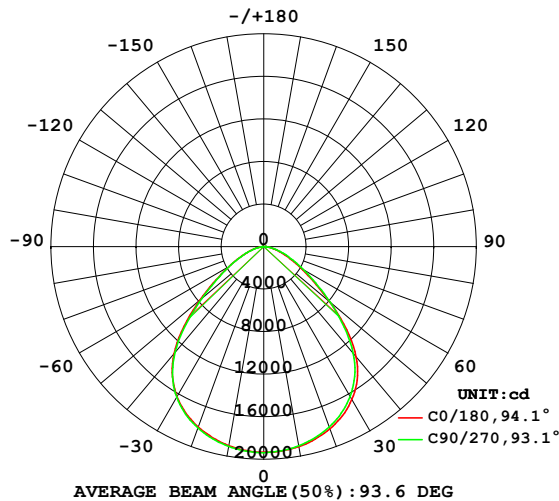


LUMINAIRE PHOTOMETRIC TEST REPORT

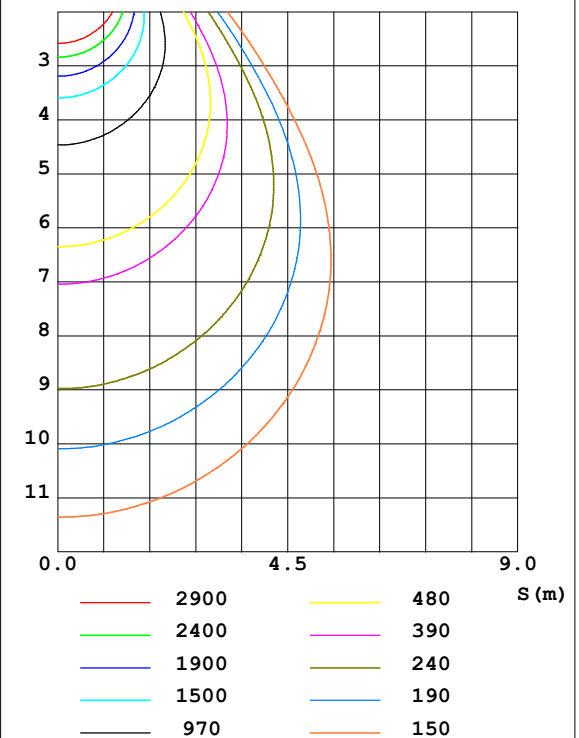
| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\Phi 350 \times H150MM$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\Phi 0.35$ | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 210.56 lm/W | | | |
|------------------|-------------|-----------------------------------|--------|------------------------|----------|
| MODEL | UFO200W-90D | Imax(cd) | 19373 | S/MH(C0/180) | 1.27 |
| NOMINAL POWER(W) | 199.3 | LOR(%) | 100.0 | S/MH(C90/270) | 1.24 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 41964 | η UP,DN(C0-180) | 0.0,50.9 |
| NOMINAL FLUX(lm) | 41963.9 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,49.1 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 229.0 | η down(%) | 100.0 | CIBSE SHR MAX | 1.35 |

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: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | | γ | Φ zone | Φ total | %lum, lamp |
|----------|--|-------|-------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10 | 1909 | 1902 | 1900 | 1908 | | | | | 0- 10 | 1833 | 1833 | 4.37, 4.37 |
| 20 | 1824 | 1804 | 1805 | 1813 | | | | | 10- 20 | 5268 | 7100 | 16.9, 16.9 |
| 30 | 1660 | 1626 | 1631 | 1636 | | | | | 20- 30 | 7998 | 15098 | 36, 36 |
| 40 | 1351 | 1309 | 1313 | 1297 | | | | | 30- 40 | 9351 | 24449 | 58.3, 58.3 |
| 50 | 811.7 | 816.8 | 787.2 | 758.5 | | | | | 40- 50 | 8178 | 32627 | 77.8, 77.8 |
| 60 | 403.9 | 428.8 | 379.9 | 375.8 | | | | | 50- 60 | 5121 | 37748 | 90, 90 |
| 70 | 187.2 | 208.9 | 169.4 | 168.0 | | | | | 60- 70 | 2761 | 40509 | 96.5, 96.5 |
| 80 | 60.17 | 69.14 | 43.91 | 40.22 | | | | | 70- 80 | 1211 | 41720 | 99.4, 99.4 |
| 90 | 16.17 | 16.07 | 12.65 | 12.49 | | | | | 80- 90 | 243.7 | 41964 | 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: $\times 10\text{cd}$ | | | | | | | | | UNIT: lm | | |

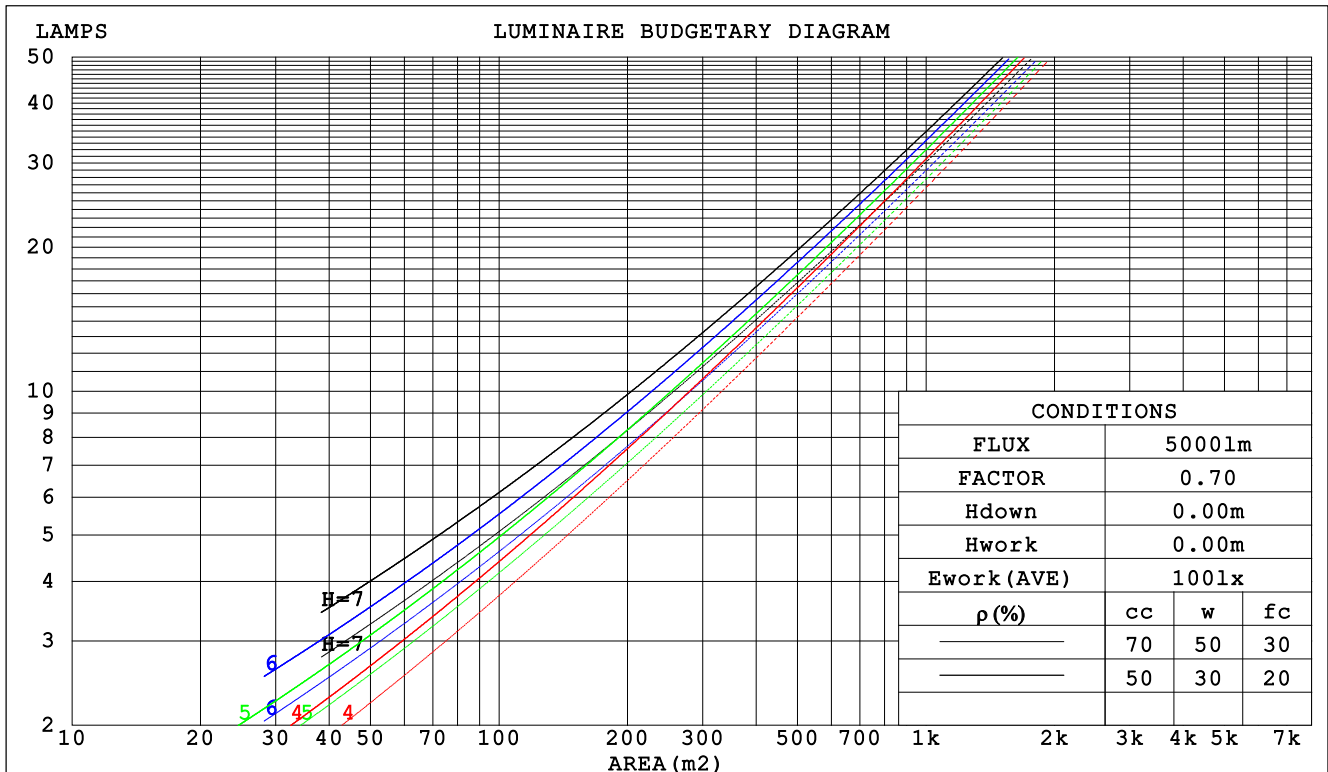
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.300m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\Phi 350 \times H150MM$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\Phi 0.35$ | 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 | | | 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 | .00 |
| 1.0 | 1.07 | 1.03 | 1.00 | 1.05 | 1.01 | .99 | 1.00 | .98 | .95 | .97 | .94 | .93 | .93 | .91 | .90 | .88 |
| 2.0 | .95 | .90 | .85 | .93 | .88 | .84 | .90 | .86 | .82 | .87 | .83 | .80 | .84 | .81 | .78 | .76 |
| 3.0 | .85 | .78 | .73 | .84 | .77 | .72 | .81 | .75 | .71 | .78 | .74 | .70 | .76 | .72 | .68 | .66 |
| 4.0 | .77 | .69 | .63 | .75 | .68 | .63 | .73 | .67 | .62 | .71 | .65 | .61 | .69 | .64 | .60 | .58 |
| 5.0 | .69 | .61 | .55 | .68 | .61 | .55 | .66 | .60 | .55 | .64 | .59 | .54 | .63 | .58 | .53 | .52 |
| 6.0 | .63 | .55 | .49 | .62 | .55 | .49 | .60 | .54 | .49 | .59 | .53 | .48 | .57 | .52 | .48 | .46 |
| 7.0 | .58 | .50 | .44 | .57 | .49 | .44 | .55 | .48 | .44 | .54 | .48 | .43 | .53 | .47 | .43 | .41 |
| 8.0 | .53 | .45 | .40 | .52 | .45 | .39 | .51 | .44 | .39 | .50 | .44 | .39 | .49 | .43 | .39 | .37 |
| 9.0 | .49 | .41 | .36 | .48 | .41 | .36 | .47 | .40 | .36 | .46 | .40 | .35 | .45 | .39 | .35 | .34 |
| 10.0 | .45 | .38 | .33 | .45 | .38 | .33 | .44 | .37 | .33 | .43 | .37 | .32 | .42 | .36 | .32 | .31 |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.300m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|-------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: Φ 350*H150MM | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: Φ 0.35 | 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 | .253 | .144 | .046 | .246 | .141 | .045 | .234 | .134 | .043 | .222 | .128 | .041 | .211 | .122 | .039 | | |
| 2.0 | .245 | .134 | .041 | .239 | .132 | .041 | .228 | .127 | .039 | .217 | .122 | .038 | .208 | .117 | .037 | | |
| 3.0 | .232 | .123 | .037 | .227 | .121 | .037 | .217 | .117 | .036 | .207 | .114 | .035 | .199 | .110 | .034 | | |
| 4.0 | .218 | .113 | .033 | .213 | .112 | .033 | .205 | .109 | .032 | .197 | .106 | .032 | .189 | .103 | .031 | | |
| 5.0 | .205 | .104 | .030 | .201 | .103 | .030 | .193 | .100 | .030 | .186 | .098 | .029 | .179 | .096 | .029 | | |
| 6.0 | .192 | .096 | .028 | .189 | .095 | .027 | .182 | .093 | .027 | .175 | .091 | .027 | .169 | .089 | .026 | | |
| 7.0 | .181 | .090 | .025 | .178 | .089 | .025 | .172 | .087 | .025 | .166 | .085 | .025 | .160 | .083 | .025 | | |
| 8.0 | .171 | .083 | .023 | .168 | .083 | .023 | .162 | .081 | .023 | .157 | .080 | .023 | .152 | .078 | .023 | | |
| 9.0 | .161 | .078 | .022 | .159 | .077 | .022 | .154 | .076 | .022 | .149 | .075 | .021 | .145 | .073 | .021 | | |
| 10.0 | .153 | .073 | .020 | .150 | .073 | .020 | .146 | .071 | .020 | .142 | .070 | .020 | .138 | .069 | .020 | | |

| 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 | .176 | .157 | .139 | .151 | .134 | .119 | .103 | .092 | .083 | .059 | .054 | .048 | .019 | .017 | .016 | |
| 2.0 | .166 | .132 | .104 | .142 | .114 | .090 | .097 | .079 | .063 | .056 | .046 | .037 | .018 | .015 | .012 | |
| 3.0 | .157 | .114 | .080 | .135 | .098 | .069 | .092 | .068 | .048 | .053 | .040 | .029 | .017 | .013 | .009 | |
| 4.0 | .149 | .100 | .063 | .128 | .087 | .055 | .088 | .060 | .039 | .051 | .035 | .023 | .016 | .012 | .007 | |
| 5.0 | .142 | .090 | .051 | .122 | .077 | .044 | .084 | .054 | .031 | .049 | .032 | .019 | .016 | .010 | .006 | |
| 6.0 | .135 | .081 | .042 | .116 | .070 | .037 | .080 | .049 | .026 | .046 | .029 | .015 | .015 | .009 | .005 | |
| 7.0 | .129 | .074 | .036 | .111 | .064 | .031 | .076 | .045 | .022 | .044 | .026 | .013 | .014 | .009 | .004 | |
| 8.0 | .123 | .068 | .031 | .106 | .059 | .027 | .073 | .041 | .019 | .043 | .024 | .011 | .014 | .008 | .004 | |
| 9.0 | .117 | .063 | .027 | .101 | .055 | .023 | .070 | .039 | .017 | .041 | .023 | .010 | .013 | .007 | .003 | |
| 10.0 | .112 | .059 | .024 | .097 | .051 | .021 | .067 | .036 | .015 | .039 | .021 | .009 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

Uncorrected UGR Table

| | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-------------------|------|------|------|------|-------------------|------|------|------|------|
| NAME: LED High Bay | | | | | TYPE: | | | | | WEIGHT: | | | | |
| DIM.: $\Phi 350 \times H150MM$ | | | | | SPEC.: | | | | | SERIAL No.: | | | | |
| MFR.: | | | | | SUR.: $\Phi 0.35$ | | | | | 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 | | | | | 28.6 | 30.0 | 28.9 | 30.2 | 30.4 | 28.7 | 30.1 | 29.0 | 30.2 | 30.4 |
| 3H | | | | | 29.2 | 30.4 | 29.5 | 30.6 | 30.9 | 29.3 | 30.6 | 29.6 | 30.8 | 31.0 |
| 4H | | | | | 29.3 | 30.5 | 29.7 | 30.8 | 31.0 | 29.6 | 30.7 | 29.9 | 31.0 | 31.2 |
| 6H | | | | | 29.4 | 30.5 | 29.8 | 30.8 | 31.1 | 29.7 | 30.8 | 30.0 | 31.0 | 31.3 |
| 8H | | | | | 29.4 | 30.5 | 29.8 | 30.8 | 31.0 | 29.7 | 30.7 | 30.0 | 31.0 | 31.3 |
| 12H | | | | | 29.4 | 30.4 | 29.7 | 30.7 | 31.0 | 29.7 | 30.7 | 30.0 | 31.0 | 31.3 |
| 4H 2H | | | | | 28.9 | 30.0 | 29.2 | 30.3 | 30.5 | 28.9 | 30.1 | 29.2 | 30.3 | 30.6 |
| 3H | | | | | 29.6 | 30.6 | 29.9 | 30.9 | 31.2 | 29.7 | 30.7 | 30.1 | 31.0 | 31.3 |
| 4H | | | | | 29.8 | 30.8 | 30.2 | 31.1 | 31.4 | 30.0 | 31.0 | 30.4 | 31.3 | 31.6 |
| 6H | | | | | 30.0 | 30.8 | 30.4 | 31.2 | 31.5 | 30.2 | 31.1 | 30.6 | 31.4 | 31.8 |
| 8H | | | | | 30.0 | 30.8 | 30.4 | 31.1 | 31.5 | 30.3 | 31.0 | 30.7 | 31.4 | 31.8 |
| 12H | | | | | 30.0 | 30.7 | 30.4 | 31.1 | 31.5 | 30.3 | 31.0 | 30.7 | 31.3 | 31.7 |
| 8H 4H | | | | | 29.9 | 30.7 | 30.3 | 31.0 | 31.4 | 30.1 | 30.9 | 30.5 | 31.2 | 31.6 |
| 6H | | | | | 30.2 | 30.8 | 30.6 | 31.2 | 31.6 | 30.4 | 31.0 | 30.8 | 31.4 | 31.8 |
| 8H | | | | | 30.2 | 30.8 | 30.7 | 31.2 | 31.6 | 30.4 | 31.0 | 30.9 | 31.4 | 31.9 |
| 12H | | | | | 30.2 | 30.7 | 30.7 | 31.1 | 31.6 | 30.5 | 30.9 | 30.9 | 31.4 | 31.8 |
| 12H 4H | | | | | 29.9 | 30.6 | 30.3 | 31.0 | 31.4 | 30.1 | 30.8 | 30.5 | 31.1 | 31.5 |
| 6H | | | | | 30.2 | 30.7 | 30.6 | 31.1 | 31.6 | 30.4 | 30.9 | 30.8 | 31.3 | 31.8 |
| 8H | | | | | 30.2 | 30.7 | 30.7 | 31.1 | 31.6 | 30.5 | 30.9 | 30.9 | 31.4 | 31.8 |
| Variations with the observer position at spacings: | | | | | | | | | | | | | | |
| S = 1.0H | | | | | + 0.7 / - 0.8 | | | | | + 0.6 / - 0.7 | | | | |
| 1.5H | | | | | + 0.4 / - 0.4 | | | | | + 0.3 / - 0.3 | | | | |
| 2.0H | | | | | + 1.4 / - 1.1 | | | | | + 1.3 / - 1.0 | | | | |

CIE Pub.117 Corrected 41964 lm Total Lamp Luminous Flux. (8log(F/F0) = 13.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

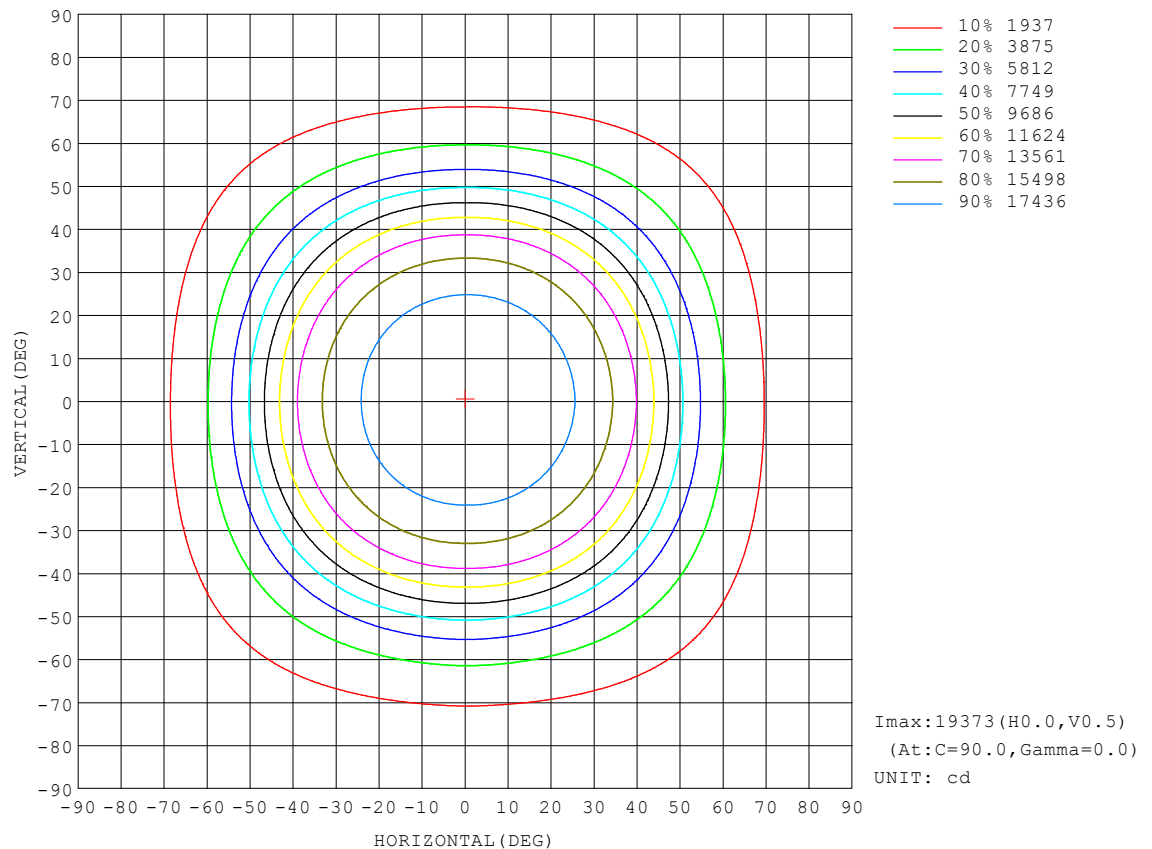
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\Phi 350 \times H150MM$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\Phi 0.35$ | PROTECTION ANGLE: |

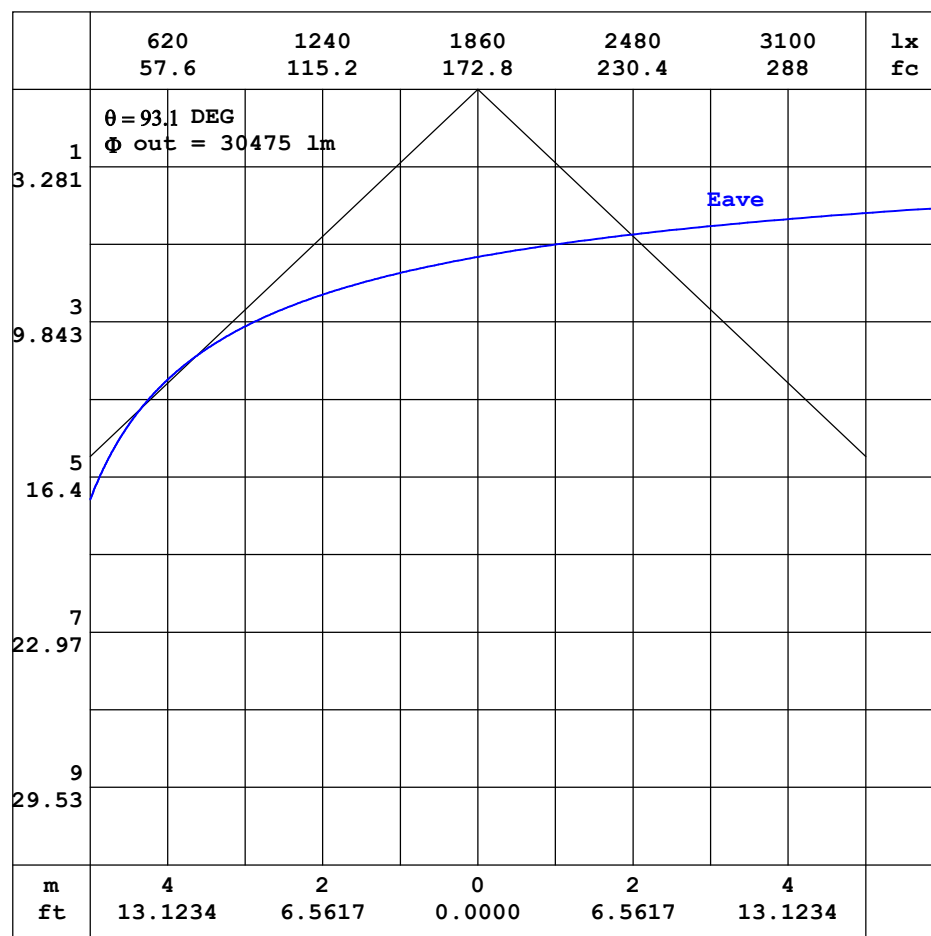


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

AAI CURVES

| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\Phi 350 \times H150MM$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\Phi 0.35$ | PROTECTION ANGLE: |



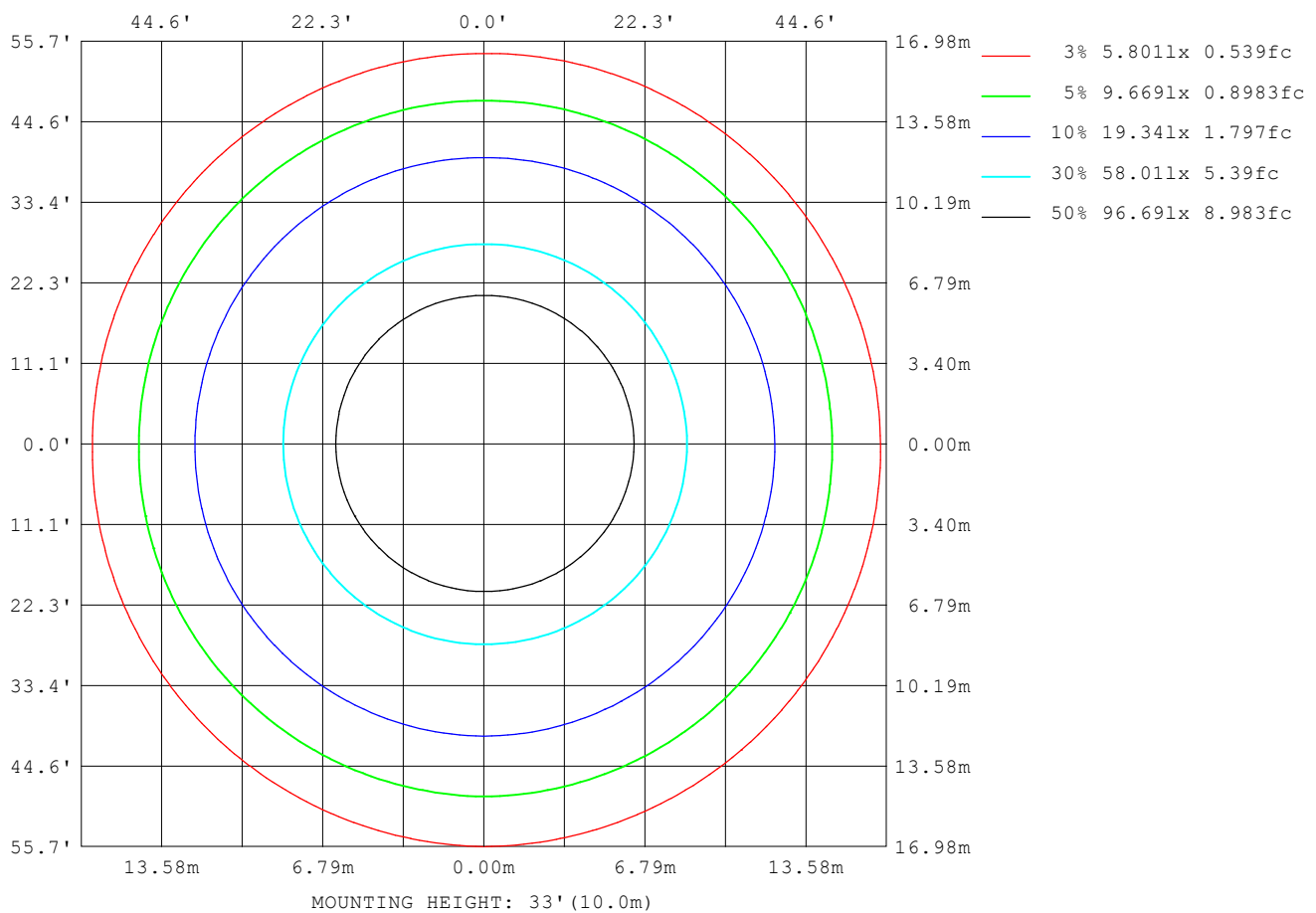
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

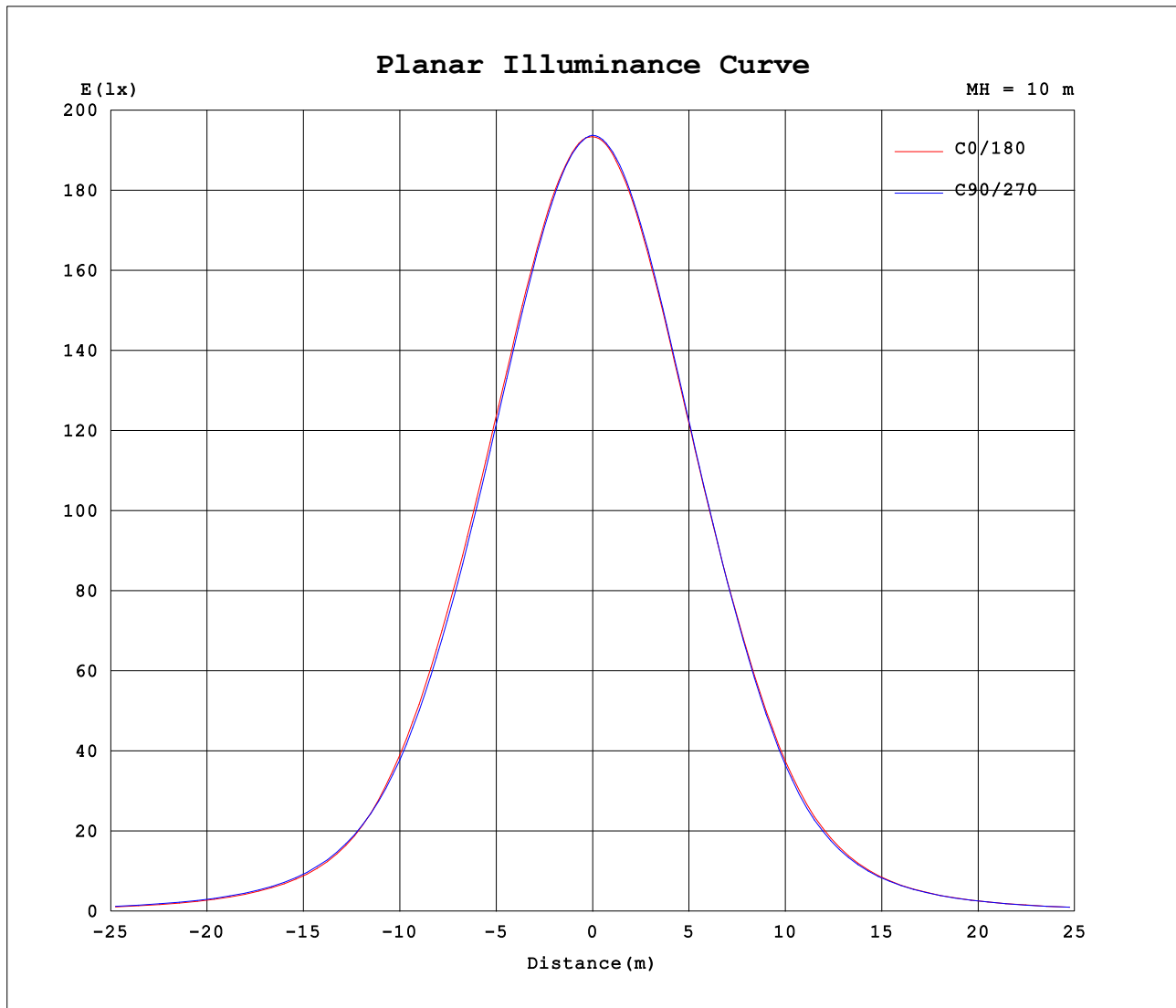
| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\Phi 350 \times H150MM$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\Phi 0.35$ | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.300m [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: 2022-05-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.300m [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:7.300m [K=1.0000]
Remarks:

```