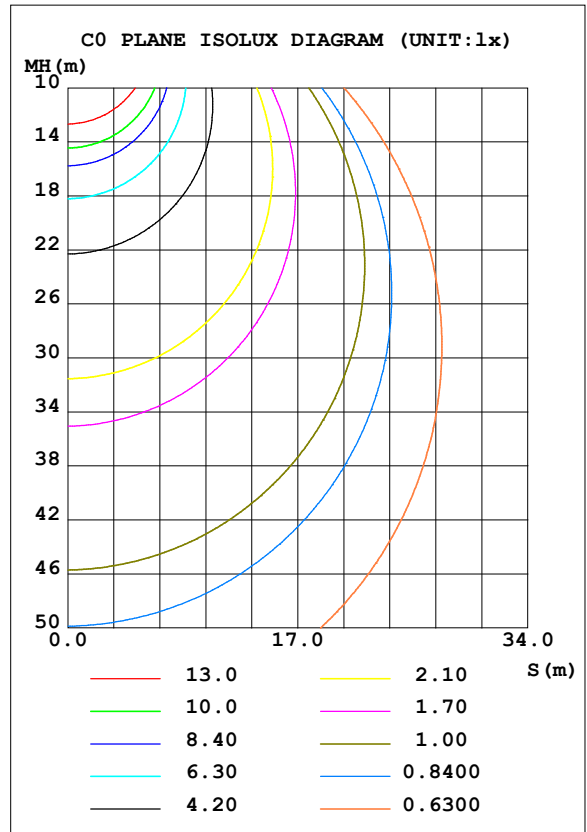
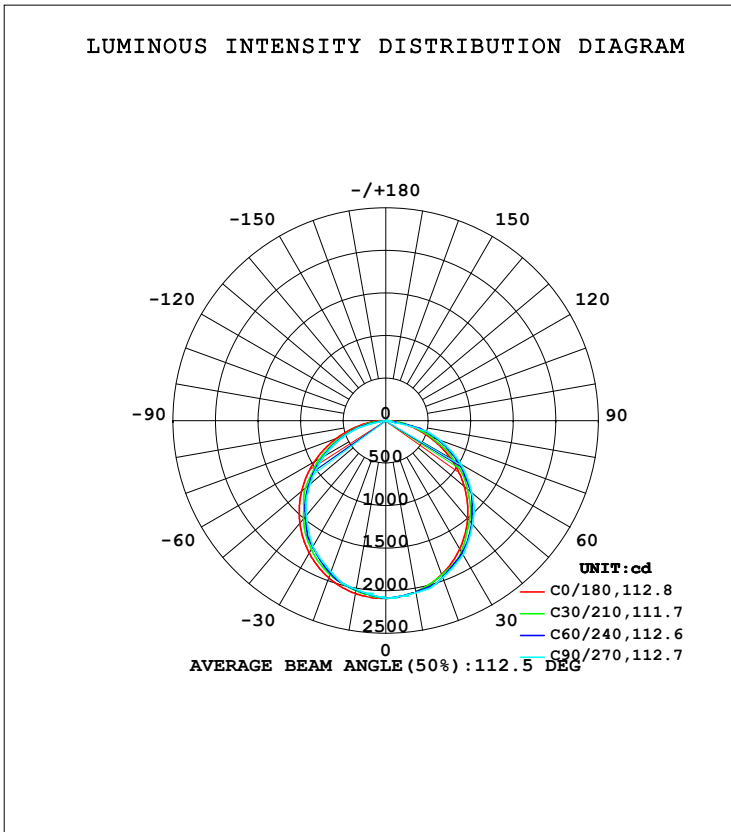


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 121.32 lm/W | | | |
|-------------------|--------|-----------------------------------|--------|---------------------|-----------|
| MODEL | | I _{max} (cd) | 2090 | S/MH (C0/180) | 1.28 |
| NOMINAL POWER (W) | 50 | LOR (%) | 100.0 | S/MH (C90/270) | 1.22 |
| RATED VOLTAGE (V) | | TOTAL FLUX (lm) | 5868.1 | η UP, DN (C0-180) | 0.0, 51.8 |
| NOMINAL FLUX (lm) | 5868.1 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 0.0, 48.2 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE (V) | 120 | η down (%) | 100.0 | CIBSE SHR MAX | 1.35 |



H(β) Range: -90 - 90 DEG
 H(β) Interval: 1.0 DEG
 Test Speed: HIGH
 Temperature: 31.3 DEG
 Operators: qinlizhi
 Test Date: 2019-10-09

V(B) Range: -75 - 75 DEG
 V(B) Interval: 5.0 DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 54%
 Test Distance: 8.200m [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 | 2042 | 2041 | 2053 | 2050 | 2064 | 2023 | 2014 | 2015 | 0- 10 | 196.3 | 196.3 | 3.35,3.35 |
| 20 | 1924 | 1961 | 1963 | 1974 | 1965 | 1921 | 1889 | 1909 | 10- 20 | 562.9 | 759.2 | 12.9,12.9 |
| 30 | 1740 | 1774 | 1819 | 1802 | 1799 | 1727 | 1714 | 1701 | 20- 30 | 853.1 | 1612 | 27.5,27.5 |
| 40 | 1497 | 1556 | 1588 | 1600 | 1571 | 1503 | 1454 | 1464 | 30- 40 | 1031 | 2643 | 45,45 |
| 50 | 1206 | 1268 | 1320 | 1319 | 1292 | 1205 | 1163 | 1160 | 40- 50 | 1071 | 3714 | 63.3,63.3 |
| 60 | 876.1 | 954.7 | 1016 | 994.1 | 970.2 | 873.8 | 840.7 | 837.7 | 50- 60 | 967.9 | 4682 | 79.8,79.8 |
| 70 | 526.4 | 619.8 | 675.8 | 635.7 | 621.3 | 524.6 | 501.1 | 508.5 | 60- 70 | 736.3 | 5418 | 92.3,92.3 |
| 80 | 207.6 | 249.9 | 0 | 253.6 | 285.8 | 173.0 | 0 | 173.4 | 70- 80 | 403.5 | 5822 | 99.2,99.2 |
| 90 | 15.02 | 0 | 0 | 0 | 37.30 | 0 | 0 | 0 | 80- 90 | 46.38 | 5868 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 3182.1 lm

%lum = 54.2%

%lamp = 54.2%

Conical surface Flux(120deg): 4681.9 lm

%lum = 79.8%

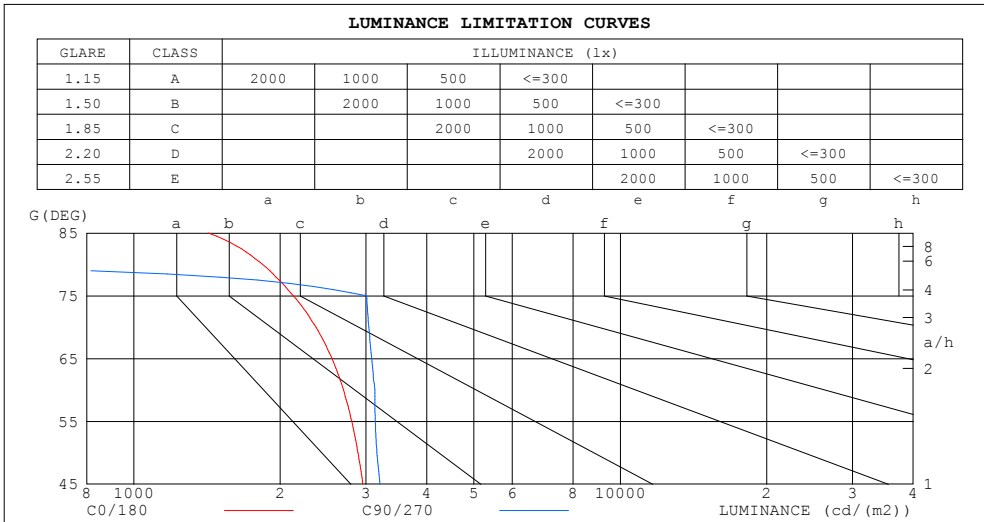
%lamp = 79.8%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 1422 | 0 |
| 80 | 1841 | 0 |
| 75 | 2129 | 3009 |
| 70 | 2369 | 3042 |
| 65 | 2555 | 3083 |
| 60 | 2697 | 3129 |
| 55 | 2806 | 3136 |
| 50 | 2889 | 3161 |
| 45 | 2956 | 3206 |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | 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 | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .299 | .170 | .054 | .292 | .166 | .053 | .278 | .160 | .051 | .266 | .154 | .049 | .255 | .148 | .048 | |
| 2.0 | .286 | .157 | .048 | .280 | .154 | .048 | .268 | .149 | .046 | .258 | .144 | .045 | .248 | .140 | .044 | |
| 3.0 | .267 | .142 | .043 | .261 | .140 | .042 | .251 | .136 | .041 | .241 | .132 | .041 | .233 | .129 | .040 | |
| 4.0 | .247 | .128 | .038 | .242 | .127 | .037 | .233 | .124 | .037 | .225 | .121 | .036 | .217 | .118 | .036 | |
| 5.0 | .229 | .117 | .034 | .225 | .115 | .034 | .217 | .113 | .033 | .209 | .110 | .033 | .202 | .108 | .032 | |
| 6.0 | .213 | .107 | .031 | .209 | .105 | .030 | .202 | .103 | .030 | .195 | .101 | .030 | .188 | .099 | .029 | |
| 7.0 | .198 | .098 | .028 | .195 | .097 | .028 | .188 | .095 | .027 | .182 | .093 | .027 | .176 | .092 | .027 | |
| 8.0 | .185 | .090 | .025 | .182 | .090 | .025 | .176 | .088 | .025 | .171 | .087 | .025 | .166 | .085 | .025 | |
| 9.0 | .174 | .084 | .023 | .171 | .083 | .023 | .166 | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 | |
| 10.0 | .163 | .078 | .022 | .161 | .078 | .022 | .156 | .076 | .022 | .152 | .075 | .021 | .148 | .074 | .021 | |

| 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 | .180 | .156 | .135 | .154 | .134 | .116 | .105 | .092 | .081 | .060 | .053 | .047 | .019 | .017 | .015 | |
| 2.0 | .171 | .132 | .099 | .147 | .114 | .085 | .101 | .079 | .060 | .058 | .046 | .035 | .019 | .015 | .011 | |
| 3.0 | .164 | .114 | .075 | .140 | .099 | .065 | .096 | .068 | .045 | .056 | .040 | .027 | .018 | .013 | .009 | |
| 4.0 | .156 | .101 | .059 | .134 | .087 | .051 | .092 | .061 | .036 | .053 | .036 | .021 | .017 | .012 | .007 | |
| 5.0 | .149 | .091 | .047 | .128 | .078 | .041 | .088 | .055 | .029 | .051 | .032 | .017 | .016 | .010 | .006 | |
| 6.0 | .142 | .082 | .039 | .122 | .071 | .034 | .084 | .050 | .024 | .049 | .029 | .014 | .016 | .010 | .005 | |
| 7.0 | .135 | .075 | .033 | .116 | .065 | .029 | .080 | .046 | .021 | .047 | .027 | .012 | .015 | .009 | .004 | |
| 8.0 | .129 | .069 | .029 | .111 | .060 | .025 | .077 | .042 | .018 | .045 | .025 | .011 | .014 | .008 | .004 | |
| 9.0 | .123 | .065 | .025 | .106 | .056 | .022 | .073 | .039 | .016 | .043 | .023 | .009 | .014 | .008 | .003 | |
| 10.0 | .117 | .060 | .022 | .101 | .052 | .020 | .070 | .037 | .014 | .041 | .022 | .008 | .013 | .007 | .003 | |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | | | | | | | | | |
|---|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| NAME: ASD-ELP07-24A50CC-STD (4000) | | | | | TYPE:50W 4000K | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: ASD Lighting corp | | | | | SUR.:1.16x0.56m | | | 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 | 16.6 | 18.1 | 16.9 | 18.3 | 18.5 | 17.1 | 18.7 | 17.4 | 18.9 | 19.1 |
| 3H | 18.0 | 19.4 | 18.3 | 19.6 | 19.8 | 18.9 | 20.3 | 19.2 | 20.5 | 20.7 |
| 4H | 18.5 | 19.8 | 18.8 | 20.0 | 20.3 | 19.6 | 20.9 | 19.9 | 21.2 | 21.5 |
| 6H | 18.8 | 20.0 | 19.1 | 20.3 | 20.6 | 19.7 | 21.0 | 20.0 | 21.2 | 21.5 |
| 8H | 18.9 | 20.1 | 19.2 | 20.3 | 20.6 | 19.7 | 20.9 | 20.0 | 21.1 | 21.4 |
| 12H | 18.9 | 20.1 | 19.3 | 20.4 | 20.7 | 19.6 | 20.8 | 20.0 | 21.1 | 21.4 |
| 4H 2H | 17.3 | 18.6 | 17.6 | 18.9 | 19.1 | 17.7 | 19.1 | 18.0 | 19.3 | 19.6 |
| 3H | 18.9 | 20.0 | 19.2 | 20.3 | 20.6 | 19.7 | 20.8 | 20.0 | 21.1 | 21.4 |
| 4H | 19.5 | 20.5 | 19.9 | 20.9 | 21.2 | 20.6 | 21.6 | 20.9 | 21.9 | 22.3 |
| 6H | 19.9 | 20.8 | 20.3 | 21.2 | 21.6 | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 |
| 8H | 20.0 | 20.9 | 20.5 | 21.3 | 21.7 | 20.7 | 21.5 | 21.1 | 21.9 | 22.3 |
| 12H | 20.1 | 20.9 | 20.6 | 21.3 | 21.7 | 20.6 | 21.4 | 21.0 | 21.8 | 22.2 |
| 8H 4H | 19.9 | 20.7 | 20.3 | 21.1 | 21.5 | 20.8 | 21.7 | 21.2 | 22.1 | 22.4 |
| 6H | 20.5 | 21.2 | 20.9 | 21.6 | 22.0 | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 |
| 8H | 20.7 | 21.3 | 21.2 | 21.8 | 22.2 | 21.0 | 21.6 | 21.4 | 22.0 | 22.5 |
| 12H | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 | 20.9 | 21.5 | 21.4 | 21.9 | 22.4 |
| 12H 4H | 19.9 | 20.7 | 20.3 | 21.0 | 21.4 | 20.8 | 21.6 | 21.2 | 22.0 | 22.4 |
| 6H | 20.5 | 21.1 | 20.9 | 21.5 | 22.0 | 21.0 | 21.7 | 21.5 | 22.1 | 22.5 |
| 8H | 20.7 | 21.3 | 21.2 | 21.7 | 22.2 | 21.0 | 21.5 | 21.5 | 22.0 | 22.5 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.1 / - 0.3 | | | | |
| 2.0H | + 0.3 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117, 5868 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.1$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

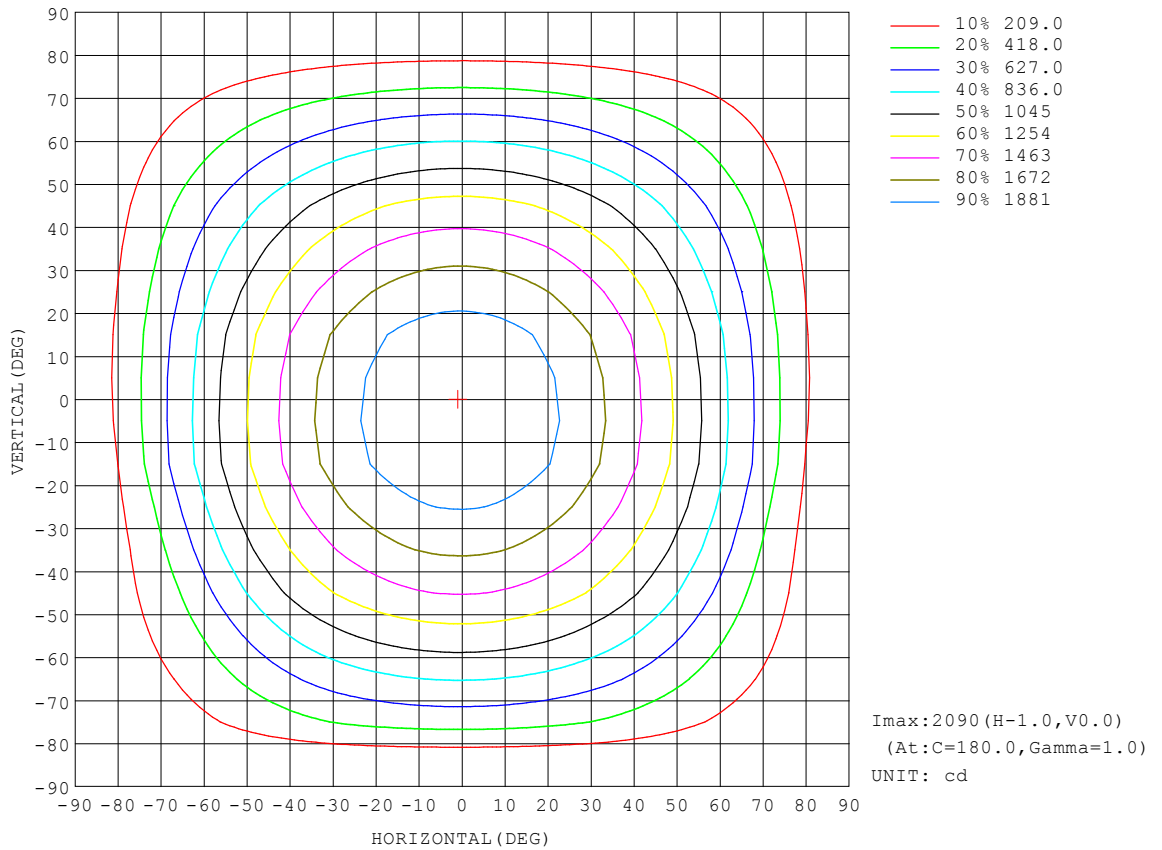
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 58 | 46 | 39 | 57 | 46 | 39 | 56 | 45 | 39 | 32 |
| 0.80 | 68 | 56 | 49 | 67 | 56 | 49 | 65 | 55 | 48 | 41 |
| 1.00 | 76 | 65 | 58 | 75 | 65 | 58 | 73 | 66 | 57 | 50 |
| 1.25 | 83 | 73 | 66 | 82 | 72 | 66 | 79 | 71 | 65 | 58 |
| 1.50 | 89 | 79 | 72 | 87 | 78 | 71 | 84 | 76 | 70 | 63 |
| 2.00 | 95 | 87 | 81 | 94 | 86 | 80 | 90 | 84 | 78 | 71 |
| 2.50 | 99 | 92 | 86 | 97 | 90 | 85 | 94 | 88 | 83 | 75 |
| 3.00 | 103 | 96 | 91 | 101 | 94 | 90 | 97 | 92 | 87 | 79 |
| 4.00 | 107 | 101 | 97 | 104 | 99 | 95 | 100 | 96 | 93 | 84 |
| 5.00 | 109 | 104 | 101 | 107 | 103 | 99 | 102 | 99 | 96 | 87 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

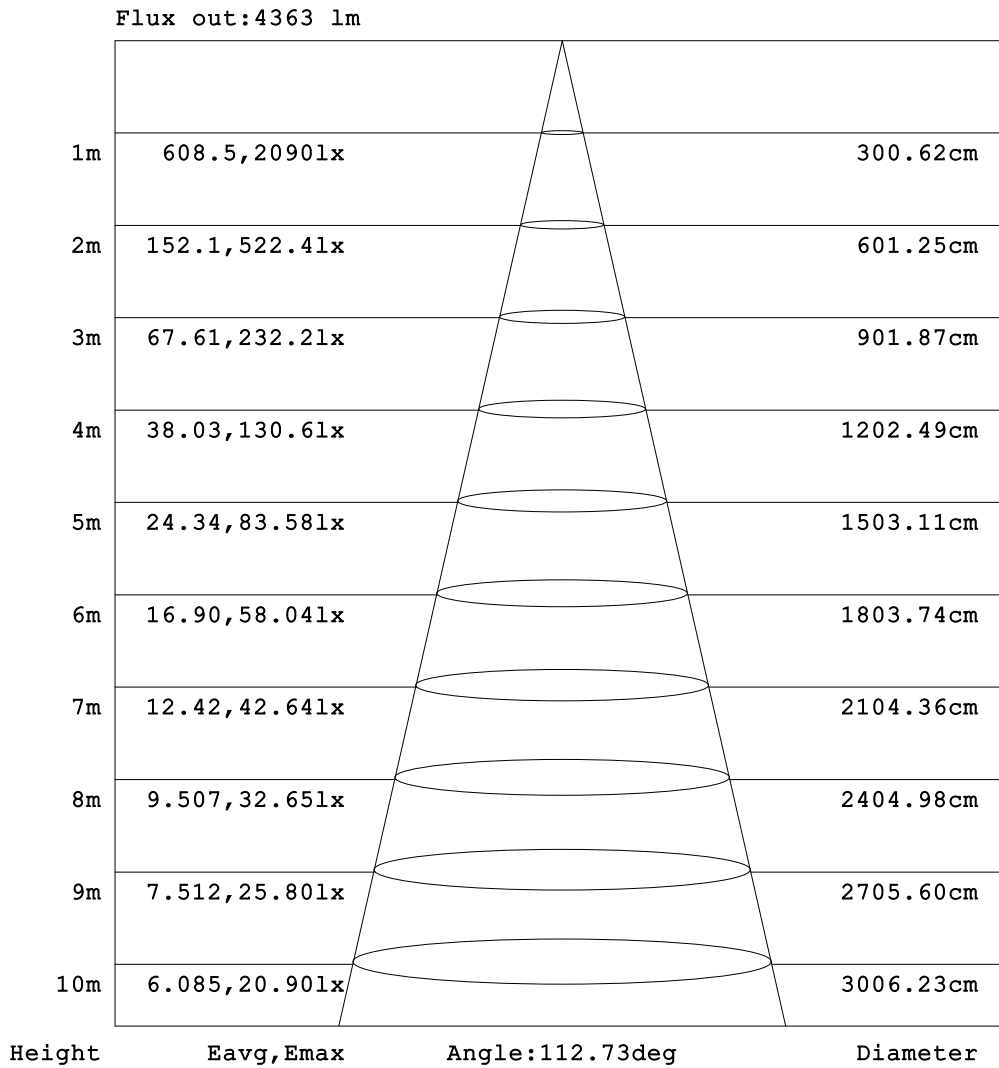


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

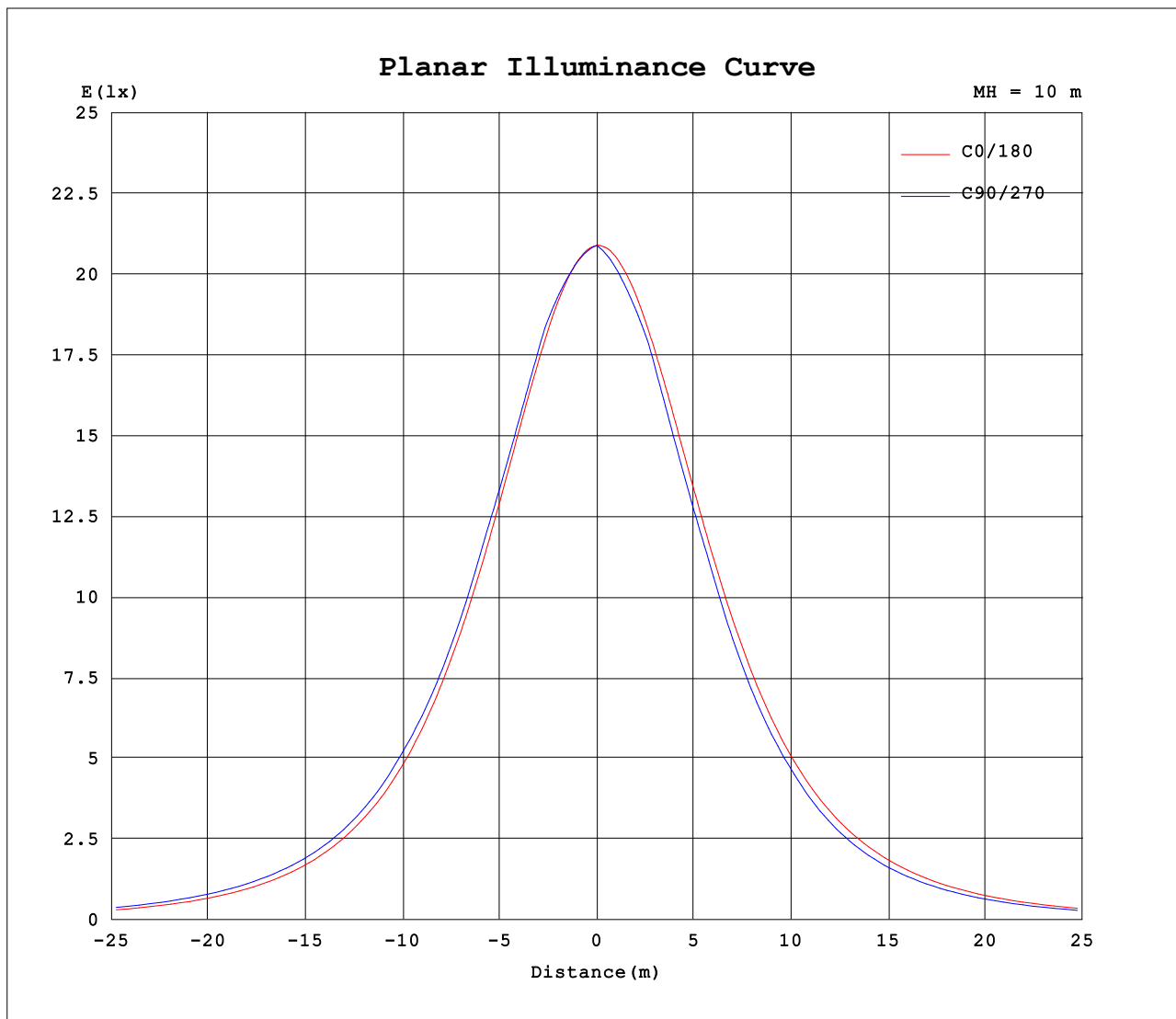


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 |
| 5 | 2074 | 2073 | 2072 | 2071 | 2071 | 2070 | 2070 | 2070 | 2070 | 2070 | 2070 | 2070 | 2070 | 2070 | 2071 | 2071 | 2071 | 2071 | 2072 |
| 10 | 2042 | 2040 | 2039 | 2039 | 2040 | 2040 | 2041 | 2041 | 2041 | 2041 | 2042 | 2043 | 2044 | 2045 | 2047 | 2049 | 2050 | 2051 | 2053 |
| 15 | 1992 | 1991 | 1991 | 1993 | 1994 | 1993 | 1992 | 1993 | 1995 | 2000 | 2006 | 2012 | 2017 | 2022 | 2026 | 2030 | 2032 | 2034 | 2035 |
| 20 | 1924 | 1924 | 1927 | 1929 | 1926 | 1925 | 1928 | 1939 | 1950 | 1961 | 1964 | 1960 | 1958 | 1957 | 1957 | 1958 | 1959 | 1961 | 1963 |
| 25 | 1840 | 1843 | 1849 | 1845 | 1842 | 1850 | 1866 | 1884 | 1876 | 1870 | 1867 | 1871 | 1875 | 1880 | 1884 | 1886 | 1889 | 1891 | 1892 |
| 30 | 1740 | 1746 | 1750 | 1743 | 1750 | 1772 | 1779 | 1769 | 1765 | 1774 | 1783 | 1790 | 1794 | 1798 | 1803 | 1808 | 1812 | 1817 | 1819 |
| 35 | 1626 | 1636 | 1634 | 1628 | 1656 | 1662 | 1649 | 1656 | 1671 | 1677 | 1681 | 1688 | 1692 | 1695 | 1698 | 1700 | 1702 | 1703 | 1704 |
| 40 | 1497 | 1513 | 1503 | 1517 | 1538 | 1519 | 1533 | 1548 | 1550 | 1556 | 1563 | 1569 | 1571 | 1572 | 1574 | 1577 | 1581 | 1585 | 1588 |
| 45 | 1358 | 1380 | 1358 | 1400 | 1380 | 1392 | 1406 | 1408 | 1418 | 1428 | 1425 | 1427 | 1435 | 1446 | 1455 | 1462 | 1468 | 1471 | 1473 |
| 50 | 1206 | 1226 | 1221 | 1238 | 1235 | 1253 | 1255 | 1271 | 1269 | 1268 | 1286 | 1303 | 1308 | 1308 | 1309 | 1311 | 1314 | 1317 | 1320 |
| 55 | 1045 | 1060 | 1081 | 1059 | 1091 | 1089 | 1106 | 1097 | 1118 | 1140 | 1135 | 1134 | 1141 | 1149 | 1156 | 1161 | 1165 | 1167 | 1169 |
| 60 | 876 | 883 | 907 | 912 | 906 | 923 | 918 | 956 | 951 | 955 | 970 | 983 | 987 | 993 | 998 | 1004 | 1009 | 1013 | 1016 |
| 65 | 701 | 706 | 703 | 712 | 731 | 730 | 751 | 754 | 781 | 794 | 802 | 811 | 821 | 828 | 835 | 839 | 843 | 845 | 846 |
| 70 | 526 | 551 | 539 | 538 | 539 | 542 | 572 | 585 | 596 | 620 | 639 | 647 | 652 | 657 | 662 | 666 | 670 | 673 | 676 |
| 75 | 358 | 354 | 340 | 355 | 361 | 382 | 397 | 426 | 436 | 446 | 459 | 474 | 483 | 490 | 495 | 499 | 502 | 505 | 506 |
| 80 | 208 | 194 | 210 | 221 | 227 | 238 | 245 | 263 | 278 | 250 | 208 | 167 | 126 | 89.7 | 58.4 | 33.3 | 14.9 | 3.76 | 0.00 |
| 85 | 80.5 | 96.4 | 103 | 107 | 104 | 50.4 | 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 |
| 90 | 15.0 | 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 |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 |
| 5 | 2072 | 2072 | 2072 | 2072 | 2072 | 2073 | 2073 | 2074 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2082 | 2083 | 2085 | 2082 |
| 10 | 2053 | 2054 | 2054 | 2054 | 2053 | 2053 | 2052 | 2051 | 2050 | 2049 | 2048 | 2047 | 2049 | 2050 | 2053 | 2056 | 2059 | 2064 | 2056 |
| 15 | 2035 | 2034 | 2033 | 2031 | 2029 | 2027 | 2024 | 2022 | 2020 | 2018 | 2014 | 2011 | 2007 | 2005 | 2006 | 2011 | 2016 | 2023 | 2012 |
| 20 | 1964 | 1966 | 1968 | 1969 | 1971 | 1972 | 1973 | 1975 | 1974 | 1969 | 1965 | 1963 | 1957 | 1950 | 1944 | 1947 | 1955 | 1965 | 1949 |
| 25 | 1892 | 1892 | 1892 | 1892 | 1892 | 1893 | 1895 | 1898 | 1897 | 1897 | 1898 | 1892 | 1889 | 1883 | 1873 | 1867 | 1877 | 1890 | 1869 |
| 30 | 1820 | 1821 | 1820 | 1817 | 1814 | 1808 | 1801 | 1800 | 1802 | 1807 | 1806 | 1804 | 1800 | 1798 | 1789 | 1775 | 1781 | 1799 | 1772 |
| 35 | 1705 | 1706 | 1707 | 1709 | 1712 | 1717 | 1722 | 1711 | 1699 | 1692 | 1697 | 1701 | 1694 | 1691 | 1692 | 1673 | 1670 | 1693 | 1660 |
| 40 | 1590 | 1591 | 1591 | 1591 | 1588 | 1585 | 1584 | 1590 | 1600 | 1590 | 1571 | 1572 | 1581 | 1570 | 1568 | 1559 | 1544 | 1571 | 1532 |
| 45 | 1473 | 1472 | 1470 | 1468 | 1466 | 1465 | 1463 | 1454 | 1446 | 1453 | 1467 | 1440 | 1435 | 1443 | 1430 | 1437 | 1404 | 1438 | 1392 |
| 50 | 1322 | 1325 | 1326 | 1326 | 1326 | 1325 | 1322 | 1319 | 1319 | 1305 | 1294 | 1315 | 1292 | 1290 | 1288 | 1287 | 1263 | 1292 | 1249 |
| 55 | 1169 | 1169 | 1169 | 1168 | 1168 | 1170 | 1170 | 1165 | 1158 | 1152 | 1149 | 1126 | 1147 | 1120 | 1138 | 1123 | 1113 | 1136 | 1098 |
| 60 | 1018 | 1018 | 1017 | 1014 | 1010 | 1003 | 996 | 994 | 994 | 982 | 963 | 965 | 942 | 966 | 937 | 956 | 959 | 970 | 943 |
| 65 | 847 | 846 | 846 | 845 | 844 | 843 | 842 | 828 | 808 | 791 | 790 | 768 | 760 | 743 | 768 | 784 | 795 | 797 | 778 |
| 70 | 677 | 678 | 677 | 675 | 672 | 667 | 658 | 645 | 636 | 625 | 598 | 574 | 573 | 548 | 536 | 550 | 595 | 621 | 587 |
| 75 | 506 | 505 | 504 | 502 | 500 | 497 | 490 | 481 | 467 | 446 | 419 | 407 | 382 | 371 | 348 | 358 | 405 | 447 | 422 |
| 80 | 3.77 | 15.0 | 33.6 | 59.1 | 91.1 | 128 | 169 | 212 | 254 | 282 | 270 | 258 | 236 | 224 | 213 | 207 | 206 | 286 | 249 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 49.3 | 103 | 117 | 115 | 110 | 146 | 107 |
| 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 | 37.3 | 0.00 |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

Table--3

UNIT: cd

| C (DEG) γ (DEG) | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 |
| 5 | 2078 | 2075 | 2072 | 2070 | 2067 | 2065 | 2063 | 2061 | 2059 | 2058 | 2056 | 2055 | 2054 | 2054 | 2053 | 2053 | 2053 | 2053 | 2053 |
| 10 | 2049 | 2043 | 2037 | 2033 | 2029 | 2026 | 2025 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2017 | 2016 | 2014 | 2013 | 2012 |
| 15 | 2001 | 1992 | 1986 | 1983 | 1982 | 1982 | 1982 | 1980 | 1979 | 1978 | 1977 | 1978 | 1978 | 1978 | 1978 | 1979 | 1979 | 1977 | 1976 |
| 20 | 1935 | 1925 | 1924 | 1925 | 1926 | 1923 | 1921 | 1921 | 1918 | 1912 | 1908 | 1903 | 1900 | 1897 | 1894 | 1892 | 1889 | 1888 | 1887 |
| 25 | 1851 | 1849 | 1852 | 1850 | 1846 | 1845 | 1838 | 1833 | 1829 | 1821 | 1815 | 1810 | 1807 | 1805 | 1804 | 1803 | 1803 | 1801 | 1801 |
| 30 | 1756 | 1761 | 1761 | 1755 | 1749 | 1745 | 1739 | 1727 | 1719 | 1715 | 1716 | 1717 | 1718 | 1718 | 1717 | 1715 | 1714 | 1711 | 1709 |
| 35 | 1651 | 1660 | 1649 | 1643 | 1640 | 1627 | 1614 | 1614 | 1618 | 1623 | 1612 | 1602 | 1595 | 1590 | 1587 | 1585 | 1584 | 1584 | 1584 |
| 40 | 1535 | 1533 | 1523 | 1523 | 1504 | 1494 | 1503 | 1503 | 1486 | 1474 | 1469 | 1466 | 1463 | 1461 | 1459 | 1456 | 1454 | 1451 | 1450 |
| 45 | 1411 | 1392 | 1392 | 1373 | 1367 | 1381 | 1358 | 1341 | 1341 | 1340 | 1336 | 1331 | 1328 | 1326 | 1325 | 1325 | 1324 | 1323 | 1322 |
| 50 | 1259 | 1247 | 1236 | 1225 | 1235 | 1205 | 1202 | 1205 | 1195 | 1190 | 1185 | 1181 | 1176 | 1172 | 1169 | 1165 | 1163 | 1161 | 1160 |
| 55 | 1093 | 1098 | 1069 | 1081 | 1050 | 1057 | 1047 | 1038 | 1034 | 1031 | 1023 | 1016 | 1010 | 1007 | 1004 | 1003 | 1002 | 1002 | 1001 |
| 60 | 928 | 908 | 925 | 892 | 898 | 881 | 880 | 874 | 861 | 852 | 850 | 849 | 848 | 846 | 844 | 843 | 841 | 839 | 837 |
| 65 | 768 | 757 | 727 | 729 | 717 | 715 | 697 | 693 | 693 | 692 | 686 | 681 | 677 | 675 | 673 | 672 | 671 | 671 | 671 |
| 70 | 566 | 556 | 557 | 556 | 536 | 533 | 533 | 525 | 517 | 514 | 513 | 511 | 508 | 506 | 504 | 502 | 501 | 500 | 500 |
| 75 | 404 | 390 | 388 | 376 | 373 | 362 | 362 | 360 | 356 | 350 | 345 | 340 | 337 | 334 | 333 | 332 | 331 | 332 | 333 |
| 80 | 237 | 228 | 226 | 220 | 219 | 210 | 201 | 173 | 141 | 111 | 83.4 | 59.1 | 38.4 | 21.9 | 9.82 | 2.47 | 0.00 | 2.47 | 9.82 |
| 85 | 101 | 96.5 | 78.9 | 39.2 | 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 |
| 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 |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:31.3DEG
Operators:qinlizhi
Test Date:2019-10-09

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:54%
Test Distance:8.200m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-----------------|------------------|
| Test:U:121.5V I:0.4006A P:48.37W PF:0.9936 Freq:60.00Hz Lamp Flux:5868.1x1 lm | | |
| NAME: ASD-ELP07-24A50CC-STD (4000) | TYPE:50W 4000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ASD Lighting corp | SUR.:1.16x0.56m | Shielding Angle: |

Table--4

UNIT: cd

| C (DEG) γ (DEG) | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 0 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | 2090 | | | | |
| 5 | 2053 | 2053 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2061 | 2062 | 2064 | 2066 | 2069 | 2071 | | | | |
| 10 | 2012 | 2011 | 2011 | 2011 | 2012 | 2013 | 2015 | 2017 | 2019 | 2023 | 2025 | 2027 | 2030 | 2033 | 2037 | | | | |
| 15 | 1974 | 1973 | 1971 | 1969 | 1966 | 1963 | 1961 | 1959 | 1961 | 1965 | 1969 | 1975 | 1979 | 1982 | 1986 | | | | |
| 20 | 1888 | 1889 | 1892 | 1895 | 1900 | 1907 | 1909 | 1903 | 1897 | 1892 | 1895 | 1901 | 1910 | 1914 | 1918 | | | | |
| 25 | 1800 | 1800 | 1799 | 1798 | 1798 | 1799 | 1807 | 1818 | 1832 | 1821 | 1812 | 1811 | 1822 | 1833 | 1835 | | | | |
| 30 | 1707 | 1705 | 1703 | 1703 | 1705 | 1703 | 1701 | 1699 | 1709 | 1726 | 1728 | 1715 | 1716 | 1732 | 1737 | | | | |
| 35 | 1585 | 1586 | 1587 | 1589 | 1592 | 1591 | 1593 | 1595 | 1589 | 1591 | 1613 | 1616 | 1598 | 1614 | 1626 | | | | |
| 40 | 1449 | 1449 | 1451 | 1456 | 1461 | 1462 | 1464 | 1467 | 1473 | 1468 | 1465 | 1493 | 1484 | 1481 | 1502 | | | | |
| 45 | 1320 | 1317 | 1314 | 1310 | 1309 | 1316 | 1327 | 1327 | 1328 | 1336 | 1334 | 1332 | 1362 | 1334 | 1368 | | | | |
| 50 | 1160 | 1162 | 1166 | 1173 | 1175 | 1168 | 1160 | 1171 | 1184 | 1180 | 1190 | 1184 | 1199 | 1195 | 1213 | | | | |
| 55 | 1001 | 1001 | 1000 | 999 | 1001 | 1010 | 1024 | 1014 | 1008 | 1028 | 1024 | 1038 | 1020 | 1053 | 1046 | | | | |
| 60 | 836 | 836 | 837 | 839 | 843 | 841 | 838 | 847 | 863 | 845 | 863 | 858 | 875 | 880 | 869 | | | | |
| 65 | 671 | 671 | 671 | 670 | 668 | 671 | 676 | 680 | 673 | 687 | 684 | 696 | 691 | 685 | 691 | | | | |
| 70 | 500 | 501 | 503 | 505 | 509 | 511 | 509 | 504 | 511 | 517 | 510 | 522 | 534 | 539 | 539 | | | | |
| 75 | 334 | 335 | 337 | 340 | 341 | 343 | 346 | 351 | 357 | 350 | 354 | 353 | 365 | 364 | 362 | | | | |
| 80 | 21.9 | 38.4 | 59.1 | 83.5 | 111 | 141 | 173 | 200 | 203 | 204 | 210 | 210 | 217 | 221 | 222 | | | | |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 39.5 | 79.9 | 85.5 | 90.8 | 97.5 | | | |
| 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 | | | | |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:31.3DEG
 Operators:qinlizhi
 Test Date:2019-10-09

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:54%
 Test Distance:8.200m [K=1.0000]
 Remarks: