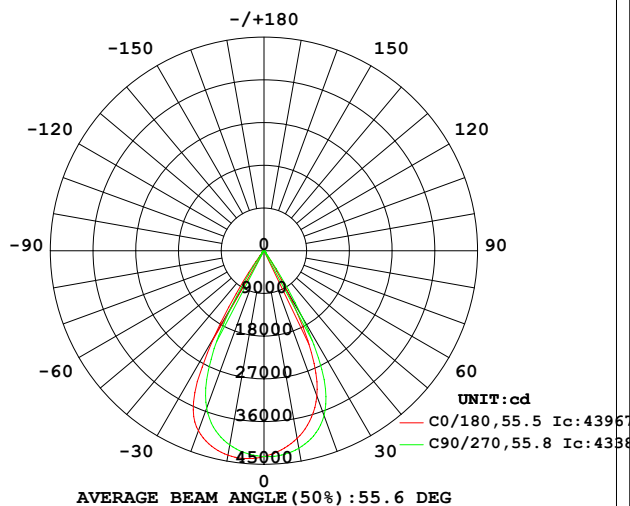


LUMINAIRE PHOTOMETRIC TEST REPORT

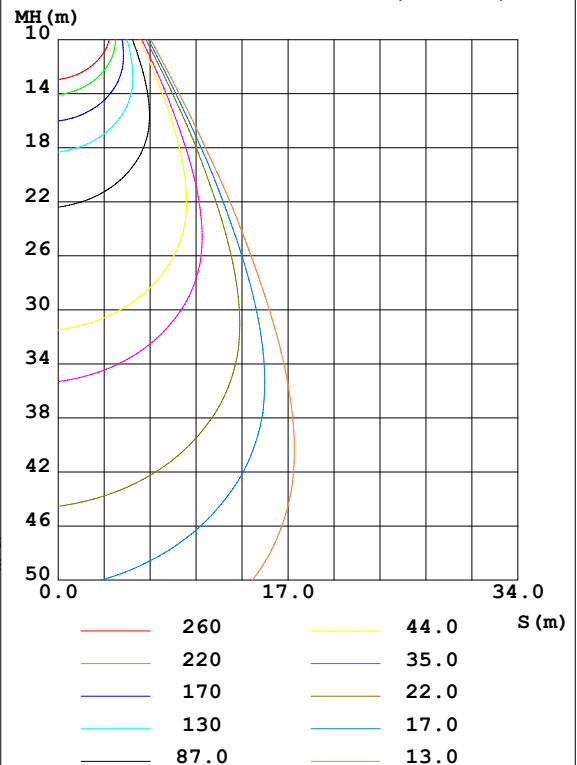
| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 160.97 lm/W | | | |
|-------------------|---------|-----------------------------------|--------|-------------------------|----------|
| MODEL | 2835 | I _{max} (cd) | 44012 | S/MH (C0/180) | 0.85 |
| NOMINAL POWER (W) | 200 | LOR (%) | 100.0 | S/MH (C90/270) | 0.80 |
| RATED VOLTAGE (V) | 220 | TOTAL FLUX (lm) | 32185 | η UP,DN (C0-180) | 0.0,50.3 |
| NOMINAL FLUX (lm) | 32185.3 | CIE CLASS | DIRECT | η UP,DN (C180-360) | 0.0,49.7 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE (V) | 220 | η down (%) | 100.0 | CIBSE SHR MAX | 0.80 |

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:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 4016 | 4094 | 4225 | 4352 | 4372 | 4283 | 4155 | 4042 | 0- 10 | 4072 | 4072 | 12.7,12.7 |
| 20 | 3254 | 3429 | 3697 | 3973 | 4039 | 3831 | 3530 | 3286 | 10- 20 | 11145 | 15217 | 47.3,47.3 |
| 30 | 967.4 | 1203 | 1602 | 2036 | 2137 | 1818 | 1431 | 1050 | 20- 30 | 12604 | 27821 | 86.4,86.4 |
| 40 | 68.35 | 70.97 | 76.72 | 93.61 | 104.7 | 99.49 | 78.71 | 70.63 | 30- 40 | 3014 | 30836 | 95.8,95.8 |
| 50 | 46.42 | 46.67 | 47.82 | 49.94 | 51.14 | 50.03 | 49.26 | 47.49 | 40- 50 | 448.4 | 31284 | 97.2,97.2 |
| 60 | 36.13 | 37.38 | 37.74 | 40.41 | 39.96 | 39.56 | 38.21 | 37.78 | 50- 60 | 393.8 | 31678 | 98.4,98.4 |
| 70 | 22.74 | 23.22 | 23.19 | 25.26 | 25.11 | 25.14 | 23.46 | 23.02 | 60- 70 | 306.9 | 31985 | 99.4,99.4 |
| 80 | 7.841 | 7.666 | 8.641 | 9.442 | 10.60 | 9.029 | 9.177 | 7.166 | 70- 80 | 170.7 | 32156 | 99.9,99.9 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 29.61 | 32185 | 100,100 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 32185 | 100,100 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 32185 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 32185 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 32185 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 32185 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 32185 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 32185 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 32185 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 32185 | 100,100 |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 31076 lm

%lum = 96.6%

%lamp = 96.6%

Conical surface Flux(120deg): 31678 lm

%lum = 98.4%

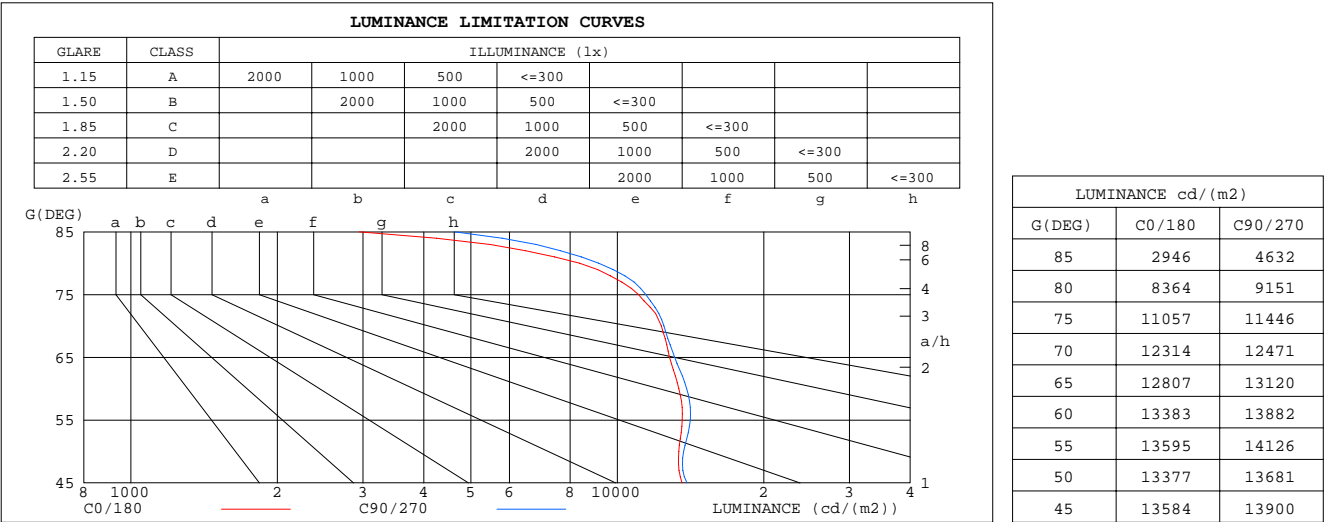
%lamp = 98.4%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.:Φ263mm | Shielding Angle: |



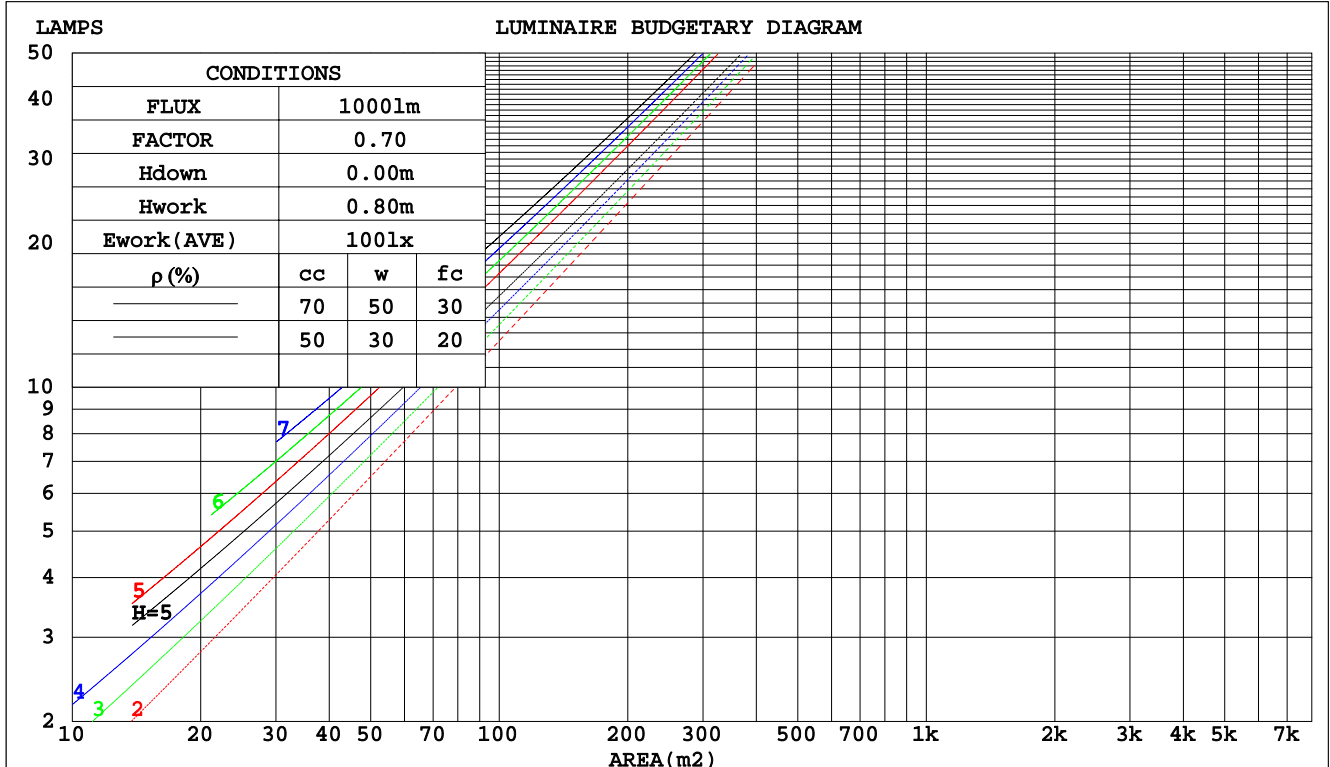
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | Shielding 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 | 1.00 |
| 1.0 | 1.11 | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.05 | 1.03 | 1.02 | 1.01 | .00 | .99 | .98 | .97 | .96 | .94 |
| 2.0 | 1.04 | 1.00 | .97 | 1.02 | .99 | .96 | .99 | .96 | .94 | .96 | .94 | .92 | .93 | .92 | .90 | .88 |
| 3.0 | .98 | .93 | .89 | .96 | .92 | .89 | .94 | .90 | .87 | .91 | .88 | .86 | .89 | .87 | .85 | .83 |
| 4.0 | .92 | .87 | .83 | .91 | .86 | .83 | .89 | .85 | .82 | .87 | .83 | .81 | .85 | .82 | .80 | .78 |
| 5.0 | .87 | .82 | .78 | .86 | .81 | .77 | .84 | .80 | .77 | .83 | .79 | .76 | .81 | .78 | .75 | .74 |
| 6.0 | .82 | .77 | .73 | .82 | .76 | .73 | .80 | .76 | .72 | .79 | .75 | .72 | .77 | .74 | .71 | .70 |
| 7.0 | .78 | .73 | .69 | .77 | .72 | .69 | .76 | .72 | .68 | .75 | .71 | .68 | .74 | .70 | .67 | .66 |
| 8.0 | .74 | .69 | .65 | .74 | .68 | .65 | .73 | .68 | .65 | .72 | .67 | .64 | .71 | .67 | .64 | .63 |
| 9.0 | .71 | .65 | .62 | .70 | .65 | .61 | .69 | .65 | .61 | .68 | .64 | .61 | .68 | .64 | .61 | .60 |
| 10.0 | .67 | .62 | .58 | .67 | .62 | .58 | .66 | .61 | .58 | .65 | .61 | .58 | .65 | .61 | .58 | .57 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yanyonggeng
Test Date: 2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | 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 | .170 | .097 | .031 | .164 | .093 | .030 | .151 | .087 | .028 | .139 | .080 | .026 | .129 | .075 | .024 | | |
| 2.0 | .161 | .088 | .027 | .155 | .086 | .026 | .145 | .081 | .025 | .135 | .076 | .024 | .126 | .071 | .023 | | |
| 3.0 | .152 | .081 | .024 | .147 | .079 | .024 | .139 | .075 | .023 | .130 | .071 | .022 | .123 | .068 | .021 | | |
| 4.0 | .144 | .075 | .022 | .140 | .073 | .022 | .132 | .070 | .021 | .125 | .067 | .020 | .119 | .064 | .020 | | |
| 5.0 | .137 | .070 | .020 | .133 | .068 | .020 | .127 | .066 | .019 | .121 | .064 | .019 | .115 | .061 | .018 | | |
| 6.0 | .130 | .065 | .019 | .127 | .064 | .019 | .121 | .062 | .018 | .116 | .060 | .018 | .111 | .058 | .017 | | |
| 7.0 | .124 | .062 | .017 | .122 | .061 | .017 | .117 | .059 | .017 | .112 | .057 | .017 | .107 | .056 | .016 | | |
| 8.0 | .119 | .058 | .016 | .117 | .057 | .016 | .112 | .056 | .016 | .108 | .055 | .016 | .104 | .053 | .016 | | |
| 9.0 | .114 | .055 | .015 | .112 | .055 | .015 | .108 | .053 | .015 | .104 | .052 | .015 | .101 | .051 | .015 | | |
| 10.0 | .110 | .053 | .015 | .108 | .052 | .015 | .104 | .051 | .014 | .101 | .050 | .014 | .097 | .049 | .014 | | |

| 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 | .171 | .157 | .145 | .146 | .135 | .125 | .100 | .093 | .087 | .057 | .054 | .050 | .018 | .017 | .016 | |
| 2.0 | .155 | .133 | .114 | .133 | .114 | .098 | .091 | .079 | .069 | .052 | .046 | .040 | .017 | .015 | .013 | |
| 3.0 | .142 | .114 | .091 | .122 | .098 | .079 | .083 | .068 | .055 | .048 | .040 | .033 | .015 | .013 | .011 | |
| 4.0 | .131 | .099 | .074 | .112 | .085 | .064 | .077 | .059 | .045 | .045 | .035 | .027 | .014 | .011 | .009 | |
| 5.0 | .122 | .087 | .061 | .105 | .075 | .053 | .072 | .053 | .038 | .042 | .031 | .022 | .013 | .010 | .007 | |
| 6.0 | .114 | .077 | .051 | .098 | .067 | .045 | .068 | .047 | .032 | .039 | .028 | .019 | .013 | .009 | .006 | |
| 7.0 | .107 | .070 | .043 | .092 | .060 | .038 | .064 | .042 | .027 | .037 | .025 | .016 | .012 | .008 | .005 | |
| 8.0 | .102 | .063 | .037 | .087 | .055 | .032 | .060 | .039 | .023 | .035 | .023 | .014 | .011 | .007 | .005 | |
| 9.0 | .096 | .058 | .032 | .083 | .050 | .028 | .058 | .035 | .020 | .034 | .021 | .012 | .011 | .007 | .004 | |
| 10.0 | .092 | .054 | .028 | .079 | .047 | .025 | .055 | .033 | .018 | .032 | .019 | .010 | .010 | .006 | .003 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|--------------------|----------------|------|------------------|------|------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | | | | | | | | | |
| NAME: AOK HBE | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: AOK | | | | | SUR.: Φ 263mm | | | 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 | 15.2 | 16.1 | 15.4 | 16.2 | 16.4 | 17.2 | 18.1 | 17.4 | 18.2 | 18.4 |
| 3H | 16.1 | 16.9 | 16.3 | 17.1 | 17.3 | 17.7 | 18.5 | 17.9 | 18.7 | 18.9 |
| 4H | 16.4 | 17.2 | 16.7 | 17.4 | 17.6 | 17.9 | 18.6 | 18.2 | 18.9 | 19.1 |
| 6H | 16.7 | 17.4 | 17.0 | 17.6 | 17.9 | 18.0 | 18.7 | 18.3 | 19.0 | 19.2 |
| 8H | 16.7 | 17.4 | 17.0 | 17.6 | 17.9 | 18.0 | 18.7 | 18.3 | 19.0 | 19.2 |
| 12H | 16.7 | 17.3 | 17.0 | 17.6 | 17.9 | 18.0 | 18.7 | 18.3 | 18.9 | 19.2 |
| 4H 2H | 15.5 | 16.3 | 15.8 | 16.5 | 16.7 | 17.3 | 18.0 | 17.5 | 18.3 | 18.5 |
| 3H | 16.6 | 17.3 | 16.9 | 17.5 | 17.8 | 17.9 | 18.6 | 18.2 | 18.9 | 19.1 |
| 4H | 17.1 | 17.7 | 17.4 | 18.0 | 18.3 | 18.2 | 18.8 | 18.6 | 19.1 | 19.5 |
| 6H | 17.4 | 17.9 | 17.8 | 18.3 | 18.6 | 18.5 | 19.0 | 18.8 | 19.3 | 19.7 |
| 8H | 17.4 | 17.9 | 17.8 | 18.3 | 18.6 | 18.5 | 19.0 | 18.9 | 19.3 | 19.7 |
| 12H | 17.4 | 17.9 | 17.8 | 18.2 | 18.6 | 18.5 | 18.9 | 18.9 | 19.3 | 19.7 |
| 8H 4H | 17.2 | 17.7 | 17.6 | 18.1 | 18.4 | 18.3 | 18.8 | 18.7 | 19.1 | 19.5 |
| 6H | 17.6 | 18.0 | 18.0 | 18.4 | 18.8 | 18.6 | 19.0 | 19.0 | 19.4 | 19.8 |
| 8H | 17.6 | 18.0 | 18.1 | 18.4 | 18.9 | 18.6 | 19.0 | 19.1 | 19.4 | 19.8 |
| 12H | 17.6 | 17.9 | 18.1 | 18.4 | 18.8 | 18.6 | 18.9 | 19.1 | 19.3 | 19.8 |
| 12H 4H | 17.2 | 17.7 | 17.6 | 18.0 | 18.4 | 18.3 | 18.7 | 18.7 | 19.1 | 19.5 |
| 6H | 17.6 | 17.9 | 18.0 | 18.4 | 18.8 | 18.5 | 18.9 | 19.0 | 19.3 | 19.8 |
| 8H | 17.6 | 17.9 | 18.1 | 18.4 | 18.9 | 18.6 | 18.9 | 19.1 | 19.3 | 19.8 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.3 / - 0.3 | | | | | + 0.5 / - 0.3 | | | | |
| 1.5H | + 0.6 / - 0.3 | | | | | + 1.0 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 32185 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.1$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yanyonggeng
 Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: ϕ 263mm | Shielding Angle: |

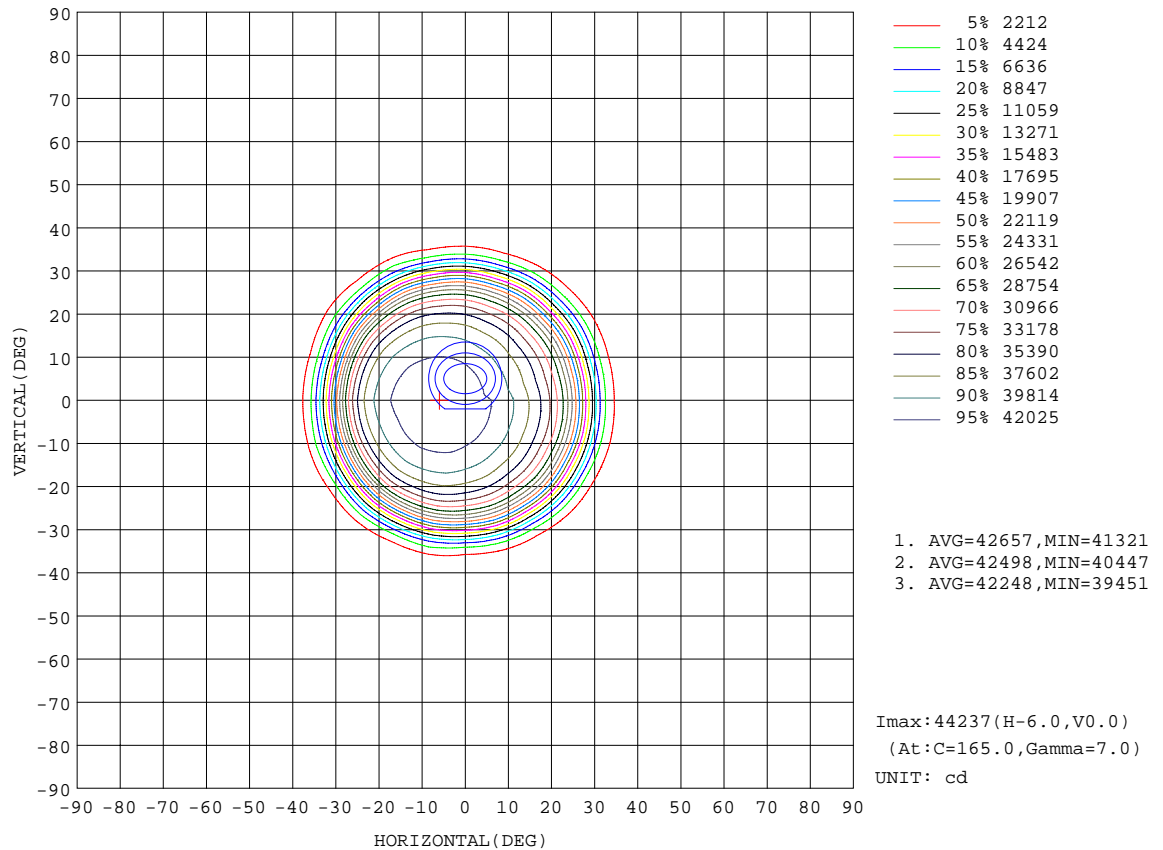
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 89 | 83 | 79 | 89 | 83 | 79 | 88 | 82 | 79 | 76 |
| 0.80 | 96 | 91 | 87 | 95 | 90 | 87 | 94 | 90 | 86 | 83 |
| 1.00 | 100 | 95 | 91 | 99 | 94 | 91 | 98 | 94 | 90 | 87 |
| 1.25 | 104 | 99 | 96 | 103 | 98 | 95 | 101 | 97 | 94 | 90 |
| 1.50 | 106 | 102 | 99 | 105 | 101 | 98 | 103 | 100 | 97 | 93 |
| 2.00 | 109 | 105 | 102 | 107 | 104 | 101 | 105 | 102 | 99 | 94 |
| 2.50 | 111 | 107 | 104 | 109 | 106 | 103 | 106 | 103 | 101 | 95 |
| 3.00 | 112 | 109 | 106 | 110 | 107 | 105 | 107 | 105 | 103 | 96 |
| 4.00 | 114 | 111 | 109 | 112 | 110 | 108 | 108 | 107 | 105 | 98 |
| 5.00 | 115 | 113 | 111 | 113 | 111 | 110 | 109 | 108 | 107 | 99 |
| 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:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: ϕ 263mm | Shielding Angle: |

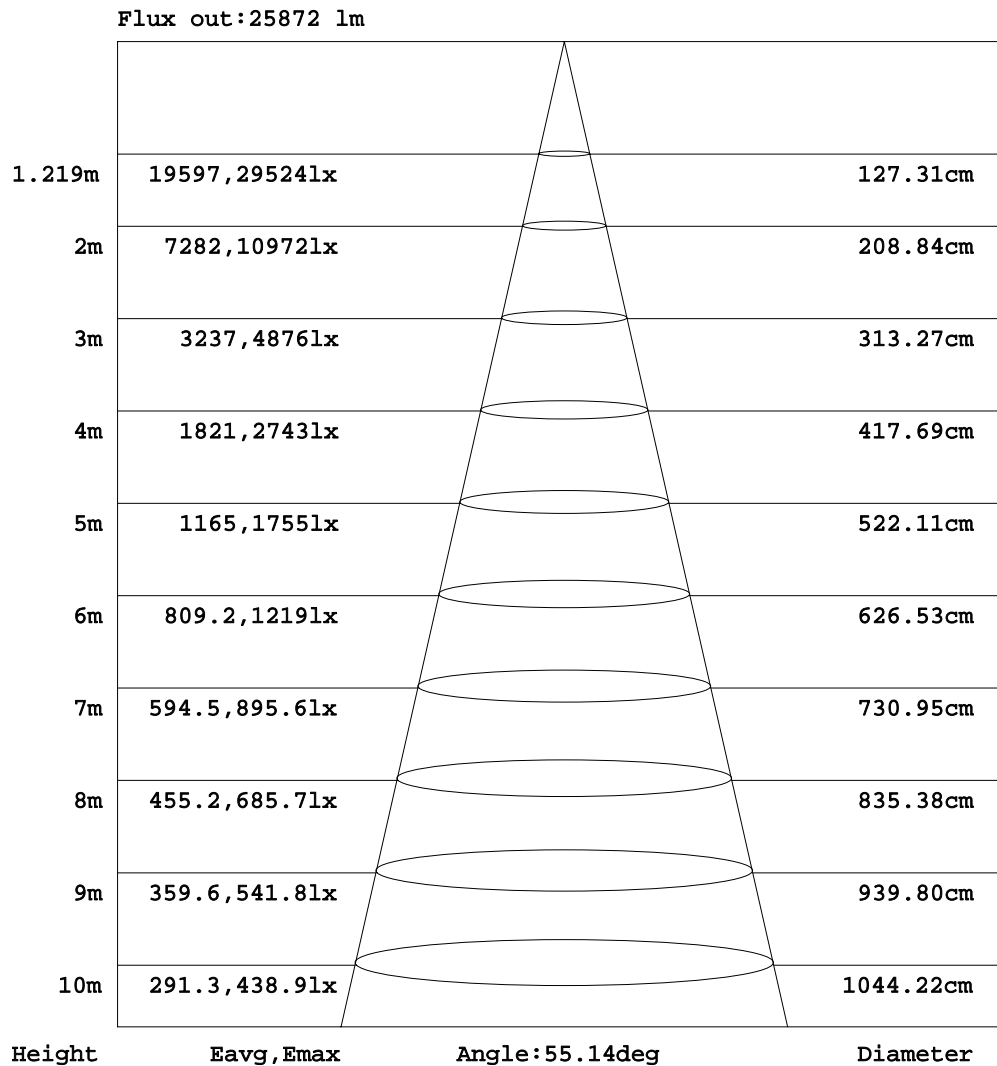


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | Shielding Angle: |



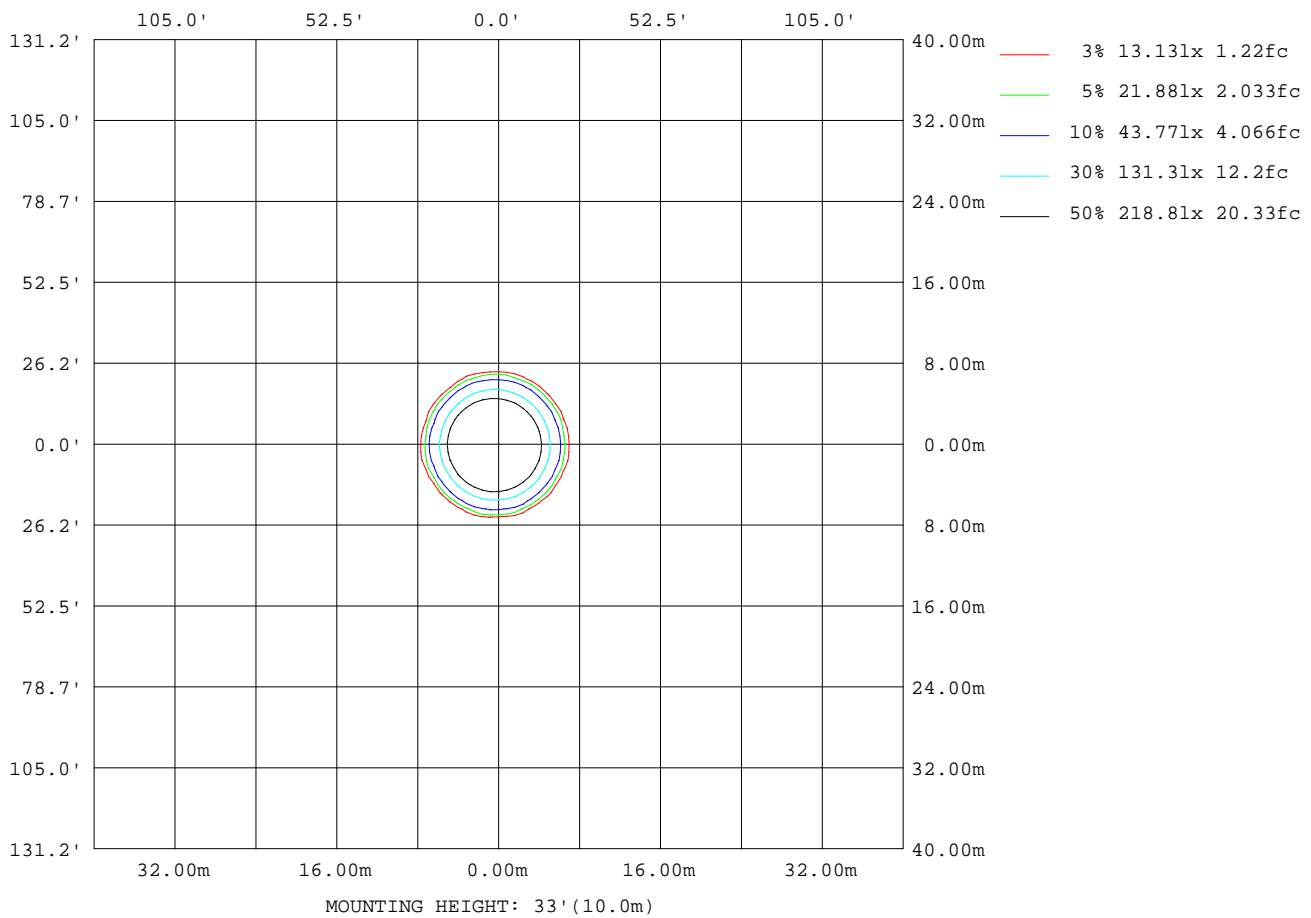
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:yanyonggeng
 Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: Φ 263mm | Shielding Angle: |

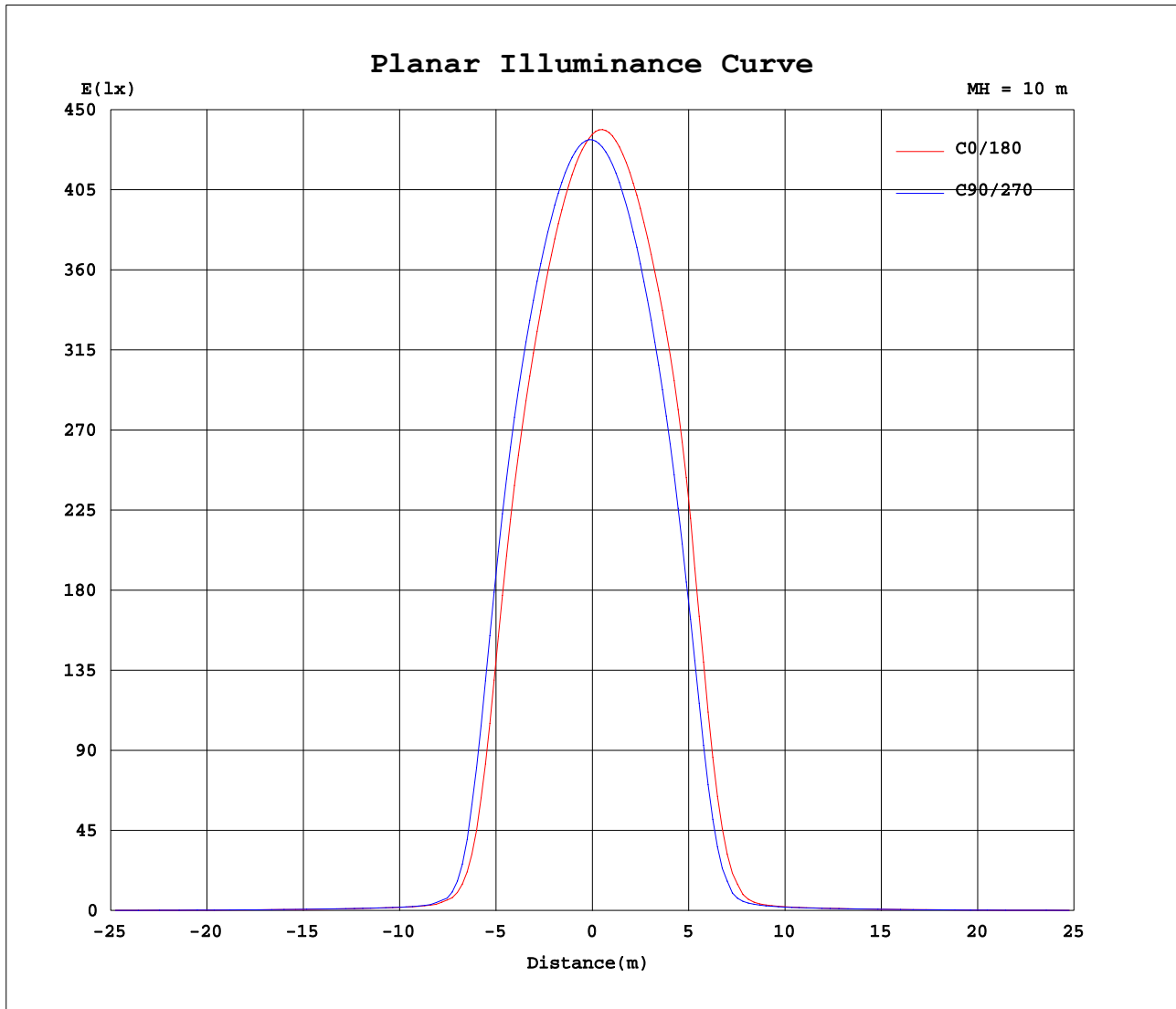
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 13401 |
| L_0~180 (75) av | 11859 |
| L_0~180 (85) av | 4859 |
| L_90~270 (65) av | 13213 |
| L_90~270 (75) av | 11623 |
| L_90~270 (85) av | 5099 |
| L_45 (65) av | 13734 |
| L_45 (75) av | 11574 |
| L_45 (85) av | 4825 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yanyonggeng
Test Date: 2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|--------------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.: ϕ 263mm | Shielding Angle: |

Table--1

UNIT: $\times 10\text{cd}$

| C (DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 | 4336 |
| 5 | 4210 | 4219 | 4232 | 4252 | 4271 | 4298 | 4319 | 4346 | 4365 | 4384 | 4392 | 4398 | 4394 | 4384 | 4371 | 4350 | 4329 | 4304 | 4283 |
| 10 | 4016 | 4033 | 4056 | 4094 | 4129 | 4180 | 4225 | 4277 | 4315 | 4352 | 4369 | 4379 | 4372 | 4350 | 4326 | 4283 | 4241 | 4196 | 4155 |
| 15 | 3718 | 3749 | 3781 | 3842 | 3894 | 3971 | 4038 | 4115 | 4170 | 4228 | 4252 | 4269 | 4263 | 4231 | 4191 | 4126 | 4061 | 3989 | 3927 |
| 20 | 3254 | 3302 | 3344 | 3429 | 3500 | 3610 | 3697 | 3811 | 3889 | 3973 | 4011 | 4043 | 4039 | 3992 | 3933 | 3831 | 3733 | 3622 | 3530 |
| 25 | 2366 | 2417 | 2492 | 2616 | 2716 | 2887 | 2999 | 3161 | 3261 | 3394 | 3443 | 3510 | 3515 | 3436 | 3349 | 3189 | 3062 | 2892 | 2772 |
| 30 | 967 | 1024 | 1086 | 1203 | 1284 | 1497 | 1602 | 1802 | 1877 | 2036 | 2047 | 2129 | 2137 | 2011 | 1984 | 1818 | 1732 | 1536 | 1431 |
| 35 | 185 | 199 | 197 | 221 | 227 | 304 | 302 | 436 | 404 | 490 | 503 | 564 | 571 | 516 | 499 | 415 | 432 | 302 | 302 |
| 40 | 68.4 | 69.5 | 69.0 | 71.0 | 71.4 | 74.6 | 76.7 | 82.6 | 85.6 | 93.6 | 101 | 103 | 105 | 105 | 99.2 | 99.5 | 87.1 | 80.8 | 78.7 |
| 45 | 51.9 | 52.2 | 52.1 | 51.9 | 51.8 | 52.1 | 53.4 | 55.3 | 55.9 | 57.8 | 58.9 | 60.4 | 60.7 | 60.4 | 60.8 | 58.4 | 57.5 | 55.7 | 55.7 |
| 50 | 46.4 | 46.2 | 46.7 | 46.7 | 47.1 | 46.3 | 47.8 | 48.8 | 48.9 | 49.9 | 50.9 | 51.4 | 51.1 | 50.9 | 52.1 | 50.0 | 49.8 | 48.6 | 49.3 |
| 55 | 42.1 | 41.7 | 42.8 | 42.8 | 43.7 | 42.5 | 44.1 | 44.5 | 44.6 | 46.0 | 46.6 | 46.8 | 46.1 | 45.6 | 47.7 | 45.2 | 45.8 | 44.0 | 44.7 |
| 60 | 36.1 | 35.9 | 37.0 | 37.4 | 37.9 | 36.9 | 37.7 | 38.4 | 38.8 | 40.4 | 40.4 | 40.5 | 40.0 | 39.3 | 41.4 | 39.6 | 40.4 | 38.1 | 38.2 |
| 65 | 29.2 | 29.3 | 29.8 | 30.4 | 30.4 | 29.8 | 30.1 | 30.9 | 31.4 | 32.9 | 32.4 | 32.6 | 32.3 | 31.9 | 33.2 | 32.4 | 32.9 | 30.9 | 30.5 |
| 70 | 22.7 | 22.5 | 22.9 | 23.2 | 23.0 | 22.6 | 23.2 | 23.9 | 24.4 | 25.3 | 24.9 | 25.1 | 25.1 | 25.0 | 25.7 | 25.1 | 25.2 | 23.7 | 23.5 |
| 75 | 15.4 | 15.2 | 15.2 | 15.3 | 15.3 | 15.1 | 16.1 | 16.5 | 16.8 | 17.6 | 17.1 | 17.5 | 17.9 | 17.6 | 18.0 | 17.1 | 17.3 | 16.3 | 16.6 |
| 80 | 7.84 | 7.89 | 6.46 | 7.67 | 6.89 | 7.78 | 8.64 | 9.05 | 8.57 | 9.44 | 8.50 | 9.80 | 10.6 | 9.93 | 9.12 | 9.03 | 8.79 | 8.72 | 9.18 |
| 85 | 1.39 | 1.09 | 1.25 | 1.61 | 1.53 | 1.41 | 2.20 | 1.91 | 2.34 | 2.96 | 2.47 | 2.32 | 3.21 | 2.33 | 2.52 | 2.78 | 2.41 | 1.85 | 2.63 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: yanyonggeng
Test Date: 2024-8-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------------|------------------|
| Test:U:219.2V I:0.9212A P:199.9W PF:0.9900 Freq:50.01Hz Lamp Flux:32185.3x1 lm | | |
| NAME: AOK HBE | TYPE: | WEIGHT: |
| SPEC.:AOK-200WHBE-NV-L2-00-5080-60D-P | DIM.: | SERIAL No.: |
| MFR.: AOK | SUR.:Φ263mm | Shielding Angle: |

Table--2

UNIT: ×10cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 4336 | 4336 | 4336 | 4336 | 4336 | | | | | | | | | | | | | |
| 5 | 4260 | 4242 | 4224 | 4216 | 4210 | | | | | | | | | | | | | |
| 10 | 4105 | 4074 | 4042 | 4025 | 4013 | | | | | | | | | | | | | |
| 15 | 3852 | 3805 | 3752 | 3730 | 3711 | | | | | | | | | | | | | |
| 20 | 3422 | 3358 | 3286 | 3261 | 3240 | | | | | | | | | | | | | |
| 25 | 2616 | 2511 | 2418 | 2399 | 2346 | | | | | | | | | | | | | |
| 30 | 1243 | 1171 | 1050 | 1016 | 961 | | | | | | | | | | | | | |
| 35 | 231 | 222 | 198 | 200 | 187 | | | | | | | | | | | | | |
| 40 | 74.5 | 73.1 | 70.6 | 70.4 | 68.7 | | | | | | | | | | | | | |
| 45 | 54.3 | 53.4 | 52.7 | 52.4 | 51.8 | | | | | | | | | | | | | |
| 50 | 48.2 | 47.6 | 47.5 | 47.2 | 46.7 | | | | | | | | | | | | | |
| 55 | 43.3 | 43.3 | 43.6 | 43.1 | 42.6 | | | | | | | | | | | | | |
| 60 | 37.0 | 37.4 | 37.8 | 37.4 | 36.6 | | | | | | | | | | | | | |
| 65 | 29.5 | 30.1 | 30.4 | 30.1 | 29.4 | | | | | | | | | | | | | |
| 70 | 22.8 | 22.9 | 23.0 | 22.5 | 22.4 | | | | | | | | | | | | | |
| 75 | 15.7 | 15.3 | 15.1 | 14.9 | 14.9 | | | | | | | | | | | | | |
| 80 | 8.21 | 7.06 | 7.17 | 6.61 | 7.10 | | | | | | | | | | | | | |
| 85 | 1.39 | 1.81 | 1.78 | 1.50 | 0.92 | | | | | | | | | | | | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2024-8-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks: