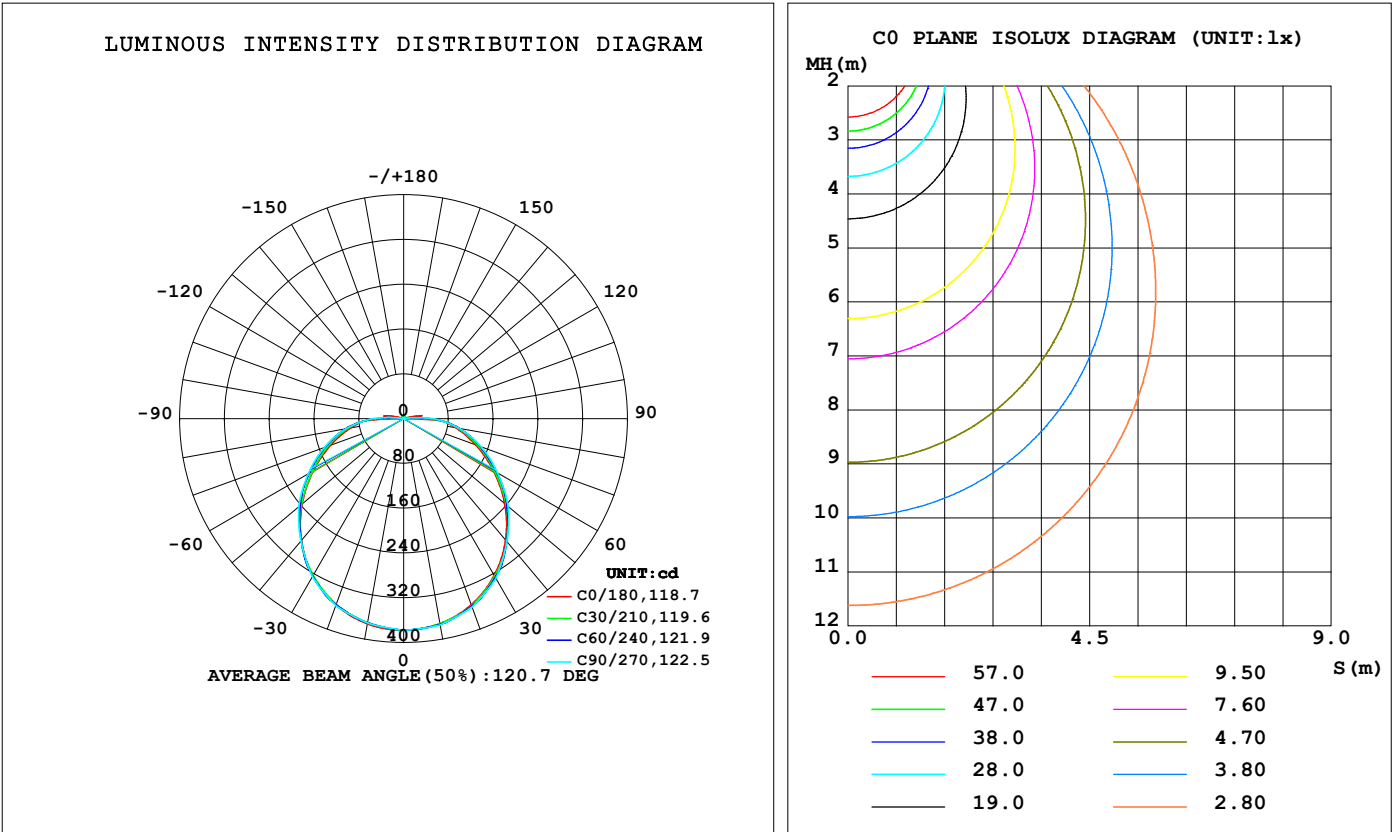


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 95.19 lm/W |
|------------------|-----------------|------------------|--------|--------------------|----------|-----------------|
| MODEL | ABH14R2TB 4000K | Imax (cd) | 378.1 | S/MH (C0/180) | 1.27 | |
| NOMINAL POWER(W) | 13.7 | LOR (%) | 100.0 | S/MH (C90/270) | 1.28 | |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 1300.4 | η UP,DN (C0-180) | 1.5,48.4 | |
| NOMINAL FLUX(lm) | 1300.43 | CIE CLASS | DIRECT | η UP,DN (C180-360) | 1.5,48.5 | |
| LAMPS INSIDE | 1 | η up (%) | 3.1 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE (V) | 230 | η down (%) | 96.9 | CIBSE SHR MAX | 1.35 | |



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [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 | 372.1 | 372.3 | 374.3 | 372.5 | 372.2 | 370.0 | 370.8 | 369.8 | 0- 10 | 35.73 | 35.73 | 2.75,2.75 |
| 20 | 353.7 | 355.2 | 358.0 | 355.5 | 354.0 | 352.5 | 355.2 | 352.2 | 10- 20 | 102.9 | 138.6 | 10.7,10.7 |
| 30 | 323.7 | 327.0 | 329.7 | 327.2 | 324.1 | 324.8 | 326.1 | 324.3 | 20- 30 | 157.3 | 295.9 | 22.8,22.8 |
| 40 | 283.5 | 288.0 | 286.7 | 288.7 | 284.2 | 286.0 | 285.4 | 284.9 | 30- 40 | 191.8 | 487.7 | 37.5,37.5 |
| 50 | 235.6 | 238.7 | 243.8 | 239.2 | 236.8 | 238.5 | 244.7 | 237.4 | 40- 50 | 202.9 | 690.6 | 53.1,53.1 |
| 60 | 185.2 | 191.3 | 193.1 | 191.4 | 186.5 | 192.7 | 196.5 | 191.6 | 50- 60 | 192.7 | 883.3 | 67.9,67.9 |
| 70 | 137.0 | 143.3 | 147.0 | 143.7 | 138.8 | 147.0 | 150.8 | 145.0 | 60- 70 | 165.6 | 1049 | 80.7,80.7 |
| 80 | 94.63 | 100.7 | 100.8 | 100.6 | 96.46 | 104.5 | 105.0 | 102.8 | 70- 80 | 129.0 | 1178 | 90.6,90.6 |
| 90 | 0.8954 | 45.46 | 50.88 | 45.09 | 0.7219 | 48.01 | 52.97 | 46.72 | 80- 90 | 82.79 | 1261 | 96.9,96.9 |
| 100 | 29.65 | 2.105 | 0.9514 | 1.827 | 30.88 | 3.031 | 0.9562 | 2.360 | 90-100 | 25.85 | 1287 | 98.9,98.9 |
| 110 | 2.700 | 1.348 | 1.131 | 1.333 | 1.313 | 1.589 | 1.144 | 1.331 | 100-110 | 5.898 | 1292 | 99.4,99.4 |
| 120 | 2.145 | 1.644 | 1.311 | 2.063 | 3.460 | 2.172 | 1.333 | 1.641 | 110-120 | 1.843 | 1294 | 99.5,99.5 |
| 130 | 1.996 | 1.739 | 1.534 | 1.987 | 2.282 | 1.915 | 1.506 | 1.628 | 120-130 | 1.967 | 1296 | 99.7,99.7 |
| 140 | 1.680 | 1.674 | 1.756 | 1.883 | 1.791 | 1.787 | 1.680 | 1.591 | 130-140 | 1.358 | 1298 | 99.8,99.8 |
| 150 | 1.833 | 1.848 | 2.011 | 2.050 | 1.929 | 1.954 | 1.832 | 1.752 | 140-150 | 1.131 | 1299 | 99.9,99.9 |
| 160 | 2.020 | 2.015 | 2.266 | 2.160 | 2.089 | 2.055 | 1.985 | 1.924 | 150-160 | 0.9085 | 1300 | 99.9,99.9 |
| 170 | 2.152 | 2.136 | 2.237 | 2.183 | 2.207 | 2.136 | 2.100 | 2.091 | 160-170 | 0.5927 | 1300 | 100,100 |
| 180 | 2.207 | 2.207 | 2.207 | 2.207 | 2.214 | 2.214 | 2.214 | 2.214 | 170-180 | 0.2071 | 1300 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 589.15 lm

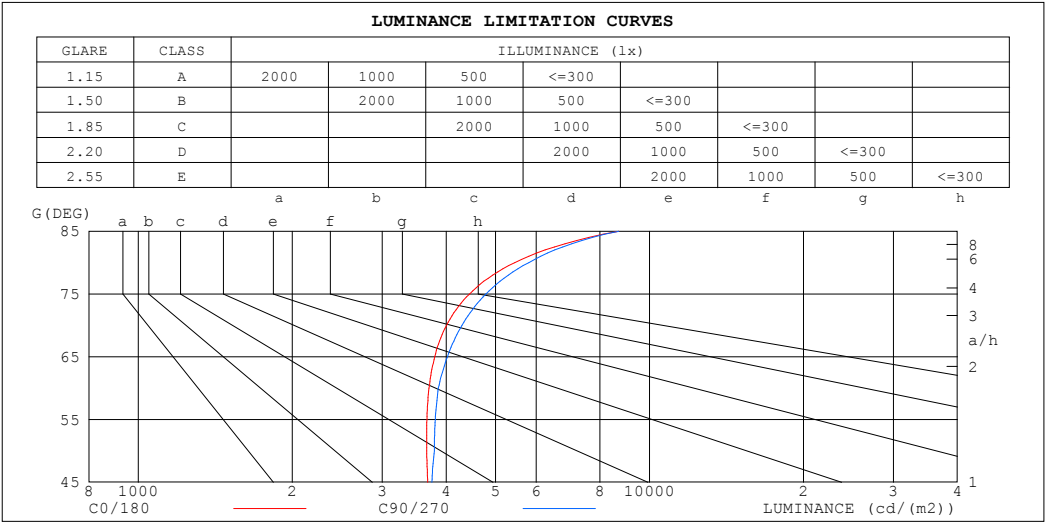
%lum = 45.3%
%lamp = 45.3%

Conical surface Flux(120deg): 883.32 lm

%lum = 67.9%
%lamp = 67.9%

LUMINANCE LIMITATION CURVES

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 8712 | 8702 |
| 80 | 5450 | 5805 |
| 75 | 4444 | 4786 |
| 70 | 4007 | 4297 |
| 65 | 3799 | 4024 |
| 60 | 3705 | 3862 |
| 55 | 3669 | 3809 |
| 50 | 3666 | 3793 |
| 45 | 3681 | 3752 |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | 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 | .374 | .212 | .067 | .365 | .208 | .066 | .350 | .201 | .064 | .336 | .194 | .062 | .323 | .187 | .060 | | | | | | | | | | | | | | | |
| 2.0 | .330 | .181 | .055 | .322 | .178 | .055 | .309 | .172 | .053 | .296 | .166 | .052 | .284 | .161 | .051 | | | | | | | | | | | | | | | |
| 3.0 | .295 | .157 | .047 | .289 | .155 | .047 | .277 | .150 | .046 | .266 | .146 | .045 | .255 | .141 | .044 | | | | | | | | | | | | | | | |
| 4.0 | .267 | .139 | .041 | .262 | .137 | .040 | .251 | .133 | .040 | .241 | .129 | .039 | .231 | .126 | .038 | | | | | | | | | | | | | | | |
| 5.0 | .244 | .124 | .036 | .239 | .123 | .036 | .229 | .119 | .035 | .220 | .116 | .035 | .212 | .113 | .034 | | | | | | | | | | | | | | | |
| 6.0 | .224 | .112 | .032 | .219 | .111 | .032 | .211 | .108 | .031 | .203 | .105 | .031 | .195 | .103 | .030 | | | | | | | | | | | | | | | |
| 7.0 | .207 | .102 | .029 | .203 | .101 | .029 | .195 | .099 | .028 | .188 | .096 | .028 | .181 | .094 | .028 | | | | | | | | | | | | | | | |
| 8.0 | .192 | .094 | .026 | .188 | .093 | .026 | .181 | .091 | .026 | .175 | .089 | .026 | .169 | .087 | .025 | | | | | | | | | | | | | | | |
| 9.0 | .179 | .087 | .024 | .176 | .086 | .024 | .170 | .084 | .024 | .164 | .082 | .023 | .158 | .080 | .023 | | | | | | | | | | | | | | | |
| 10.0 | .168 | .080 | .022 | .165 | .080 | .022 | .159 | .078 | .022 | .154 | .076 | .022 | .149 | .075 | .021 | | | | | | | | | | | | | | | |

| 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 | .214 | .214 | .214 | .183 | .183 | .183 | .125 | .125 | .125 | .072 | .072 | .072 | .023 | .023 | .023 | |
| 1.0 | .208 | .179 | .153 | .178 | .154 | .132 | .122 | .106 | .091 | .070 | .061 | .053 | .022 | .020 | .017 | |
| 2.0 | .201 | .155 | .117 | .172 | .134 | .101 | .118 | .093 | .071 | .068 | .054 | .041 | .022 | .017 | .013 | |
| 3.0 | .193 | .138 | .094 | .166 | .119 | .082 | .114 | .083 | .057 | .066 | .048 | .034 | .021 | .016 | .011 | |
| 4.0 | .185 | .125 | .079 | .159 | .108 | .069 | .109 | .075 | .049 | .063 | .044 | .029 | .020 | .014 | .009 | |
| 5.0 | .177 | .115 | .069 | .152 | .100 | .060 | .105 | .070 | .042 | .061 | .041 | .025 | .020 | .013 | .008 | |
| 6.0 | .170 | .107 | .062 | .146 | .093 | .054 | .101 | .065 | .038 | .058 | .038 | .023 | .019 | .012 | .007 | |
| 7.0 | .163 | .100 | .056 | .140 | .087 | .049 | .097 | .061 | .035 | .056 | .036 | .021 | .018 | .012 | .007 | |
| 8.0 | .156 | .094 | .052 | .134 | .082 | .045 | .093 | .057 | .032 | .054 | .034 | .019 | .017 | .011 | .006 | |
| 9.0 | .149 | .089 | .049 | .129 | .078 | .043 | .089 | .054 | .030 | .052 | .032 | .018 | .017 | .011 | .006 | |
| 10.0 | .143 | .085 | .046 | .124 | .074 | .040 | .086 | .052 | .029 | .050 | .031 | .017 | .016 | .010 | .006 | |

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2023-09-05

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Humidity:65.0%
 Test Distance:9.782m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|------------------|------|------|------|------|------------------|------|------|------|------|
| NAME: ABH14R2TB 4000K | | | | | TYPE: | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | DIM.: | | | | | SERIAL No.: | | | | |
| MFR.: | | | | | SUR.: | | | | | 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 | | | | | 16.2 | 17.7 | 16.5 | 18.0 | 18.3 | 16.4 | 17.9 | 16.7 | 18.2 | 18.5 |
| 3H | | | | | 18.1 | 19.6 | 18.5 | 19.9 | 20.2 | 18.4 | 19.9 | 18.8 | 20.2 | 20.5 |
| 4H | | | | | 19.2 | 20.6 | 19.5 | 20.9 | 21.2 | 19.5 | 20.9 | 19.9 | 21.2 | 21.5 |
| 6H | | | | | 20.2 | 21.5 | 20.6 | 21.9 | 22.2 | 20.6 | 21.9 | 21.0 | 22.2 | 22.6 |
| 8H | | | | | 20.8 | 22.1 | 21.2 | 22.4 | 22.8 | 21.1 | 22.4 | 21.5 | 22.8 | 23.1 |
| 12H | | | | | 21.4 | 22.7 | 21.8 | 23.0 | 23.4 | 21.7 | 23.0 | 22.1 | 23.3 | 23.7 |
| 4H 2H | | | | | 16.9 | 18.3 | 17.3 | 18.6 | 19.0 | 17.1 | 18.5 | 17.4 | 18.8 | 19.1 |
| 3H | | | | | 19.1 | 20.4 | 19.5 | 20.7 | 21.1 | 19.4 | 20.6 | 19.8 | 20.9 | 21.3 |
| 4H | | | | | 20.3 | 21.5 | 20.7 | 21.8 | 22.2 | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 |
| 6H | | | | | 21.6 | 22.6 | 22.0 | 23.0 | 23.4 | 21.9 | 22.9 | 22.3 | 23.3 | 23.8 |
| 8H | | | | | 22.2 | 23.2 | 22.7 | 23.6 | 24.1 | 22.5 | 23.5 | 23.0 | 23.9 | 24.4 |
| 12H | | | | | 23.0 | 23.9 | 23.5 | 24.3 | 24.8 | 23.2 | 24.1 | 23.7 | 24.6 | 25.1 |
| 8H 4H | | | | | 20.8 | 21.8 | 21.3 | 22.2 | 22.7 | 21.1 | 22.0 | 21.5 | 22.5 | 22.9 |
| 6H | | | | | 22.4 | 23.2 | 22.9 | 23.7 | 24.1 | 22.6 | 23.5 | 23.1 | 23.9 | 24.4 |
| 8H | | | | | 23.2 | 24.0 | 23.7 | 24.4 | 25.0 | 23.5 | 24.2 | 24.0 | 24.7 | 25.2 |
| 12H | | | | | 24.2 | 24.8 | 24.7 | 25.3 | 25.9 | 24.4 | 25.0 | 24.9 | 25.5 | 26.1 |
| 12H 4H | | | | | 21.0 | 21.8 | 21.4 | 22.3 | 22.8 | 21.2 | 22.1 | 21.7 | 22.5 | 23.0 |
| 6H | | | | | 22.6 | 23.3 | 23.1 | 23.8 | 24.3 | 22.8 | 23.6 | 23.4 | 24.1 | 24.6 |
| 8H | | | | | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 | 23.8 | 24.4 | 24.3 | 24.9 | 25.5 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | | | | |
| S = 1.0H | | | | | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | | | | | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | | | | | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 1300 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

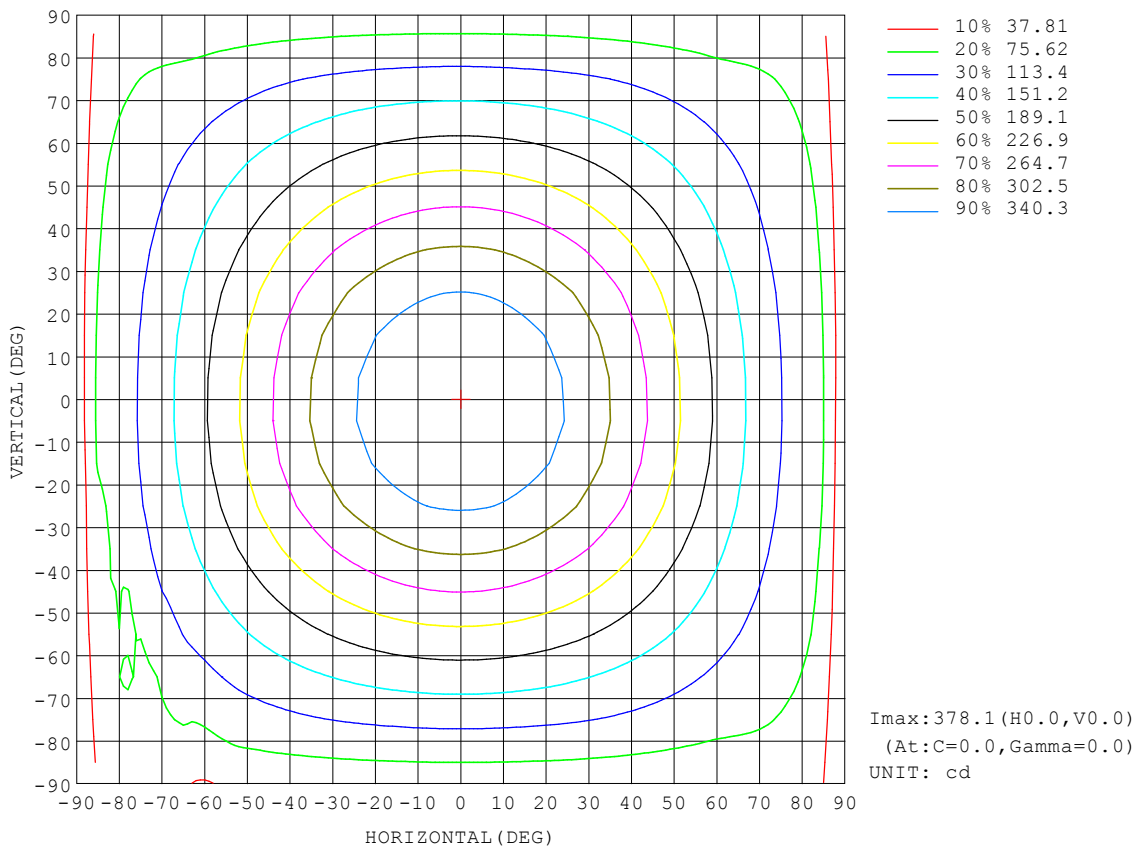
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 54 | 41 | 34 | 53 | 41 | 34 | 51 | 41 | 34 | 27 |
| 0.80 | 63 | 51 | 43 | 62 | 50 | 43 | 60 | 49 | 42 | 35 |
| 1.00 | 71 | 59 | 51 | 70 | 58 | 51 | 67 | 60 | 50 | 42 |
| 1.25 | 78 | 66 | 58 | 76 | 65 | 58 | 73 | 64 | 57 | 49 |
| 1.50 | 83 | 72 | 64 | 81 | 71 | 63 | 78 | 69 | 62 | 54 |
| 2.00 | 90 | 80 | 73 | 88 | 79 | 72 | 84 | 76 | 70 | 61 |
| 2.50 | 94 | 85 | 78 | 92 | 84 | 77 | 88 | 81 | 75 | 65 |
| 3.00 | 98 | 90 | 83 | 95 | 88 | 82 | 91 | 85 | 79 | 70 |
| 4.00 | 102 | 95 | 89 | 100 | 93 | 88 | 95 | 90 | 85 | 75 |
| 5.00 | 105 | 99 | 94 | 102 | 97 | 92 | 97 | 93 | 89 | 78 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:2023-09-05

$V(B)$ Range:-180 - 180DEG
 $V(B)$ Interval: 5.0DEG
 Humidity:65.0%
 Test Distance:9.782m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

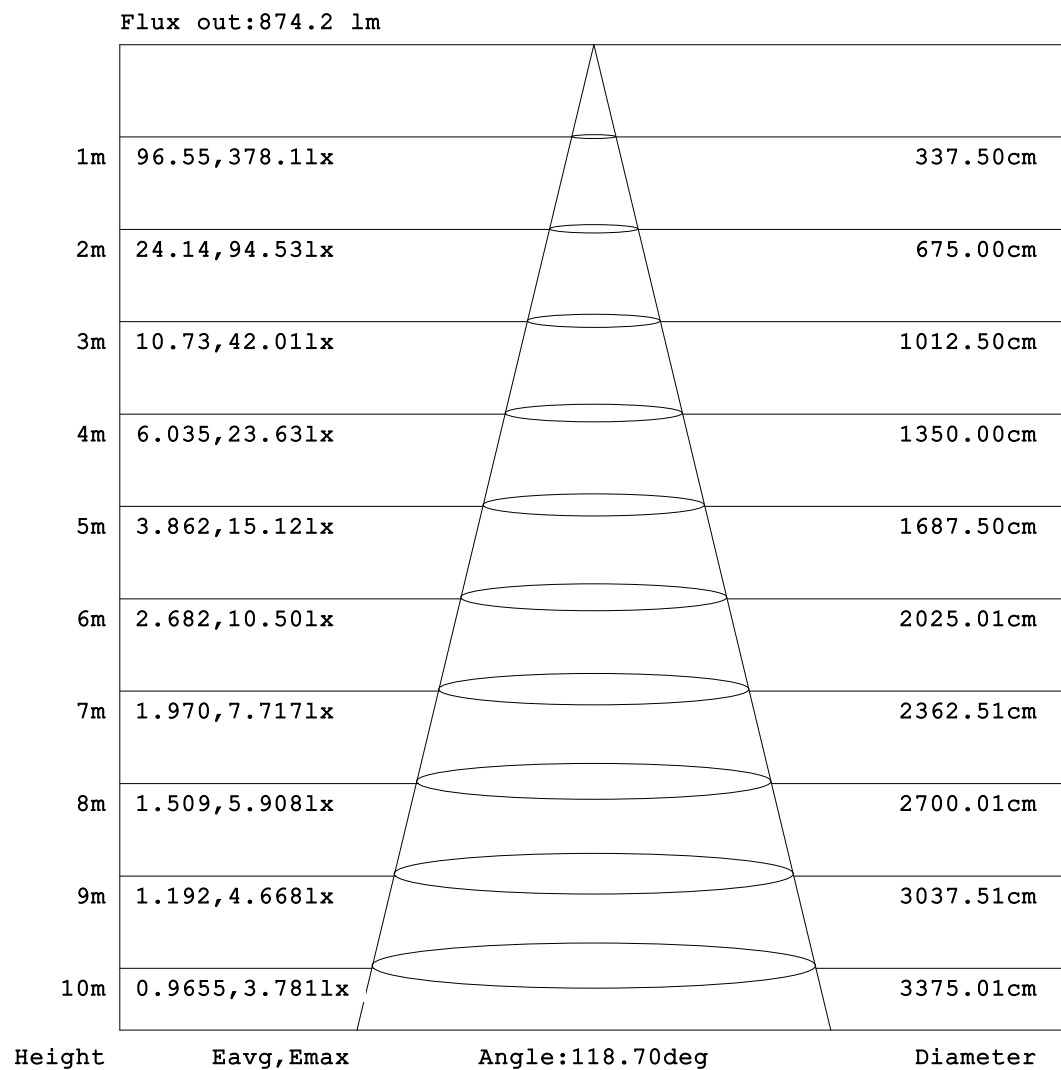
| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| | |
|--------------------------------|---------------------------------|
| H(β) Range:-90 - 90DEG | V(B) Range:-180 - 180DEG |
| H(β) Interval: 1.0DEG | V(B) Interval: 5.0DEG |
| Test Speed: HIGH | |
| Temperature:25.3°C | Humidity:65.0% |
| Operators: | Test Distance:9.782m [K=1.0000] |
| Test Date:2023-09-05 | Remarks: |

AAI Figure

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

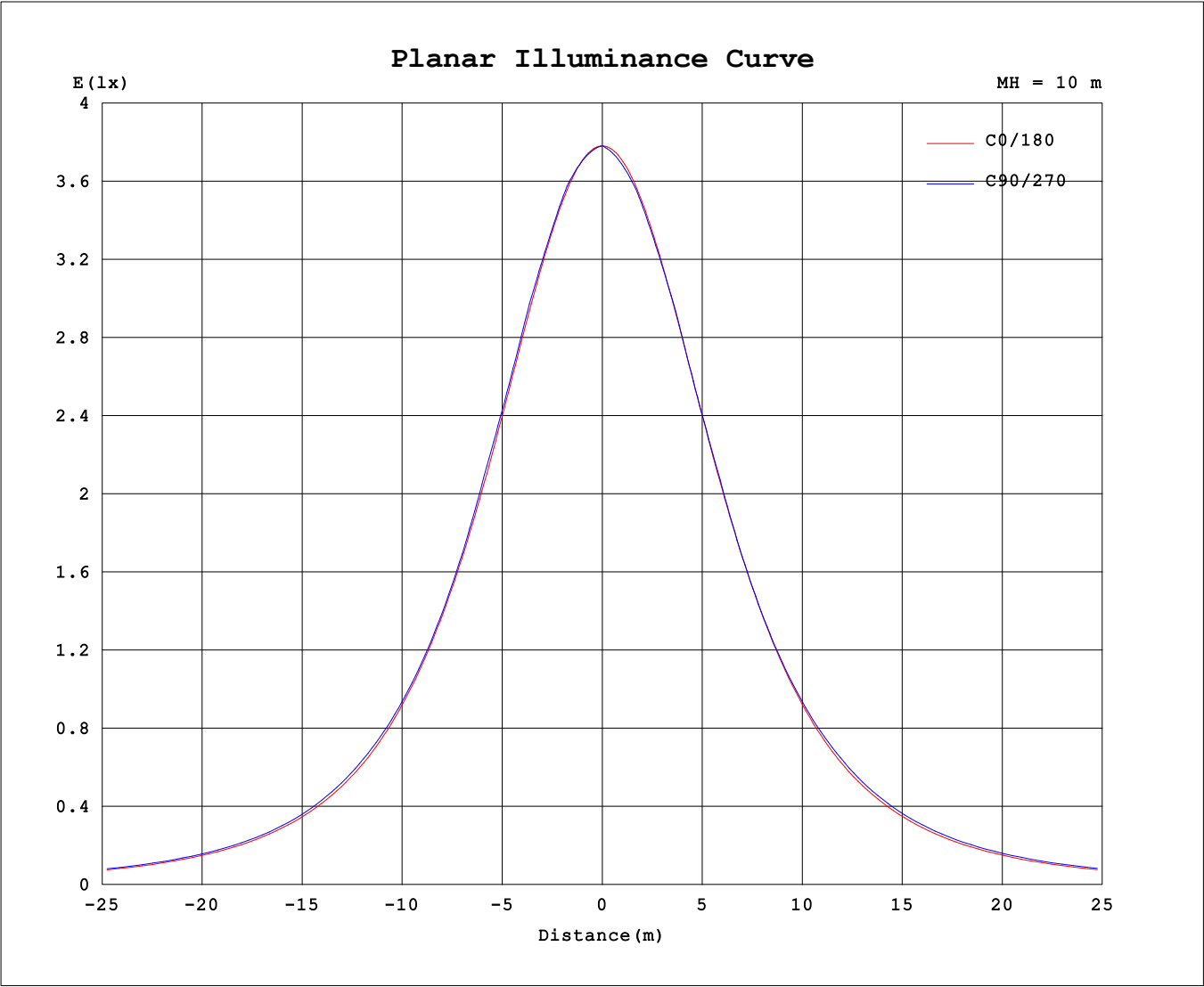


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| Table--1 | | | | | | | | | | | | | | | | | UNIT: cd | | |
| <div>C (DEG) γ (DEG)</div> | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 0 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 |
| 5 | 377 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 |
| 10 | 372 | 372 | 372 | 371 | 371 | 371 | 372 | 372 | 372 | 372 | 373 | 373 | 373 | 373 | 374 | 374 | 374 | 374 | 374 |
| 15 | 364 | 364 | 364 | 364 | 364 | 364 | 365 | 365 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 366 |
| 20 | 354 | 353 | 353 | 353 | 354 | 355 | 355 | 355 | 355 | 355 | 355 | 356 | 356 | 357 | 357 | 357 | 358 | 358 | 358 |
| 25 | 340 | 339 | 339 | 340 | 341 | 341 | 341 | 341 | 342 | 343 | 344 | 344 | 344 | 344 | 344 | 344 | 344 | 344 | 344 |
| 30 | 324 | 323 | 323 | 324 | 325 | 325 | 325 | 326 | 327 | 327 | 327 | 327 | 328 | 328 | 329 | 329 | 329 | 330 | 330 |
| 35 | 305 | 304 | 305 | 306 | 306 | 306 | 308 | 308 | 308 | 308 | 309 | 310 | 309 | 309 | 309 | 308 | 308 | 308 | 308 |
| 40 | 283 | 283 | 284 | 284 | 285 | 286 | 286 | 286 | 287 | 288 | 287 | 287 | 287 | 286 | 286 | 287 | 287 | 287 | 287 |
| 45 | 260 | 260 | 261 | 261 | 263 | 263 | 263 | 264 | 264 | 263 | 263 | 263 | 264 | 264 | 264 | 265 | 265 | 265 | 265 |
| 50 | 236 | 235 | 236 | 237 | 238 | 238 | 239 | 238 | 238 | 239 | 239 | 240 | 241 | 242 | 242 | 243 | 243 | 244 | 244 |
| 55 | 210 | 210 | 211 | 213 | 213 | 213 | 213 | 213 | 214 | 215 | 216 | 217 | 218 | 218 | 218 | 218 | 218 | 218 | 218 |
| 60 | 185 | 185 | 186 | 187 | 188 | 187 | 188 | 189 | 190 | 191 | 192 | 192 | 192 | 192 | 193 | 193 | 193 | 193 | 193 |
| 65 | 161 | 161 | 162 | 163 | 162 | 163 | 164 | 166 | 166 | 166 | 167 | 167 | 168 | 169 | 169 | 169 | 170 | 170 | 170 |
| 70 | 137 | 137 | 138 | 138 | 139 | 141 | 141 | 142 | 143 | 143 | 144 | 145 | 145 | 146 | 146 | 146 | 147 | 147 | 147 |
| 75 | 115 | 116 | 116 | 117 | 118 | 119 | 119 | 120 | 121 | 122 | 122 | 123 | 123 | 124 | 124 | 124 | 124 | 124 | 124 |
| 80 | 94.6 | 95.2 | 95.7 | 96.7 | 97.4 | 98.1 | 98.8 | 99.5 | 100 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| 85 | 75.9 | 76.7 | 77.7 | 78.2 | 78.7 | 79.2 | 79.3 | 77.5 | 76.4 | 75.9 | 75.7 | 75.6 | 75.6 | 75.7 | 75.6 | 75.6 | 75.7 | 75.8 | 75.8 |
| 90 | 0.90 | 37.7 | 61.1 | 60.9 | 55.8 | 47.2 | 40.8 | 42.8 | 44.1 | 45.5 | 46.6 | 47.5 | 48.3 | 49.1 | 49.7 | 50.1 | 50.5 | 50.8 | 50.9 |
| 95 | 1.67 | 7.96 | 14.2 | 44.3 | 34.8 | 16.8 | 1.98 | 8.23 | 12.0 | 15.1 | 17.5 | 19.5 | 21.0 | 22.5 | 23.7 | 24.6 | 25.3 | 25.8 | 25.9 |
| 100 | 29.7 | 29.8 | 28.1 | 30.7 | 27.5 | 16.1 | 6.13 | 3.45 | 2.28 | 2.11 | 1.81 | 1.45 | 0.94 | 0.90 | 0.89 | 0.91 | 0.96 | 0.99 | 0.95 |
| 105 | 11.4 | 11.1 | 13.1 | 13.4 | 15.0 | 14.0 | 8.47 | 2.66 | 1.75 | 1.69 | 1.55 | 1.43 | 1.09 | 1.03 | 1.01 | 1.01 | 1.05 | 1.06 | 1.04 |
| 110 | 2.70 | 2.52 | 3.55 | 3.59 | 4.31 | 6.24 | 4.42 | 1.56 | 1.31 | 1.35 | 1.34 | 1.47 | 1.22 | 1.16 | 1.12 | 1.12 | 1.14 | 1.14 | 1.13 |
| 115 | 1.92 | 1.99 | 2.04 | 1.96 | 1.81 | 2.27 | 2.20 | 2.31 | 1.83 | 1.42 | 1.44 | 1.53 | 1.35 | 1.28 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| 120 | 2.15 | 2.20 | 2.36 | 2.46 | 2.37 | 2.37 | 3.21 | 2.96 | 2.11 | 1.64 | 1.67 | 1.52 | 1.41 | 1.37 | 1.33 | 1.32 | 1.31 | 1.30 | 1.31 |
| 125 | 2.88 | 2.91 | 2.97 | 2.90 | 2.55 | 2.85 | 3.12 | 2.78 | 2.15 | 1.80 | 1.65 | 1.51 | 1.47 | 1.45 | 1.44 | 1.43 | 1.42 | 1.42 | 1.42 |
| 130 | 2.00 | 2.08 | 2.05 | 1.96 | 2.04 | 2.24 | 2.22 | 2.10 | 1.94 | 1.74 | 1.61 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.54 | 1.53 | 1.53 |
| 135 | 1.66 | 1.69 | 1.70 | 1.69 | 1.65 | 1.74 | 1.81 | 1.79 | 1.71 | 1.66 | 1.62 | 1.62 | 1.64 | 1.65 | 1.66 | 1.67 | 1.66 | 1.65 | 1.64 |
| 140 | 1.68 | 1.67 | 1.66 | 1.66 | 1.67 | 1.65 | 1.67 | 1.68 | 1.69 | 1.67 | 1.68 | 1.71 | 1.73 | 1.75 | 1.77 | 1.77 | 1.77 | 1.76 | 1.76 |
| 145 | 1.75 | 1.73 | 1.72 | 1.71 | 1.70 | 1.70 | 1.73 | 1.75 | 1.74 | 1.75 | 1.78 | 1.79 | 1.81 | 1.83 | 1.83 | 1.83 | 1.85 | 1.85 | 1.88 |
| 150 | 1.83 | 1.82 | 1.81 | 1.81 | 1.82 | 1.81 | 1.81 | 1.82 | 1.84 | 1.85 | 1.85 | 1.88 | 1.89 | 1.90 | 1.90 | 1.91 | 1.93 | 1.93 | 2.01 |
| 155 | 1.92 | 1.91 | 1.90 | 1.90 | 1.90 | 1.90 | 1.91 | 1.91 | 1.92 | 1.94 | 1.95 | 1.97 | 1.96 | 1.96 | 1.96 | 2.00 | 2.01 | 2.01 | 2.14 |
| 160 | 2.02 | 2.01 | 2.00 | 1.99 | 1.99 | 1.99 | 1.99 | 1.99 | 2.01 | 2.02 | 2.02 | 2.01 | 2.02 | 2.02 | 2.02 | 2.06 | 2.09 | 2.09 | 2.10 |
| 165 | 2.10 | 2.09 | 2.08 | 2.08 | 2.07 | 2.07 | 2.07 | 2.07 | 2.06 | 2.06 | 2.07 | 2.07 | 2.08 | 2.11 | 2.12 | 2.12 | 2.13 | 2.12 | 2.25 |
| 170 | 2.15 | 2.15 | 2.14 | 2.14 | 2.13 | 2.13 | 2.13 | 2.12 | 2.13 | 2.14 | 2.14 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.16 | 2.16 | 2.24 |
| 175 | 2.21 | 2.20 | 2.20 | 2.20 | 2.20 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.18 | 2.18 | 2.19 | 2.22 |
| 180 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | 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 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | |
| 5 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 377 | 377 | 376 | |
| 10 | 374 | 374 | 374 | 374 | 374 | 373 | 373 | 373 | 373 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | |
| 15 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 367 | 367 | 366 | 365 | 365 | 364 | 364 | 364 | 364 | 365 | 364 | |
| 20 | 358 | 358 | 358 | 357 | 357 | 356 | 356 | 356 | 355 | 355 | 356 | 356 | 355 | 354 | 354 | 353 | 354 | 354 | 353 | |
| 25 | 344 | 344 | 344 | 344 | 344 | 344 | 344 | 344 | 343 | 342 | 342 | 342 | 342 | 342 | 341 | 340 | 340 | 340 | 339 | |
| 30 | 330 | 329 | 329 | 329 | 328 | 328 | 327 | 327 | 327 | 328 | 327 | 326 | 325 | 326 | 325 | 324 | 324 | 324 | 323 | |
| 35 | 308 | 308 | 309 | 309 | 309 | 310 | 311 | 309 | 309 | 308 | 308 | 308 | 307 | 307 | 307 | 306 | 305 | 305 | 304 | |
| 40 | 287 | 287 | 287 | 287 | 287 | 287 | 287 | 288 | 289 | 288 | 287 | 287 | 287 | 286 | 286 | 285 | 284 | 284 | 283 | |
| 45 | 265 | 265 | 265 | 265 | 264 | 264 | 264 | 264 | 264 | 264 | 265 | 264 | 264 | 263 | 262 | 263 | 261 | 261 | 260 | |
| 50 | 244 | 243 | 243 | 242 | 242 | 241 | 240 | 240 | 239 | 239 | 239 | 240 | 239 | 239 | 238 | 238 | 237 | 237 | 236 | |
| 55 | 218 | 218 | 218 | 218 | 218 | 218 | 217 | 216 | 215 | 214 | 214 | 214 | 215 | 214 | 214 | 212 | 212 | 212 | 211 | |
| 60 | 193 | 193 | 193 | 193 | 193 | 192 | 192 | 192 | 191 | 190 | 189 | 189 | 188 | 189 | 188 | 187 | 187 | 187 | 186 | |
| 65 | 170 | 170 | 170 | 169 | 169 | 168 | 168 | 167 | 167 | 166 | 166 | 165 | 164 | 163 | 164 | 163 | 163 | 162 | 162 | |
| 70 | 147 | 147 | 146 | 146 | 146 | 145 | 145 | 144 | 144 | 143 | 143 | 142 | 141 | 140 | 140 | 140 | 139 | 139 | 139 | |
| 75 | 124 | 124 | 124 | 123 | 123 | 123 | 123 | 122 | 122 | 121 | 121 | 119 | 119 | 118 | 117 | 117 | 117 | 117 | 117 | |
| 80 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 100 | 98.8 | 94.6 | 94.3 | 91.4 | 86.4 | 83.6 | 96.9 | 96.5 | 96.7 | |
| 85 | 75.8 | 75.6 | 75.4 | 75.3 | 75.3 | 75.2 | 75.2 | 75.4 | 75.7 | 76.2 | 74.8 | 69.1 | 72.0 | 71.6 | 70.5 | 78.2 | 74.5 | 77.6 | 78.0 | |
| 90 | 50.8 | 50.5 | 50.0 | 49.5 | 48.8 | 48.0 | 47.2 | 46.3 | 45.1 | 43.5 | 41.0 | 35.0 | 43.2 | 52.3 | 60.5 | 61.4 | 40.7 | 0.72 | 44.1 | |
| 95 | 25.8 | 25.3 | 24.6 | 23.6 | 22.4 | 20.8 | 19.1 | 17.3 | 14.7 | 10.9 | 7.78 | 1.58 | 15.8 | 34.1 | 44.7 | 17.8 | 10.8 | 3.19 | 13.6 | |
| 100 | 0.99 | 0.96 | 0.88 | 0.88 | 0.88 | 0.90 | 1.16 | 1.72 | 1.83 | 1.30 | 2.49 | 5.66 | 15.9 | 28.2 | 32.1 | 30.5 | 31.4 | 30.9 | 31.9 | |
| 105 | 1.07 | 1.05 | 0.99 | 1.01 | 1.03 | 1.07 | 1.27 | 1.67 | 1.57 | 1.18 | 1.54 | 6.59 | 13.7 | 14.8 | 13.9 | 14.1 | 13.0 | 12.9 | 13.6 | |
| 110 | 1.15 | 1.14 | 1.11 | 1.13 | 1.16 | 1.23 | 1.39 | 1.73 | 1.33 | 1.20 | 1.59 | 3.06 | 5.44 | 3.79 | 2.34 | 2.95 | 1.56 | 1.31 | 1.84 | |
| 115 | 1.23 | 1.23 | 1.22 | 1.24 | 1.27 | 1.39 | 1.52 | 1.78 | 1.66 | 1.83 | 2.61 | 2.99 | 2.40 | 1.90 | 2.06 | 2.08 | 1.90 | 1.82 | 2.03 | |
| 120 | 1.31 | 1.32 | 1.33 | 1.35 | 1.39 | 1.49 | 1.57 | 1.78 | 2.06 | 2.21 | 3.00 | 4.35 | 3.77 | 3.09 | 3.74 | 3.83 | 3.47 | 3.46 | 3.50 | |
| 125 | 1.42 | 1.44 | 1.45 | 1.47 | 1.50 | 1.56 | 1.64 | 1.79 | 2.05 | 2.38 | 2.93 | 3.21 | 3.40 | 3.23 | 3.14 | 3.43 | 3.56 | 3.45 | 3.76 | |
| 130 | 1.54 | 1.55 | 1.56 | 1.58 | 1.61 | 1.64 | 1.71 | 1.81 | 1.99 | 2.15 | 2.29 | 2.38 | 2.37 | 2.25 | 2.21 | 2.31 | 2.35 | 2.28 | 2.45 | |
| 135 | 1.66 | 1.67 | 1.68 | 1.70 | 1.72 | 1.75 | 1.78 | 1.83 | 1.89 | 1.96 | 2.01 | 2.02 | 1.93 | 1.81 | 1.83 | 1.87 | 1.88 | 1.85 | 1.90 | |
| 140 | 1.77 | 1.78 | 1.79 | 1.80 | 1.82 | 1.84 | 1.85 | 1.87 | 1.88 | 1.91 | 1.92 | 1.91 | 1.87 | 1.84 | 1.83 | 1.82 | 1.82 | 1.79 | 1.79 | |
| 145 | 1.86 | 1.87 | 1.88 | 1.89 | 1.91 | 1.93 | 1.94 | 1.95 | 1.95 | 1.95 | 1.96 | 1.94 | 1.92 | 1.90 | 1.89 | 1.88 | 1.87 | 1.85 | 1.84 | |
| 150 | 1.95 | 1.96 | 1.97 | 1.98 | 2.00 | 2.02 | 2.03 | 2.04 | 2.05 | 2.05 | 2.03 | 2.01 | 1.98 | 1.98 | 1.97 | 1.97 | 1.97 | 1.93 | 1.92 | |
| 155 | 2.05 | 2.05 | 2.06 | 2.07 | 2.08 | 2.10 | 2.13 | 2.13 | 2.12 | 2.11 | 2.09 | 2.08 | 2.07 | 2.06 | 2.06 | 2.04 | 2.03 | 2.00 | 1.99 | |
| 160 | 2.15 | 2.14 | 2.14 | 2.14 | 2.14 | 2.15 | 2.15 | 2.15 | 2.16 | 2.15 | 2.14 | 2.13 | 2.12 | 2.12 | 2.11 | 2.11 | 2.11 | 2.09 | 2.08 | |
| 165 | 2.18 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | 2.17 | 2.17 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.16 | 2.15 | |
| 170 | 2.20 | 2.18 | 2.18 | 2.17 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.19 | 2.19 | 2.19 | 2.20 | 2.20 | 2.20 | 2.20 | 2.21 | 2.20 | |
| 175 | 2.21 | 2.20 | 2.20 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.19 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.21 | 2.21 | 2.21 | |
| 180 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| Table--3 | | | | | | | | | | | | | | | | | | UNIT: cd | |
| <div>C (DEG) γ (DEG)</div> | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 |
| 0 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 |
| 5 | 376 | 376 | 376 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 374 | 374 | 374 | 374 | 374 | 374 | 374 |
| 10 | 371 | 371 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 371 | 371 | 371 | 371 | 371 | 371 | 371 |
| 15 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 |
| 20 | 352 | 352 | 352 | 352 | 353 | 352 | 352 | 353 | 353 | 353 | 354 | 354 | 354 | 355 | 355 | 355 | 355 | 355 | 355 |
| 25 | 339 | 339 | 339 | 339 | 339 | 339 | 340 | 341 | 342 | 341 | 341 | 341 | 341 | 341 | 341 | 341 | 341 | 341 | 341 |
| 30 | 322 | 323 | 323 | 323 | 323 | 324 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 326 | 326 | 326 | 326 | 326 | 326 |
| 35 | 304 | 305 | 304 | 305 | 306 | 306 | 306 | 306 | 307 | 307 | 307 | 306 | 306 | 306 | 306 | 306 | 306 | 306 | 306 |
| 40 | 283 | 283 | 284 | 285 | 285 | 285 | 285 | 286 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 |
| 45 | 261 | 260 | 262 | 262 | 262 | 263 | 262 | 262 | 262 | 263 | 263 | 264 | 264 | 265 | 265 | 265 | 265 | 265 | 265 |
| 50 | 236 | 237 | 237 | 238 | 238 | 238 | 238 | 239 | 239 | 240 | 241 | 242 | 243 | 244 | 244 | 245 | 245 | 245 | 244 |
| 55 | 211 | 212 | 212 | 213 | 213 | 213 | 214 | 215 | 217 | 218 | 219 | 220 | 220 | 220 | 221 | 221 | 221 | 220 | 220 |
| 60 | 186 | 187 | 188 | 188 | 188 | 190 | 191 | 193 | 194 | 194 | 195 | 196 | 196 | 196 | 196 | 197 | 197 | 196 | 196 |
| 65 | 163 | 163 | 163 | 164 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 172 | 173 | 173 | 174 | 174 | 174 | 173 | 173 |
| 70 | 139 | 140 | 141 | 142 | 144 | 145 | 146 | 147 | 148 | 149 | 149 | 150 | 150 | 151 | 151 | 151 | 151 | 151 | 150 |
| 75 | 118 | 118 | 120 | 121 | 123 | 124 | 125 | 125 | 126 | 127 | 127 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 127 |
| 80 | 97.2 | 98.7 | 99.9 | 101 | 102 | 103 | 104 | 105 | 105 | 105 | 106 | 106 | 106 | 105 | 105 | 105 | 105 | 105 | 105 |
| 85 | 79.1 | 80.0 | 80.9 | 81.6 | 82.2 | 80.7 | 79.9 | 79.4 | 79.1 | 78.9 | 78.9 | 79.0 | 79.0 | 78.9 | 78.9 | 79.0 | 79.0 | 78.8 | 78.6 |
| 90 | 62.1 | 58.1 | 50.3 | 42.6 | 43.2 | 45.7 | 46.9 | 48.0 | 48.8 | 49.5 | 50.3 | 51.2 | 51.8 | 52.3 | 52.7 | 52.9 | 53.0 | 52.8 | 52.4 |
| 95 | 24.6 | 41.1 | 24.7 | 6.62 | 4.76 | 10.9 | 14.1 | 16.7 | 18.6 | 20.2 | 21.8 | 23.4 | 24.7 | 25.7 | 26.4 | 26.8 | 27.0 | 26.7 | 26.2 |
| 100 | 31.6 | 32.4 | 26.5 | 12.9 | 7.33 | 4.19 | 3.56 | 3.03 | 2.24 | 1.36 | 0.92 | 0.88 | 0.88 | 0.88 | 0.88 | 0.89 | 0.96 | 0.88 | 0.85 |
| 105 | 14.0 | 13.4 | 14.5 | 13.2 | 6.23 | 2.19 | 2.33 | 2.20 | 2.01 | 1.41 | 1.09 | 1.04 | 1.01 | 1.00 | 0.99 | 1.00 | 1.05 | 1.00 | 0.97 |
| 110 | 2.91 | 2.10 | 3.68 | 5.21 | 2.90 | 1.67 | 1.33 | 1.59 | 1.94 | 1.49 | 1.28 | 1.19 | 1.13 | 1.12 | 1.11 | 1.11 | 1.14 | 1.11 | 1.09 |
| 115 | 2.40 | 2.15 | 2.09 | 2.85 | 3.46 | 2.81 | 2.00 | 1.84 | 1.90 | 1.63 | 1.40 | 1.32 | 1.25 | 1.24 | 1.23 | 1.22 | 1.24 | 1.22 | 1.21 |
| 120 | 3.79 | 3.98 | 3.74 | 4.46 | 4.71 | 3.34 | 2.45 | 2.17 | 1.84 | 1.60 | 1.47 | 1.38 | 1.36 | 1.35 | 1.34 | 1.33 | 1.33 | 1.33 | 1.33 |
| 125 | 3.85 | 3.68 | 3.65 | 3.74 | 3.57 | 3.25 | 2.50 | 2.07 | 1.77 | 1.61 | 1.53 | 1.46 | 1.44 | 1.43 | 1.43 | 1.42 | 1.42 | 1.42 | 1.41 |
| 130 | 2.50 | 2.46 | 2.45 | 2.58 | 2.54 | 2.36 | 2.15 | 1.92 | 1.71 | 1.61 | 1.57 | 1.54 | 1.52 | 1.52 | 1.51 | 1.51 | 1.51 | 1.51 | 1.50 |
| 135 | 1.92 | 1.89 | 1.82 | 1.92 | 1.99 | 1.97 | 1.88 | 1.77 | 1.71 | 1.67 | 1.64 | 1.62 | 1.61 | 1.61 | 1.60 | 1.59 | 1.59 | 1.59 | 1.60 |
| 140 | 1.78 | 1.78 | 1.79 | 1.80 | 1.85 | 1.84 | 1.81 | 1.79 | 1.76 | 1.74 | 1.73 | 1.70 | 1.70 | 1.70 | 1.69 | 1.68 | 1.68 | 1.68 | 1.69 |
| 145 | 1.84 | 1.84 | 1.84 | 1.85 | 1.87 | 1.87 | 1.86 | 1.85 | 1.85 | 1.84 | 1.81 | 1.79 | 1.79 | 1.78 | 1.77 | 1.76 | 1.76 | 1.76 | 1.76 |
| 150 | 1.91 | 1.91 | 1.92 | 1.93 | 1.93 | 1.95 | 1.96 | 1.95 | 1.95 | 1.92 | 1.90 | 1.88 | 1.87 | 1.86 | 1.85 | 1.84 | 1.83 | 1.83 | 1.84 |
| 155 | 1.99 | 1.99 | 2.00 | 2.01 | 2.02 | 2.02 | 2.03 | 2.02 | 2.02 | 2.00 | 1.98 | 1.96 | 1.95 | 1.93 | 1.93 | 1.92 | 1.91 | 1.91 | 1.91 |
| 160 | 2.08 | 2.07 | 2.07 | 2.07 | 2.06 | 2.07 | 2.06 | 2.06 | 2.05 | 2.05 | 2.04 | 2.03 | 2.02 | 2.01 | 2.00 | 1.99 | 1.99 | 1.99 | 1.99 |
| 165 | 2.14 | 2.13 | 2.13 | 2.12 | 2.12 | 2.12 | 2.11 | 2.10 | 2.09 | 2.09 | 2.08 | 2.07 | 2.06 | 2.06 | 2.05 | 2.04 | 2.04 | 2.04 | 2.04 |
| 170 | 2.19 | 2.18 | 2.17 | 2.17 | 2.16 | 2.15 | 2.14 | 2.14 | 2.13 | 2.13 | 2.12 | 2.12 | 2.11 | 2.11 | 2.10 | 2.10 | 2.10 | 2.09 | 2.09 |
| 175 | 2.20 | 2.20 | 2.20 | 2.19 | 2.19 | 2.18 | 2.18 | 2.18 | 2.17 | 2.17 | 2.17 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.15 | 2.15 |
| 180 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|-----------------------|-------|------------------|
| NAME: ABH14R2TB 4000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|--|--|
| Table--4 | | | | | | | | | | | | | | | | UNIT: cd | | | |
| <div>C (DEG) γ (DEG)</div> | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | | | | |
| 0 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | | | | |
| 5 | 374 | 374 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 376 | 376 | 376 | 376 | | | | |
| 10 | 371 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 371 | 371 | 371 | | | | |
| 15 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 362 | 362 | 362 | 362 | 363 | 364 | | | | |
| 20 | 355 | 354 | 354 | 353 | 353 | 353 | 352 | 352 | 352 | 352 | 352 | 351 | 351 | 352 | 353 | | | | |
| 25 | 341 | 341 | 341 | 341 | 341 | 341 | 340 | 339 | 339 | 338 | 338 | 338 | 338 | 338 | 339 | | | | |
| 30 | 325 | 325 | 325 | 324 | 324 | 324 | 324 | 325 | 324 | 323 | 322 | 322 | 322 | 322 | 322 | | | | |
| 35 | 306 | 306 | 306 | 306 | 307 | 306 | 305 | 305 | 305 | 305 | 304 | 303 | 303 | 303 | 303 | | | | |
| 40 | 285 | 285 | 284 | 284 | 284 | 284 | 285 | 284 | 284 | 284 | 284 | 282 | 282 | 282 | 282 | | | | |
| 45 | 264 | 264 | 263 | 262 | 262 | 261 | 261 | 261 | 262 | 261 | 261 | 261 | 259 | 259 | 259 | | | | |
| 50 | 243 | 243 | 242 | 240 | 239 | 238 | 237 | 237 | 236 | 237 | 236 | 236 | 235 | 234 | 234 | | | | |
| 55 | 220 | 219 | 219 | 218 | 217 | 216 | 214 | 213 | 212 | 211 | 211 | 211 | 211 | 209 | 209 | | | | |
| 60 | 196 | 195 | 195 | 194 | 193 | 192 | 192 | 190 | 188 | 187 | 186 | 186 | 185 | 185 | 184 | | | | |
| 65 | 173 | 172 | 171 | 170 | 169 | 169 | 168 | 167 | 166 | 164 | 162 | 161 | 161 | 161 | 160 | | | | |
| 70 | 150 | 149 | 149 | 148 | 147 | 146 | 145 | 144 | 143 | 142 | 141 | 138 | 137 | 137 | 136 | | | | |
| 75 | 127 | 127 | 127 | 126 | 125 | 125 | 124 | 123 | 121 | 120 | 119 | 118 | 116 | 115 | 115 | | | | |
| 80 | 105 | 105 | 105 | 104 | 104 | 103 | 103 | 102 | 101 | 99.9 | 98.8 | 97.6 | 96.5 | 95.2 | 94.5 | | | | |
| 85 | 78.4 | 78.4 | 78.2 | 78.0 | 77.8 | 77.8 | 77.8 | 78.2 | 79.0 | 80.6 | 80.0 | 79.2 | 78.2 | 77.4 | 76.3 | | | | |
| 90 | 52.0 | 51.4 | 50.7 | 49.7 | 48.8 | 47.9 | 46.7 | 45.4 | 44.0 | 40.9 | 45.1 | 52.7 | 58.5 | 60.9 | 39.5 | | | | |
| 95 | 25.5 | 24.5 | 23.2 | 21.6 | 19.9 | 18.1 | 15.7 | 12.8 | 9.24 | 1.73 | 12.4 | 29.6 | 41.9 | 18.3 | 9.15 | | | | |
| 100 | 0.85 | 0.86 | 0.87 | 0.91 | 1.32 | 1.92 | 2.36 | 2.65 | 3.58 | 6.14 | 14.8 | 26.3 | 30.6 | 29.1 | 30.6 | | | | |
| 105 | 0.97 | 0.98 | 1.02 | 1.09 | 1.40 | 1.59 | 1.79 | 1.86 | 2.18 | 7.16 | 13.8 | 14.9 | 13.9 | 13.6 | 12.8 | | | | |
| 110 | 1.09 | 1.11 | 1.16 | 1.26 | 1.50 | 1.45 | 1.33 | 1.20 | 1.41 | 3.42 | 5.62 | 3.86 | 3.46 | 3.58 | 2.76 | | | | |
| 115 | 1.22 | 1.22 | 1.29 | 1.40 | 1.62 | 1.66 | 1.38 | 1.75 | 2.39 | 2.31 | 2.23 | 1.64 | 1.79 | 1.93 | 1.74 | | | | |
| 120 | 1.33 | 1.32 | 1.37 | 1.43 | 1.55 | 1.73 | 1.64 | 2.06 | 2.89 | 3.62 | 2.84 | 2.50 | 2.38 | 2.38 | 2.18 | | | | |
| 125 | 1.42 | 1.40 | 1.42 | 1.46 | 1.50 | 1.59 | 1.76 | 2.07 | 2.73 | 3.09 | 3.12 | 2.81 | 3.06 | 2.98 | 2.86 | | | | |
| 130 | 1.51 | 1.50 | 1.50 | 1.50 | 1.49 | 1.52 | 1.63 | 1.80 | 2.03 | 2.18 | 2.24 | 2.13 | 2.11 | 2.12 | 2.07 | | | | |
| 135 | 1.59 | 1.59 | 1.58 | 1.57 | 1.55 | 1.54 | 1.55 | 1.63 | 1.69 | 1.73 | 1.70 | 1.63 | 1.69 | 1.70 | 1.68 | | | | |
| 140 | 1.67 | 1.67 | 1.65 | 1.64 | 1.62 | 1.61 | 1.59 | 1.60 | 1.62 | 1.62 | 1.59 | 1.61 | 1.62 | 1.63 | 1.64 | | | | |
| 145 | 1.75 | 1.73 | 1.72 | 1.71 | 1.70 | 1.68 | 1.69 | 1.65 | 1.66 | 1.66 | 1.68 | 1.68 | 1.68 | 1.69 | 1.70 | | | | |
| 150 | 1.83 | 1.81 | 1.79 | 1.79 | 1.78 | 1.76 | 1.75 | 1.76 | 1.77 | 1.74 | 1.73 | 1.75 | 1.75 | 1.77 | 1.79 | | | | |
| 155 | 1.91 | 1.89 | 1.87 | 1.86 | 1.85 | 1.86 | 1.85 | 1.83 | 1.83 | 1.83 | 1.84 | 1.85 | 1.86 | 1.87 | 1.89 | | | | |
| 160 | 1.99 | 1.98 | 1.96 | 1.94 | 1.93 | 1.93 | 1.92 | 1.93 | 1.93 | 1.93 | 1.93 | 1.94 | 1.94 | 1.96 | 1.97 | | | | |
| 165 | 2.04 | 2.04 | 2.04 | 2.03 | 2.02 | 2.01 | 2.01 | 2.01 | 2.01 | 2.01 | 2.02 | 2.03 | 2.04 | 2.04 | 2.06 | | | | |
| 170 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.10 | 2.11 | 2.12 | 2.13 | | | | |
| 175 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | | | | |
| 180 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | | | | |

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-09-05

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG

Humidity:65.0%
Test Distance:9.782m [K=1.0000]
Remarks: