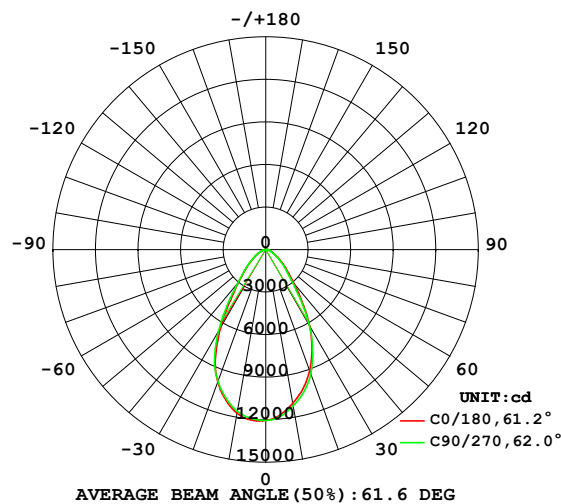


LUMINAIRE PHOTOMETRIC TEST REPORT

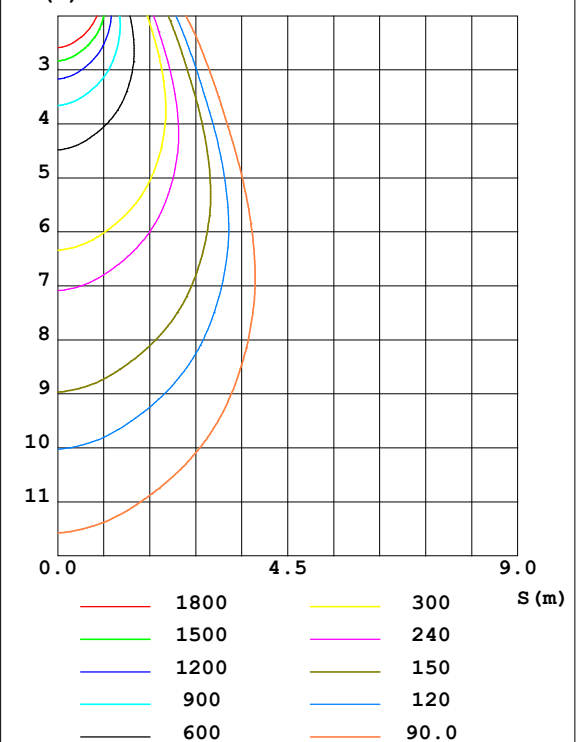
| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 280 \times H114\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.28$ | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 141.39 lm/W |
|------------------|--------------|------------------|--------|------------------------|----------|------------------|
| MODEL | UFO-100W-60D | Imax(cd) | 12096 | S/MH(C0/180) | 0.90 | |
| NOMINAL POWER(W) | 100 | LOR(%) | 100.0 | S/MH(C90/270) | 0.91 | |
| RATED VOLTAGE(V) | 232 | TOTAL FLUX(lm) | 14139 | η UP,DN(C0-180) | 0.0,49.2 | |
| NOMINAL FLUX(lm) | 14138.7 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,50.8 | |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.75 | |
| TEST VOLTAGE(V) | 231.0 | η down(%) | 100.0 | CIBSE SHR MAX | 0.95 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|-------|-------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10 | 1100 | 1118 | 1172 | 1158 | | | | | 0- 10 | 1118 | 1118 | 7.91,7.91 |
| 20 | 907.3 | 931.0 | 992.2 | 987.2 | | | | | 10- 20 | 2962 | 4080 | 28.9,28.9 |
| 30 | 619.4 | 617.1 | 638.2 | 668.6 | | | | | 20- 30 | 3691 | 7771 | 55,55 |
| 40 | 307.2 | 283.0 | 293.8 | 306.3 | | | | | 30- 40 | 2796 | 10567 | 74.7,74.7 |
| 50 | 162.3 | 151.2 | 151.1 | 156.2 | | | | | 40- 50 | 1666 | 12233 | 86.5,86.5 |
| 60 | 82.44 | 75.79 | 72.99 | 76.50 | | | | | 50- 60 | 996.5 | 13230 | 93.6,93.6 |
| 70 | 39.36 | 36.24 | 33.26 | 35.42 | | | | | 60- 70 | 533.7 | 13763 | 97.3,97.3 |
| 80 | 20.30 | 16.27 | 14.40 | 16.11 | | | | | 70- 80 | 269.9 | 14033 | 99.3,99.3 |
| 90 | 4.984 | 4.578 | 3.843 | 3.795 | | | | | 80- 90 | 105.5 | 14139 | 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 | | |

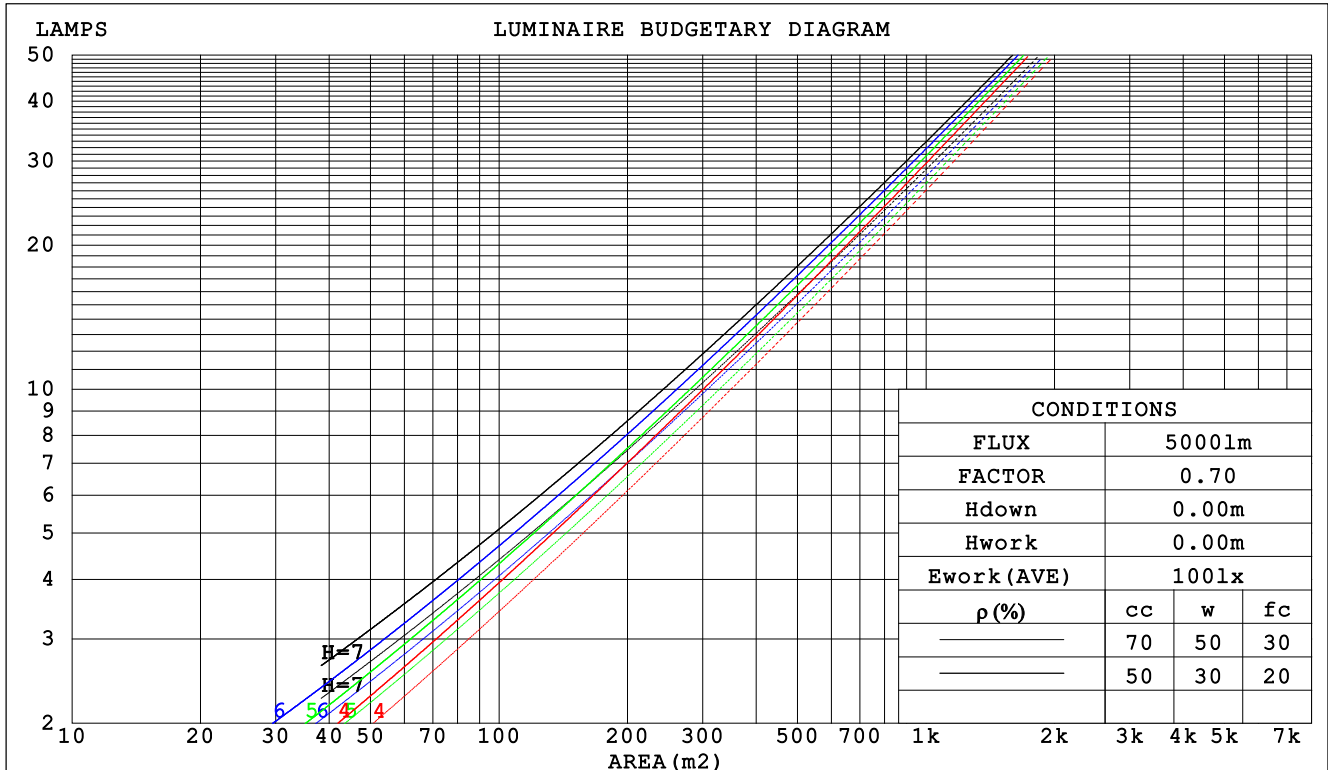
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.600m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---------------------------------------|----------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\varnothing 280 \times H114mm$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\varphi 0.28$ | PROTECTION ANGLE: |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{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 | 1.00 |
| 1.0 | 1.08 | 1.05 | 1.03 | 1.06 | 1.03 | 1.01 | 1.02 | .00 | .98 | .98 | .97 | .95 | .95 | .93 | .92 | .90 |
| 2.0 | .99 | .94 | .90 | .97 | .92 | .89 | .94 | .90 | .87 | .91 | .87 | .85 | .88 | .85 | .83 | .81 |
| 3.0 | .90 | .84 | .79 | .89 | .83 | .79 | .86 | .81 | .78 | .84 | .80 | .76 | .81 | .78 | .75 | .73 |
| 4.0 | .83 | .76 | .71 | .82 | .76 | .71 | .80 | .74 | .70 | .77 | .73 | .69 | .75 | .72 | .68 | .67 |
| 5.0 | .77 | .70 | .65 | .76 | .69 | .64 | .74 | .68 | .64 | .72 | .67 | .63 | .70 | .66 | .62 | .61 |
| 6.0 | .71 | .64 | .59 | .70 | .63 | .59 | .68 | .63 | .58 | .67 | .62 | .58 | .66 | .61 | .57 | .56 |
| 7.0 | .66 | .59 | .54 | .65 | .59 | .54 | .64 | .58 | .54 | .63 | .57 | .53 | .61 | .57 | .53 | .51 |
| 8.0 | .62 | .55 | .50 | .61 | .54 | .50 | .60 | .54 | .50 | .59 | .53 | .49 | .58 | .53 | .49 | .47 |
| 9.0 | .58 | .51 | .46 | .57 | .51 | .46 | .56 | .50 | .46 | .55 | .50 | .46 | .54 | .49 | .46 | .44 |
| 10.0 | .54 | .47 | .43 | .54 | .47 | .43 | .53 | .47 | .43 | .52 | .47 | .43 | .51 | .46 | .43 | .41 |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 280 \times H114mm$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.28$ | PROTECTION ANGLE: |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|-------------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .222 | .126 | .040 | .215 | .123 | .039 | .202 | .116 | .037 | .190 | .110 | .035 | .180 | .104 | .034 | | |
| 2.0 | .211 | .116 | .036 | .205 | .113 | .035 | .194 | .108 | .034 | .184 | .103 | .032 | .175 | .099 | .031 | | |
| 3.0 | .199 | .106 | .032 | .194 | .104 | .031 | .185 | .100 | .030 | .176 | .096 | .030 | .168 | .093 | .029 | | |
| 4.0 | .188 | .098 | .029 | .183 | .096 | .028 | .175 | .093 | .028 | .167 | .090 | .027 | .160 | .087 | .027 | | |
| 5.0 | .177 | .090 | .026 | .173 | .089 | .026 | .166 | .086 | .025 | .159 | .084 | .025 | .153 | .082 | .025 | | |
| 6.0 | .167 | .084 | .024 | .164 | .083 | .024 | .157 | .081 | .023 | .151 | .079 | .023 | .146 | .077 | .023 | | |
| 7.0 | .158 | .078 | .022 | .155 | .077 | .022 | .149 | .075 | .022 | .144 | .074 | .021 | .139 | .072 | .021 | | |
| 8.0 | .150 | .073 | .021 | .147 | .072 | .020 | .142 | .071 | .020 | .137 | .069 | .020 | .133 | .068 | .020 | | |
| 9.0 | .142 | .069 | .019 | .140 | .068 | .019 | .135 | .067 | .019 | .131 | .066 | .019 | .127 | .064 | .019 | | |
| 10.0 | .135 | .065 | .018 | .133 | .064 | .018 | .129 | .063 | .018 | .125 | .062 | .018 | .121 | .061 | .018 | | |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 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 | .174 | .157 | .141 | .149 | .135 | .122 | .102 | .093 | .084 | .059 | .054 | .049 | .019 | .017 | .016 | |
| 2.0 | .162 | .132 | .108 | .138 | .114 | .093 | .095 | .079 | .065 | .055 | .046 | .038 | .018 | .015 | .012 | |
| 3.0 | .151 | .114 | .084 | .129 | .098 | .073 | .089 | .068 | .051 | .051 | .040 | .030 | .016 | .013 | .010 | |
| 4.0 | .142 | .100 | .067 | .122 | .086 | .059 | .084 | .060 | .041 | .048 | .035 | .024 | .016 | .011 | .008 | |
| 5.0 | .134 | .088 | .055 | .115 | .077 | .048 | .079 | .053 | .034 | .046 | .031 | .020 | .015 | .010 | .007 | |
| 6.0 | .126 | .080 | .046 | .109 | .069 | .040 | .075 | .048 | .028 | .044 | .028 | .017 | .014 | .009 | .006 | |
| 7.0 | .120 | .072 | .039 | .103 | .063 | .034 | .071 | .044 | .024 | .041 | .026 | .014 | .013 | .008 | .005 | |
| 8.0 | .114 | .066 | .033 | .098 | .057 | .029 | .068 | .040 | .021 | .040 | .024 | .012 | .013 | .008 | .004 | |
| 9.0 | .109 | .061 | .029 | .094 | .053 | .025 | .065 | .037 | .018 | .038 | .022 | .011 | .012 | .007 | .004 | |
| 10.0 | .104 | .057 | .025 | .090 | .049 | .022 | .062 | .035 | .016 | .036 | .021 | .009 | .012 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

Uncorrected UGR Table

| | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|----------------------|------|------|------|------|-------------------|------|------|------|------|
| NAME: LED High Bay | | | | | TYPE: | | | | | WEIGHT: | | | | |
| DIM.: $\varnothing 280 \times H114\text{mm}$ | | | | | SPEC.: | | | | | SERIAL No.: | | | | |
| MFR.: | | | | | SUR.: $\varphi 0.28$ | | | | | PROTECTION ANGLE: | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | | | | |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | | | | |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | | | |
| Room dimensions | | | | | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | | | | | 23.2 | 24.4 | 23.5 | 24.6 | 24.8 | 23.0 | 24.1 | 23.2 | 24.3 | 24.5 |
| 3H | | | | | 23.7 | 24.8 | 24.0 | 25.0 | 25.2 | 23.4 | 24.5 | 23.7 | 24.7 | 24.9 |
| 4H | | | | | 24.0 | 25.0 | 24.3 | 25.2 | 25.4 | 23.6 | 24.6 | 23.9 | 24.9 | 25.1 |
| 6H | | | | | 24.2 | 25.1 | 24.5 | 25.4 | 25.7 | 23.8 | 24.8 | 24.1 | 25.0 | 25.3 |
| 8H | | | | | 24.3 | 25.2 | 24.6 | 25.5 | 25.7 | 23.9 | 24.8 | 24.2 | 25.1 | 25.3 |
| 12H | | | | | 24.4 | 25.3 | 24.7 | 25.5 | 25.8 | 24.0 | 24.8 | 24.3 | 25.1 | 25.4 |
| 4H 2H | | | | | 23.4 | 24.4 | 23.7 | 24.6 | 24.9 | 23.2 | 24.2 | 23.4 | 24.4 | 24.6 |
| 3H | | | | | 24.1 | 24.9 | 24.4 | 25.2 | 25.5 | 23.8 | 24.7 | 24.1 | 24.9 | 25.2 |
| 4H | | | | | 24.4 | 25.2 | 24.7 | 25.5 | 25.8 | 24.1 | 24.9 | 24.5 | 25.2 | 25.5 |
| 6H | | | | | 24.8 | 25.5 | 25.1 | 25.8 | 26.1 | 24.4 | 25.1 | 24.8 | 25.4 | 25.8 |
| 8H | | | | | 24.9 | 25.6 | 25.3 | 25.9 | 26.3 | 24.5 | 25.2 | 24.9 | 25.5 | 25.9 |
| 12H | | | | | 25.1 | 25.7 | 25.5 | 26.1 | 26.5 | 24.7 | 25.3 | 25.1 | 25.6 | 26.0 |
| 8H 4H | | | | | 24.5 | 25.1 | 24.9 | 25.5 | 25.8 | 24.2 | 24.8 | 24.6 | 25.2 | 25.6 |
| 6H | | | | | 25.0 | 25.5 | 25.4 | 25.9 | 26.3 | 24.6 | 25.2 | 25.1 | 25.6 | 26.0 |
| 8H | | | | | 25.2 | 25.7 | 25.7 | 26.1 | 26.6 | 24.9 | 25.3 | 25.3 | 25.7 | 26.2 |
| 12H | | | | | 25.5 | 25.9 | 26.0 | 26.3 | 26.8 | 25.1 | 25.5 | 25.5 | 25.9 | 26.4 |
| 12H 4H | | | | | 24.5 | 25.0 | 24.9 | 25.4 | 25.8 | 24.2 | 24.8 | 24.6 | 25.2 | 25.6 |
| 6H | | | | | 25.0 | 25.5 | 25.5 | 25.9 | 26.3 | 24.7 | 25.1 | 25.1 | 25.6 | 26.0 |
| 8H | | | | | 25.3 | 25.7 | 25.8 | 26.1 | 26.6 | 24.9 | 25.3 | 25.4 | 25.8 | 26.3 |
| Variations with the observer position at spacings: | | | | | | | | | | | | | | |
| S = 1.0H | | | | | + 0.6 / - 0.8 | | | | | + 0.6 / - 0.8 | | | | |
| 1.5H | | | | | + 0.8 / - 0.5 | | | | | + 0.7 / - 0.5 | | | | |
| 2.0H | | | | | + 1.2 / - 0.9 | | | | | + 1.2 / - 0.9 | | | | |

CIE Pub.117 Corrected 14139 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.2)

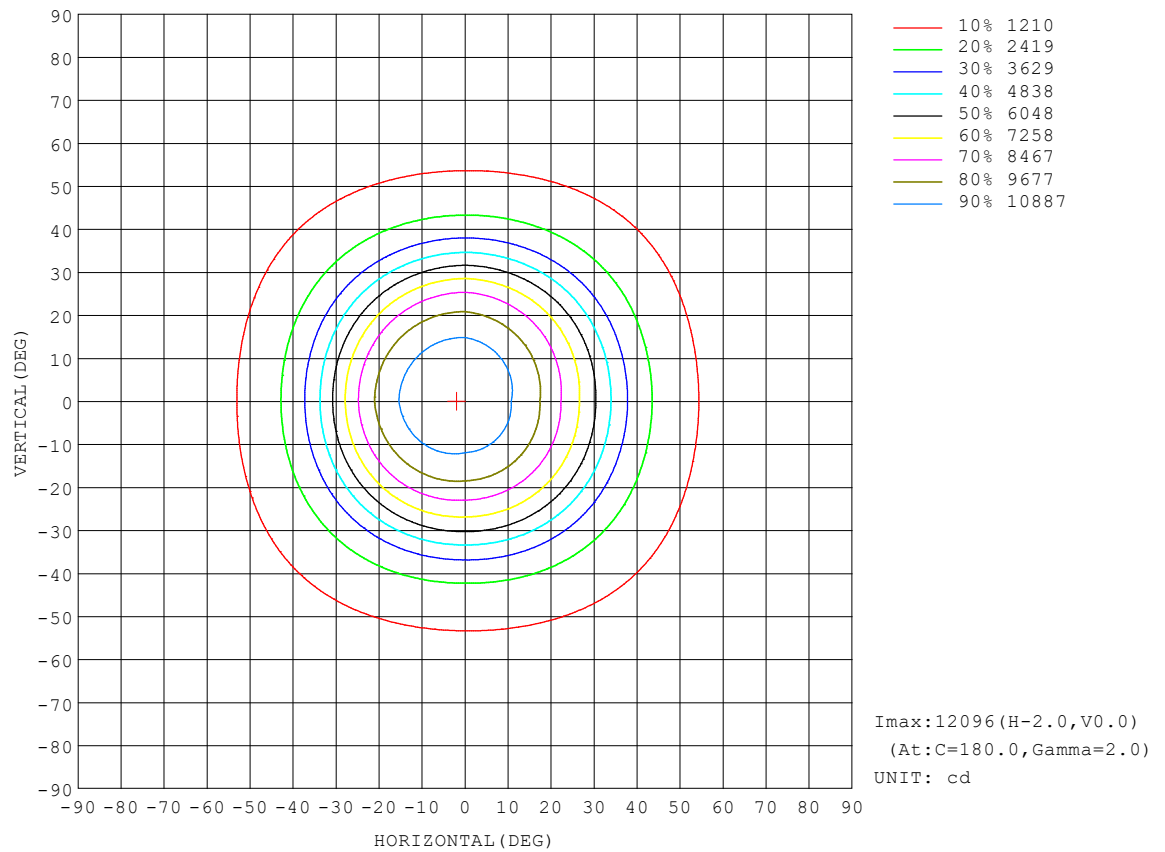
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.600m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 280 \times H114\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.28$ | PROTECTION ANGLE: |

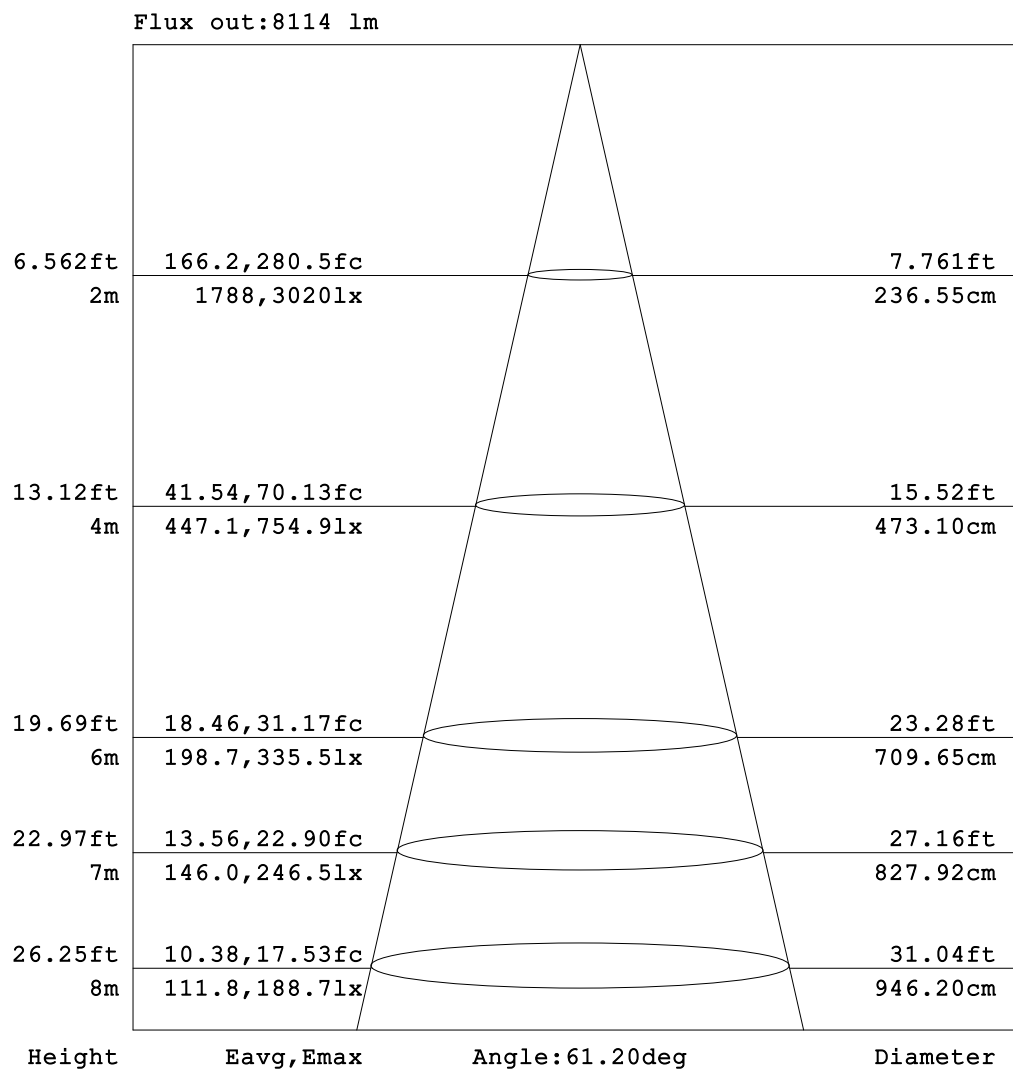


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 280 \times H114\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.28$ | PROTECTION ANGLE: |



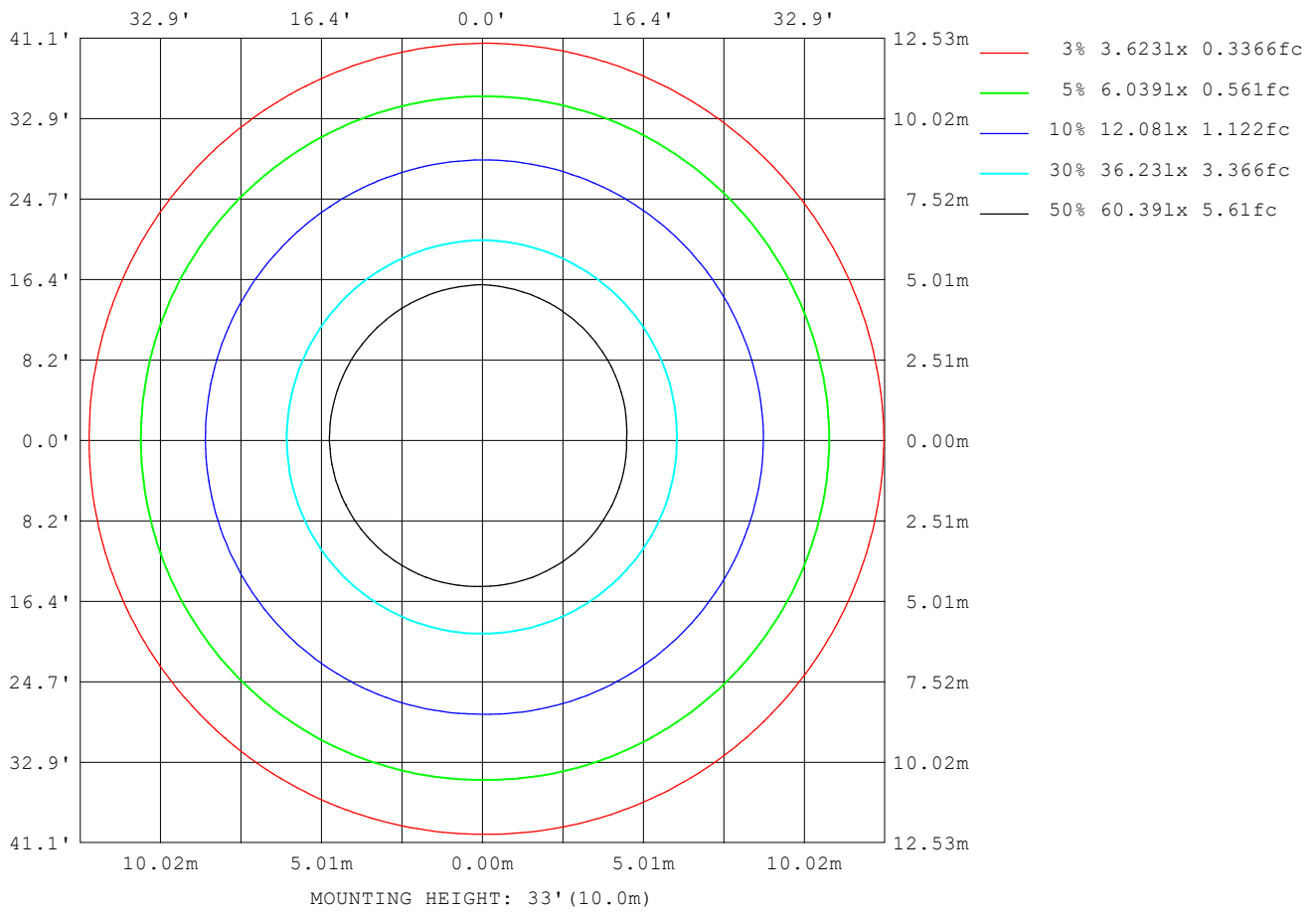
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

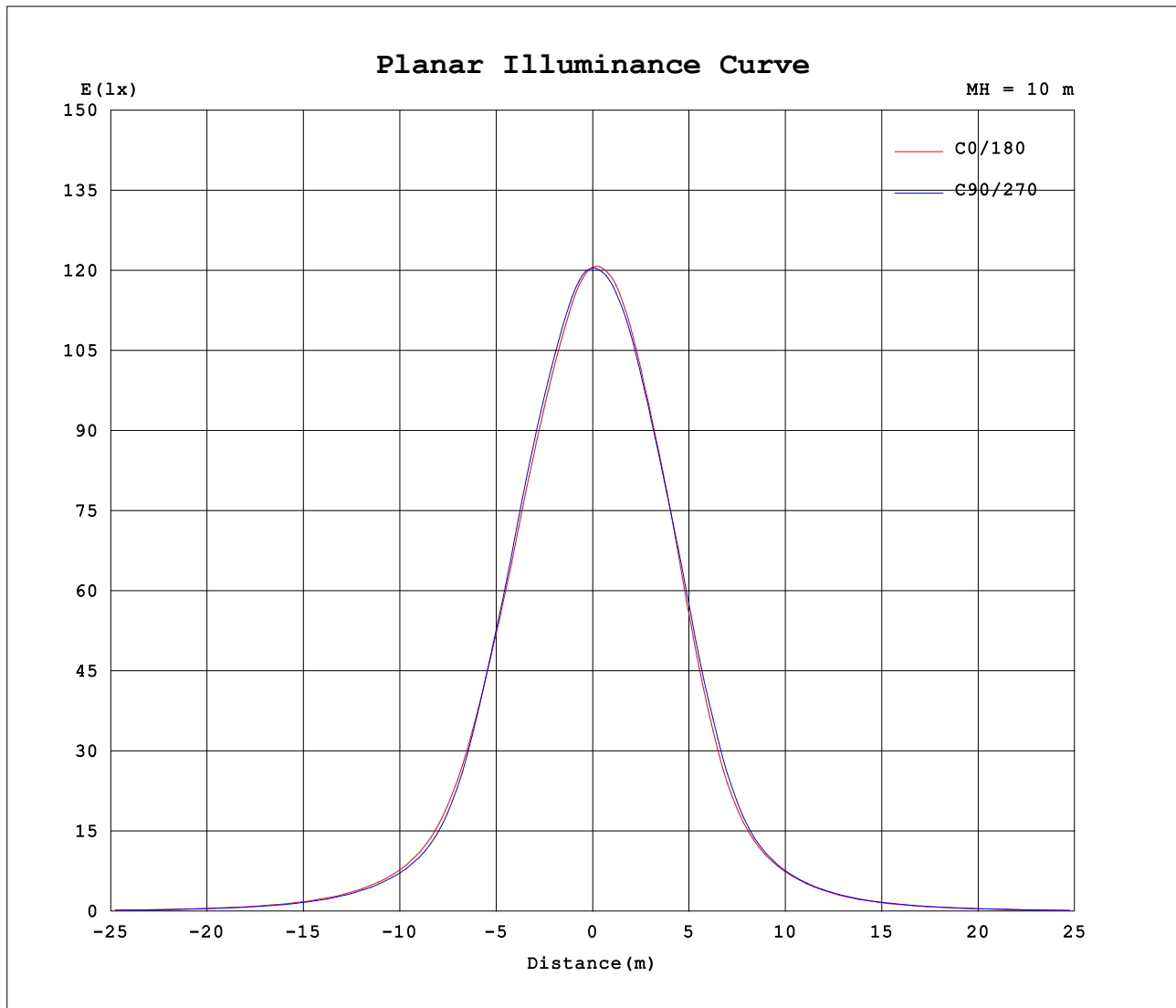
| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 280 \times H114mm$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.28$ | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-31

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

```