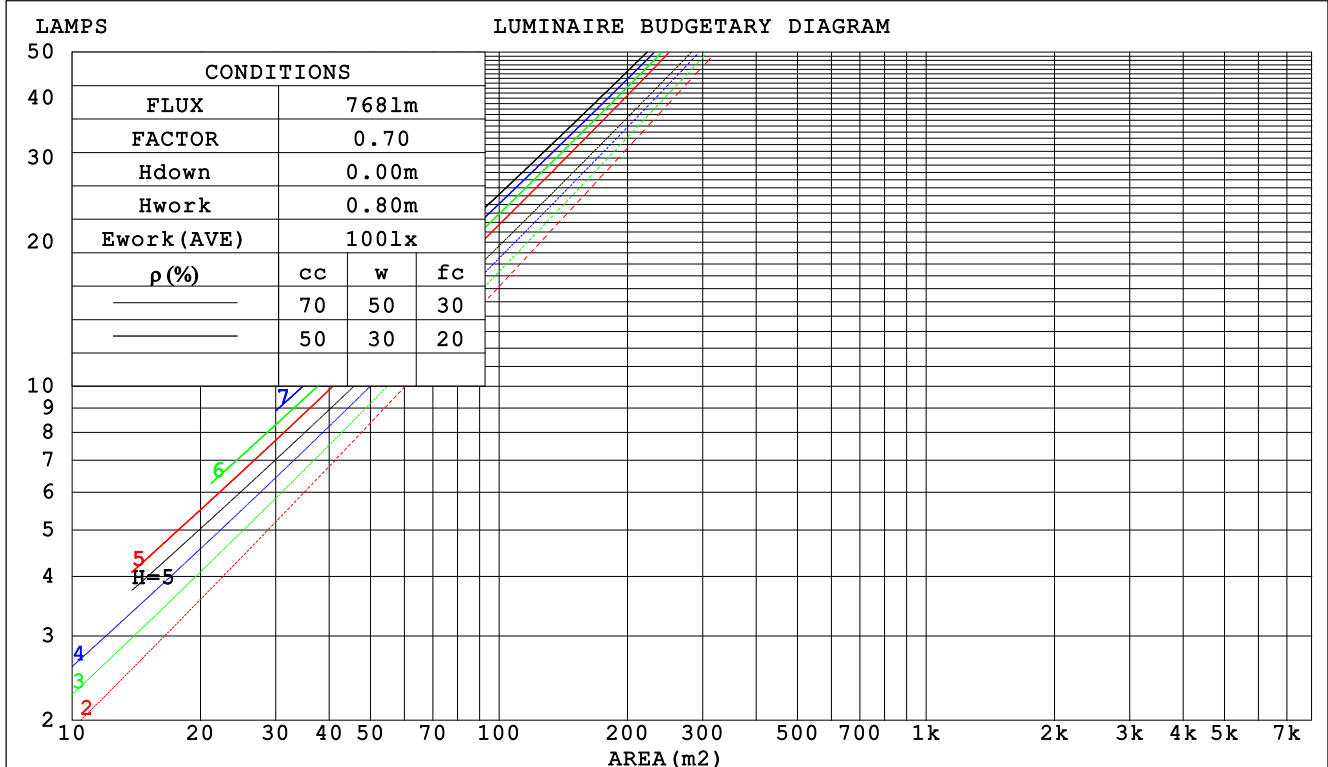
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

| $\rho_{cc}$           | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$              | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$           | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR                   | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| RCR:Room Cavity Ratio |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 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 | .00 |
| 1.0                   | 1.12                            | 1.10 | 1.08 | 1.10 | 1.08 | 1.06 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | .00  | .99  | .98  | .97  | .95 |
| 2.0                   | 1.05                            | 1.02 | .99  | 1.04 | 1.01 | .98  | 1.01 | .98  | .96  | .98  | .96  | .94  | .95  | .93  | .92  | .90 |
| 3.0                   | .00                             | .95  | .92  | .98  | .94  | .91  | .96  | .92  | .90  | .93  | .91  | .88  | .91  | .89  | .87  | .86 |
| 4.0                   | .94                             | .90  | .86  | .93  | .89  | .86  | .91  | .88  | .85  | .89  | .86  | .84  | .88  | .85  | .83  | .81 |
| 5.0                   | .90                             | .85  | .81  | .89  | .84  | .81  | .87  | .83  | .80  | .86  | .82  | .80  | .84  | .81  | .79  | .78 |
| 6.0                   | .86                             | .81  | .77  | .85  | .80  | .77  | .84  | .79  | .76  | .82  | .79  | .76  | .81  | .78  | .75  | .74 |
| 7.0                   | .82                             | .77  | .73  | .81  | .77  | .73  | .80  | .76  | .73  | .79  | .75  | .72  | .78  | .75  | .72  | .71 |
| 8.0                   | .79                             | .74  | .70  | .78  | .73  | .70  | .77  | .73  | .70  | .76  | .72  | .69  | .75  | .72  | .69  | .68 |
| 9.0                   | .76                             | .71  | .67  | .75  | .70  | .67  | .74  | .70  | .67  | .73  | .70  | .67  | .73  | .69  | .67  | .65 |
| 10.0                  | .73                             | .68  | .65  | .72  | .68  | .65  | .72  | .67  | .64  | .71  | .67  | .64  | .70  | .67  | .64  | .63 |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QINBOMIN  
 Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.700m [K=1.0000]  
 Remarks:

## WEC AND CCEC

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | 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  | .156 .089 .028                                         | .150 .085 .027 | .137 .079 .025 | .126 .073 .023 | .115 .067 .022 |   |
| 2.0  | .148 .081 .025                                         | .143 .079 .024 | .132 .074 .023 | .123 .069 .022 | .114 .064 .020 |   |
| 3.0  | .140 .075 .022                                         | .136 .073 .022 | .127 .069 .021 | .119 .065 .020 | .111 .062 .019 |   |
| 4.0  | .133 .069 .020                                         | .129 .067 .020 | .121 .064 .019 | .114 .061 .019 | .108 .059 .018 |   |
| 5.0  | .126 .064 .019                                         | .122 .063 .018 | .116 .060 .018 | .110 .058 .017 | .104 .056 .017 |   |
| 6.0  | .119 .060 .017                                         | .116 .059 .017 | .111 .057 .017 | .106 .055 .016 | .101 .053 .016 |   |
| 7.0  | .114 .056 .016                                         | .111 .055 .016 | .106 .054 .015 | .102 .052 .015 | .097 .050 .015 |   |
| 8.0  | .108 .053 .015                                         | .106 .052 .015 | .102 .051 .015 | .098 .049 .014 | .094 .048 .014 |   |
| 9.0  | .104 .050 .014                                         | .102 .049 .014 | .098 .048 .014 | .094 .047 .013 | .091 .046 .013 |   |
| 10.0 | .099 .048 .013                                         | .097 .047 .013 | .094 .046 .013 | .091 .045 .013 | .087 .044 .013 |   |

|      |                                                                   |                |                |                |                |   |
|------|-------------------------------------------------------------------|----------------|----------------|----------------|----------------|---|
| 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  | .170 .157 .146                                                    | .145 .135 .126 | .099 .093 .087 | .057 .054 .051 | .018 .017 .016 |   |
| 2.0  | .153 .133 .115                                                    | .131 .114 .100 | .090 .079 .070 | .052 .046 .041 | .017 .015 .013 |   |
| 3.0  | .139 .113 .093                                                    | .120 .098 .080 | .082 .068 .056 | .047 .040 .033 | .015 .013 .011 |   |
| 4.0  | .128 .098 .076                                                    | .110 .085 .066 | .076 .059 .046 | .044 .035 .027 | .014 .011 .009 |   |
| 5.0  | .119 .086 .063                                                    | .102 .075 .055 | .070 .052 .039 | .041 .031 .023 | .013 .010 .008 |   |
| 6.0  | .110 .077 .053                                                    | .095 .066 .046 | .065 .047 .032 | .038 .027 .019 | .012 .009 .006 |   |
| 7.0  | .103 .069 .045                                                    | .089 .060 .039 | .061 .042 .028 | .036 .025 .016 | .012 .008 .005 |   |
| 8.0  | .097 .062 .039                                                    | .084 .054 .034 | .058 .038 .024 | .034 .022 .014 | .011 .007 .005 |   |
| 9.0  | .092 .057 .034                                                    | .079 .049 .029 | .055 .035 .021 | .032 .021 .012 | .010 .007 .004 |   |
| 10.0 | .087 .052 .029                                                    | .075 .045 .026 | .052 .032 .018 | .030 .019 .011 | .010 .006 .004 |   |

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QINBOMIN  
 Test Date:2023-03-12

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.700m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|                                                                                  |                  |      |      |      |                         |                |      |                    |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|-------------------------|----------------|------|--------------------|------|------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                  |      |      |      |                         |                |      |                    |      |      |
| NAME:                                                                            |                  |      |      |      | TYPE:Embedded Luminaire |                |      | WEIGHT:1.40kg      |      |      |
| SPEC.:                                                                           |                  |      |      |      | DIM.: ** (mm)           |                |      | SERIAL No.:G032496 |      |      |
| MFR.: Guangdong KC Lighting CO.,LTD                                              |                  |      |      |      | SUR.:162mm              |                |      | 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                                                                    | 16.8             | 17.6 | 17.0 | 17.8 | 17.9                    | 16.7           | 17.5 | 16.9               | 17.6 | 17.8 |
| 3H                                                                               | 16.6             | 17.4 | 16.9 | 17.6 | 17.8                    | 16.5           | 17.3 | 16.8               | 17.5 | 17.7 |
| 4H                                                                               | 16.6             | 17.3 | 16.8 | 17.5 | 17.7                    | 16.4           | 17.1 | 16.7               | 17.4 | 17.6 |
| 6H                                                                               | 16.5             | 17.1 | 16.8 | 17.4 | 17.6                    | 16.4           | 17.0 | 16.6               | 17.3 | 17.5 |
| 8H                                                                               | 16.4             | 17.1 | 16.7 | 17.3 | 17.6                    | 16.3           | 16.9 | 16.6               | 17.2 | 17.5 |
| 12H                                                                              | 16.4             | 17.0 | 16.7 | 17.2 | 17.5                    | 16.3           | 16.9 | 16.6               | 17.1 | 17.4 |
| 4H 2H                                                                            | 16.6             | 17.3 | 16.9 | 17.5 | 17.7                    | 16.5           | 17.2 | 16.7               | 17.4 | 17.6 |
| 3H                                                                               | 16.4             | 17.0 | 16.7 | 17.3 | 17.6                    | 16.3           | 16.9 | 16.6               | 17.2 | 17.4 |
| 4H                                                                               | 16.3             | 16.9 | 16.7 | 17.2 | 17.5                    | 16.2           | 16.8 | 16.5               | 17.1 | 17.4 |
| 6H                                                                               | 16.2             | 16.7 | 16.6 | 17.0 | 17.4                    | 16.1           | 16.6 | 16.5               | 16.9 | 17.3 |
| 8H                                                                               | 16.2             | 16.6 | 16.6 | 17.0 | 17.3                    | 16.1           | 16.5 | 16.4               | 16.9 | 17.2 |
| 12H                                                                              | 16.1             | 16.5 | 16.5 | 16.9 | 17.3                    | 16.0           | 16.4 | 16.4               | 16.8 | 17.2 |
| 8H 4H                                                                            | 16.2             | 16.6 | 16.6 | 17.0 | 17.3                    | 16.1           | 16.5 | 16.4               | 16.9 | 17.2 |
| 6H                                                                               | 16.1             | 16.4 | 16.5 | 16.8 | 17.2                    | 15.9           | 16.3 | 16.4               | 16.7 | 17.1 |
| 8H                                                                               | 16.0             | 16.3 | 16.4 | 16.7 | 17.2                    | 15.9           | 16.2 | 16.3               | 16.6 | 17.1 |
| 12H                                                                              | 15.9             | 16.2 | 16.4 | 16.7 | 17.1                    | 15.8           | 16.1 | 16.3               | 16.6 | 17.0 |
| 12H 4H                                                                           | 16.1             | 16.5 | 16.5 | 16.9 | 17.3                    | 16.0           | 16.4 | 16.4               | 16.8 | 17.2 |
| 6H                                                                               | 16.0             | 16.3 | 16.4 | 16.7 | 17.2                    | 15.9           | 16.2 | 16.3               | 16.6 | 17.1 |
| 8H                                                                               | 15.9             | 16.2 | 16.4 | 16.7 | 17.1                    | 15.8           | 16.1 | 16.3               | 16.6 | 17.0 |
| Variations with the observer position at spacings:                               |                  |      |      |      |                         |                |      |                    |      |      |
| S = 1.0H                                                                         | + 2.5 / -11.1    |      |      |      |                         | + 2.5 / -10.1  |      |                    |      |      |
| 1.5H                                                                             | + 2.4 / - 5.9    |      |      |      |                         | + 2.3 / - 5.5  |      |                    |      |      |
| 2.0H                                                                             | + 5.6 / -17.6    |      |      |      |                         | + 5.5 / -15.7  |      |                    |      |      |

CIE Pub.117, 2942 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 3.7$ )  
Area: 0.0206015 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

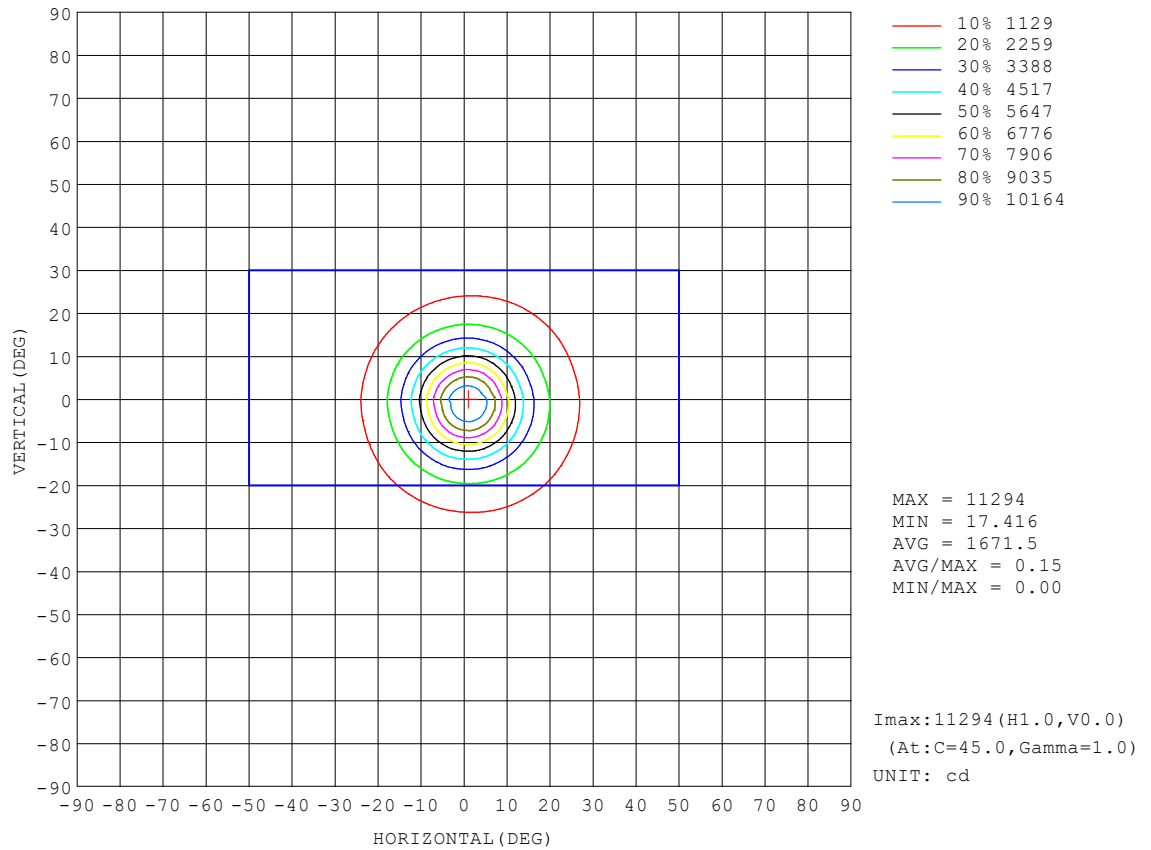
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 86                                                   | 80  | 76        | 86  | 79  | 76  | 85  | 79            | 75  | 72     |
| 0.80                             | 94                                                   | 88  | 84        | 93  | 88  | 84  | 92  | 87            | 84  | 80     |
| 1.00                             | 99                                                   | 93  | 89        | 98  | 93  | 89  | 96  | 92            | 89  | 85     |
| 1.25                             | 103                                                  | 98  | 94        | 102 | 97  | 94  | 100 | 96            | 93  | 89     |
| 1.50                             | 106                                                  | 101 | 98        | 104 | 100 | 97  | 102 | 99            | 96  | 91     |
| 2.00                             | 108                                                  | 104 | 101       | 107 | 103 | 100 | 104 | 101           | 99  | 94     |
| 2.50                             | 110                                                  | 106 | 103       | 109 | 105 | 102 | 105 | 103           | 101 | 95     |
| 3.00                             | 112                                                  | 108 | 106       | 110 | 107 | 104 | 107 | 104           | 102 | 96     |
| 4.00                             | 114                                                  | 111 | 109       | 112 | 109 | 107 | 108 | 106           | 105 | 97     |
| 5.00                             | 115                                                  | 113 | 111       | 113 | 111 | 109 | 109 | 107           | 106 | 98     |
| 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:QINBOMIN  
 Test Date:2023-03-12

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.700m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

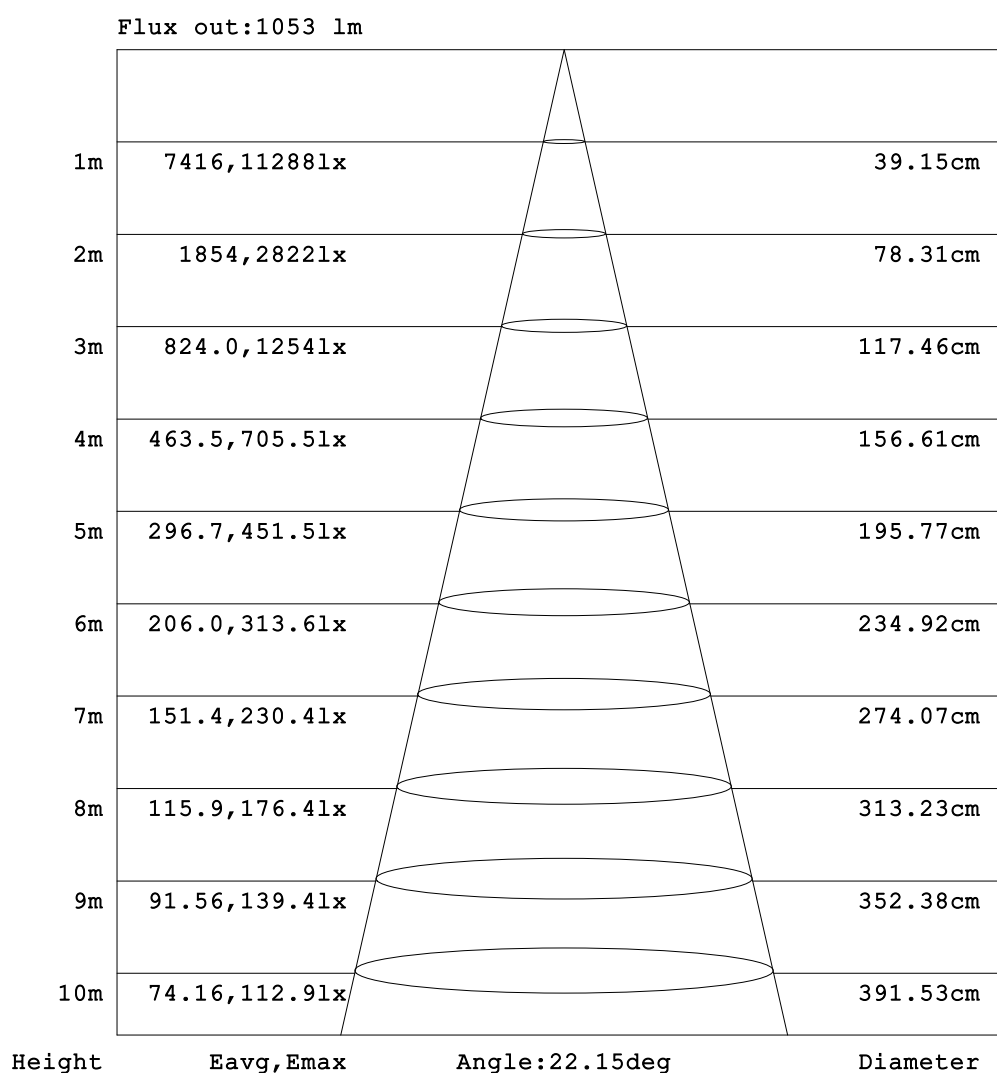


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |



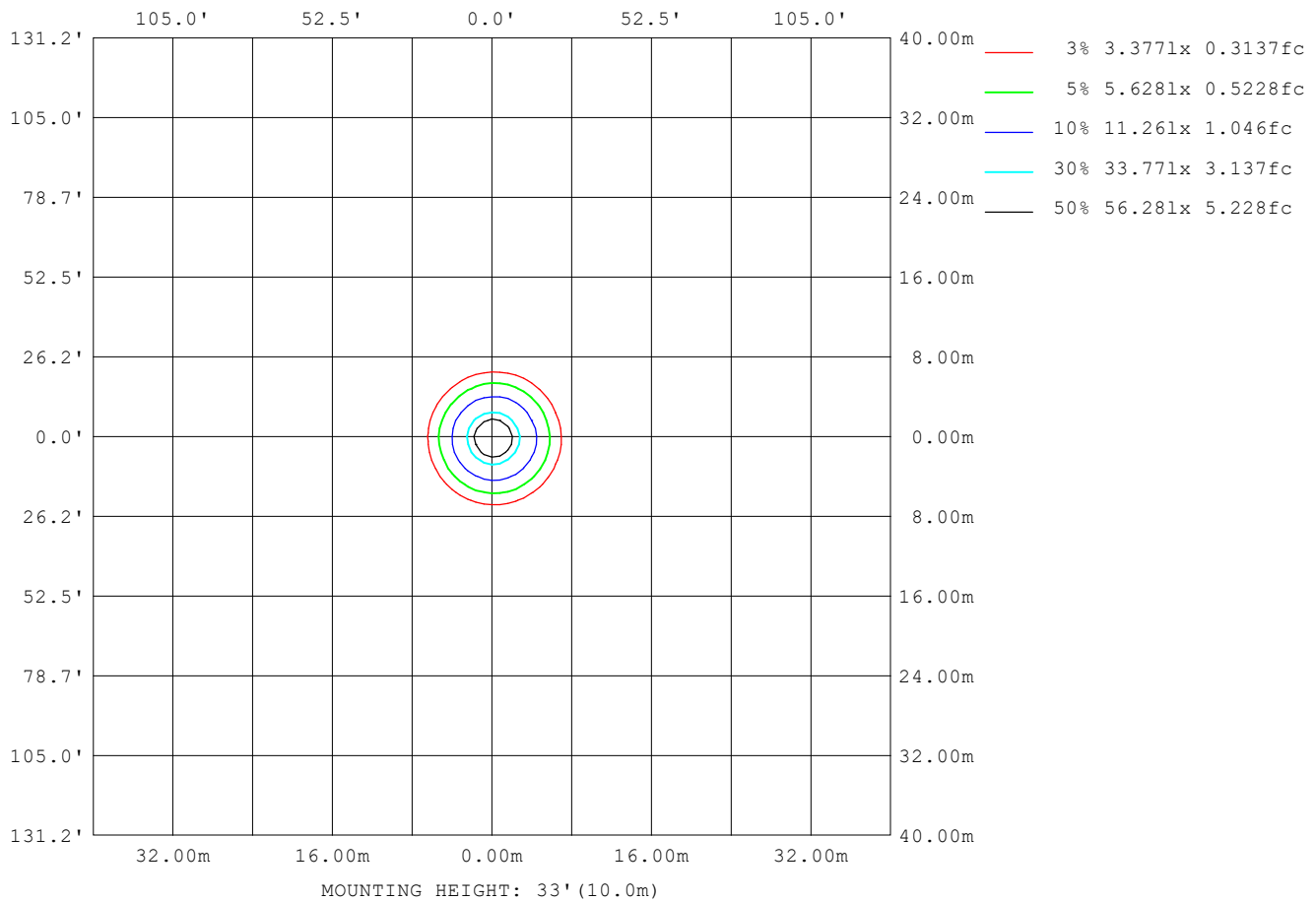
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QINBOMIN  
 Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.700m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## LED Avg.L Report

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

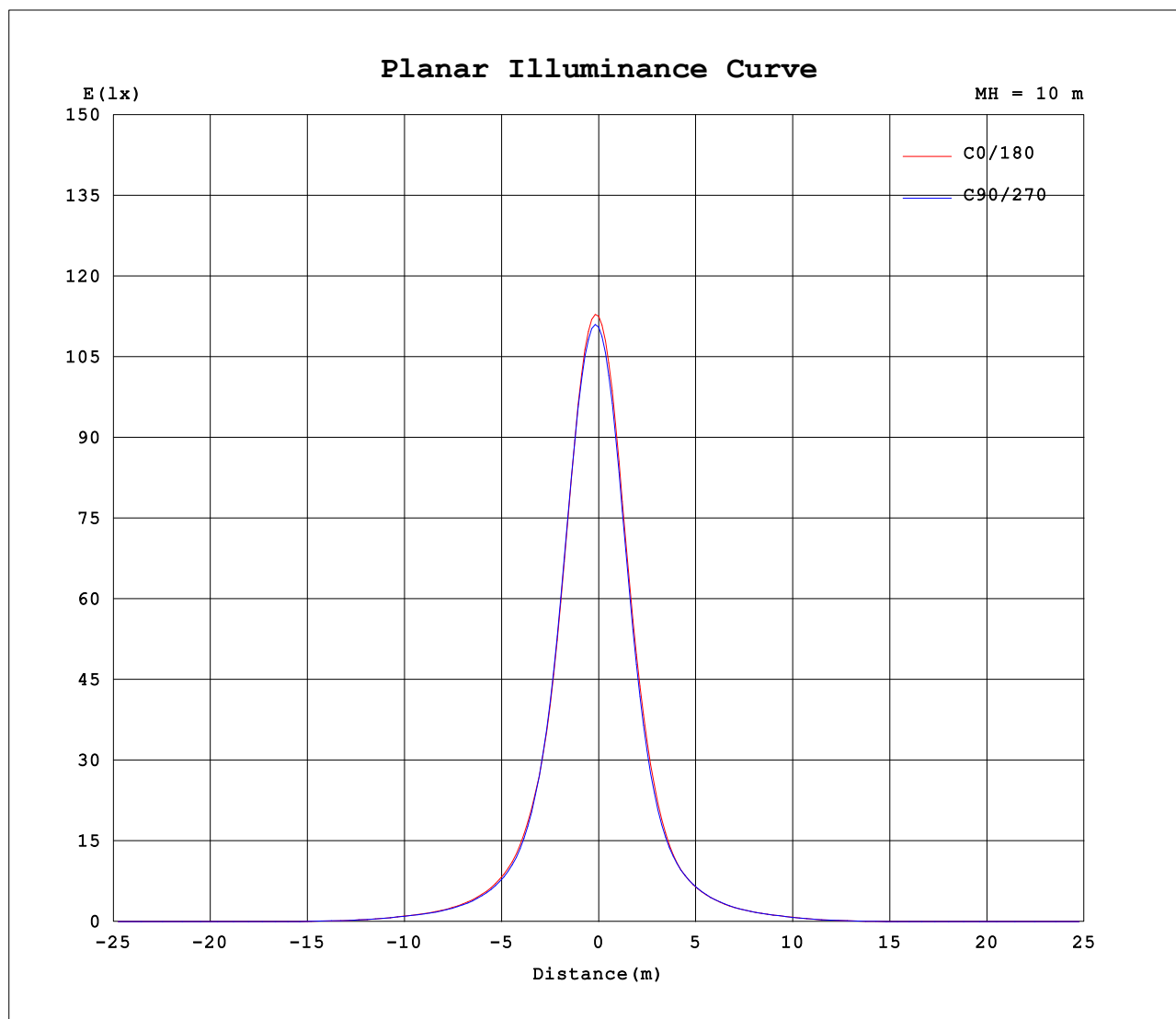
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 100   |
| L_0~180 (75) av  | 12    |
| L_0~180 (85) av  | 16    |
| L_90~270 (65) av | 160   |
| L_90~270 (75) av | 11    |
| L_90~270 (85) av | 16    |
| L_45 (65) av     | 102   |
| L_45 (75) av     | 11    |
| L_45 (85) av     | 17    |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QINBOMIN  
Test Date: 2023-03-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
Humidity: 65.0%  
Test Distance: 11.700m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

Table--1

UNIT:  $\times 10 \text{cd}$ [illegible]

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QINBOMIN  
Test Date:2023-03-12

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |                         |                    |
|----------------------------------------------------------------------------------|-------------------------|--------------------|
| Test:U:220.10V I:0.2025A P:43.470W PF:0.9754 Freq:49.99Hz Lamp Flux:2941.51x1 lm |                         |                    |
| NAME:                                                                            | TYPE:Embedded Luminaire | WEIGHT:1.40kg      |
| SPEC.:                                                                           | DIM.: ** (mm)           | SERIAL No.:G032496 |
| MFR.: Guangdong KC Lighting CO.,LTD                                              | SUR.:162mm              | Shielding Angle:   |

UNIT:  $\times 10\text{cd}$ [illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```