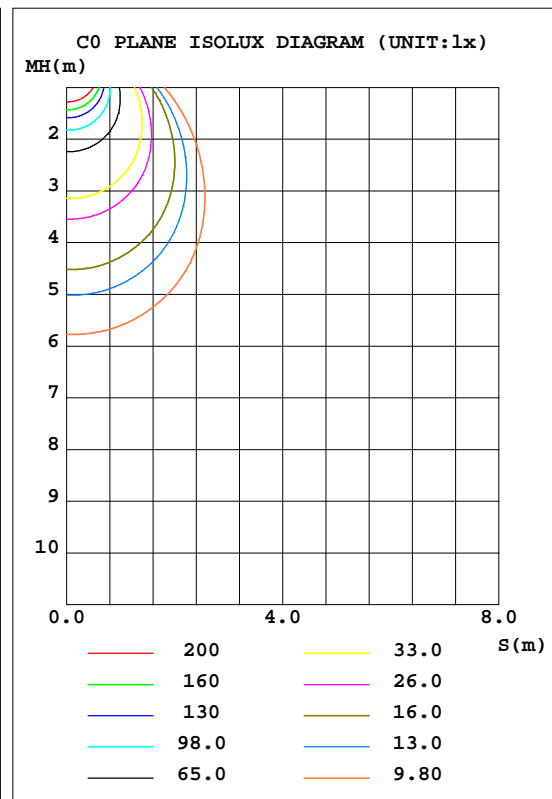
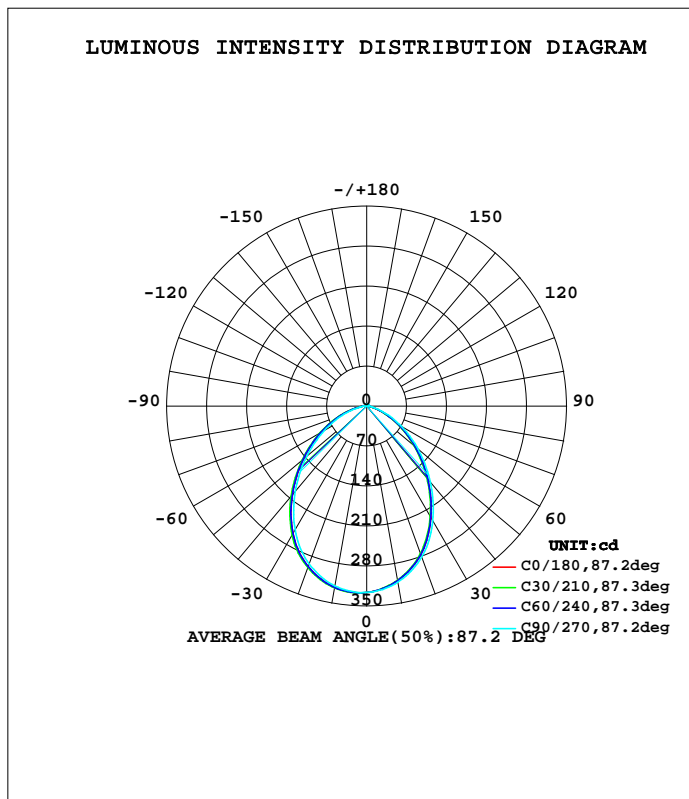


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 67.19 lm/W | | | |
|------------------|-----------------|----------------------------------|--------|--------------------|-----------|
| MODEL | LED-DL10W-CW-BC | I _{max} (cd) | 327.6 | S/MH(C0/180) | 1.18 |
| NOMINAL POWER(W) | 10 | LOR(%) | 100.0 | S/MH(C90/270) | 1.15 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 685.32 | η UP, DN(C0-180) | 1.1, 51.2 |
| NOMINAL FLUX(lm) | 685.315 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.2, 46.6 |
| LAMPS INSIDE | 1 | η up(%) | 2.2 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 230.8 | η down(%) | 97.8 | CIBSE SHR MAX | 1.25 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [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 | 322.2 | 323.1 | 319.7 | 314.4 | 310.4 | 309.6 | 313.0 | 318.1 | 0- 10 | 30.67 | 30.67 | 4.48,4.48 |
| 20 | 299.2 | 300.9 | 294.4 | 284.3 | 276.7 | 275.2 | 281.5 | 291.4 | 10- 20 | 85.63 | 116.3 | 17,17 |
| 30 | 258.2 | 260.7 | 250.8 | 236.1 | 225.2 | 222.6 | 231.7 | 246.5 | 20- 30 | 122.5 | 238.8 | 34.9,34.9 |
| 40 | 202.7 | 205.6 | 194.5 | 178.2 | 166.4 | 164.2 | 173.7 | 189.5 | 30- 40 | 133.3 | 372.1 | 54.3,54.3 |
| 50 | 144.6 | 147.9 | 137.2 | 121.5 | 110.8 | 109.0 | 117.7 | 132.3 | 40- 50 | 119.9 | 492.0 | 71.8,71.8 |
| 60 | 92.09 | 94.94 | 85.47 | 71.71 | 62.76 | 61.77 | 69.37 | 81.58 | 50- 60 | 90.94 | 583.0 | 85.1,85.1 |
| 70 | 48.50 | 50.31 | 42.41 | 32.09 | 26.01 | 25.47 | 31.43 | 40.52 | 60- 70 | 55.64 | 638.6 | 93.2,93.2 |
| 80 | 17.24 | 17.82 | 13.36 | 9.408 | 7.772 | 7.602 | 9.717 | 13.45 | 70- 80 | 24.17 | 662.8 | 96.7,96.7 |
| 90 | 4.216 | 4.462 | 2.734 | 2.201 | 2.230 | 2.243 | 2.552 | 2.934 | 80- 90 | 7.131 | 669.9 | 97.8,97.8 |
| 100 | 1.845 | 1.805 | 1.790 | 1.846 | 2.191 | 2.203 | 2.202 | 2.195 | 90-100 | 2.329 | 672.2 | 98.1,98.1 |
| 110 | 1.943 | 1.934 | 1.900 | 2.009 | 2.275 | 2.231 | 2.249 | 2.223 | 100-110 | 2.166 | 674.4 | 98.4,98.4 |
| 120 | 2.084 | 2.125 | 2.136 | 2.223 | 2.450 | 2.434 | 2.418 | 2.318 | 110-120 | 2.161 | 676.6 | 98.7,98.7 |
| 130 | 2.331 | 2.367 | 2.350 | 2.476 | 2.702 | 2.675 | 2.648 | 2.577 | 120-130 | 2.143 | 678.7 | 99,99 |
| 140 | 2.607 | 2.631 | 2.614 | 2.735 | 2.966 | 2.923 | 2.907 | 2.797 | 130-140 | 2.045 | 680.7 | 99.3,99.3 |
| 150 | 2.865 | 2.900 | 2.878 | 3.005 | 3.197 | 3.142 | 3.132 | 3.066 | 140-150 | 1.818 | 682.6 | 99.6,99.6 |
| 160 | 3.146 | 3.182 | 3.154 | 3.264 | 3.399 | 3.372 | 3.357 | 3.264 | 150-160 | 1.454 | 684.0 | 99.8,99.8 |
| 170 | 3.404 | 3.451 | 3.418 | 3.495 | 3.562 | 3.507 | 3.531 | 3.505 | 160-170 | 0.9561 | 685.0 | 100,100 |
| 180 | 3.607 | 3.609 | 3.581 | 3.585 | 3.595 | 3.586 | 3.587 | 3.601 | 170-180 | 0.3374 | 685.3 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

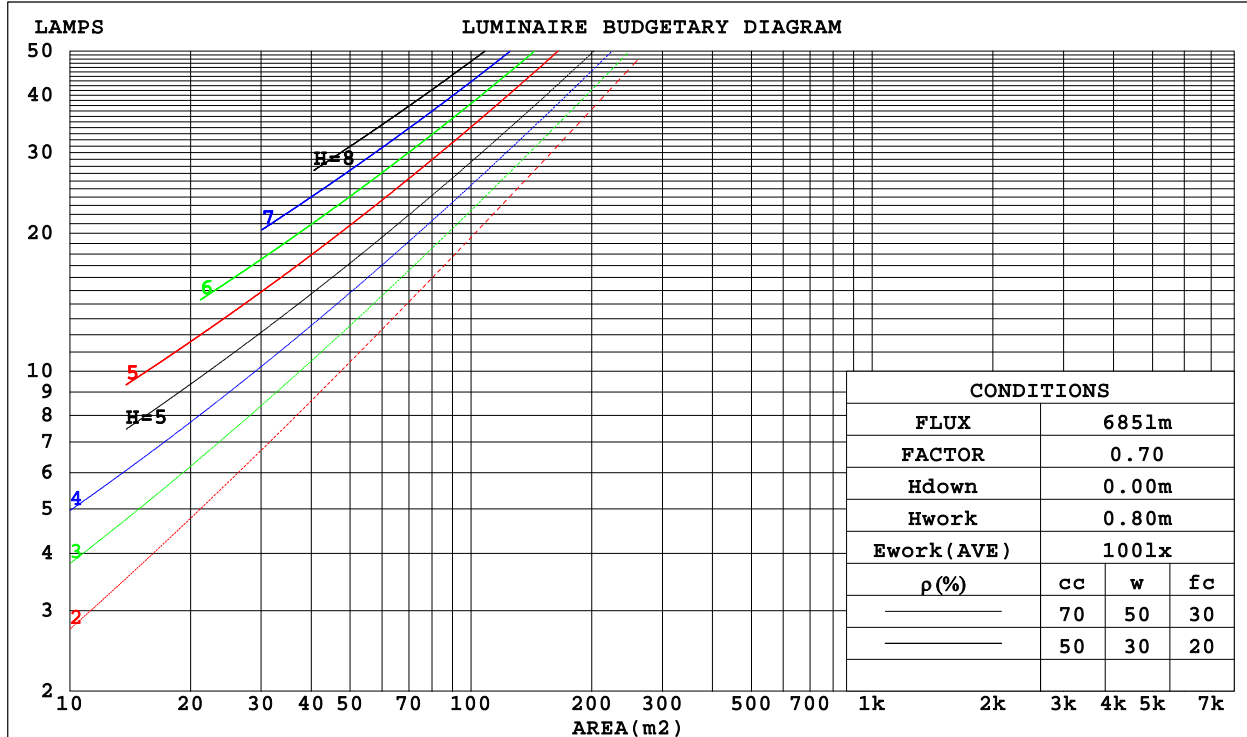
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

| | | | | | | | | | | | | | | | | |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | .00 | .00 | .00 | .98 |
| 1.0 | 1.06 | 1.02 | .99 | 1.03 | .00 | .97 | .99 | .96 | .93 | .94 | .92 | .90 | .90 | .89 | .87 | .85 |
| 2.0 | .94 | .88 | .83 | .92 | .86 | .82 | .88 | .83 | .79 | .84 | .81 | .77 | .81 | .78 | .75 | .73 |
| 3.0 | .84 | .76 | .71 | .82 | .75 | .70 | .79 | .73 | .68 | .76 | .71 | .67 | .73 | .69 | .65 | .63 |
| 4.0 | .75 | .67 | .61 | .74 | .66 | .60 | .71 | .64 | .59 | .68 | .63 | .58 | .66 | .61 | .57 | .55 |
| 5.0 | .68 | .60 | .53 | .67 | .59 | .53 | .64 | .57 | .52 | .62 | .56 | .52 | .60 | .55 | .51 | .49 |
| 6.0 | .62 | .53 | .47 | .60 | .53 | .47 | .59 | .52 | .46 | .57 | .51 | .46 | .55 | .50 | .45 | .43 |
| 7.0 | .56 | .48 | .42 | .55 | .48 | .42 | .54 | .47 | .42 | .52 | .46 | .41 | .51 | .45 | .41 | .39 |
| 8.0 | .52 | .44 | .38 | .51 | .43 | .38 | .49 | .43 | .38 | .48 | .42 | .37 | .47 | .41 | .37 | .35 |
| 9.0 | .48 | .40 | .35 | .47 | .40 | .35 | .46 | .39 | .34 | .44 | .38 | .34 | .43 | .38 | .34 | .32 |
| 10.0 | .44 | .37 | .32 | .44 | .36 | .32 | .42 | .36 | .31 | .41 | .35 | .31 | .40 | .35 | .31 | .29 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION 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 | .266 | .152 | .048 | .259 | .148 | .047 | .245 | .140 | .045 | .231 | .133 | .043 | .219 | .127 | .041 | |
| 2.0 | .255 | .140 | .043 | .248 | .137 | .042 | .236 | .131 | .041 | .224 | .126 | .039 | .213 | .121 | .038 | |
| 3.0 | .239 | .127 | .038 | .233 | .125 | .038 | .222 | .120 | .037 | .212 | .116 | .036 | .203 | .112 | .035 | |
| 4.0 | .224 | .116 | .034 | .218 | .114 | .034 | .209 | .111 | .033 | .199 | .107 | .032 | .191 | .104 | .032 | |
| 5.0 | .209 | .107 | .031 | .204 | .105 | .031 | .196 | .102 | .030 | .187 | .099 | .029 | .180 | .096 | .029 | |
| 6.0 | .196 | .098 | .028 | .191 | .097 | .028 | .184 | .094 | .027 | .176 | .092 | .027 | .169 | .089 | .026 | |
| 7.0 | .183 | .091 | .026 | .180 | .090 | .026 | .173 | .087 | .025 | .166 | .085 | .025 | .160 | .083 | .024 | |
| 8.0 | .173 | .084 | .024 | .169 | .083 | .024 | .163 | .081 | .023 | .157 | .079 | .023 | .151 | .078 | .023 | |
| 9.0 | .163 | .079 | .022 | .160 | .078 | .022 | .154 | .076 | .022 | .148 | .074 | .021 | .143 | .073 | .021 | |
| 10.0 | .154 | .074 | .020 | .151 | .073 | .020 | .146 | .071 | .020 | .141 | .070 | .020 | .136 | .068 | .020 | |

| 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 | .208 | .208 | .208 | .177 | .177 | .177 | .121 | .121 | .121 | .070 | .070 | .070 | .022 | .022 | .022 | |
| 1.0 | .195 | .174 | .155 | .166 | .149 | .133 | .114 | .103 | .092 | .066 | .059 | .054 | .021 | .019 | .017 | |
| 2.0 | .185 | .149 | .120 | .158 | .129 | .104 | .108 | .089 | .072 | .063 | .052 | .042 | .020 | .017 | .014 | |
| 3.0 | .176 | .132 | .096 | .151 | .114 | .083 | .104 | .079 | .058 | .060 | .046 | .034 | .019 | .015 | .011 | |
| 4.0 | .168 | .118 | .080 | .144 | .102 | .069 | .099 | .071 | .049 | .057 | .042 | .029 | .018 | .014 | .009 | |
| 5.0 | .161 | .107 | .068 | .138 | .093 | .059 | .095 | .065 | .042 | .055 | .038 | .025 | .018 | .012 | .008 | |
| 6.0 | .154 | .099 | .059 | .132 | .086 | .052 | .091 | .060 | .037 | .053 | .035 | .022 | .017 | .012 | .007 | |
| 7.0 | .147 | .092 | .053 | .127 | .080 | .046 | .088 | .056 | .033 | .051 | .033 | .019 | .016 | .011 | .006 | |
| 8.0 | .141 | .086 | .048 | .122 | .075 | .042 | .084 | .052 | .030 | .049 | .031 | .018 | .016 | .010 | .006 | |
| 9.0 | .136 | .081 | .044 | .117 | .070 | .039 | .081 | .049 | .027 | .047 | .029 | .016 | .015 | .010 | .005 | |
| 10.0 | .130 | .077 | .041 | .112 | .067 | .036 | .078 | .047 | .026 | .045 | .028 | .015 | .015 | .009 | .005 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

Uncorrected UGR Table

| | | | | | | | | | | |
|---|------------------|------|------|------|----------------|----------------|------|-------------------|------|------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | | | | | | | | | |
| NAME: LED-DL10W-CW-BC | | | | | TYPE:10 | | | WEIGHT: | | |
| DIM.: | | | | | SPEC.:5000K | | | SERIAL No.: | | |
| MFR.: | | | | | SUR.:0.05*0.05 | | | PROTECTION ANGLE: | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 28.2 | 29.5 | 28.5 | 29.7 | 30.0 | 27.9 | 29.3 | 28.2 | 29.5 | 29.7 |
| 3H | 29.2 | 30.4 | 29.5 | 30.7 | 30.9 | 28.8 | 30.0 | 29.1 | 30.3 | 30.6 |
| 4H | 29.5 | 30.7 | 29.9 | 31.0 | 31.3 | 29.1 | 30.2 | 29.4 | 30.5 | 30.8 |
| 6H | 29.7 | 30.8 | 30.1 | 31.1 | 31.4 | 29.2 | 30.3 | 29.6 | 30.6 | 30.9 |
| 8H | 29.8 | 30.8 | 30.1 | 31.1 | 31.5 | 29.2 | 30.3 | 29.6 | 30.6 | 30.9 |
| 12H | 29.8 | 30.8 | 30.2 | 31.2 | 31.5 | 29.2 | 30.3 | 29.6 | 30.6 | 30.9 |
| 4H 2H | 28.6 | 29.8 | 28.9 | 30.1 | 30.3 | 28.4 | 29.6 | 28.7 | 29.8 | 30.1 |
| 3H | 29.8 | 30.8 | 30.2 | 31.1 | 31.5 | 29.5 | 30.5 | 29.8 | 30.8 | 31.2 |
| 4H | 30.2 | 31.2 | 30.6 | 31.5 | 31.9 | 29.8 | 30.8 | 30.2 | 31.1 | 31.5 |
| 6H | 30.5 | 31.4 | 31.0 | 31.7 | 32.2 | 30.1 | 30.9 | 30.5 | 31.3 | 31.7 |
| 8H | 30.6 | 31.4 | 31.1 | 31.8 | 32.2 | 30.1 | 30.9 | 30.6 | 31.3 | 31.7 |
| 12H | 30.7 | 31.4 | 31.2 | 31.8 | 32.3 | 30.2 | 30.9 | 30.6 | 31.3 | 31.7 |
| 8H 4H | 30.4 | 31.1 | 30.8 | 31.5 | 32.0 | 30.0 | 30.8 | 30.4 | 31.2 | 31.6 |
| 6H | 30.8 | 31.4 | 31.3 | 31.8 | 32.3 | 30.3 | 31.0 | 30.8 | 31.4 | 31.9 |
| 8H | 30.9 | 31.5 | 31.4 | 32.0 | 32.5 | 30.5 | 31.0 | 30.9 | 31.5 | 32.0 |
| 12H | 31.1 | 31.6 | 31.6 | 32.1 | 32.6 | 30.6 | 31.1 | 31.1 | 31.5 | 32.1 |
| 12H 4H | 30.3 | 31.0 | 30.8 | 31.5 | 31.9 | 30.0 | 30.7 | 30.4 | 31.1 | 31.6 |
| 6H | 30.8 | 31.3 | 31.3 | 31.8 | 32.3 | 30.4 | 30.9 | 30.8 | 31.4 | 31.9 |
| 8H | 31.0 | 31.5 | 31.5 | 31.9 | 32.5 | 30.5 | 31.0 | 31.0 | 31.5 | 32.0 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | |
| 1.5H | + 0.1 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |
| 2.0H | + 0.4 / - 0.5 | | | | | + 0.4 / - 0.7 | | | | |

CIE Pub.117 Corrected 685.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

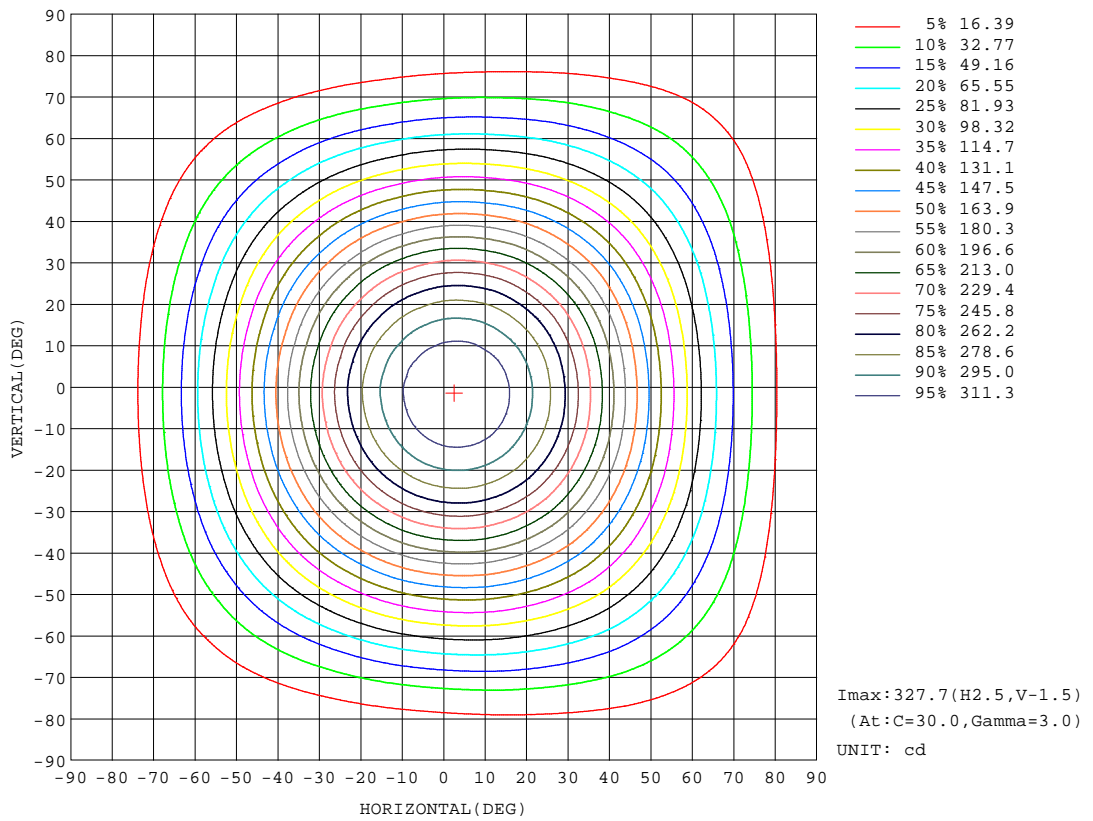
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 63 | 52 | 46 | 62 | 52 | 46 | 61 | 52 | 46 | 40 |
| 0.80 | 73 | 63 | 56 | 72 | 62 | 56 | 70 | 61 | 55 | 49 |
| 1.00 | 81 | 71 | 65 | 80 | 71 | 64 | 77 | 71 | 64 | 57 |
| 1.25 | 88 | 78 | 72 | 86 | 78 | 72 | 83 | 76 | 71 | 64 |
| 1.50 | 92 | 84 | 78 | 90 | 83 | 77 | 87 | 81 | 76 | 69 |
| 2.00 | 98 | 91 | 85 | 96 | 89 | 84 | 93 | 87 | 83 | 75 |
| 2.50 | 101 | 95 | 90 | 99 | 93 | 88 | 95 | 90 | 86 | 78 |
| 3.00 | 104 | 98 | 94 | 102 | 97 | 92 | 98 | 94 | 90 | 82 |
| 4.00 | 108 | 103 | 99 | 105 | 101 | 97 | 101 | 97 | 94 | 85 |
| 5.00 | 110 | 106 | 102 | 107 | 104 | 100 | 102 | 100 | 97 | 88 |
| 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:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |



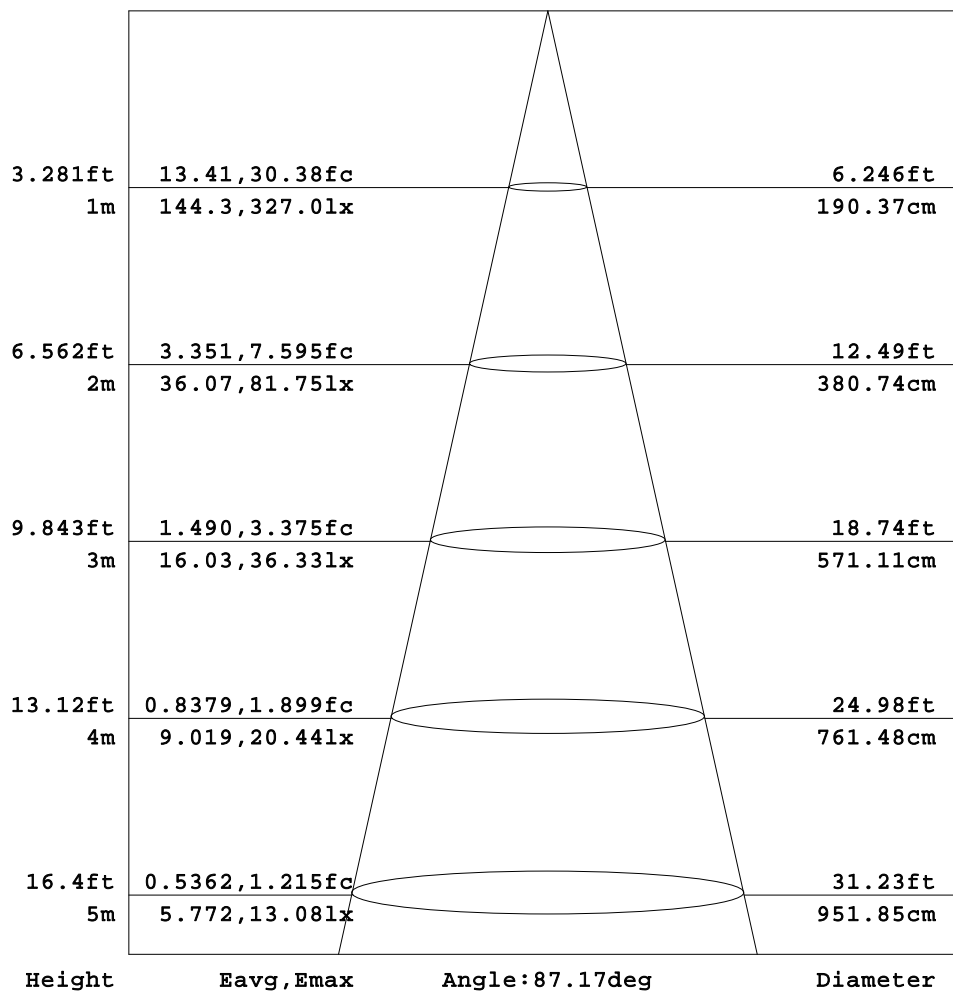
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

AAI Figure

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

Flux out:422.8 lm



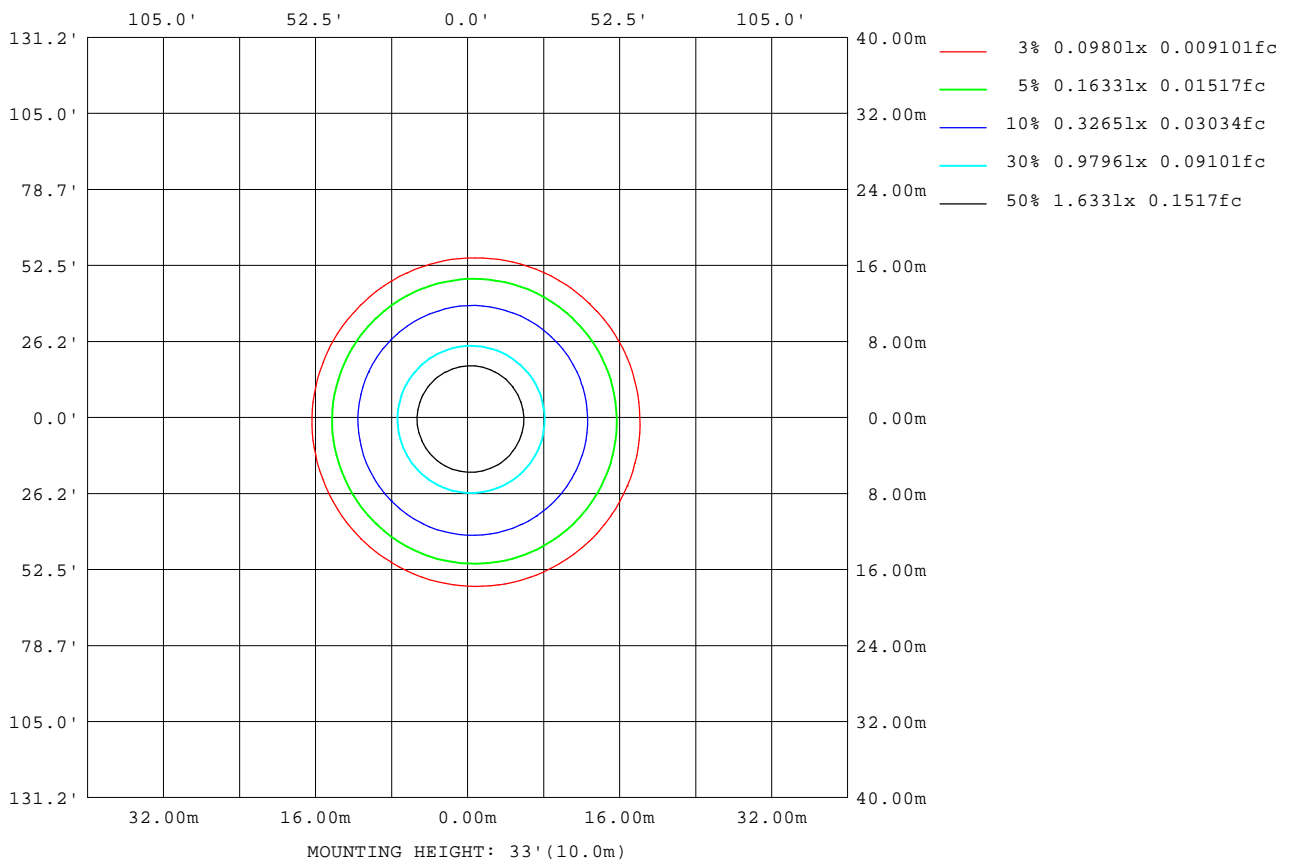
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

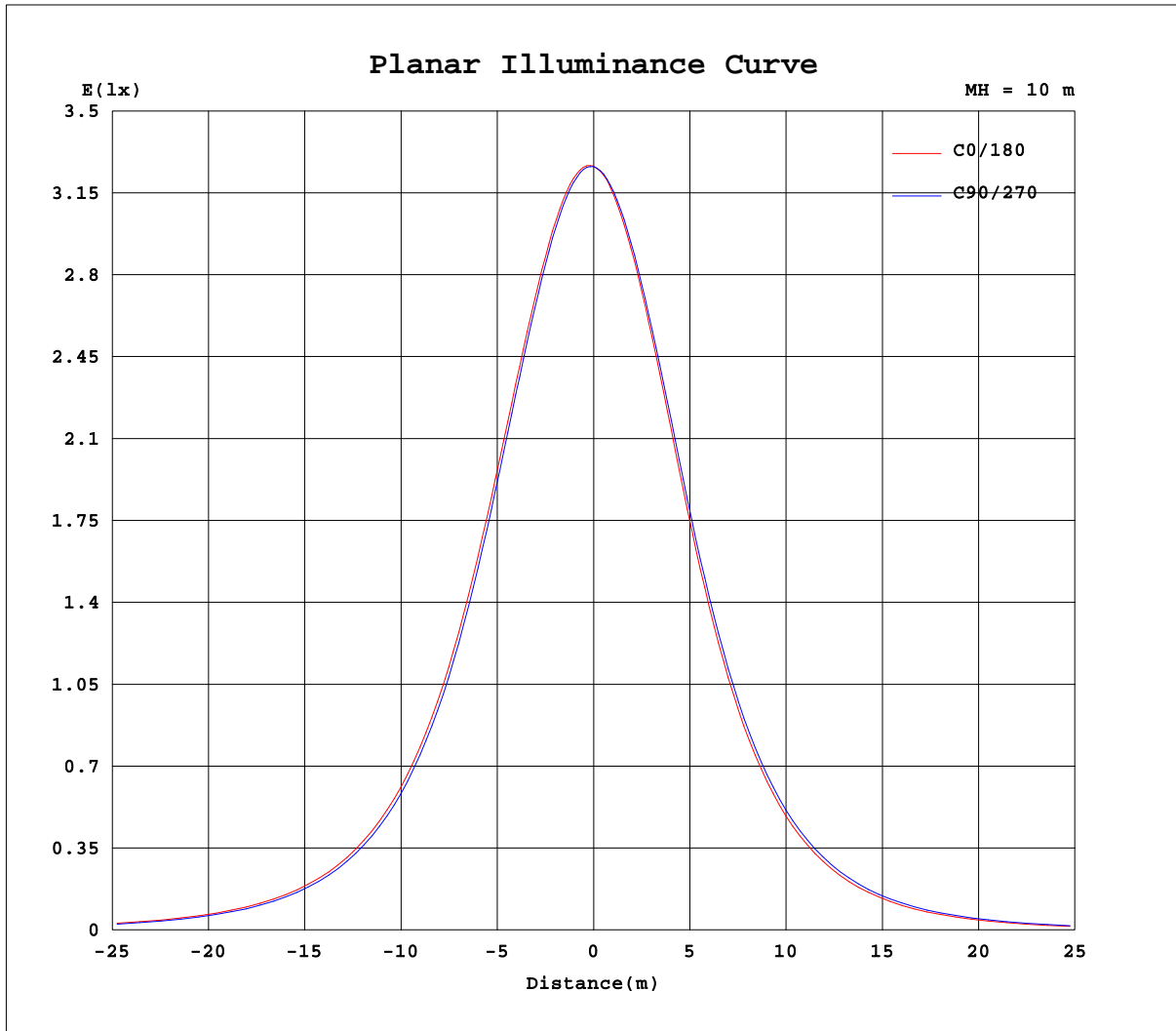
| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.480m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 9.480m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

Table--1

UNIT: 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 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 | 326 |
| 5 | 327 | 327 | 327 | 327 | 327 | 326 | 325 | 324 | 324 | 323 | 322 | 321 | 321 | 320 | 320 | 320 | 321 | 321 | 322 |
| 10 | 322 | 323 | 323 | 323 | 322 | 321 | 320 | 318 | 316 | 314 | 313 | 311 | 310 | 310 | 310 | 310 | 311 | 311 | 313 |
| 15 | 313 | 314 | 315 | 314 | 313 | 311 | 309 | 307 | 304 | 301 | 299 | 297 | 296 | 295 | 294 | 295 | 296 | 297 | 299 |
| 20 | 299 | 301 | 301 | 301 | 299 | 297 | 294 | 291 | 288 | 284 | 281 | 278 | 277 | 275 | 275 | 275 | 277 | 278 | 282 |
| 25 | 281 | 283 | 284 | 283 | 281 | 279 | 275 | 271 | 266 | 262 | 258 | 255 | 253 | 251 | 250 | 251 | 252 | 255 | 259 |
| 30 | 258 | 261 | 261 | 261 | 258 | 255 | 251 | 246 | 241 | 236 | 231 | 227 | 225 | 223 | 223 | 223 | 225 | 227 | 232 |
| 35 | 232 | 234 | 235 | 234 | 232 | 228 | 223 | 218 | 213 | 208 | 202 | 198 | 196 | 194 | 193 | 194 | 196 | 198 | 203 |
| 40 | 203 | 206 | 206 | 206 | 203 | 200 | 195 | 189 | 184 | 178 | 173 | 169 | 166 | 164 | 164 | 164 | 167 | 169 | 174 |
| 45 | 173 | 176 | 177 | 176 | 174 | 171 | 166 | 161 | 155 | 149 | 144 | 140 | 138 | 136 | 136 | 136 | 138 | 141 | 145 |
| 50 | 145 | 147 | 148 | 148 | 145 | 142 | 137 | 132 | 127 | 122 | 116 | 113 | 111 | 109 | 109 | 109 | 111 | 114 | 118 |
| 55 | 117 | 120 | 121 | 121 | 118 | 115 | 110 | 106 | 100 | 95.5 | 90.7 | 87.4 | 85.6 | 83.8 | 83.8 | 84.2 | 86.3 | 88.6 | 92.4 |
| 60 | 92.1 | 94.6 | 95.1 | 94.9 | 92.7 | 89.8 | 85.5 | 81.1 | 76.0 | 71.7 | 67.3 | 64.3 | 62.8 | 61.2 | 61.4 | 61.8 | 63.8 | 65.9 | 69.4 |
| 65 | 69.0 | 71.3 | 71.7 | 71.4 | 69.2 | 66.6 | 62.6 | 58.7 | 54.2 | 50.4 | 46.6 | 44.0 | 42.6 | 41.4 | 41.4 | 41.9 | 43.8 | 45.8 | 48.9 |
| 70 | 48.5 | 50.5 | 50.7 | 50.3 | 48.3 | 45.9 | 42.4 | 39.0 | 35.2 | 32.1 | 29.0 | 26.9 | 26.0 | 24.9 | 25.0 | 25.5 | 27.0 | 28.8 | 31.4 |
| 75 | 31.0 | 32.5 | 32.5 | 32.1 | 30.3 | 28.4 | 25.5 | 22.9 | 20.1 | 17.8 | 15.7 | 14.3 | 14.0 | 13.3 | 13.4 | 13.6 | 14.6 | 15.8 | 17.8 |
| 80 | 17.2 | 18.2 | 18.1 | 17.8 | 16.6 | 15.2 | 13.4 | 11.8 | 10.4 | 9.41 | 8.42 | 7.73 | 7.77 | 7.39 | 7.45 | 7.60 | 8.13 | 8.76 | 9.72 |
| 85 | 9.23 | 9.62 | 9.57 | 9.40 | 8.81 | 8.16 | 7.20 | 6.36 | 5.33 | 4.53 | 3.65 | 2.99 | 2.99 | 2.72 | 2.76 | 2.86 | 3.40 | 3.92 | 4.73 |
| 90 | 4.22 | 4.59 | 4.57 | 4.46 | 4.00 | 3.49 | 2.73 | 2.11 | 1.78 | 1.20 | 1.79 | 1.78 | 2.23 | 2.25 | 2.25 | 2.24 | 2.25 | 2.26 | 2.55 |
| 95 | 1.80 | 2.20 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.78 | 1.79 | 1.80 | 1.80 | 1.82 | 2.19 | 2.20 | 2.20 | 2.20 | 2.22 | 2.19 | 2.22 |
| 100 | 1.85 | 1.82 | 1.79 | 1.80 | 1.80 | 1.82 | 1.79 | 1.82 | 1.85 | 1.85 | 1.84 | 1.87 | 2.19 | 2.20 | 2.19 | 2.20 | 2.19 | 2.20 | 2.20 |
| 105 | 1.89 | 1.87 | 1.83 | 1.87 | 1.82 | 1.87 | 1.89 | 1.88 | 1.90 | 1.92 | 1.92 | 1.95 | 2.22 | 2.20 | 2.23 | 2.21 | 2.21 | 2.21 | 2.20 |
| 110 | 1.94 | 1.94 | 1.93 | 1.93 | 1.94 | 1.94 | 1.90 | 1.96 | 1.96 | 2.01 | 1.97 | 2.04 | 2.28 | 2.23 | 2.28 | 2.23 | 2.28 | 2.22 | 2.25 |
| 115 | 1.98 | 2.02 | 1.97 | 2.02 | 1.98 | 2.04 | 2.01 | 2.06 | 2.05 | 2.10 | 2.09 | 2.15 | 2.36 | 2.34 | 2.37 | 2.33 | 2.35 | 2.34 | 2.32 |
| 120 | 2.08 | 2.14 | 2.11 | 2.13 | 2.11 | 2.14 | 2.14 | 2.19 | 2.16 | 2.22 | 2.22 | 2.27 | 2.45 | 2.42 | 2.47 | 2.43 | 2.45 | 2.41 | 2.42 |
| 125 | 2.25 | 2.26 | 2.23 | 2.24 | 2.21 | 2.27 | 2.23 | 2.28 | 2.27 | 2.34 | 2.32 | 2.39 | 2.58 | 2.53 | 2.59 | 2.52 | 2.56 | 2.52 | 2.52 |
| 130 | 2.33 | 2.37 | 2.32 | 2.37 | 2.32 | 2.39 | 2.35 | 2.43 | 2.40 | 2.48 | 2.45 | 2.52 | 2.70 | 2.68 | 2.72 | 2.68 | 2.70 | 2.62 | 2.65 |
| 135 | 2.48 | 2.51 | 2.46 | 2.50 | 2.46 | 2.51 | 2.52 | 2.55 | 2.53 | 2.60 | 2.58 | 2.65 | 2.83 | 2.79 | 2.84 | 2.78 | 2.82 | 2.78 | 2.78 |
| 140 | 2.61 | 2.64 | 2.60 | 2.63 | 2.60 | 2.64 | 2.61 | 2.68 | 2.72 | 2.74 | 2.73 | 2.79 | 2.97 | 2.97 | 2.97 | 2.92 | 2.94 | 2.87 | 2.91 |
| 145 | 2.79 | 2.77 | 2.76 | 2.77 | 2.75 | 2.78 | 2.77 | 2.82 | 2.79 | 2.88 | 2.86 | 2.91 | 3.08 | 3.04 | 3.09 | 3.06 | 3.06 | 3.00 | 3.03 |
| 150 | 2.87 | 2.91 | 2.86 | 2.90 | 2.86 | 2.92 | 2.88 | 2.95 | 2.94 | 3.01 | 3.00 | 3.05 | 3.20 | 3.16 | 3.20 | 3.14 | 3.18 | 3.12 | 3.13 |
| 155 | 3.02 | 3.05 | 2.99 | 3.05 | 3.00 | 3.05 | 3.03 | 3.09 | 3.06 | 3.13 | 3.15 | 3.18 | 3.29 | 3.27 | 3.30 | 3.25 | 3.29 | 3.21 | 3.24 |
| 160 | 3.15 | 3.19 | 3.15 | 3.18 | 3.15 | 3.20 | 3.15 | 3.23 | 3.21 | 3.26 | 3.25 | 3.30 | 3.40 | 3.36 | 3.40 | 3.37 | 3.38 | 3.32 | 3.36 |
| 165 | 3.33 | 3.33 | 3.28 | 3.33 | 3.33 | 3.33 | 3.33 | 3.36 | 3.33 | 3.39 | 3.40 | 3.45 | 3.49 | 3.48 | 3.50 | 3.43 | 3.47 | 3.46 | 3.45 |
| 170 | 3.40 | 3.45 | 3.41 | 3.45 | 3.40 | 3.45 | 3.42 | 3.47 | 3.46 | 3.49 | 3.50 | 3.53 | 3.56 | 3.52 | 3.56 | 3.51 | 3.54 | 3.50 | 3.53 |
| 175 | 3.54 | 3.55 | 3.52 | 3.54 | 3.51 | 3.53 | 3.52 | 3.55 | 3.50 | 3.56 | 3.53 | 3.59 | 3.60 | 3.60 | 3.59 | 3.58 | 3.59 | 3.59 | 3.58 |
| 180 | 3.61 | 3.60 | 3.60 | 3.61 | 3.60 | 3.58 | 3.58 | 3.60 | 3.58 | 3.58 | 3.59 | 3.60 | 3.60 | 3.60 | 3.59 | 3.59 | 3.59 | 3.58 | 3.59 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|----------------|-------------------|
| Test:U:230.8V I:0.0500A P:10.20W PF:0.8780 Lamp Flux:685.315x1 lm | | |
| NAME: LED-DL10W-CW-BC | TYPE:10 | WEIGHT: |
| DIM.: | SPEC.:5000K | SERIAL No.: |
| MFR.: | SUR.:0.05*0.05 | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 326 | 326 | 326 | 326 | 326 | | | | | | | | | | | | | | |
| 5 | 323 | 324 | 325 | 326 | 326 | | | | | | | | | | | | | | |
| 10 | 315 | 317 | 318 | 320 | 321 | | | | | | | | | | | | | | |
| 15 | 302 | 305 | 307 | 310 | 312 | | | | | | | | | | | | | | |
| 20 | 284 | 288 | 291 | 295 | 298 | | | | | | | | | | | | | | |
| 25 | 263 | 267 | 272 | 276 | 279 | | | | | | | | | | | | | | |
| 30 | 236 | 242 | 247 | 252 | 256 | | | | | | | | | | | | | | |
| 35 | 207 | 214 | 219 | 224 | 229 | | | | | | | | | | | | | | |
| 40 | 178 | 184 | 189 | 195 | 200 | | | | | | | | | | | | | | |
| 45 | 149 | 155 | 160 | 166 | 171 | | | | | | | | | | | | | | |
| 50 | 122 | 127 | 132 | 138 | 142 | | | | | | | | | | | | | | |
| 55 | 96.1 | 101 | 106 | 111 | 115 | | | | | | | | | | | | | | |
| 60 | 72.8 | 77.4 | 81.6 | 86.2 | 89.9 | | | | | | | | | | | | | | |
| 65 | 52.0 | 56.0 | 59.7 | 63.8 | 67.0 | | | | | | | | | | | | | | |
| 70 | 34.0 | 37.5 | 40.5 | 44.1 | 46.8 | | | | | | | | | | | | | | |
| 75 | 19.8 | 22.4 | 24.7 | 27.6 | 29.7 | | | | | | | | | | | | | | |
| 80 | 10.7 | 12.0 | 13.4 | 15.2 | 16.6 | | | | | | | | | | | | | | |
| 85 | 5.54 | 6.60 | 7.52 | 8.53 | 9.25 | | | | | | | | | | | | | | |
| 90 | 2.28 | 2.32 | 2.93 | 3.73 | 4.24 | | | | | | | | | | | | | | |
| 95 | 2.21 | 2.21 | 2.23 | 2.23 | 2.27 | | | | | | | | | | | | | | |
| 100 | 2.19 | 2.19 | 2.19 | 2.21 | 2.21 | | | | | | | | | | | | | | |
| 105 | 2.21 | 2.19 | 2.21 | 2.20 | 2.20 | | | | | | | | | | | | | | |
| 110 | 2.23 | 2.22 | 2.22 | 2.21 | 2.20 | | | | | | | | | | | | | | |
| 115 | 2.25 | 2.28 | 2.23 | 2.26 | 2.22 | | | | | | | | | | | | | | |
| 120 | 2.34 | 2.38 | 2.32 | 2.33 | 2.31 | | | | | | | | | | | | | | |
| 125 | 2.50 | 2.49 | 2.42 | 2.45 | 2.40 | | | | | | | | | | | | | | |
| 130 | 2.61 | 2.60 | 2.58 | 2.56 | 2.50 | | | | | | | | | | | | | | |
| 135 | 2.71 | 2.73 | 2.70 | 2.68 | 2.62 | | | | | | | | | | | | | | |
| 140 | 2.83 | 2.85 | 2.80 | 2.81 | 2.80 | | | | | | | | | | | | | | |
| 145 | 2.95 | 2.99 | 2.91 | 2.93 | 2.87 | | | | | | | | | | | | | | |
| 150 | 3.07 | 3.09 | 3.07 | 3.06 | 3.05 | | | | | | | | | | | | | | |
| 155 | 3.19 | 3.21 | 3.15 | 3.17 | 3.15 | | | | | | | | | | | | | | |
| 160 | 3.30 | 3.32 | 3.26 | 3.29 | 3.23 | | | | | | | | | | | | | | |
| 165 | 3.40 | 3.43 | 3.39 | 3.40 | 3.35 | | | | | | | | | | | | | | |
| 170 | 3.50 | 3.51 | 3.51 | 3.50 | 3.50 | | | | | | | | | | | | | | |
| 175 | 3.58 | 3.57 | 3.52 | 3.56 | 3.54 | | | | | | | | | | | | | | |
| 180 | 3.59 | 3.58 | 3.60 | 3.59 | 3.61 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2013-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks: