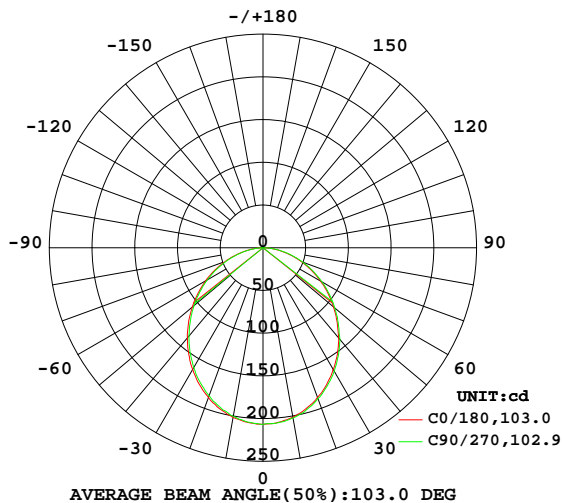


LUMINAIRE PHOTOMETRIC TEST REPORT

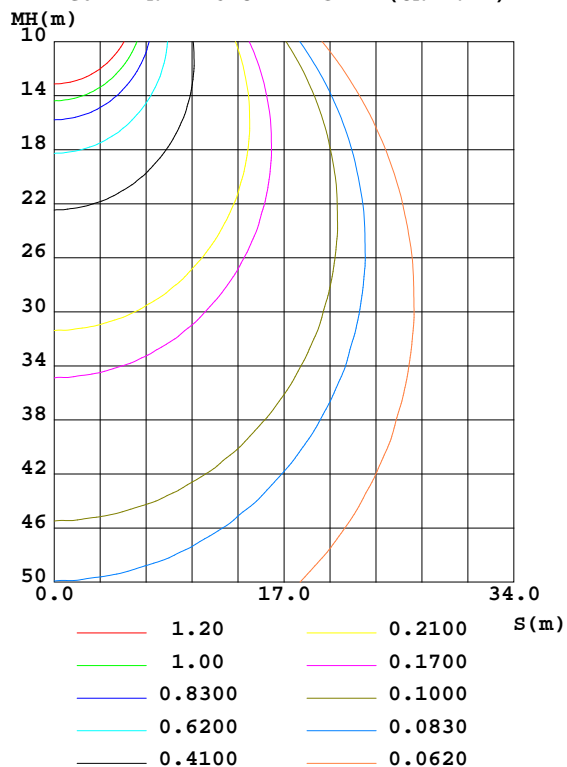
| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAL1 Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 122.75 lm/W | | | |
|------------------|------------------|-----------------------------------|--------|------------------------|----------|
| MODEL | R2DG200821800-10 | Imax(cd) | 207.4 | S/MH(C0/180) | 1.19 |
| NOMINAL POWER(W) | 4 | LOR(%) | 100.0 | S/MH(C90/270) | 1.20 |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 535.19 | η UP,DN(C0-180) | 0.1,49.2 |
| NOMINAL FLUX(lm) | 535.186 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,50.7 |
| LAMPS INSIDE | 1 | η up(%) | 0.1 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 230 | η down(%) | 99.9 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [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 | 201.7 | 200.9 | 200.4 | 200.7 | 201.5 | 202.0 | 202.3 | 202.7 | 0- 10 | 19.48 | 19.48 | 3.64,3.64 |
| 20 | 186.6 | 185.3 | 184.5 | 185.9 | 186.3 | 188.1 | 187.9 | 187.9 | 10- 20 | 55.01 | 74.49 | 13.9,13.9 |
| 30 | 164.7 | 163.2 | 162.1 | 163.6 | 164.4 | 166.6 | 166.8 | 166.1 | 20- 30 | 81.24 | 155.7 | 29.1,29.1 |
| 40 | 137.7 | 135.8 | 135.0 | 135.9 | 137.8 | 140.3 | 140.2 | 139.2 | 30- 40 | 94.82 | 250.6 | 46.8,46.8 |
| 50 | 108.2 | 106.4 | 105.5 | 106.5 | 107.7 | 109.7 | 109.7 | 109.2 | 40- 50 | 94.72 | 345.3 | 64.5,64.5 |
| 60 | 77.46 | 76.14 | 75.33 | 76.35 | 77.78 | 79.44 | 79.50 | 78.61 | 50- 60 | 82.93 | 428.2 | 80,80 |
| 70 | 47.02 | 45.78 | 45.25 | 46.20 | 47.83 | 49.46 | 49.53 | 48.57 | 60- 70 | 61.76 | 490.0 | 91.6,91.6 |
| 80 | 19.43 | 18.47 | 18.33 | 19.10 | 20.34 | 21.58 | 21.80 | 20.89 | 70- 80 | 35.26 | 525.2 | 98.1,98.1 |
| 90 | 0.0294 | 0.0278 | 0.0287 | 0.0367 | 0.1898 | 0.3373 | 0.1797 | 0.0226 | 80- 90 | 9.325 | 534.5 | 99.9,99.9 |
| 100 | 0.0432 | 0.0441 | 0.0447 | 0.0437 | 0.0138 | 0.0134 | 0.0129 | 0.0132 | 90-100 | 0.0283 | 534.6 | 99.9,99.9 |
| 110 | 0.0557 | 0.0571 | 0.0574 | 0.0571 | 0.0299 | 0.0289 | 0.0282 | 0.0289 | 100-110 | 0.0377 | 534.6 | 99.9,99.9 |
| 120 | 0.0759 | 0.0779 | 0.0780 | 0.0781 | 0.0526 | 0.0514 | 0.0501 | 0.0514 | 110-120 | 0.0524 | 534.7 | 99.9,99.9 |
| 130 | 0.1207 | 0.1223 | 0.1234 | 0.1224 | 0.0770 | 0.0758 | 0.0749 | 0.0756 | 120-130 | 0.0719 | 534.7 | 99.9,99.9 |
| 140 | 0.2056 | 0.2071 | 0.2071 | 0.2074 | 0.1038 | 0.1036 | 0.1018 | 0.1019 | 130-140 | 0.0959 | 534.8 | 99.9,99.9 |
| 150 | 0.3189 | 0.3212 | 0.3223 | 0.3221 | 0.1347 | 0.1334 | 0.1330 | 0.1326 | 140-150 | 0.1200 | 535.0 | 100,100 |
| 160 | 0.3967 | 0.3986 | 0.3998 | 0.3991 | 0.1773 | 0.1781 | 0.1760 | 0.1754 | 150-160 | 0.1199 | 535.1 | 100,100 |
| 170 | 0.3644 | 0.3658 | 0.3653 | 0.3669 | 0.2095 | 0.2119 | 0.2099 | 0.2091 | 160-170 | 0.0826 | 535.2 | 100,100 |
| 180 | 0.2940 | 0.2978 | 0.2974 | 0.2976 | 0.2975 | 0.2957 | 0.2979 | 0.2978 | 170-180 | 0.0276 | 535.2 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 298.7 lm

%lum = 55.8%

%lamp = 55.8%

Conical surface Flux(120deg): 428.2 lm

%lum = 80.0%

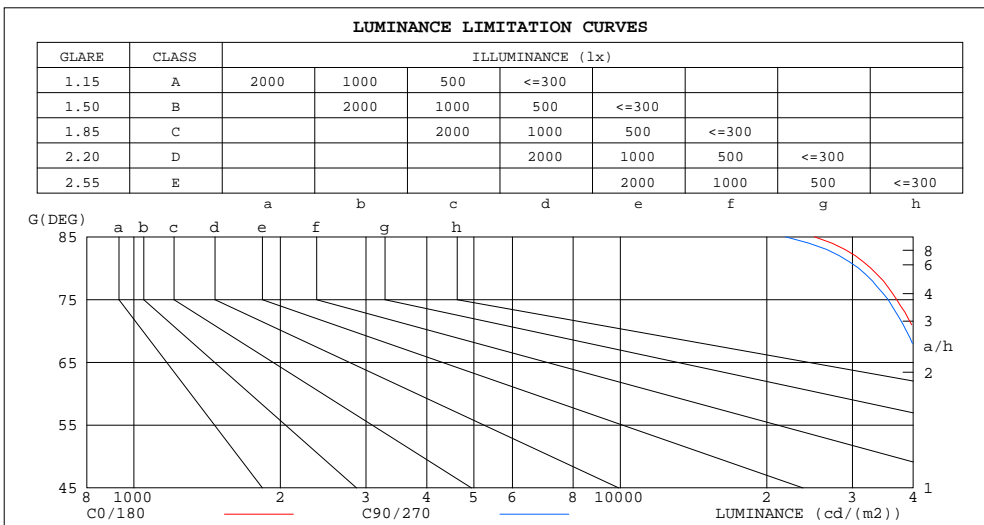
%lamp = 80.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAll Photoelectricity | SUR.:N/A | Shielding Angle:N/A |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 25071 | 21860 |
| 80 | 32747 | 30897 |
| 75 | 36977 | 35524 |
| 70 | 40238 | 38726 |
| 65 | 43094 | 41600 |
| 60 | 45338 | 44102 |
| 55 | 47310 | 46103 |
| 50 | 49272 | 48043 |
| 45 | 51019 | 49739 |

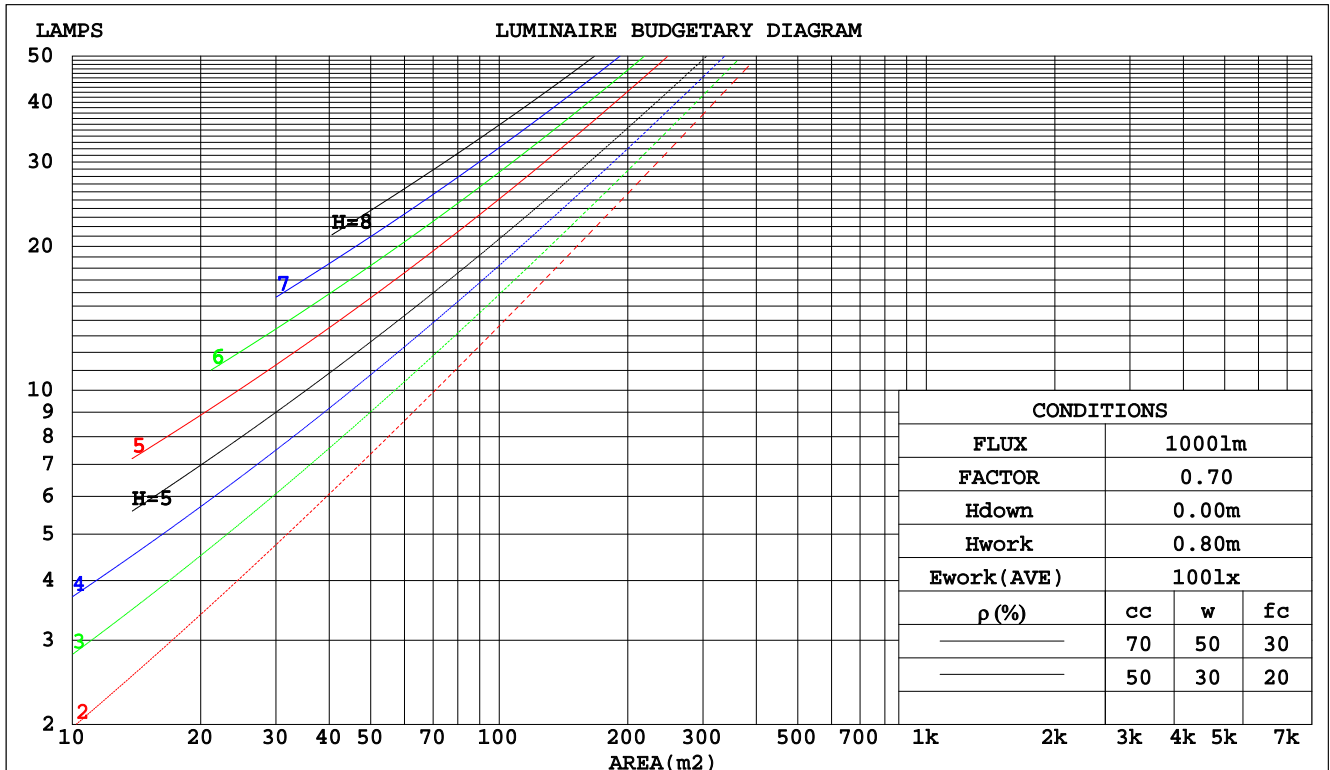
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.492m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAll Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

| 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 | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.04 | 1.00 | .96 | 1.02 | .98 | .95 | .98 | .95 | .92 | .94 | .91 | .89 | .90 | .88 | .86 | .84 |
| 2.0 | .91 | .84 | .79 | .89 | .83 | .78 | .86 | .80 | .76 | .82 | .78 | .74 | .79 | .76 | .73 | .70 |
| 3.0 | .80 | .72 | .66 | .79 | .71 | .65 | .76 | .69 | .64 | .73 | .67 | .63 | .70 | .66 | .62 | .60 |
| 4.0 | .71 | .63 | .56 | .70 | .62 | .56 | .67 | .60 | .55 | .65 | .59 | .54 | .63 | .58 | .53 | .51 |
| 5.0 | .64 | .55 | .48 | .63 | .54 | .48 | .61 | .53 | .48 | .59 | .52 | .47 | .57 | .51 | .46 | .44 |
| 6.0 | .58 | .49 | .42 | .57 | .48 | .42 | .55 | .47 | .42 | .53 | .46 | .41 | .51 | .46 | .41 | .39 |
| 7.0 | .52 | .44 | .37 | .51 | .43 | .37 | .50 | .42 | .37 | .48 | .42 | .37 | .47 | .41 | .37 | .35 |
| 8.0 | .48 | .39 | .34 | .47 | .39 | .33 | .46 | .38 | .33 | .44 | .38 | .33 | .43 | .37 | .33 | .31 |
| 9.0 | .44 | .36 | .30 | .43 | .35 | .30 | .42 | .35 | .30 | .41 | .35 | .30 | .40 | .34 | .30 | .28 |
| 10.0 | .41 | .33 | .27 | .40 | .33 | .27 | .39 | .32 | .27 | .38 | .32 | .27 | .37 | .31 | .27 | .25 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.492m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | | | | | | | |
|--|--|--|-----------|--|--|---------------------|--|--|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | | | | | | | |
| NAME: LED Down Light | | | TYPE:N/A | | | WEIGHT:N/A | | |
| SPEC.:N/A | | | DIM.: N/A | | | SERIAL No.:N/A | | |
| MFR.: ULAll Photoelectricity | | | SUR.:N/A | | | Shielding Angle:N/A | | |

| 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 | .302 | .172 | .054 | .295 | .168 | .054 | .282 | .162 | .052 | .270 | .156 | .050 | .258 | .150 | .048 | |
| 2.0 | .285 | .156 | .048 | .279 | .154 | .047 | .267 | .149 | .046 | .256 | .144 | .045 | .246 | .139 | .044 | |
| 3.0 | .264 | .141 | .042 | .259 | .139 | .042 | .249 | .135 | .041 | .239 | .131 | .040 | .230 | .127 | .039 | |
| 4.0 | .244 | .127 | .037 | .240 | .125 | .037 | .230 | .122 | .036 | .222 | .119 | .036 | .214 | .116 | .035 | |
| 5.0 | .226 | .115 | .033 | .222 | .114 | .033 | .214 | .111 | .033 | .206 | .109 | .032 | .199 | .106 | .032 | |
| 6.0 | .210 | .105 | .030 | .206 | .104 | .030 | .199 | .102 | .030 | .192 | .100 | .029 | .186 | .098 | .029 | |
| 7.0 | .196 | .097 | .027 | .192 | .096 | .027 | .186 | .094 | .027 | .180 | .092 | .027 | .174 | .090 | .027 | |
| 8.0 | .183 | .089 | .025 | .180 | .089 | .025 | .174 | .087 | .025 | .169 | .085 | .025 | .164 | .084 | .024 | |
| 9.0 | .172 | .083 | .023 | .169 | .082 | .023 | .164 | .081 | .023 | .159 | .080 | .023 | .154 | .078 | .023 | |
| 10.0 | .162 | .077 | .022 | .159 | .077 | .021 | .154 | .076 | .021 | .150 | .074 | .021 | .146 | .073 | .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 | .191 | .191 | .191 | .164 | .164 | .164 | .112 | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 | |
| 1.0 | .181 | .157 | .136 | .155 | .135 | .117 | .106 | .093 | .081 | .061 | .054 | .047 | .019 | .017 | .015 | |
| 2.0 | .172 | .133 | .100 | .148 | .114 | .086 | .101 | .079 | .060 | .058 | .046 | .035 | .019 | .015 | .011 | |
| 3.0 | .164 | .115 | .076 | .141 | .099 | .066 | .097 | .069 | .046 | .056 | .040 | .027 | .018 | .013 | .009 | |
| 4.0 | .157 | .102 | .060 | .134 | .088 | .052 | .092 | .061 | .037 | .053 | .036 | .022 | .017 | .012 | .007 | |
| 5.0 | .149 | .091 | .049 | .128 | .079 | .042 | .088 | .055 | .030 | .051 | .032 | .018 | .016 | .011 | .006 | |
| 6.0 | .142 | .083 | .041 | .122 | .072 | .035 | .084 | .050 | .025 | .049 | .030 | .015 | .016 | .010 | .005 | |
| 7.0 | .135 | .076 | .035 | .116 | .066 | .030 | .080 | .046 | .021 | .047 | .027 | .013 | .015 | .009 | .004 | |
| 8.0 | .129 | .070 | .030 | .111 | .061 | .026 | .077 | .043 | .019 | .045 | .025 | .011 | .014 | .008 | .004 | |
| 9.0 | .123 | .065 | .026 | .106 | .057 | .023 | .073 | .040 | .016 | .043 | .024 | .010 | .014 | .008 | .003 | |
| 10.0 | .117 | .061 | .024 | .101 | .053 | .021 | .070 | .037 | .015 | .041 | .022 | .009 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|---------------|------------------|------|------|-----------|----------------|------|---------------------|------|------|------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | | | | | | | | | | |
| NAME: LED Down Light | | | | | TYPE:N/A | | | WEIGHT:N/A | | | |
| SPEC.:N/A | | | | | DIM.: N/A | | | SERIAL No.:N/A | | | |
| MFR.: ULAL1L Photoelectricity | | | | | SUR.:N/A | | | Shielding Angle:N/A | | | |
| 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 | 28.3 | 29.8 | 28.5 | 30.0 | 30.2 | 28.1 | 29.6 | 28.4 | 29.8 | 30.1 | |
| | 3H | 29.7 | 31.1 | 30.0 | 31.3 | 31.5 | 29.5 | 30.9 | 29.8 | 31.1 | 31.4 |
| | 4H | 30.2 | 31.6 | 30.6 | 31.8 | 32.1 | 30.1 | 31.4 | 30.4 | 31.6 | 31.9 |
| | 6H | 30.6 | 31.9 | 31.0 | 32.1 | 32.4 | 30.5 | 31.7 | 30.8 | 32.0 | 32.2 |
| | 8H | 30.8 | 32.0 | 31.1 | 32.2 | 32.5 | 30.6 | 31.8 | 30.9 | 32.0 | 32.3 |
| | 12H | 30.8 | 32.0 | 31.2 | 32.3 | 32.6 | 30.6 | 31.7 | 31.0 | 32.0 | 32.4 |
| 4H | 2H | 28.8 | 30.1 | 29.1 | 30.4 | 30.6 | 28.7 | 30.0 | 29.0 | 30.3 | 30.5 |
| | 3H | 30.4 | 31.6 | 30.8 | 31.9 | 32.2 | 30.3 | 31.4 | 30.6 | 31.7 | 32.0 |
| | 4H | 31.1 | 32.2 | 31.5 | 32.5 | 32.8 | 31.0 | 32.0 | 31.3 | 32.3 | 32.7 |
| | 6H | 31.6 | 32.6 | 32.0 | 32.9 | 33.3 | 31.5 | 32.4 | 31.9 | 32.7 | 33.1 |
| | 8H | 31.8 | 32.7 | 32.2 | 33.0 | 33.4 | 31.6 | 32.5 | 32.0 | 32.8 | 33.2 |
| | 12H | 31.9 | 32.7 | 32.3 | 33.1 | 33.5 | 31.7 | 32.5 | 32.1 | 32.9 | 33.3 |
| 8H | 4H | 31.3 | 32.2 | 31.7 | 32.6 | 33.0 | 31.2 | 32.1 | 31.6 | 32.4 | 32.8 |
| | 6H | 32.0 | 32.7 | 32.4 | 33.1 | 33.5 | 31.8 | 32.6 | 32.3 | 33.0 | 33.4 |
| | 8H | 32.2 | 32.9 | 32.7 | 33.3 | 33.7 | 32.1 | 32.7 | 32.5 | 33.1 | 33.6 |
| | 12H | 32.4 | 32.9 | 32.9 | 33.4 | 33.9 | 32.2 | 32.7 | 32.7 | 33.2 | 33.7 |
| 12H | 4H | 31.3 | 32.1 | 31.8 | 32.5 | 32.9 | 31.2 | 32.0 | 31.6 | 32.4 | 32.8 |
| | 6H | 32.0 | 32.7 | 32.5 | 33.1 | 33.5 | 31.9 | 32.5 | 32.3 | 33.0 | 33.4 |
| | 8H | 32.3 | 32.9 | 32.8 | 33.3 | 33.8 | 32.1 | 32.7 | 32.6 | 33.1 | 33.6 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | | |
| 2.0H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.3 | | | | | |

CIE Pub.117, 535.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.2)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAll Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

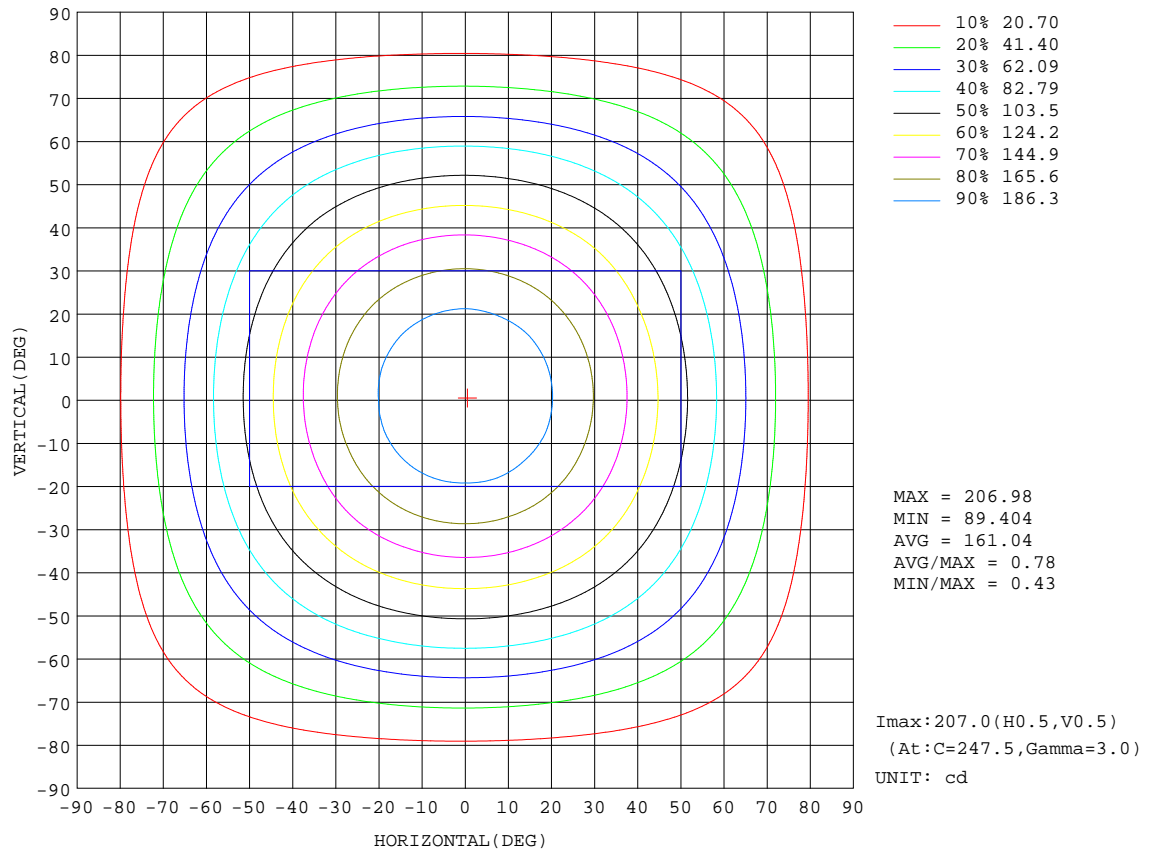
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 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 | 59 | 47 | 41 | 58 | 47 | 40 | 57 | 47 | 40 | 34 |
| 0.80 | 69 | 57 | 50 | 68 | 57 | 50 | 66 | 56 | 50 | 43 |
| 1.00 | 77 | 66 | 59 | 76 | 66 | 59 | 74 | 67 | 58 | 51 |
| 1.25 | 84 | 74 | 67 | 83 | 73 | 66 | 80 | 72 | 66 | 58 |
| 1.50 | 89 | 79 | 73 | 87 | 78 | 72 | 84 | 77 | 71 | 64 |
| 2.00 | 96 | 87 | 81 | 94 | 86 | 80 | 90 | 84 | 79 | 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 | 92 | 84 |
| 5.00 | 109 | 104 | 100 | 107 | 102 | 99 | 102 | 99 | 96 | 87 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | | | | | | | |
| Suspended | | | | | | | | | | |
| SHRNM = 1.25 | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAL1 Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

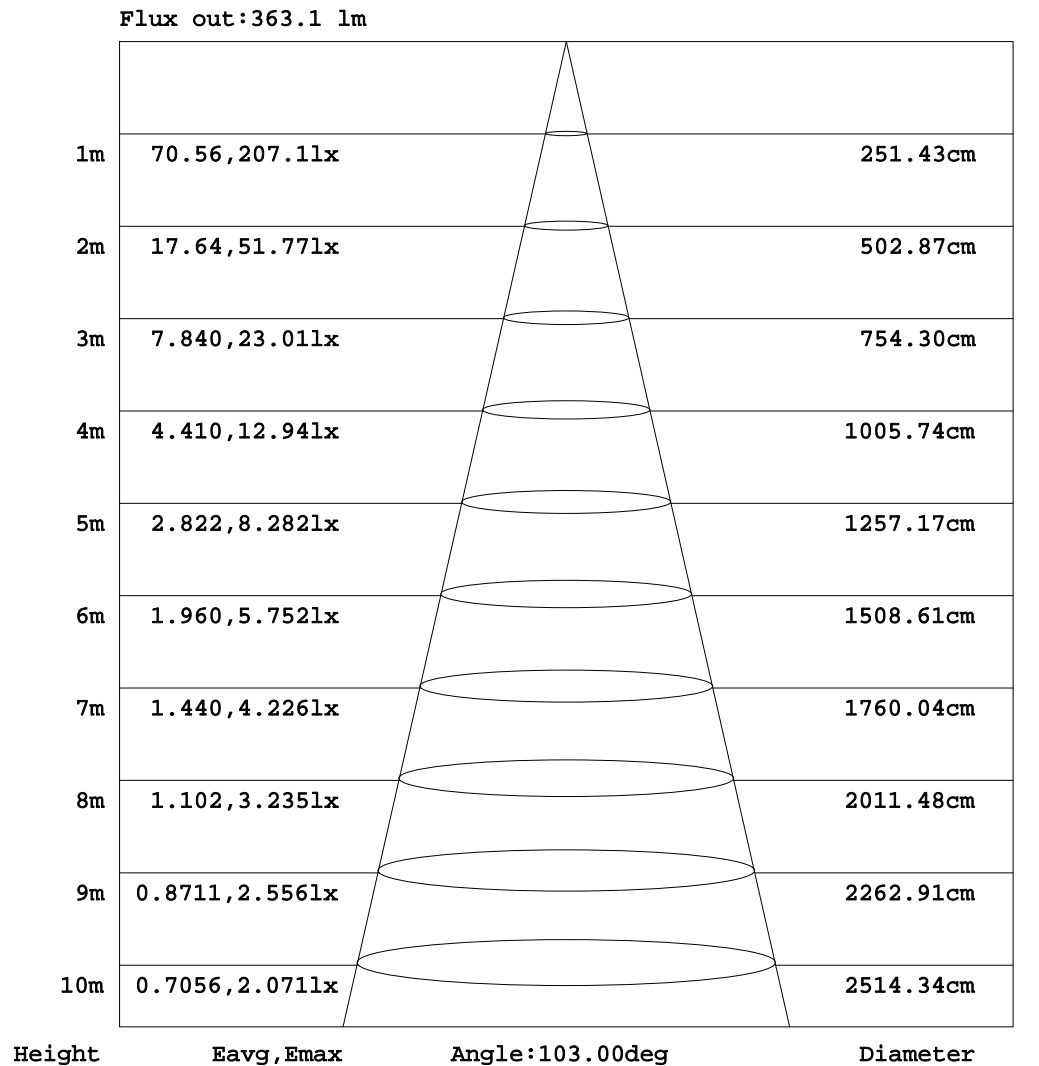


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature: 24.8DEG
Operators: Ben
Test Date: 2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity: 35%
Test Distance: 2.492m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAL1L Photoelectricity | SUR.:N/A | Shielding Angle:N/A |



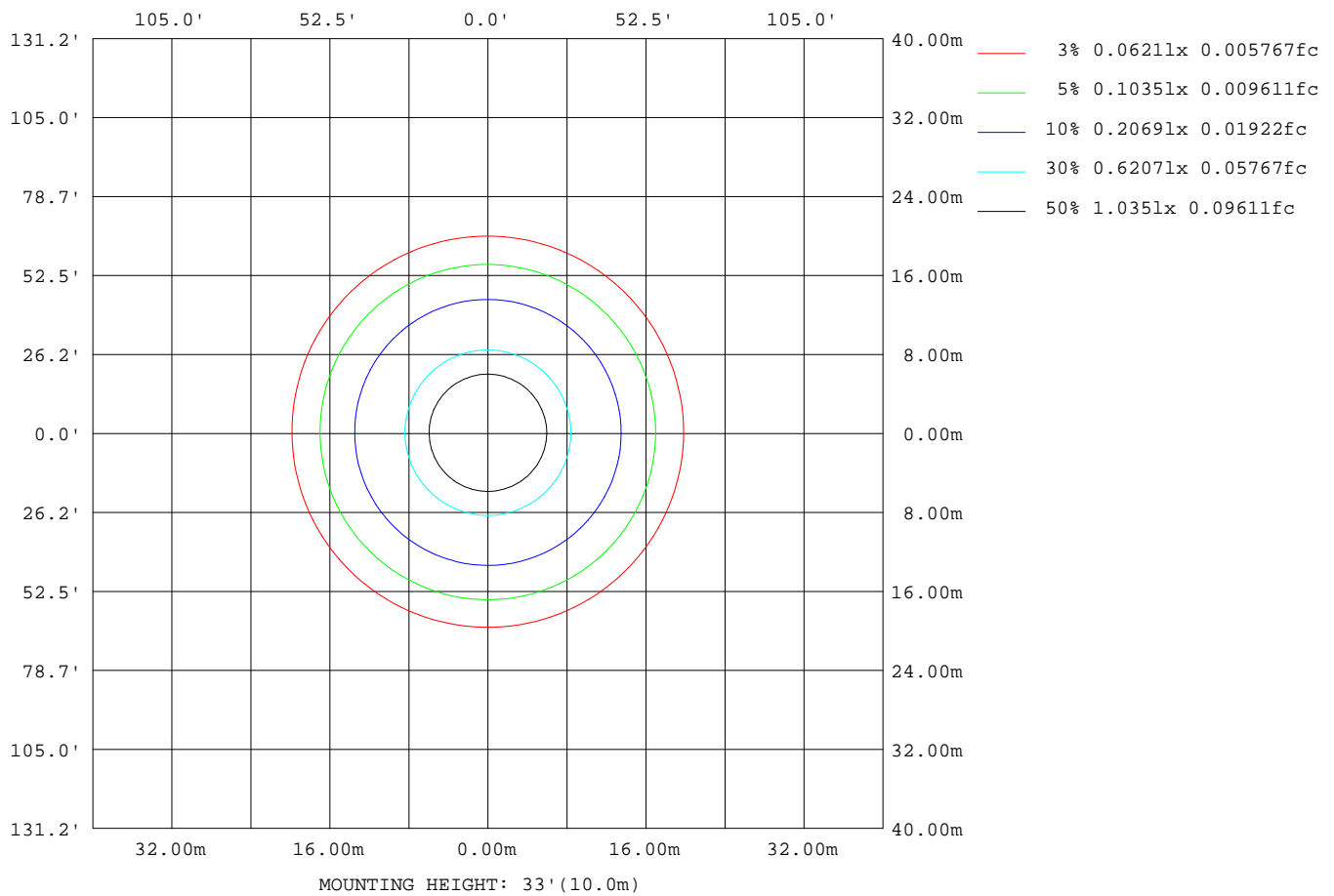
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAll Photoelectricity | SUR.:N/A | Shielding Angle:N/A |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature:24.8DEG
 Operators:Ben
 Test Date:2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity:35%
 Test Distance:2.492m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAL1L Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

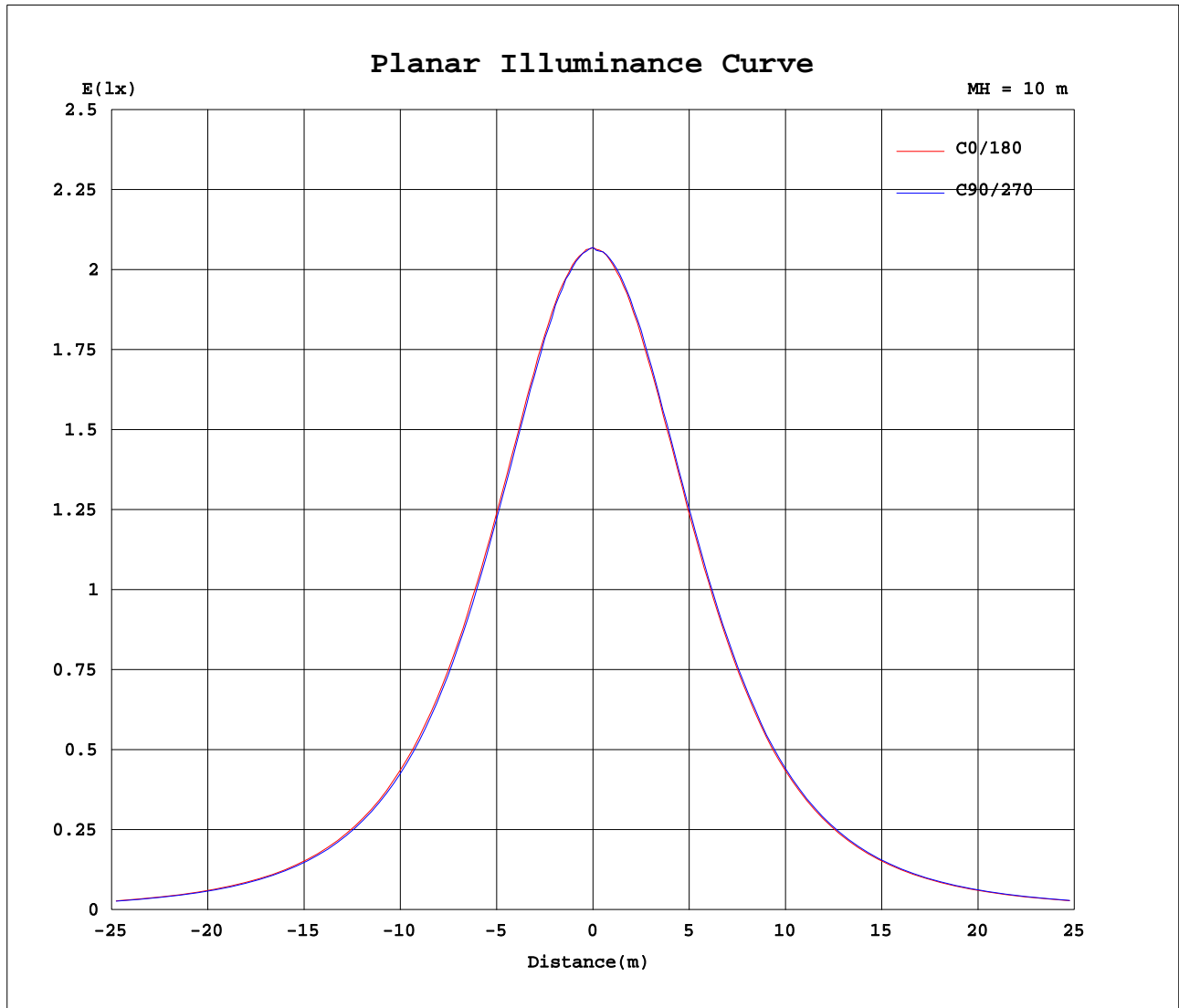
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 43204 |
| L_0~180(75)av | 37482 |
| L_0~180(85)av | 26676 |
| L_90~270(65)av | 43095 |
| L_90~270(75)av | 37637 |
| L_90~270(85)av | 26714 |
| L_45(65)av | 43219 |
| L_45(75)av | 37589 |
| L_45(85)av | 26770 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: 10.0deg/s
 Temperature: 24.8DEG
 Operators: Ben
 Test Date: 2020-09-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.351
 Humidity: 35%
 Test Distance: 2.492m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------|---------------------|
| Test:U:230.02V I:0.0201A P:4.3600W PF:0.9411 Freq:50.00Hz Lamp Flux:535.186x1 lm | | |
| NAME: LED Down Light | TYPE:N/A | WEIGHT:N/A |
| SPEC.:N/A | DIM.: N/A | SERIAL No.:N/A |
| MFR.: ULAll Photoelectricity | SUR.:N/A | Shielding Angle:N/A |

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 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | | | |
| 5 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 205 | 206 | 206 | 206 | 206 | 206 | 205 | | | |
| 10 | 202 | 201 | 201 | 201 | 200 | 200 | 201 | 201 | 202 | 202 | 202 | 203 | 202 | 203 | 203 | 202 | | | |
| 15 | 195 | 195 | 194 | 194 | 193 | 194 | 194 | 195 | 195 | 195 | 196 | 197 | 197 | 197 | 197 | 196 | | | |
| 20 | 187 | 186 | 185 | 185 | 184 | 185 | 186 | 186 | 186 | 188 | 188 | 189 | 188 | 188 | 188 | 187 | | | |
| 25 | 176 | 176 | 175 | 175 | 174 | 174 | 175 | 176 | 177 | 177 | 178 | 179 | 178 | 179 | 178 | 177 | | | |
| 30 | 165 | 164 | 163 | 162 | 162 | 162 | 164 | 164 | 164 | 166 | 167 | 167 | 167 | 167 | 166 | 166 | | | |
| 35 | 152 | 151 | 150 | 149 | 149 | 150 | 150 | 151 | 152 | 153 | 154 | 154 | 154 | 154 | 153 | 153 | | | |
| 40 | 138 | 137 | 136 | 135 | 135 | 135 | 136 | 137 | 138 | 139 | 140 | 140 | 140 | 140 | 139 | 138 | | | |
| 45 | 123 | 122 | 122 | 121 | 120 | 121 | 121 | 122 | 123 | 124 | 125 | 125 | 125 | 124 | 124 | 123 | | | |
| 50 | 108 | 107 | 106 | 106 | 105 | 106 | 107 | 108 | 108 | 109 | 110 | 110 | 110 | 110 | 109 | 108 | | | |
| 55 | 92.7 | 91.8 | 91.3 | 90.8 | 90.3 | 90.8 | 91.2 | 92.4 | 92.7 | 93.8 | 94.7 | 95.1 | 94.7 | 94.4 | 93.8 | 93.0 | | | |
| 60 | 77.5 | 76.7 | 76.1 | 75.6 | 75.3 | 75.5 | 76.3 | 77.1 | 77.8 | 78.6 | 79.4 | 80.1 | 79.5 | 79.2 | 78.6 | 77.7 | | | |
| 65 | 62.2 | 61.4 | 60.9 | 60.4 | 60.1 | 60.4 | 61.2 | 62.1 | 62.6 | 63.7 | 64.2 | 64.7 | 64.5 | 64.0 | 63.5 | 62.8 | | | |
| 70 | 47.0 | 46.2 | 45.8 | 45.4 | 45.2 | 45.6 | 46.2 | 47.0 | 47.8 | 48.7 | 49.5 | 49.8 | 49.5 | 49.1 | 48.6 | 47.8 | | | |
| 75 | 32.7 | 32.1 | 31.5 | 31.4 | 31.4 | 31.7 | 32.2 | 32.9 | 33.6 | 34.4 | 35.0 | 35.3 | 35.2 | 34.9 | 34.3 | 33.6 | | | |
| 80 | 19.4 | 18.9 | 18.5 | 18.3 | 18.3 | 18.6 | 19.1 | 19.7 | 20.3 | 21.1 | 21.6 | 21.9 | 21.8 | 21.5 | 20.9 | 20.2 | | | |
| 85 | 7.47 | 7.03 | 6.70 | 6.54 | 6.51 | 6.77 | 7.27 | 7.84 | 8.43 | 8.94 | 9.34 | 9.55 | 9.41 | 9.09 | 8.60 | 8.05 | | | |
| 90 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.07 | 0.19 | 0.30 | 0.34 | 0.29 | 0.18 | 0.09 | 0.02 | 0.00 | | | |
| 95 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | |
| 100 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | |
| 105 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | | |
| 110 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | | | |
| 115 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | | |
| 120 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | | |
| 125 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | |
| 130 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | | | |
| 135 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | | | |
| 140 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | | | |
| 145 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | | | |
| 150 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | | | |
| 155 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | | |
| 160 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | | | |
| 165 | 0.39 | 0.39 | 0.39 | 0.40 | 0.39 | 0.39 | 0.39 | 0.39 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | | | |
| 170 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | | | |
| 175 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.24 | 0.24 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | | | |
| 180 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: 10.0deg/s
Temperature:24.8DEG
Operators:Ben
Test Date:2020-09-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.351
Humidity:35%
Test Distance:2.492m [K=1.0000]
Remarks: