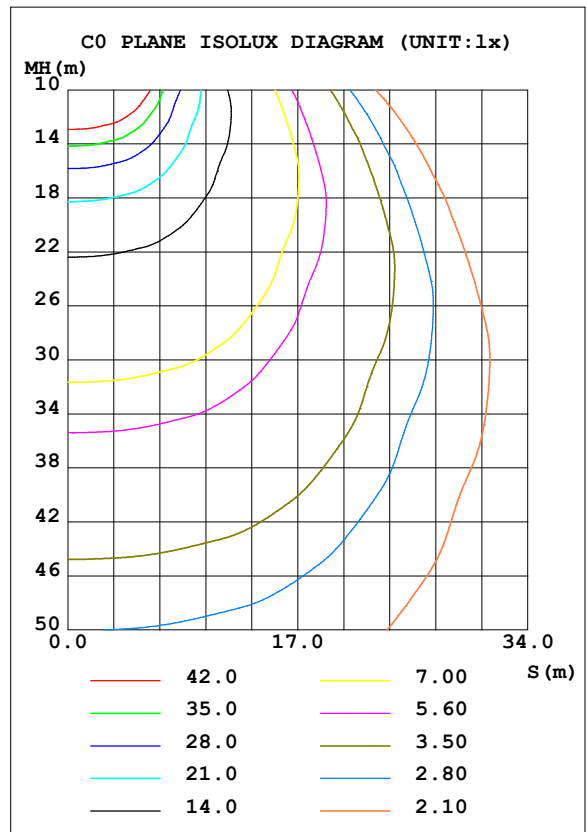
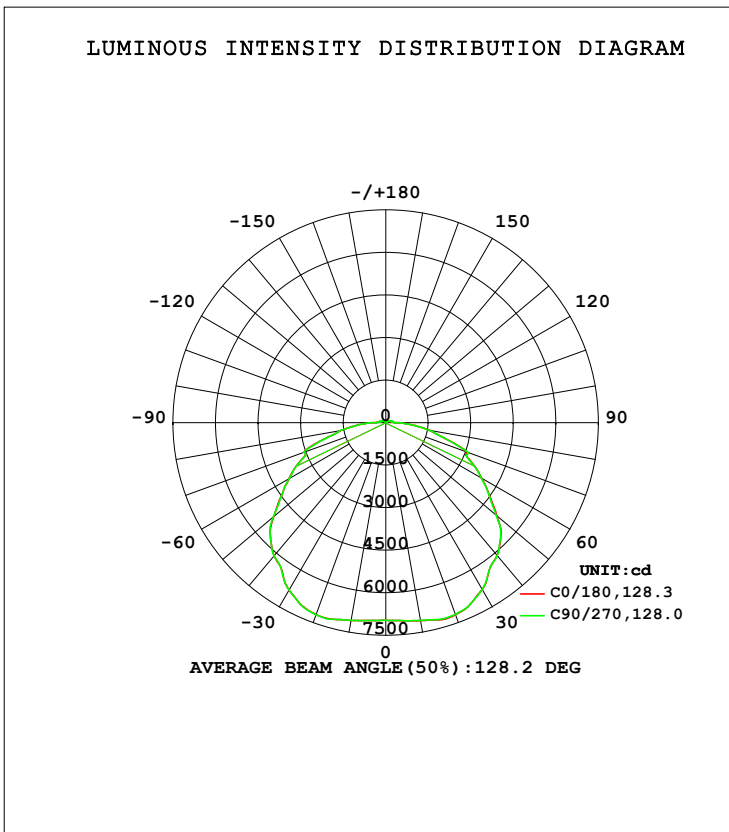


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 130.91 lm/W | | | |
|-------------------|---------------------|-----------------------------------|--------|--------------------------|-----------|
| MODEL | ANL-HB20-200W-5000K | Imax (cd) | 7235 | S/MH (C0/180) | 1.41 |
| NOMINAL POWER (W) | 200 | LOR (%) | 100.0 | S/MH (C90/270) | 1.41 |
| RATED VOLTAGE (V) | 120 | TOTAL FLUX (lm) | 26110 | η UP, DN (C0-180) | 1.7, 48.2 |
| NOMINAL FLUX (lm) | 26110.2 | CIE CLASS | DIRECT | η UP, DN (C180-360) | 1.8, 48.3 |
| LAMPS INSIDE | 1 | η up (%) | 3.5 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE (V) | 120 | η down (%) | 96.5 | CIBSE SHR MAX | 1.55 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

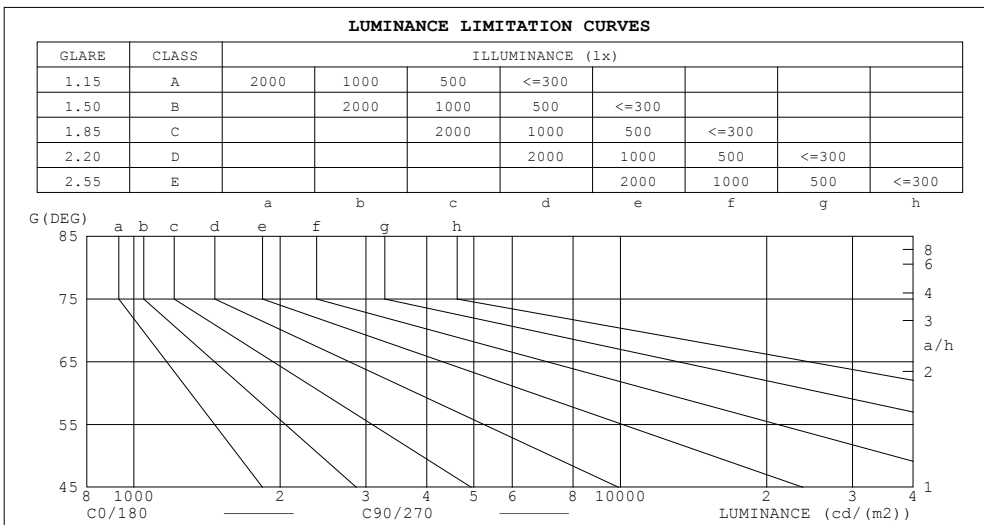
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 7087 | 7068 | 7078 | 7048 | 7078 | 7052 | 7075 | 7066 | 0- 10 | 671.1 | 671.1 | 2.57,2.57 |
| 20 | 7204 | 7154 | 7190 | 7153 | 7199 | 7173 | 7205 | 7165 | 10- 20 | 2030 | 2702 | 10.3,10.3 |
| 30 | 6793 | 6690 | 6797 | 6736 | 6815 | 6735 | 6815 | 6725 | 20- 30 | 3237 | 5938 | 22.7,22.7 |
| 40 | 6108 | 6147 | 6119 | 6171 | 6132 | 6183 | 6131 | 6148 | 30- 40 | 4012 | 9950 | 38.1,38.1 |
| 50 | 5119 | 5081 | 5090 | 5135 | 5161 | 5173 | 5169 | 5095 | 40- 50 | 4408 | 14359 | 55,55 |
| 60 | 3905 | 3899 | 3888 | 3945 | 3934 | 3996 | 3932 | 3904 | 50- 60 | 4025 | 18383 | 70.4,70.4 |
| 70 | 3036 | 3162 | 3089 | 3218 | 3054 | 3161 | 3076 | 3184 | 60- 70 | 3380 | 21763 | 83.4,83.4 |
| 80 | 1584 | 1553 | 1565 | 1611 | 1632 | 1666 | 1622 | 1560 | 70- 80 | 2398 | 24162 | 92.5,92.5 |
| 90 | 381.0 | 365.5 | 377.3 | 369.4 | 397.6 | 409.8 | 409.2 | 364.2 | 80- 90 | 1037 | 25199 | 96.5,96.5 |
| 100 | 211.8 | 206.9 | 214.9 | 206.6 | 214.2 | 212.7 | 216.6 | 209.8 | 90-100 | 295.7 | 25495 | 97.6,97.6 |
| 110 | 172.7 | 168.4 | 187.5 | 164.6 | 175.1 | 173.7 | 193.7 | 169.4 | 100-110 | 207.6 | 25702 | 98.4,98.4 |
| 120 | 128.6 | 128.9 | 137.4 | 124.6 | 131.8 | 133.8 | 142.6 | 128.9 | 110-120 | 152.7 | 25855 | 99,99 |
| 130 | 87.36 | 90.42 | 91.49 | 86.70 | 91.04 | 94.60 | 95.63 | 90.11 | 120-130 | 98.69 | 25954 | 99.4,99.4 |
| 140 | 67.24 | 70.29 | 69.28 | 69.21 | 69.89 | 72.69 | 71.61 | 71.87 | 130-140 | 61.35 | 26015 | 99.6,99.6 |
| 150 | 64.01 | 65.10 | 63.44 | 63.15 | 64.45 | 64.81 | 65.16 | 65.90 | 140-150 | 41.94 | 26057 | 99.8,99.8 |
| 160 | 62.84 | 63.16 | 62.45 | 62.13 | 62.66 | 62.82 | 62.90 | 63.53 | 150-160 | 29.43 | 26086 | 99.9,99.9 |
| 170 | 63.52 | 63.37 | 63.19 | 62.46 | 62.62 | 62.67 | 62.97 | 62.86 | 160-170 | 17.81 | 26104 | 100,100 |
| 180 | 64.30 | 64.31 | 64.36 | 63.70 | 64.40 | 64.40 | 64.42 | 63.78 | 170-180 | 6.033 | 26110 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 174591 | 171545 |
| 80 | 148088 | 145161 |
| 75 | 136901 | 135130 |
| 70 | 144102 | 145524 |
| 65 | 129217 | 127489 |
| 60 | 126774 | 125263 |
| 55 | 126068 | 124574 |
| 50 | 129297 | 127581 |
| 45 | 131539 | 130470 |

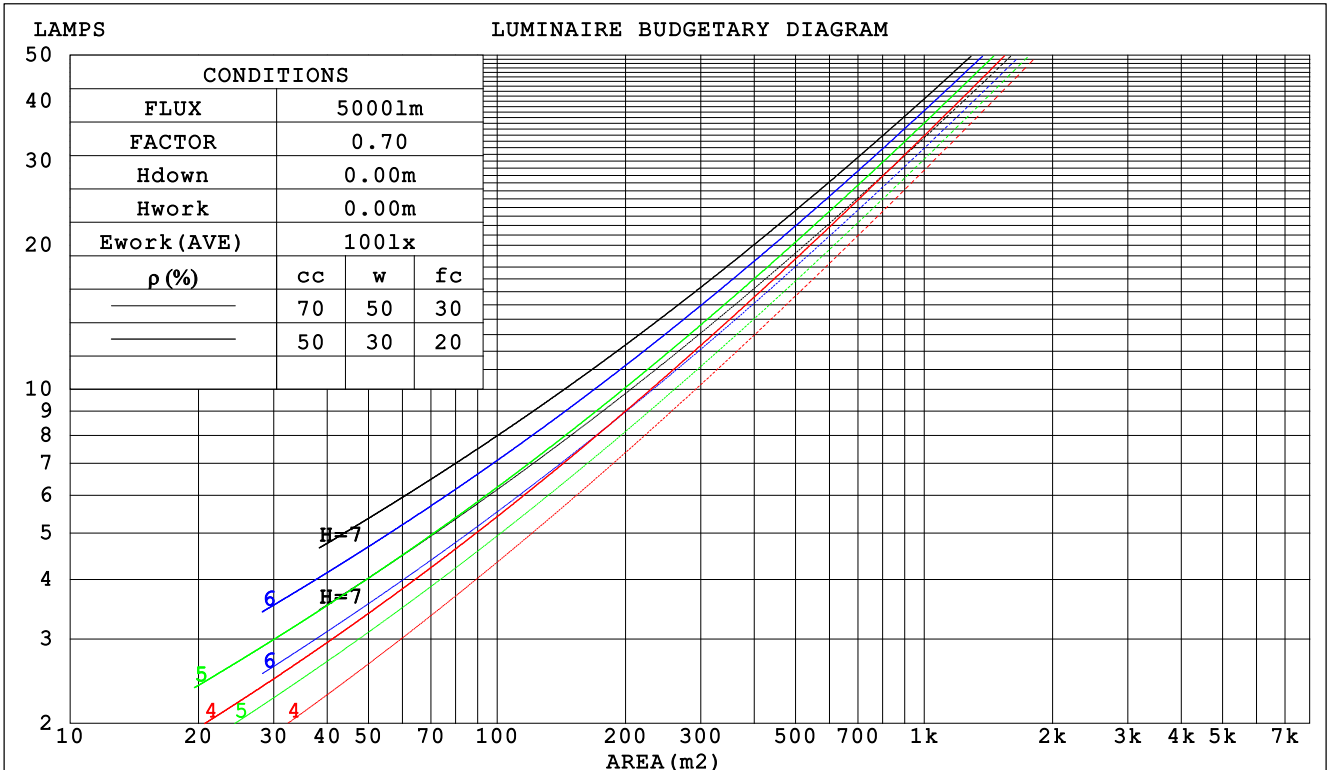
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| | ρw | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.01 | .96 | .92 | .98 | .94 | .90 | .93 | .90 | .87 | .89 | .86 | .83 | .85 | .82 | .80 | .78 |
| 2.0 | .87 | .80 | .73 | .85 | .78 | .72 | .81 | .75 | .70 | .77 | .72 | .68 | .73 | .69 | .66 | .63 |
| 3.0 | .76 | .67 | .60 | .74 | .66 | .59 | .70 | .63 | .58 | .67 | .61 | .56 | .64 | .59 | .55 | .52 |
| 4.0 | .67 | .57 | .50 | .65 | .56 | .50 | .62 | .55 | .49 | .59 | .53 | .48 | .57 | .51 | .47 | .44 |
| 5.0 | .59 | .50 | .43 | .58 | .49 | .43 | .55 | .48 | .42 | .53 | .46 | .41 | .51 | .45 | .40 | .38 |
| 6.0 | .53 | .44 | .37 | .52 | .43 | .37 | .50 | .42 | .36 | .48 | .41 | .36 | .46 | .40 | .35 | .33 |
| 7.0 | .48 | .39 | .33 | .47 | .38 | .32 | .45 | .37 | .32 | .43 | .37 | .31 | .42 | .36 | .31 | .29 |
| 8.0 | .44 | .35 | .29 | .43 | .35 | .29 | .41 | .34 | .28 | .40 | .33 | .28 | .38 | .32 | .28 | .25 |
| 9.0 | .40 | .32 | .26 | .39 | .31 | .26 | .38 | .30 | .25 | .36 | .30 | .25 | .35 | .29 | .25 | .23 |
| 10.0 | .37 | .29 | .23 | .36 | .28 | .23 | .35 | .28 | .23 | .34 | .27 | .23 | .33 | .27 | .22 | .21 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients (WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .347 | .197 | .063 | .339 | .193 | .061 | .323 | .185 | .059 | .309 | .178 | .057 | .296 | .172 | .055 | |
| 2.0 | .316 | .173 | .053 | .309 | .170 | .052 | .295 | .164 | .051 | .282 | .158 | .050 | .270 | .153 | .048 | |
| 3.0 | .287 | .153 | .046 | .281 | .150 | .045 | .268 | .145 | .044 | .257 | .141 | .043 | .246 | .136 | .042 | |
| 4.0 | .262 | .136 | .040 | .256 | .134 | .040 | .245 | .130 | .039 | .235 | .126 | .038 | .226 | .123 | .037 | |
| 5.0 | .240 | .122 | .035 | .235 | .121 | .035 | .225 | .117 | .035 | .216 | .114 | .034 | .208 | .111 | .033 | |
| 6.0 | .221 | .111 | .032 | .217 | .109 | .032 | .208 | .107 | .031 | .200 | .104 | .031 | .192 | .101 | .030 | |
| 7.0 | .205 | .101 | .029 | .201 | .100 | .029 | .193 | .098 | .028 | .186 | .095 | .028 | .179 | .093 | .027 | |
| 8.0 | .191 | .093 | .026 | .187 | .092 | .026 | .180 | .090 | .026 | .173 | .088 | .025 | .167 | .086 | .025 | |
| 9.0 | .178 | .086 | .024 | .175 | .085 | .024 | .168 | .083 | .024 | .162 | .081 | .023 | .157 | .080 | .023 | |
| 10.0 | .167 | .080 | .022 | .164 | .079 | .022 | .158 | .078 | .022 | .153 | .076 | .022 | .147 | .074 | .021 | |

| ρcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients (CCEC) | | | | | | | | | |
| 0.0 | .217 | .217 | .217 | .186 | .186 | .186 | .127 | .127 | .127 | .073 | .073 | .073 | .023 | .023 | .023 | |
| 1.0 | .210 | .183 | .158 | .179 | .157 | .136 | .123 | .108 | .094 | .071 | .062 | .055 | .023 | .020 | .018 | |
| 2.0 | .202 | .159 | .122 | .173 | .137 | .106 | .119 | .095 | .074 | .069 | .055 | .043 | .022 | .018 | .014 | |
| 3.0 | .195 | .142 | .099 | .167 | .122 | .086 | .115 | .085 | .060 | .066 | .050 | .035 | .021 | .016 | .012 | |
| 4.0 | .187 | .129 | .084 | .161 | .111 | .073 | .110 | .077 | .051 | .064 | .045 | .030 | .021 | .015 | .010 | |
| 5.0 | .180 | .118 | .073 | .154 | .102 | .064 | .106 | .072 | .045 | .062 | .042 | .027 | .020 | .014 | .009 | |
| 6.0 | .172 | .110 | .065 | .148 | .095 | .057 | .102 | .067 | .040 | .059 | .039 | .024 | .019 | .013 | .008 | |
| 7.0 | .165 | .103 | .060 | .142 | .090 | .052 | .098 | .063 | .037 | .057 | .037 | .022 | .018 | .012 | .007 | |
| 8.0 | .159 | .098 | .056 | .137 | .085 | .048 | .094 | .059 | .034 | .055 | .035 | .020 | .018 | .011 | .007 | |
| 9.0 | .152 | .093 | .052 | .131 | .080 | .046 | .091 | .057 | .032 | .053 | .033 | .019 | .017 | .011 | .006 | |
| 10.0 | .146 | .088 | .050 | .126 | .077 | .043 | .088 | .054 | .031 | .051 | .032 | .018 | .017 | .010 | .006 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|-------|----------------|------|------------------------|------|------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | | | | | | | | | |
| NAME: ANL-HB20-200W-5000K | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.:20181009015 | | |
| 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 | 29.5 | 31.1 | 29.8 | 31.3 | 31.6 | 29.5 | 31.1 | 29.8 | 31.3 | 31.6 |
| 3H | 31.6 | 33.0 | 31.9 | 33.3 | 33.6 | 31.5 | 33.0 | 31.9 | 33.3 | 33.6 |
| 4H | 32.4 | 33.8 | 32.8 | 34.1 | 34.5 | 32.4 | 33.8 | 32.8 | 34.1 | 34.4 |
| 6H | 33.2 | 34.4 | 33.5 | 34.8 | 35.1 | 33.1 | 34.4 | 33.5 | 34.7 | 35.1 |
| 8H | 33.5 | 34.7 | 33.9 | 35.0 | 35.4 | 33.4 | 34.7 | 33.8 | 35.0 | 35.4 |
| 12H | 33.7 | 34.9 | 34.1 | 35.3 | 35.7 | 33.7 | 34.9 | 34.1 | 35.3 | 35.6 |
| 4H 2H | 30.2 | 31.6 | 30.6 | 31.9 | 32.2 | 30.2 | 31.6 | 30.6 | 31.9 | 32.2 |
| 3H | 32.5 | 33.7 | 32.9 | 34.1 | 34.5 | 32.5 | 33.7 | 32.9 | 34.0 | 34.4 |
| 4H | 33.5 | 34.6 | 33.9 | 35.0 | 35.4 | 33.4 | 34.5 | 33.9 | 34.9 | 35.3 |
| 6H | 34.4 | 35.3 | 34.8 | 35.8 | 36.2 | 34.3 | 35.3 | 34.8 | 35.7 | 36.2 |
| 8H | 34.7 | 35.6 | 35.2 | 36.1 | 36.5 | 34.7 | 35.6 | 35.2 | 36.1 | 36.5 |
| 12H | 35.1 | 35.9 | 35.6 | 36.4 | 36.9 | 35.1 | 35.9 | 35.6 | 36.4 | 36.8 |
| 8H 4H | 33.9 | 34.8 | 34.3 | 35.2 | 35.7 | 33.8 | 34.7 | 34.3 | 35.2 | 35.6 |
| 6H | 34.9 | 35.7 | 35.4 | 36.2 | 36.7 | 34.9 | 35.7 | 35.4 | 36.1 | 36.6 |
| 8H | 35.4 | 36.1 | 35.9 | 36.6 | 37.1 | 35.4 | 36.1 | 35.9 | 36.6 | 37.1 |
| 12H | 35.9 | 36.5 | 36.5 | 37.0 | 37.6 | 35.9 | 36.5 | 36.5 | 37.0 | 37.6 |
| 12H 4H | 33.9 | 34.7 | 34.4 | 35.2 | 35.7 | 33.9 | 34.7 | 34.3 | 35.2 | 35.6 |
| 6H | 35.0 | 35.7 | 35.6 | 36.2 | 36.7 | 35.0 | 35.7 | 35.5 | 36.2 | 36.7 |
| 8H | 35.6 | 36.2 | 36.1 | 36.7 | 37.3 | 35.6 | 36.2 | 36.1 | 36.7 | 37.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.3 | | | | |

CIE Pub.117, 26110 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

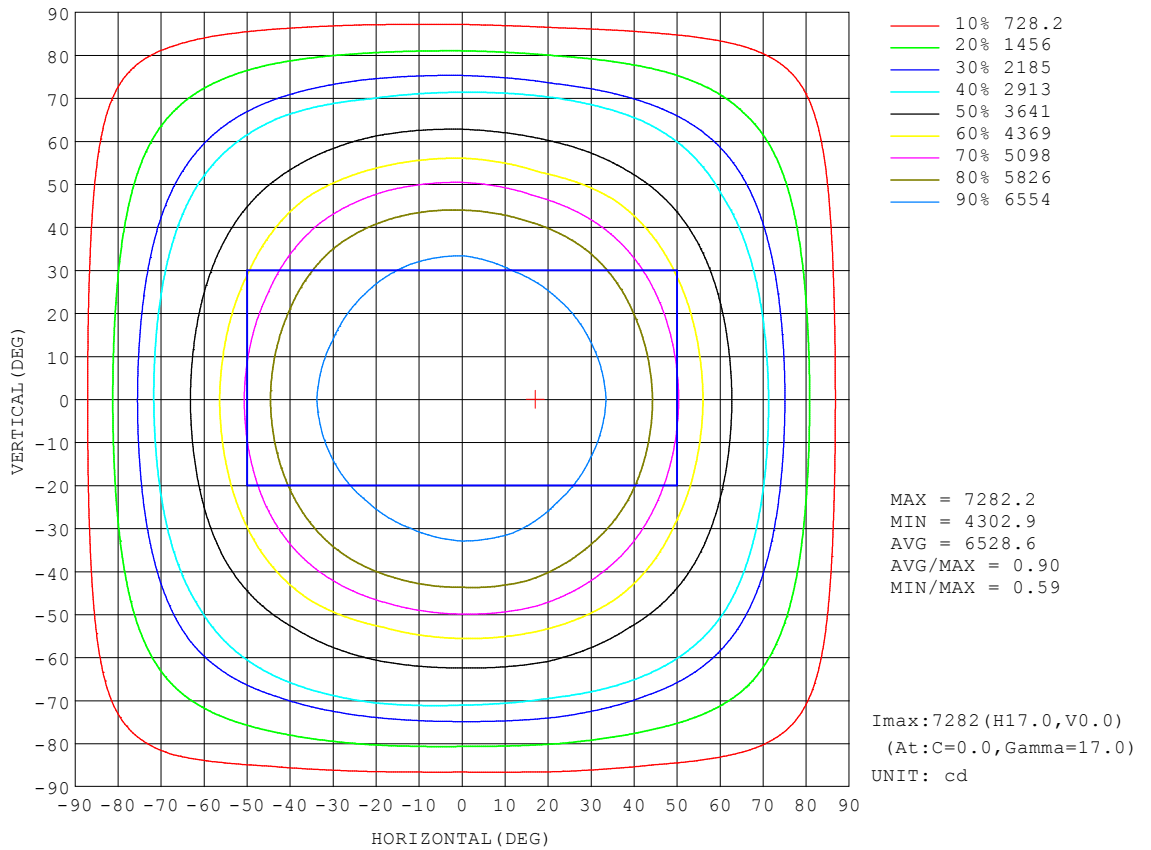
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 42 | 34 | 53 | 41 | 34 | 52 | 41 | 34 | 27 |
| 0.80 | 64 | 51 | 43 | 62 | 51 | 43 | 60 | 50 | 43 | 35 |
| 1.00 | 72 | 60 | 52 | 70 | 59 | 52 | 68 | 61 | 51 | 43 |
| 1.25 | 79 | 68 | 60 | 77 | 67 | 59 | 74 | 65 | 58 | 50 |
| 1.50 | 84 | 73 | 65 | 82 | 72 | 65 | 79 | 70 | 64 | 55 |
| 2.00 | 91 | 82 | 74 | 89 | 80 | 74 | 85 | 78 | 72 | 63 |
| 2.50 | 95 | 87 | 80 | 93 | 85 | 79 | 89 | 82 | 77 | 67 |
| 3.00 | 99 | 91 | 85 | 97 | 89 | 84 | 92 | 86 | 81 | 71 |
| 4.00 | 103 | 97 | 91 | 101 | 95 | 90 | 96 | 91 | 87 | 77 |
| 5.00 | 106 | 100 | 96 | 103 | 98 | 94 | 98 | 94 | 90 | 80 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

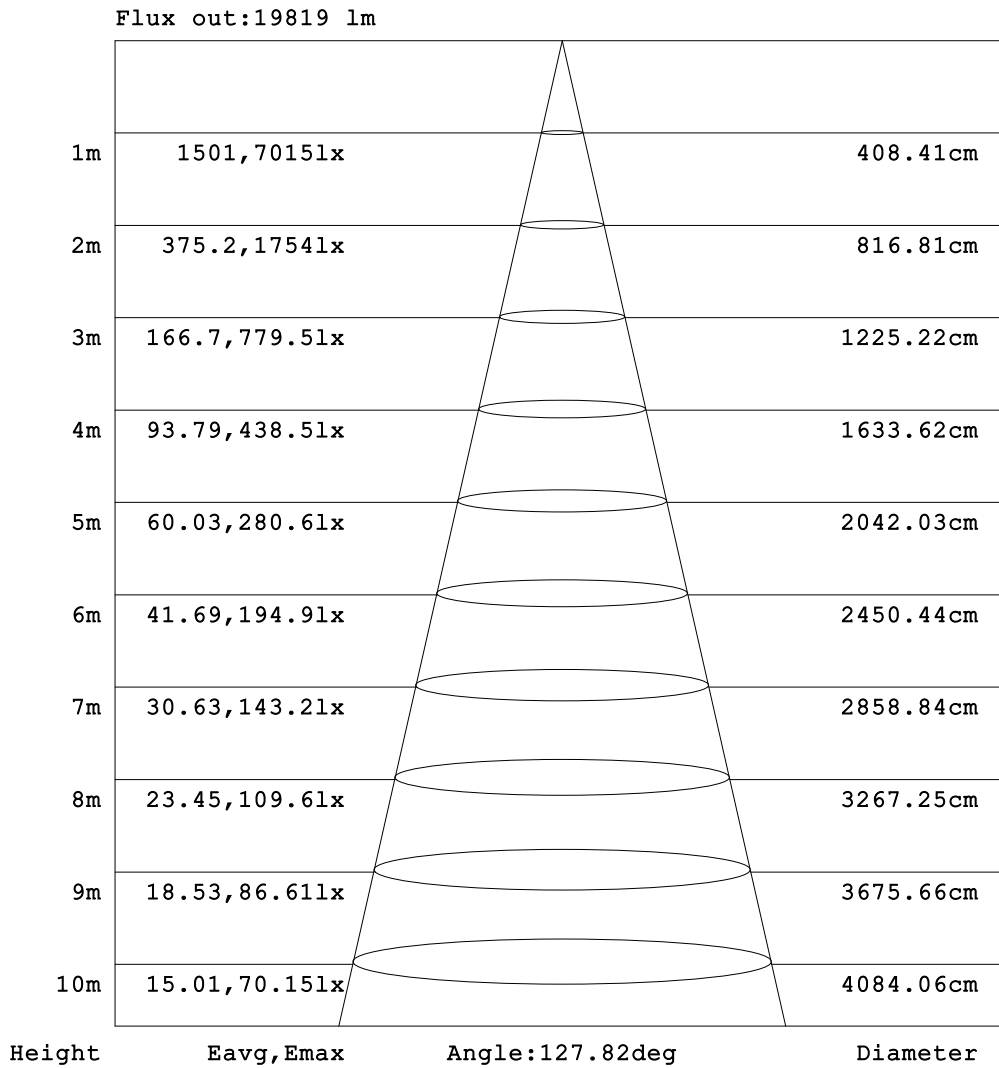


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |



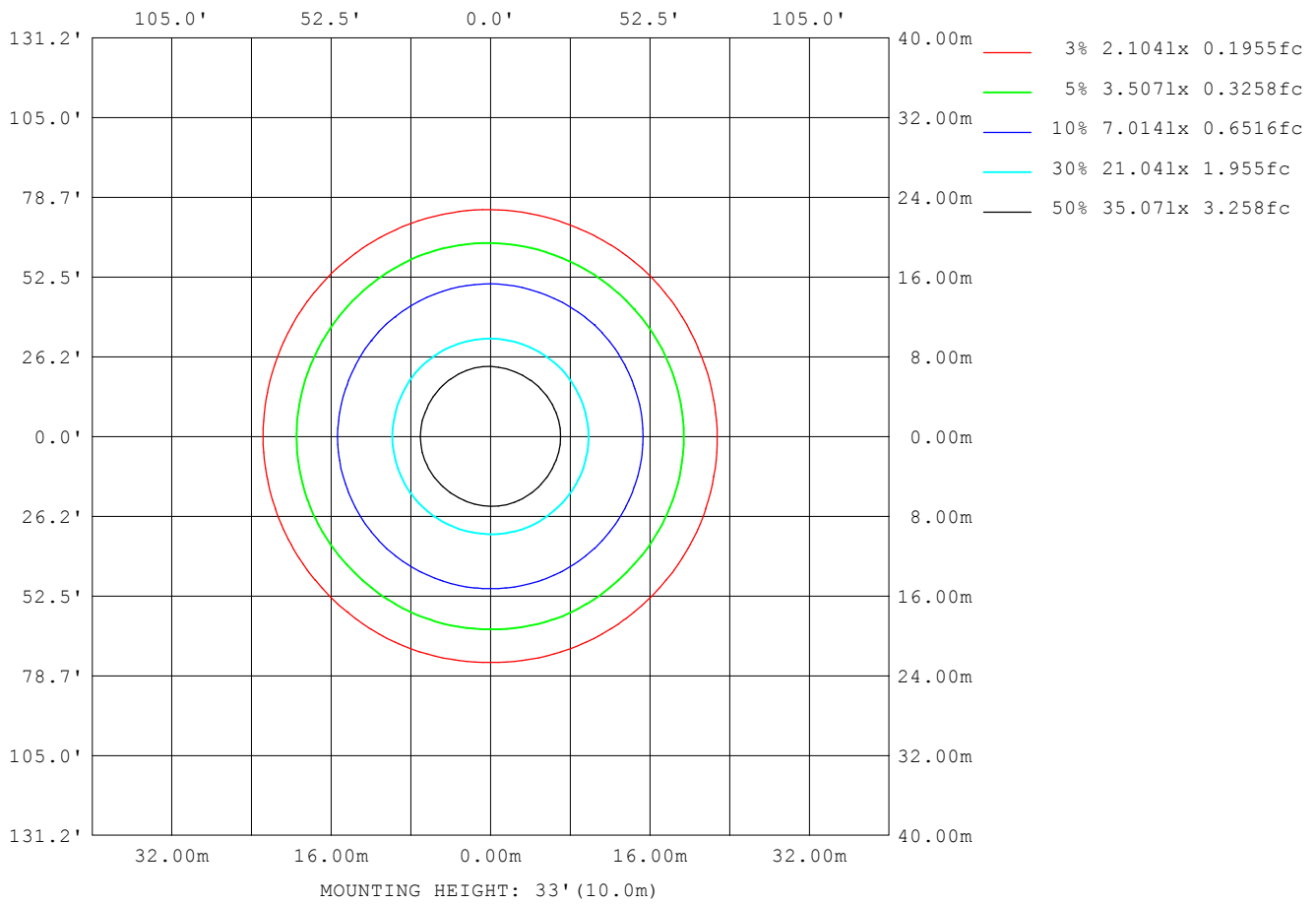
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

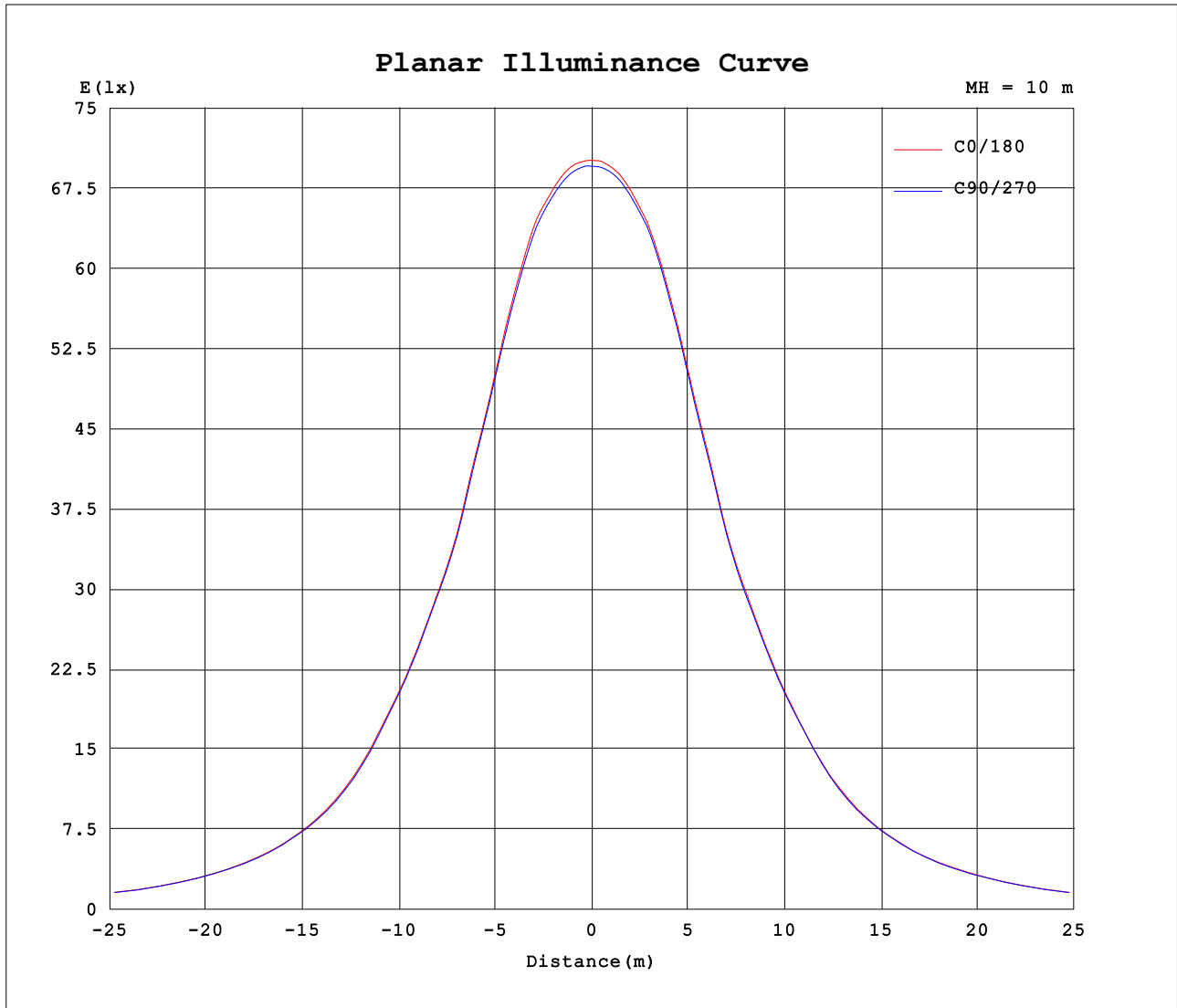
| AvgL | cd/m2 |
|------------------|--------|
| L_0~180 (65) av | 129247 |
| L_0~180 (75) av | 138183 |
| L_0~180 (85) av | 179064 |
| L_90~270 (65) av | 128391 |
| L_90~270 (75) av | 137225 |
| L_90~270 (85) av | 177262 |
| L_45 (65) av | 127829 |
| L_45 (75) av | 135401 |
| L_45 (85) av | 173372 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Admin
 Test Date:09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.550m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 09 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------|------------------------|
| Test:U:119.91V I:1.6672A P:199.45W PF:0.9977 Freq:59.98Hz Lamp Flux:26110.2x1 lm | | |
| NAME: ANL-HB20-200W-5000K | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:20181009015 |
| MFR.: | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | 6968 | | | |
| 5 | 7012 | 7022 | 7025 | 7016 | 7006 | 7012 | 7010 | 7009 | 7003 | 7013 | 7014 | 7010 | 7004 | 7020 | 7020 | 7016 | | | |
| 10 | 7087 | 7064 | 7068 | 7080 | 7078 | 7055 | 7048 | 7065 | 7078 | 7059 | 7052 | 7079 | 7075 | 7070 | 7066 | 7092 | | | |
| 15 | 7201 | 7167 | 7187 | 7178 | 7185 | 7153 | 7166 | 7157 | 7175 | 7157 | 7169 | 7173 | 7181 | 7164 | 7184 | 7187 | | | |
| 20 | 7204 | 7119 | 7154 | 7175 | 7190 | 7121 | 7153 | 7171 | 7199 | 7124 | 7173 | 7187 | 7205 | 7123 | 7165 | 7178 | | | |
| 25 | 7068 | 6978 | 7003 | 7065 | 7062 | 6984 | 7015 | 7077 | 7082 | 7001 | 7044 | 7081 | 7086 | 6976 | 7017 | 7068 | | | |
| 30 | 6793 | 6674 | 6690 | 6787 | 6797 | 6708 | 6736 | 6815 | 6815 | 6686 | 6735 | 6813 | 6815 | 6685 | 6725 | 6781 | | | |
| 35 | 6356 | 6309 | 6328 | 6394 | 6359 | 6305 | 6332 | 6415 | 6386 | 6326 | 6372 | 6417 | 6395 | 6281 | 6323 | 6384 | | | |
| 40 | 6108 | 6135 | 6147 | 6137 | 6119 | 6154 | 6171 | 6155 | 6132 | 6148 | 6183 | 6155 | 6131 | 6132 | 6148 | 6124 | | | |
| 45 | 5729 | 5726 | 5681 | 5757 | 5726 | 5725 | 5770 | 5794 | 5751 | 5736 | 5789 | 5774 | 5749 | 5702 | 5729 | 5740 | | | |
| 50 | 5119 | 5075 | 5081 | 5145 | 5090 | 5079 | 5135 | 5207 | 5161 | 5092 | 5173 | 5201 | 5169 | 5046 | 5095 | 5129 | | | |
| 55 | 4454 | 4381 | 4441 | 4462 | 4435 | 4393 | 4474 | 4518 | 4500 | 4421 | 4498 | 4515 | 4490 | 4368 | 4458 | 4459 | | | |
| 60 | 3905 | 3927 | 3899 | 3960 | 3888 | 3963 | 3945 | 4008 | 3934 | 3961 | 3996 | 3990 | 3932 | 3911 | 3904 | 3930 | | | |
| 65 | 3364 | 3342 | 3325 | 3373 | 3344 | 3350 | 3350 | 3413 | 3409 | 3374 | 3384 | 3404 | 3384 | 3318 | 3338 | 3337 | | | |
| 70 | 3036 | 3121 | 3162 | 3024 | 3089 | 3206 | 3218 | 3089 | 3054 | 3128 | 3161 | 3069 | 3076 | 3170 | 3184 | 3012 | | | |
| 75 | 2183 | 2152 | 2128 | 2197 | 2171 | 2182 | 2176 | 2278 | 2252 | 2216 | 2245 | 2270 | 2233 | 2121 | 2142 | 2182 | | | |
| 80 | 1584 | 1594 | 1553 | 1551 | 1565 | 1624 | 1611 | 1610 | 1632 | 1612 | 1666 | 1605 | 1622 | 1564 | 1560 | 1519 | | | |
| 85 | 937 | 959 | 901 | 948 | 928 | 979 | 941 | 992 | 998 | 962 | 994 | 998 | 988 | 923 | 912 | 942 | | | |
| 90 | 381 | 369 | 366 | 390 | 377 | 370 | 369 | 406 | 398 | 384 | 410 | 420 | 409 | 362 | 364 | 385 | | | |
| 95 | 259 | 255 | 254 | 257 | 255 | 255 | 257 | 263 | 265 | 260 | 266 | 265 | 261 | 250 | 255 | 259 | | | |
| 100 | 212 | 208 | 207 | 216 | 215 | 208 | 207 | 213 | 214 | 210 | 213 | 218 | 217 | 210 | 210 | 215 | | | |
| 105 | 193 | 189 | 189 | 213 | 211 | 190 | 187 | 194 | 195 | 192 | 194 | 218 | 216 | 193 | 191 | 197 | | | |
| 110 | 173 | 166 | 168 | 190 | 188 | 168 | 165 | 173 | 175 | 169 | 174 | 195 | 194 | 172 | 169 | 176 | | | |
| 115 | 150 | 146 | 147 | 163 | 161 | 146 | 144 | 150 | 153 | 149 | 153 | 168 | 166 | 150 | 149 | 153 | | | |
| 120 | 129 | 127 | 129 | 139 | 137 | 129 | 125 | 129 | 132 | 129 | 134 | 143 | 143 | 131 | 129 | 132 | | | |
| 125 | 104 | 103 | 106 | 112 | 111 | 106 | 102 | 105 | 108 | 107 | 112 | 117 | 116 | 108 | 105 | 107 | | | |
| 130 | 87.4 | 87.9 | 90.4 | 92.4 | 91.5 | 90.4 | 86.7 | 87.6 | 91.0 | 90.9 | 94.6 | 96.0 | 95.6 | 92.8 | 90.1 | 90.6 | | | |
| 135 | 74.5 | 76.8 | 77.7 | 78.1 | 77.3 | 77.4 | 76.4 | 74.5 | 77.8 | 79.4 | 80.6 | 79.7 | 80.1 | 79.2 | 79.1 | 77.4 | | | |
| 140 | 67.2 | 69.8 | 70.3 | 70.1 | 69.3 | 69.5 | 69.2 | 67.1 | 69.9 | 71.9 | 72.7 | 71.8 | 71.6 | 71.2 | 71.9 | 70.1 | | | |
| 145 | 65.1 | 66.1 | 66.8 | 66.4 | 65.3 | 65.1 | 65.1 | 64.3 | 66.4 | 66.9 | 67.4 | 67.0 | 67.2 | 67.2 | 67.8 | 67.6 | | | |
| 150 | 64.0 | 64.7 | 65.1 | 64.4 | 63.4 | 62.9 | 63.2 | 62.4 | 64.4 | 64.7 | 64.8 | 64.7 | 65.2 | 65.3 | 65.9 | 65.9 | | | |
| 155 | 63.2 | 64.0 | 64.0 | 63.4 | 62.7 | 62.3 | 62.4 | 61.6 | 63.5 | 63.8 | 63.8 | 63.6 | 63.9 | 64.1 | 64.7 | 64.8 | | | |
| 160 | 62.8 | 63.5 | 63.2 | 62.8 | 62.5 | 62.1 | 62.1 | 61.5 | 62.7 | 62.6 | 62.8 | 62.8 | 62.9 | 62.8 | 63.5 | 63.5 | | | |
| 165 | 63.4 | 63.5 | 63.2 | 63.1 | 63.0 | 62.6 | 62.4 | 62.3 | 62.6 | 62.3 | 62.6 | 62.8 | 62.9 | 62.6 | 63.1 | 63.2 | | | |
| 170 | 63.5 | 63.5 | 63.4 | 63.3 | 63.2 | 62.7 | 62.5 | 62.5 | 62.6 | 62.3 | 62.7 | 62.9 | 63.0 | 62.6 | 62.9 | 62.8 | | | |
| 175 | 63.8 | 64.0 | 63.9 | 63.5 | 63.4 | 63.3 | 63.1 | 63.1 | 63.5 | 63.4 | 63.6 | 63.3 | 63.4 | 63.4 | 63.7 | 63.4 | | | |
| 180 | 64.3 | 64.3 | 64.3 | 64.5 | 64.4 | 63.6 | 63.7 | 63.8 | 64.4 | 64.2 | 64.4 | 64.4 | 64.4 | 63.6 | 63.8 | 63.8 | | | |

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