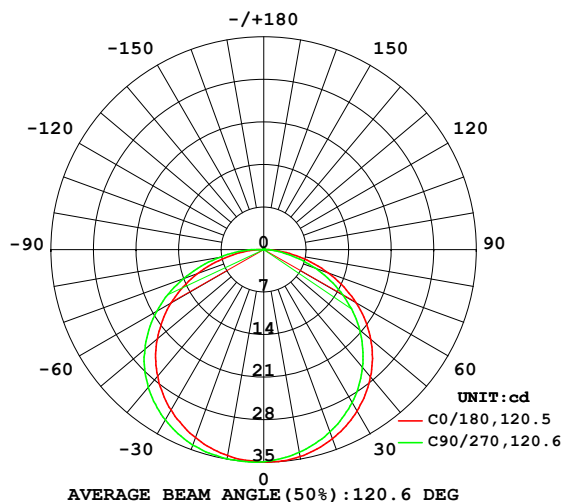


## LUMINAIRE PHOTOMETRIC TEST REPORT

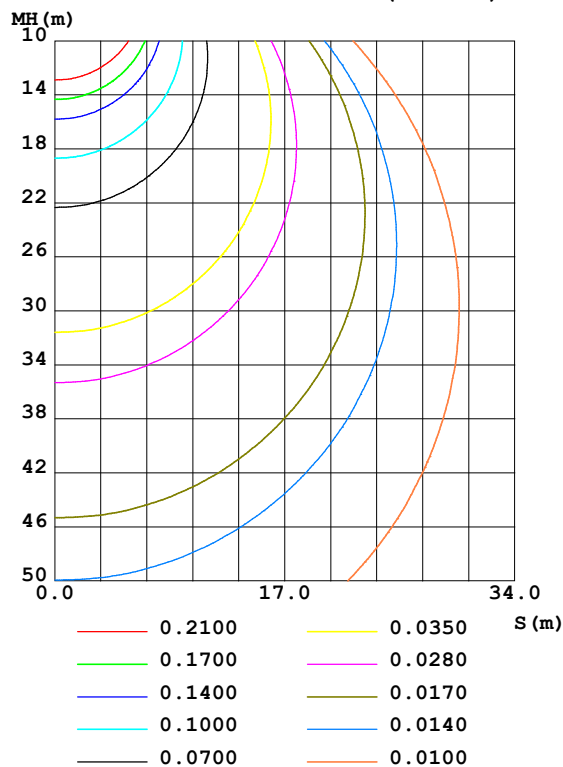
|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.57lx1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 22.31 lm/W |        |                     |           |
|-------------------|---------|----------------------------------|--------|---------------------|-----------|
| MODEL             |         | I <sub>max</sub> (cd)            | 35.17  | S/MH (C0/180)       | 1.30      |
| NOMINAL POWER (W) |         | LOR (%)                          | 100.0  | S/MH (C90/270)      | 1.38      |
| RATED VOLTAGE (V) |         | TOTAL FLUX (lm)                  | 110.57 | η UP, DN (C0-180)   | 0.3, 45.9 |
| NOMINAL FLUX (lm) | 110.571 | CIE CLASS                        | DIRECT | η UP, DN (C180-360) | 0.4, 53.4 |
| LAMPS INSIDE      | 1       | η up (%)                         | 0.7    | CIBSE SHR NOM       | 1.50      |
| TEST VOLTAGE (V)  |         | η down (%)                       | 99.3   | CIBSE SHR MAX       | 1.50      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG=  
C Interval: 22.5DEG=  
Test Speed: HIGH=  
Temperature: 25.3DEG=  
Test Date: 2021-05-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
Humidity: 65.0%  
Test Distance: 9.660m [K=1.0000]

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 34.57                 | 34.07  | 33.85  | 34.06  | 34.39  | 34.78  | 34.94  | 34.84  | 0- 10    | 3.312       | 3.312        | 3,3       |
| 20       | 33.10                 | 32.23  | 31.92  | 32.17  | 32.93  | 33.80  | 34.22  | 33.81  | 10- 20   | 9.576       | 12.89        | 11.7,11.7 |
| 30       | 30.73                 | 29.45  | 29.07  | 29.37  | 30.50  | 31.86  | 32.37  | 31.85  | 20- 30   | 14.76       | 27.65        | 25,25     |
| 40       | 27.33                 | 25.71  | 25.29  | 25.71  | 27.18  | 28.87  | 29.56  | 28.82  | 30- 40   | 18.24       | 45.89        | 41.5,41.5 |
| 50       | 23.00                 | 21.04  | 20.64  | 21.08  | 22.86  | 24.81  | 25.56  | 24.70  | 40- 50   | 19.52       | 65.41        | 59.2,59.2 |
| 60       | 17.62                 | 15.59  | 15.09  | 15.70  | 17.64  | 19.64  | 20.35  | 19.38  | 50- 60   | 18.25       | 83.66        | 75.7,75.7 |
| 70       | 11.33                 | 9.525  | 9.078  | 9.664  | 11.63  | 13.41  | 14.10  | 13.07  | 60- 70   | 14.45       | 98.12        | 88.7,88.7 |
| 80       | 4.915                 | 3.704  | 3.388  | 3.911  | 5.191  | 6.753  | 7.290  | 6.335  | 70- 80   | 8.747       | 106.9        | 96.6,96.6 |
| 90       | 0.2612                | 0.4259 | 0.5171 | 0.5012 | 0.4681 | 1.270  | 1.619  | 0.9804 | 80- 90   | 2.932       | 109.8        | 99.3,99.3 |
| 100      | 0.0456                | 0.0909 | 0.1064 | 0.1060 | 0.0763 | 0.0909 | 0.0759 | 0.0605 | 90-100   | 0.2591      | 110.1        | 99.5,99.5 |
| 110      | 0.0456                | 0.0909 | 0.0910 | 0.0908 | 0.0912 | 0.0909 | 0.0910 | 0.0908 | 100-110  | 0.0889      | 110.1        | 99.6,99.6 |
| 120      | 0.0456                | 0.0909 | 0.0910 | 0.0908 | 0.1216 | 0.1061 | 0.1062 | 0.0908 | 110-120  | 0.0905      | 110.2        | 99.7,99.7 |
| 130      | 0.0456                | 0.0909 | 0.0910 | 0.0908 | 0.1216 | 0.1061 | 0.1365 | 0.0908 | 120-130  | 0.0900      | 110.3        | 99.8,99.8 |
| 140      | 0.0606                | 0.0909 | 0.0910 | 0.0908 | 0.1216 | 0.1061 | 0.1517 | 0.0908 | 130-140  | 0.0798      | 110.4        | 99.8,99.8 |
| 150      | 0.0608                | 0.0909 | 0.0910 | 0.0908 | 0.1216 | 0.1667 | 0.1517 | 0.0908 | 140-150  | 0.0675      | 110.5        | 99.9,99.9 |
| 160      | 0.0760                | 0.1061 | 0.0910 | 0.0908 | 0.1216 | 0.1667 | 0.1669 | 0.1362 | 150-160  | 0.0522      | 110.5        | 100,100   |
| 170      | 0.0912                | 0.1061 | 0.0910 | 0.1211 | 0.1216 | 0.1667 | 0.1669 | 0.1362 | 160-170  | 0.0347      | 110.6        | 100,100   |
| 180      | 0.1368                | 0.1516 | 0.0910 | 0.1514 | 0.1520 | 0.1516 | 0.1669 | 0.1665 | 170-180  | 0.0125      | 110.6        | 100,100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

Conical surface Flux(90deg): 55.645 lm

%lum = 50.3%

%lamp = 50.3%

Conical surface Flux(120deg): 83.665 lm

%lum = 75.7%

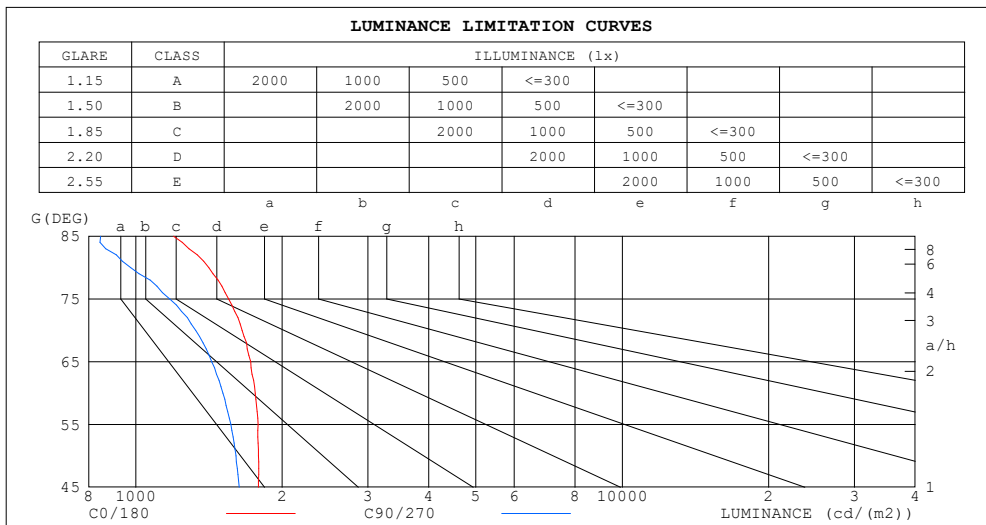
%lamp = 75.7%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Test Date:2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]

## LUMINANCE LIMITATION CURVES

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |



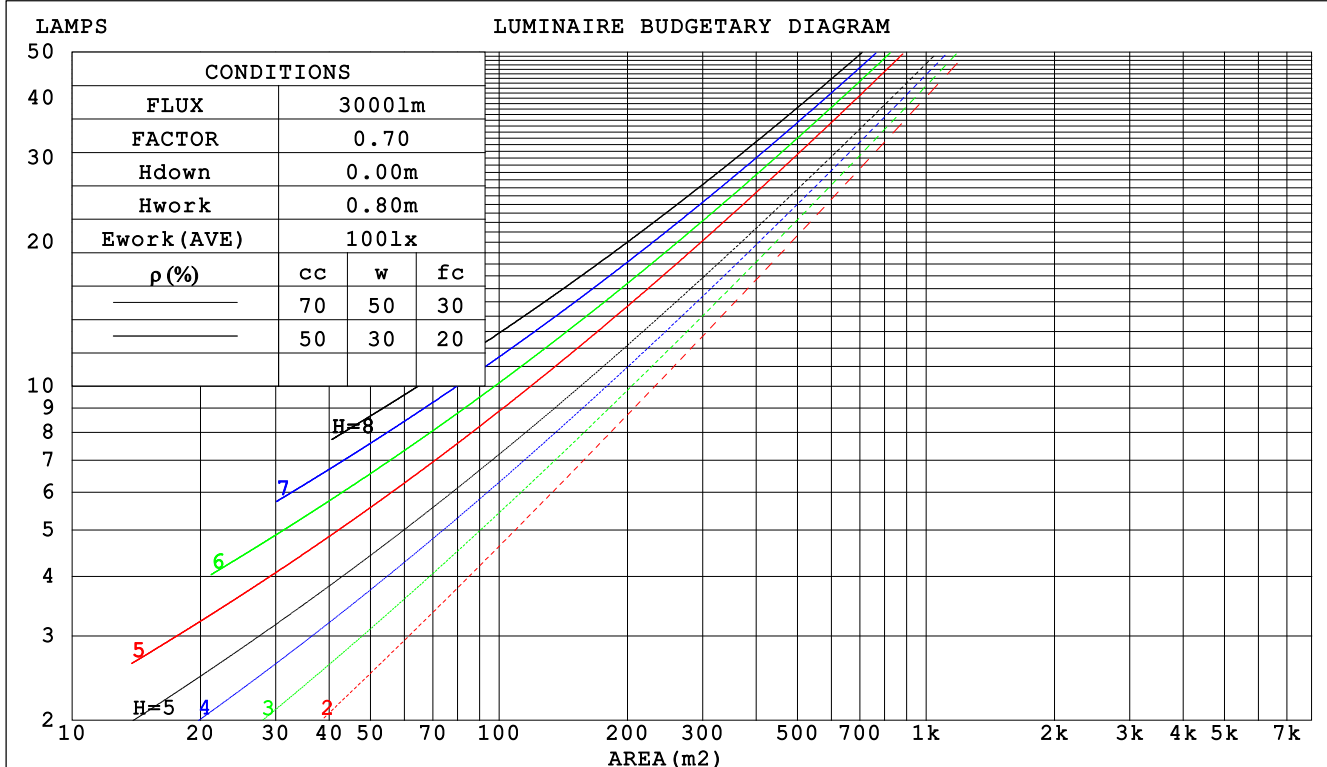
C Range: 0 - 360DEG=  
 C Interval: 22.5DEG=  
 Test Speed: HIGH=  
 Temperature:25.3DEG=  
 Test Date:2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.57lx1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |

| $\rho_{cc}$ | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| $\rho_{fc}$ | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR         | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0         | 1.03                  | .98  | .94  | 1.01                            | .96  | .93  | .96  | .93  | .90  | .92  | .89  | .87  | .88  | .86  | .84  | .82 |
| 2.0         | .89                   | .82  | .76  | .87                             | .81  | .75  | .83  | .78  | .73  | .80  | .75  | .71  | .77  | .73  | .70  | .67 |
| 3.0         | .78                   | .69  | .63  | .76                             | .68  | .62  | .73  | .66  | .61  | .70  | .64  | .60  | .67  | .63  | .58  | .56 |
| 4.0         | .69                   | .60  | .53  | .67                             | .59  | .52  | .65  | .57  | .51  | .62  | .56  | .51  | .60  | .54  | .50  | .48 |
| 5.0         | .61                   | .52  | .45  | .60                             | .51  | .45  | .58  | .50  | .44  | .56  | .49  | .44  | .54  | .48  | .43  | .41 |
| 6.0         | .55                   | .46  | .39  | .54                             | .45  | .39  | .52  | .44  | .38  | .50  | .43  | .38  | .49  | .42  | .38  | .36 |
| 7.0         | .50                   | .41  | .34  | .49                             | .40  | .34  | .47  | .39  | .34  | .46  | .39  | .34  | .44  | .38  | .33  | .31 |
| 8.0         | .45                   | .37  | .31  | .44                             | .36  | .30  | .43  | .36  | .30  | .42  | .35  | .30  | .41  | .34  | .30  | .28 |
| 9.0         | .41                   | .33  | .27  | .41                             | .33  | .27  | .40  | .32  | .27  | .38  | .32  | .27  | .37  | .31  | .27  | .25 |
| 10.0        | .38                   | .30  | .25  | .38                             | .30  | .25  | .37  | .29  | .25  | .36  | .29  | .24  | .35  | .29  | .24  | .22 |



C Range: 0 - 360DEG=  
 C Interval: 22.5DEG=  
 Test Speed: HIGH=  
 Temperature:25.3DEG=  
 Test Date:2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]

## WEC AND CCEC

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |

| 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  | .326                  | .185 | .059 | .319 | .182 | .058 | .305                             | .175 | .056 | .292 | .169 | .054 | .281 | .163 | .052 |   |  |
| 2.0  | .303                  | .166 | .051 | .297 | .163 | .050 | .285                             | .158 | .049 | .273 | .153 | .048 | .263 | .149 | .047 |   |  |
| 3.0  | .279                  | .148 | .044 | .273 | .146 | .044 | .262                             | .142 | .043 | .252 | .138 | .042 | .243 | .135 | .042 |   |  |
| 4.0  | .256                  | .133 | .039 | .251 | .131 | .039 | .241                             | .128 | .038 | .232 | .125 | .038 | .224 | .122 | .037 |   |  |
| 5.0  | .236                  | .120 | .035 | .231 | .119 | .035 | .223                             | .116 | .034 | .215 | .113 | .034 | .207 | .111 | .033 |   |  |
| 6.0  | .218                  | .109 | .031 | .214 | .108 | .031 | .207                             | .106 | .031 | .199 | .104 | .030 | .193 | .101 | .030 |   |  |
| 7.0  | .203                  | .100 | .028 | .199 | .099 | .028 | .192                             | .097 | .028 | .186 | .095 | .028 | .180 | .093 | .027 |   |  |
| 8.0  | .189                  | .092 | .026 | .186 | .091 | .026 | .180                             | .090 | .026 | .174 | .088 | .025 | .168 | .086 | .025 |   |  |
| 9.0  | .177                  | .085 | .024 | .174 | .085 | .024 | .168                             | .083 | .024 | .163 | .082 | .023 | .158 | .080 | .023 |   |  |
| 10.0 | .166                  | .080 | .022 | .163 | .079 | .022 | .158                             | .078 | .022 | .154 | .076 | .022 | .149 | .075 | .022 |   |  |

| 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  | .196                  | .196 | .196 | .167 | .167 | .167 | .114                                        | .114 | .114 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0  | .187                  | .161 | .138 | .160 | .139 | .119 | .109                                        | .095 | .082 | .063 | .055 | .048 | .020 | .018 | .015 |   |
| 2.0  | .179                  | .137 | .102 | .153 | .118 | .088 | .105                                        | .082 | .062 | .061 | .048 | .036 | .019 | .015 | .012 |   |
| 3.0  | .172                  | .120 | .079 | .147 | .103 | .068 | .101                                        | .072 | .048 | .058 | .042 | .028 | .019 | .014 | .009 |   |
| 4.0  | .164                  | .107 | .063 | .141 | .092 | .055 | .097                                        | .064 | .038 | .056 | .038 | .023 | .018 | .012 | .007 |   |
| 5.0  | .157                  | .096 | .052 | .134 | .083 | .045 | .093                                        | .058 | .032 | .054 | .034 | .019 | .017 | .011 | .006 |   |
| 6.0  | .149                  | .088 | .044 | .128 | .076 | .038 | .089                                        | .053 | .027 | .051 | .031 | .016 | .017 | .010 | .005 |   |
| 7.0  | .142                  | .081 | .038 | .122 | .070 | .033 | .085                                        | .049 | .024 | .049 | .029 | .014 | .016 | .010 | .005 |   |
| 8.0  | .136                  | .075 | .034 | .117 | .065 | .029 | .081                                        | .046 | .021 | .047 | .027 | .012 | .015 | .009 | .004 |   |
| 9.0  | .130                  | .070 | .030 | .112 | .061 | .027 | .077                                        | .043 | .019 | .045 | .025 | .011 | .015 | .008 | .004 |   |
| 10.0 | .124                  | .066 | .028 | .107 | .057 | .024 | .074                                        | .040 | .017 | .043 | .024 | .010 | .014 | .008 | .003 |   |

C Range: 0 - 360DEG=  
C Interval: 22.5DEG=  
Test Speed: HIGH=  
Temperature:25.3DEG=  
Test Date:2021-05-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
Humidity:65.0%  
Test Distance:9.660m [K=1.0000]

UGR(Unified Glare Rating) Table

|                                                                              |                  |      |      |      |                      |                |      |                      |      |      |
|------------------------------------------------------------------------------|------------------|------|------|------|----------------------|----------------|------|----------------------|------|------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                  |      |      |      |                      |                |      |                      |      |      |
| NAME: CB-PXL-RGB                                                             |                  |      |      |      | TYPE: LED Strip      |                |      | WEIGHT:              |      |      |
| SPEC.: 12W                                                                   |                  |      |      |      | DIM.: 1000*10*2 (MM) |                |      | SERIAL No.: 001      |      |      |
| MFR.: Flexfire LEDs, Inc.                                                    |                  |      |      |      | SUR.: 0.02*1*0.01    |                |      | Shielding Angle: 120 |      |      |
| 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                                                                | 22.3             | 23.8 | 22.5 | 24.0 | 24.2                 | 21.7           | 23.2 | 22.0                 | 23.4 | 23.7 |
| 3H                                                                           | 23.9             | 25.3 | 24.2 | 25.6 | 25.8                 | 23.1           | 24.5 | 23.4                 | 24.8 | 25.0 |
| 4H                                                                           | 24.6             | 25.9 | 24.9 | 26.2 | 26.5                 | 23.6           | 25.0 | 23.9                 | 25.2 | 25.5 |
| 6H                                                                           | 25.1             | 26.3 | 25.4 | 26.6 | 26.9                 | 23.9           | 25.2 | 24.3                 | 25.5 | 25.8 |
| 8H                                                                           | 25.2             | 26.5 | 25.6 | 26.7 | 27.1                 | 24.0           | 25.3 | 24.4                 | 25.6 | 25.9 |
| 12H                                                                          | 25.3             | 26.5 | 25.7 | 26.8 | 27.1                 | 24.1           | 25.3 | 24.4                 | 25.6 | 25.9 |
| 4H 2H                                                                        | 22.8             | 24.1 | 23.1 | 24.4 | 24.7                 | 22.3           | 23.7 | 22.6                 | 23.9 | 24.2 |
| 3H                                                                           | 24.6             | 25.8 | 24.9 | 26.1 | 26.4                 | 23.9           | 25.1 | 24.3                 | 25.4 | 25.7 |
| 4H                                                                           | 25.4             | 26.5 | 25.8 | 26.8 | 27.1                 | 24.5           | 25.6 | 24.9                 | 26.0 | 26.3 |
| 6H                                                                           | 26.0             | 26.9 | 26.4 | 27.3 | 27.7                 | 25.0           | 25.9 | 25.4                 | 26.3 | 26.7 |
| 8H                                                                           | 26.2             | 27.1 | 26.6 | 27.5 | 27.9                 | 25.1           | 26.0 | 25.5                 | 26.4 | 26.8 |
| 12H                                                                          | 26.3             | 27.1 | 26.7 | 27.5 | 28.0                 | 25.2           | 26.0 | 25.6                 | 26.4 | 26.8 |
| 8H 4H                                                                        | 25.5             | 26.5 | 26.0 | 26.8 | 27.2                 | 24.8           | 25.7 | 25.2                 | 26.1 | 26.5 |
| 6H                                                                           | 26.3             | 27.0 | 26.7 | 27.5 | 27.9                 | 25.3           | 26.1 | 25.8                 | 26.5 | 27.0 |
| 8H                                                                           | 26.6             | 27.2 | 27.0 | 27.7 | 28.1                 | 25.5           | 26.2 | 26.0                 | 26.7 | 27.1 |
| 12H                                                                          | 26.8             | 27.3 | 27.2 | 27.8 | 28.3                 | 25.7           | 26.3 | 26.2                 | 26.7 | 27.2 |
| 12H 4H                                                                       | 25.5             | 26.4 | 26.0 | 26.8 | 27.2                 | 24.8           | 25.6 | 25.2                 | 26.0 | 26.5 |
| 6H                                                                           | 26.3             | 27.0 | 26.8 | 27.4 | 27.9                 | 25.4           | 26.1 | 25.9                 | 26.5 | 27.0 |
| 8H                                                                           | 26.6             | 27.2 | 27.1 | 27.7 | 28.1                 | 25.6           | 26.2 | 26.1                 | 26.7 | 27.2 |
| Variations with the observer position at spacings(CIE Pub.117):              |                  |      |      |      |                      |                |      |                      |      |      |
| S = 1.0H                                                                     | + 0.1 / - 0.2    |      |      |      |                      | + 0.1 / - 0.2  |      |                      |      |      |
| 1.5H                                                                         | + 0.1 / - 0.2    |      |      |      |                      | + 0.2 / - 0.3  |      |                      |      |      |
| 2.0H                                                                         | + 0.2 / - 0.3    |      |      |      |                      | + 0.2 / - 0.3  |      |                      |      |      |

CIE Pub.117, 110.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.7)  
Area: 0.02 m2

C Range: 0 - 360DEG=  
C Interval: 22.5DEG=  
Test Speed: HIGH=  
Temperature:25.3DEG=  
Test Date:2021-05-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
Humidity:65.0%  
Test Distance:9.660m [K=1.0000]

## UTILIZATION FACTORS TABLE

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |

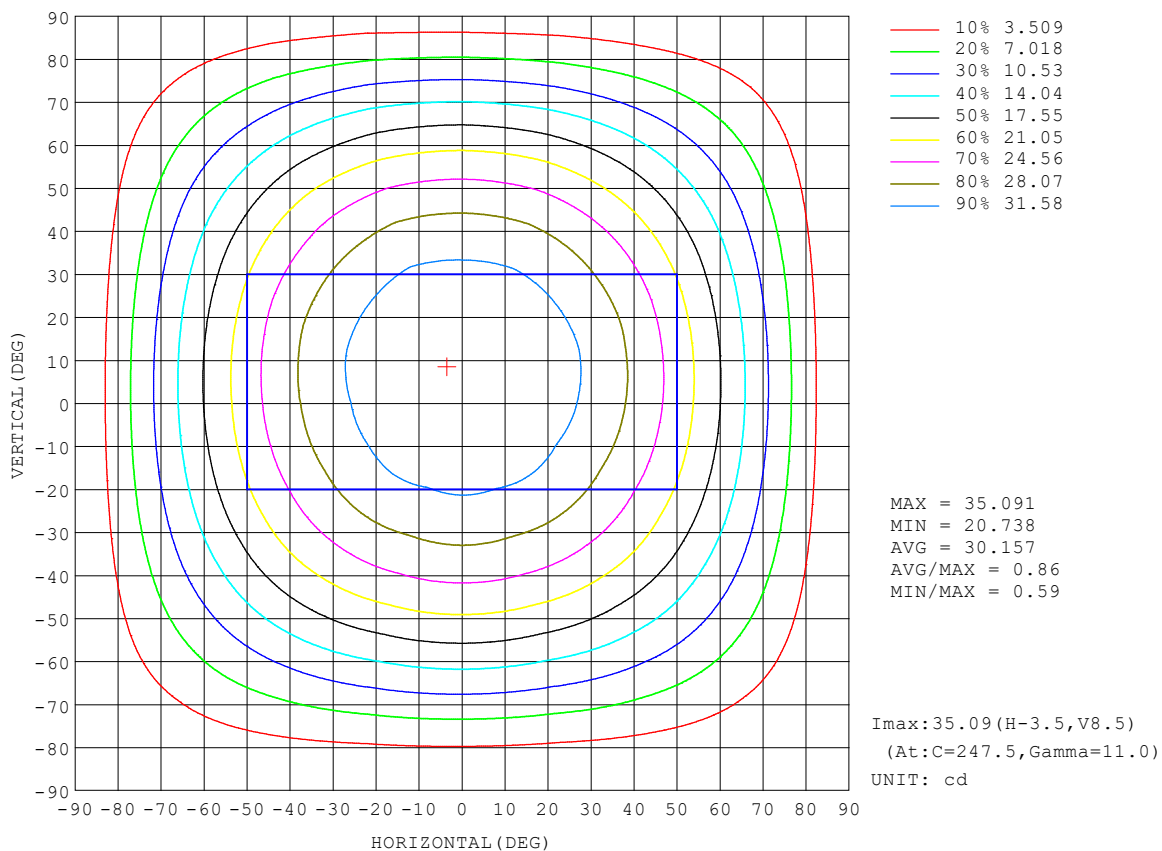
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 56                                                   | 44  | 37        | 55  | 44  | 37  | 54  | 43            | 36  | 30     |
| 0.80                             | 66                                                   | 54  | 46        | 65  | 53  | 46  | 63  | 52            | 46  | 38     |
| 1.00                             | 74                                                   | 63  | 55        | 73  | 62  | 55  | 71  | 63            | 54  | 47     |
| 1.25                             | 81                                                   | 70  | 63        | 80  | 70  | 63  | 77  | 68            | 62  | 54     |
| 1.50                             | 86                                                   | 76  | 69        | 85  | 75  | 68  | 82  | 73            | 67  | 59     |
| 2.00                             | 94                                                   | 85  | 78        | 92  | 83  | 77  | 88  | 81            | 75  | 67     |
| 2.50                             | 98                                                   | 89  | 83        | 95  | 88  | 82  | 91  | 85            | 80  | 72     |
| 3.00                             | 101                                                  | 94  | 88        | 99  | 92  | 87  | 95  | 89            | 85  | 76     |
| 4.00                             | 105                                                  | 99  | 94        | 103 | 97  | 93  | 98  | 94            | 90  | 81     |
| 5.00                             | 108                                                  | 103 | 98        | 105 | 101 | 97  | 101 | 97            | 94  | 84     |
| 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  
 Test Date: 2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity: 65.0%  
 Test Distance: 9.660m [K=1.0000]

## ISOCANDELA DIAGRAM

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.57lx1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |



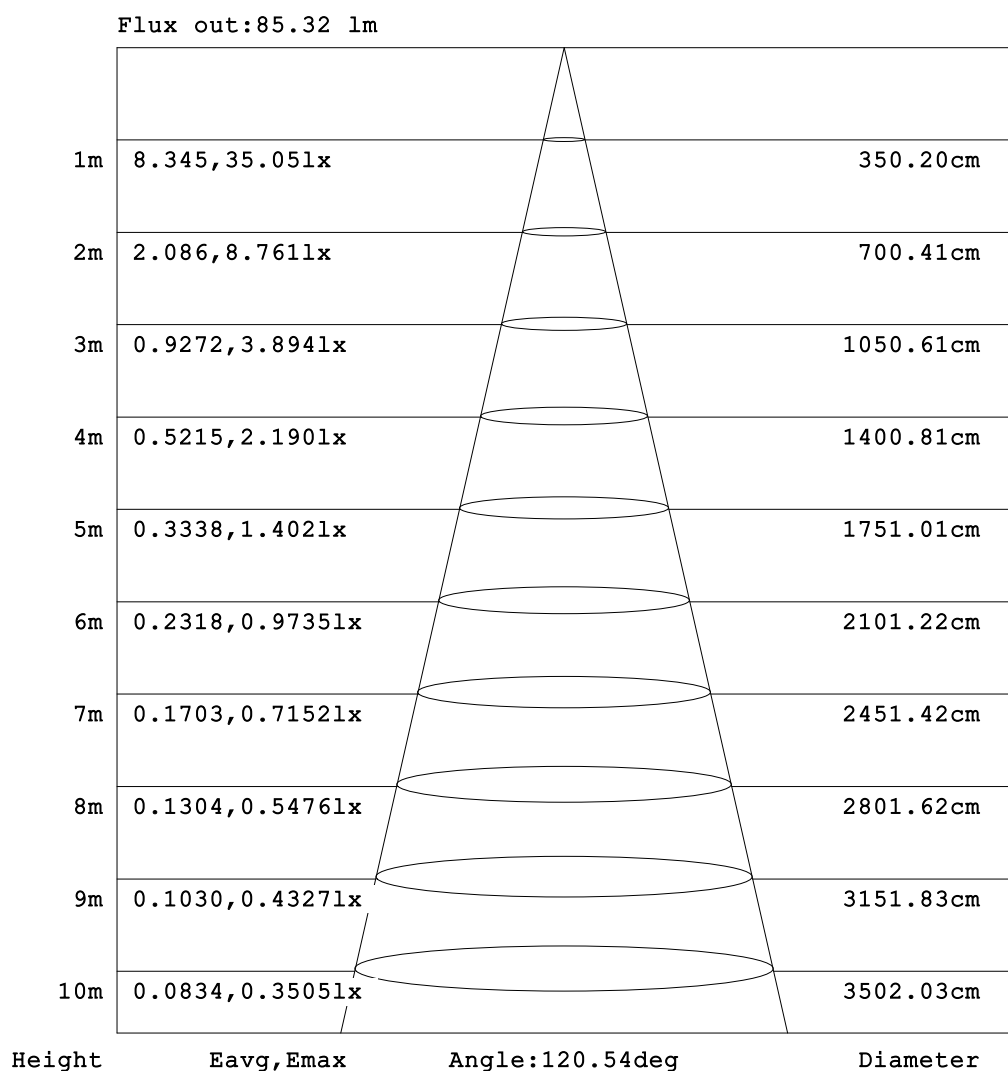
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Test Date:2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]



## AAI Figure

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |



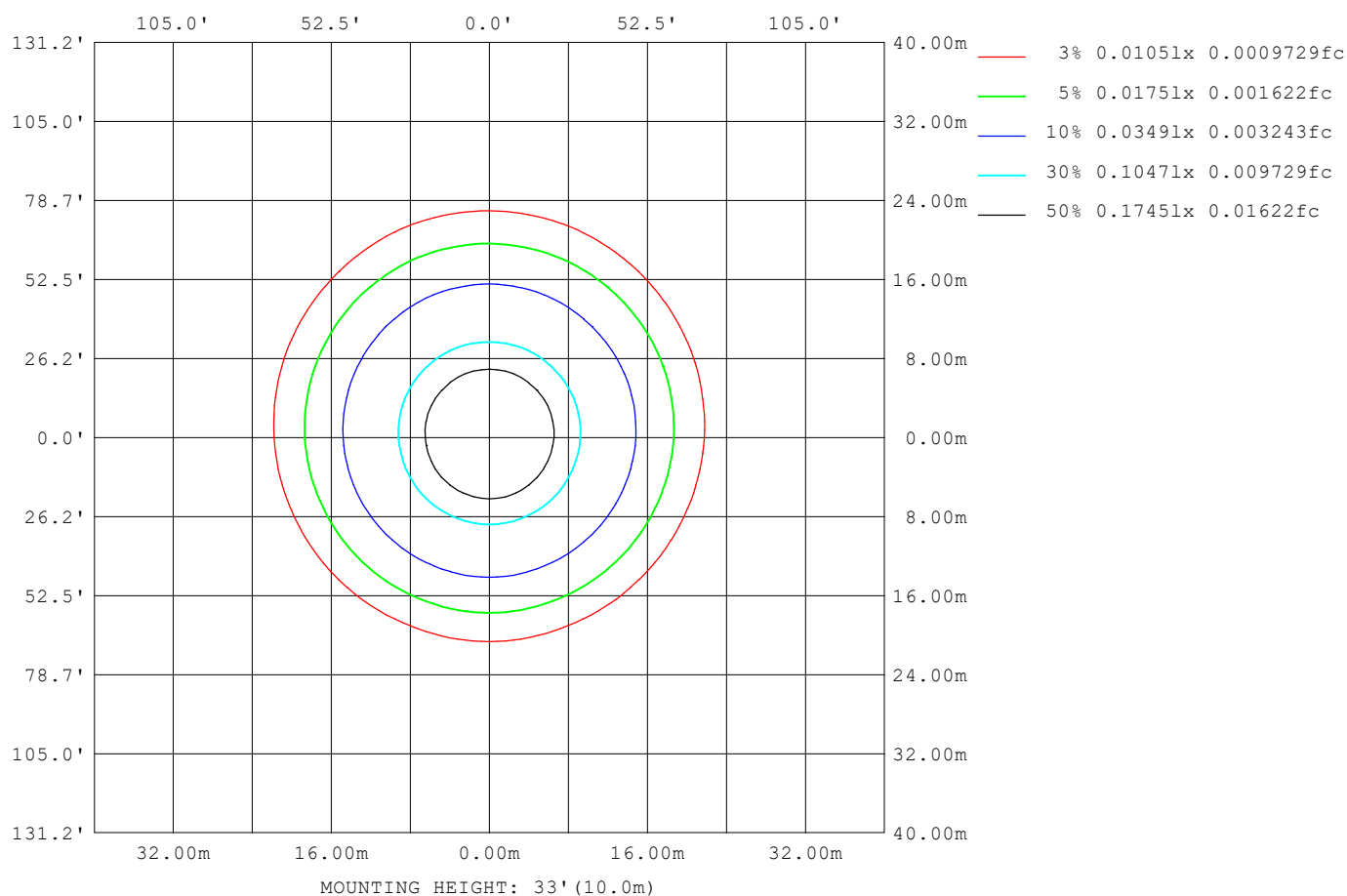
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG=  
 C Interval: 22.5DEG=  
 Test Speed: HIGH=  
 Temperature: 25.3DEG=  
 Test Date: 2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
 Humidity: 65.0%  
 Test Distance: 9.660m [K=1.0000]

## ISOLUX DIAGRAM

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |



C Range: 0 - 360DEG=  
 C Interval: 22.5DEG=  
 Test Speed: HIGH=  
 Temperature:25.3DEG=  
 Test Date:2021-05-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446=  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]

## LED Avg.L Report

|                                                                              |                      |                      |
|------------------------------------------------------------------------------|----------------------|----------------------|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.571x1 lm |                      |                      |
| NAME: CB-PXL-RGB                                                             | TYPE: LED Strip      | WEIGHT:              |
| SPEC.: 12W                                                                   | DIM.: 1000*10*2 (MM) | SERIAL No.: 001      |
| MFR.: Flexfire LEDs, Inc.                                                    | SUR.: 0.02*1*0.01    | Shielding Angle: 120 |

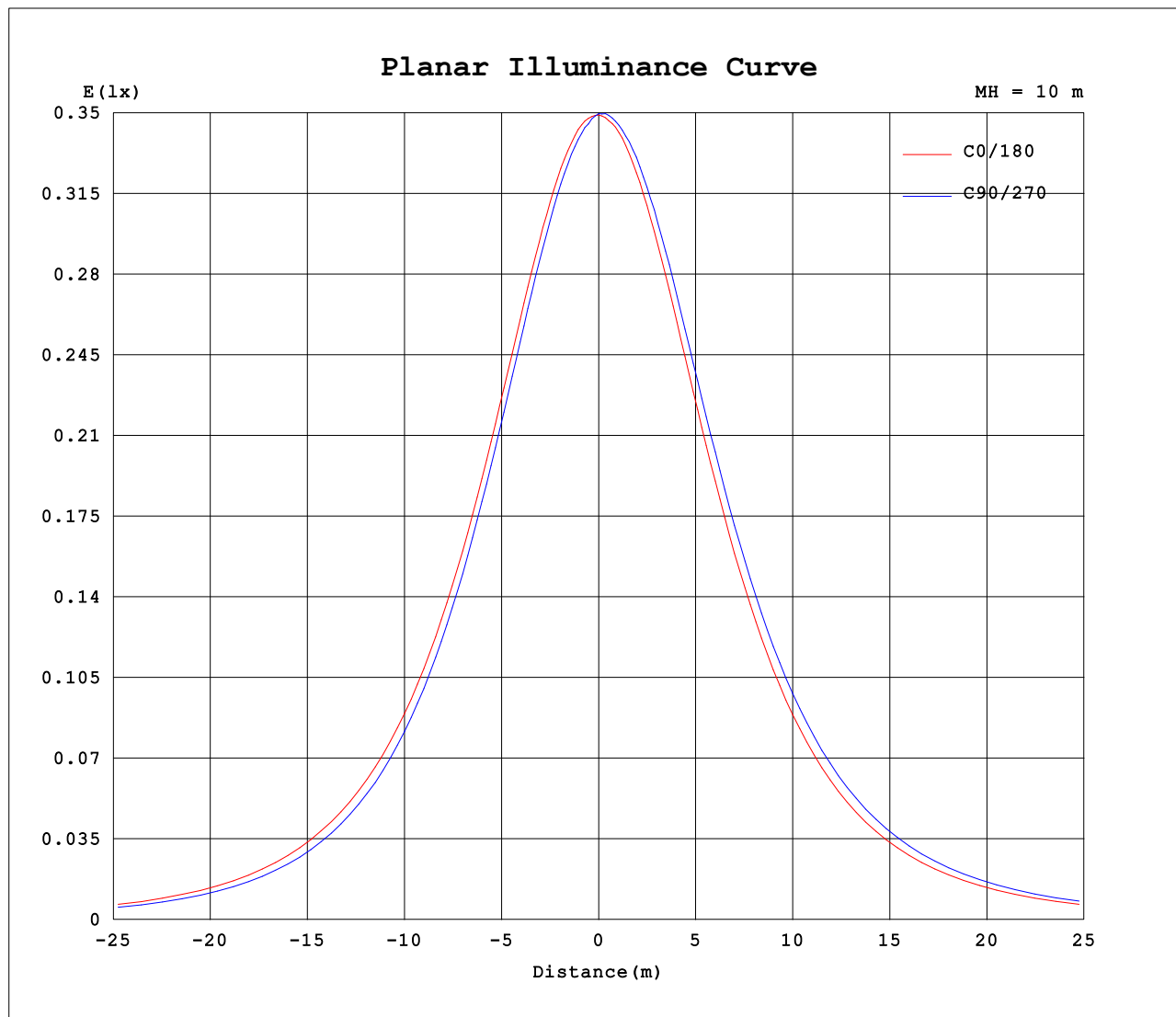
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 1730  |
| L_0~180 (75) av  | 1583  |
| L_0~180 (85) av  | 1286  |
| L_90~270 (65) av | 1742  |
| L_90~270 (75) av | 1621  |
| L_90~270 (85) av | 1622  |
| L_45 (65) av     | 1724  |
| L_45 (75) av     | 1589  |
| L_45 (85) av     | 1474  |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Test Date:2021-05-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Test Date: 2021-05-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
Humidity: 65.0%  
Test Distance: 9.660m [K=1.0000]

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                              |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |                      |  |  |
|------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|----------------------|--|--|
| Test:U:24.001V I:0.2065A P:4.9562W PF:1.0000 Freq:0Hz Lamp Flux:110.57lx1 lm |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |                      |  |  |
| NAME: CB-PXL-RGB                                                             |  |  |  |  |  |  |  |  | TYPE: LED Strip      |  |  |  |  |  | WEIGHT:              |  |  |
| SPEC.: 12W                                                                   |  |  |  |  |  |  |  |  | DIM.: 1000*10*2 (MM) |  |  |  |  |  | SERIAL No.: 001      |  |  |
| MFR.: Flexfire LEDs, Inc.                                                    |  |  |  |  |  |  |  |  | SUR.: 0.02*1*0.01    |  |  |  |  |  | Shielding Angle: 120 |  |  |

Table--1

UNIT: cd

| γ (DEG) | C (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       | 34.9    | 34.9 | 34.9 | 34.9 | 34.9 | 34.9  | 34.9 | 34.9  | 34.9 | 34.9  | 34.9 | 34.9  | 34.9 | 34.9  | 34.9 | 34.9  |  |  |
| 5       | 34.9    | 34.7 | 34.6 | 34.6 | 34.5 | 34.5  | 34.6 | 34.7  | 34.8 | 35.0  | 34.9 | 35.1  | 35.0 | 35.1  | 34.9 | 35.0  |  |  |
| 10      | 34.6    | 34.2 | 34.1 | 33.9 | 33.8 | 33.9  | 34.1 | 34.2  | 34.4 | 34.8  | 34.8 | 35.2  | 34.9 | 35.2  | 34.8 | 34.8  |  |  |
| 15      | 34.0    | 33.5 | 33.3 | 33.1 | 33.0 | 33.1  | 33.3 | 33.5  | 33.8 | 34.3  | 34.4 | 34.9  | 34.7 | 35.0  | 34.4 | 34.4  |  |  |
| 20      | 33.1    | 32.5 | 32.2 | 32.0 | 31.9 | 32.0  | 32.2 | 32.5  | 32.9 | 33.6  | 33.8 | 34.4  | 34.2 | 34.4  | 33.8 | 33.6  |  |  |
| 25      | 32.0    | 31.3 | 31.0 | 30.7 | 30.6 | 30.6  | 30.9 | 31.3  | 31.8 | 32.6  | 32.9 | 33.6  | 33.4 | 33.6  | 33.0 | 32.7  |  |  |
| 30      | 30.7    | 29.8 | 29.5 | 29.2 | 29.1 | 29.1  | 29.4 | 29.8  | 30.5 | 31.4  | 31.9 | 32.6  | 32.4 | 32.5  | 31.8 | 31.5  |  |  |
| 35      | 29.2    | 28.2 | 27.7 | 27.4 | 27.3 | 27.4  | 27.6 | 28.1  | 28.9 | 29.9  | 30.5 | 31.3  | 31.1 | 31.2  | 30.5 | 30.0  |  |  |
| 40      | 27.3    | 26.3 | 25.7 | 25.4 | 25.3 | 25.3  | 25.7 | 26.3  | 27.2 | 28.3  | 28.9 | 29.7  | 29.6 | 29.6  | 28.8 | 28.3  |  |  |
| 45      | 25.3    | 24.2 | 23.5 | 23.1 | 23.1 | 23.1  | 23.5 | 24.2  | 25.2 | 26.3  | 27.0 | 27.8  | 27.7 | 27.7  | 26.9 | 26.3  |  |  |
| 50      | 23.0    | 21.8 | 21.0 | 20.6 | 20.6 | 20.7  | 21.1 | 21.8  | 22.9 | 24.1  | 24.8 | 25.6  | 25.6 | 25.5  | 24.7 | 24.0  |  |  |
| 55      | 20.5    | 19.3 | 18.4 | 18.0 | 18.0 | 18.0  | 18.5 | 19.4  | 20.3 | 21.5  | 22.4 | 23.1  | 23.1 | 23.0  | 22.2 | 21.5  |  |  |
| 60      | 17.6    | 16.5 | 15.6 | 15.1 | 15.1 | 15.2  | 15.7 | 16.5  | 17.6 | 18.7  | 19.6 | 20.4  | 20.4 | 20.2  | 19.4 | 18.7  |  |  |
| 65      | 14.6    | 13.4 | 12.6 | 12.1 | 12.1 | 12.2  | 12.8 | 13.5  | 14.7 | 15.8  | 16.6 | 17.3  | 17.3 | 17.1  | 16.3 | 15.6  |  |  |
| 70      | 11.3    | 10.3 | 9.52 | 9.09 | 9.08 | 9.20  | 9.66 | 10.5  | 11.6 | 12.6  | 13.4 | 14.1  | 14.1 | 13.8  | 13.1 | 12.3  |  |  |
| 75      | 8.05    | 7.19 | 6.48 | 6.11 | 6.08 | 6.24  | 6.68 | 7.45  | 8.34 | 9.18  | 10.1 | 10.7  | 10.7 | 10.4  | 9.68 | 8.99  |  |  |
| 80      | 4.91    | 4.17 | 3.70 | 3.36 | 3.39 | 3.48  | 3.91 | 4.43  | 5.19 | 5.91  | 6.75 | 7.28  | 7.29 | 7.03  | 6.34 | 5.70  |  |  |
| 85      | 2.09    | 1.64 | 1.55 | 1.35 | 1.48 | 1.40  | 1.67 | 1.88  | 2.40 | 3.01  | 3.74 | 4.24  | 4.18 | 4.01  | 3.32 | 2.74  |  |  |
| 90      | 0.26    | 0.24 | 0.43 | 0.35 | 0.52 | 0.35  | 0.50 | 0.41  | 0.47 | 0.94  | 1.27 | 1.69  | 1.62 | 1.44  | 0.98 | 0.72  |  |  |
| 95      | 0.05    | 0.09 | 0.17 | 0.06 | 0.20 | 0.09  | 0.17 | 0.08  | 0.06 | 0.17  | 0.14 | 0.31  | 0.20 | 0.29  | 0.08 | 0.14  |  |  |
| 100     | 0.05    | 0.09 | 0.09 | 0.06 | 0.11 | 0.09  | 0.11 | 0.09  | 0.08 | 0.08  | 0.09 | 0.08  | 0.08 | 0.08  | 0.06 | 0.08  |  |  |
| 105     | 0.05    | 0.09 | 0.09 | 0.11 | 0.09 | 0.12  | 0.09 | 0.11  | 0.09 | 0.08  | 0.09 | 0.06  | 0.09 | 0.09  | 0.08 | 0.05  |  |  |
| 110     | 0.05    | 0.12 | 0.09 | 0.12 | 0.09 | 0.11  | 0.09 | 0.11  | 0.09 | 0.08  | 0.09 | 0.06  | 0.09 | 0.08  | 0.09 | 0.02  |  |  |
| 115     | 0.05    | 0.11 | 0.09 | 0.12 | 0.09 | 0.12  | 0.09 | 0.11  | 0.12 | 0.08  | 0.11 | 0.06  | 0.11 | 0.08  | 0.09 | 0.08  |  |  |
| 120     | 0.05    | 0.12 | 0.09 | 0.14 | 0.09 | 0.12  | 0.09 | 0.11  | 0.12 | 0.08  | 0.11 | 0.06  | 0.11 | 0.08  | 0.09 | 0.08  |  |  |
| 125     | 0.05    | 0.15 | 0.09 | 0.15 | 0.09 | 0.15  | 0.09 | 0.11  | 0.12 | 0.08  | 0.11 | 0.06  | 0.14 | 0.08  | 0.09 | 0.08  |  |  |
| 130     | 0.05    | 0.15 | 0.09 | 0.15 | 0.09 | 0.15  | 0.09 | 0.12  | 0.12 | 0.08  | 0.11 | 0.06  | 0.14 | 0.08  | 0.09 | 0.08  |  |  |
| 135     | 0.05    | 0.15 | 0.09 | 0.15 | 0.09 | 0.15  | 0.09 | 0.12  | 0.12 | 0.08  | 0.11 | 0.06  | 0.14 | 0.08  | 0.09 | 0.08  |  |  |
| 140     | 0.06    | 0.17 | 0.09 | 0.15 | 0.09 | 0.17  | 0.09 | 0.11  | 0.12 | 0.08  | 0.11 | 0.06  | 0.15 | 0.08  | 0.09 | 0.08  |  |  |
| 145     | 0.06    | 0.17 | 0.09 | 0.15 | 0.09 | 0.18  | 0.09 | 0.09  | 0.12 | 0.08  | 0.15 | 0.06  | 0.15 | 0.08  | 0.09 | 0.08  |  |  |
| 150     | 0.06    | 0.17 | 0.09 | 0.15 | 0.09 | 0.18  | 0.09 | 0.09  | 0.12 | 0.08  | 0.17 | 0.06  | 0.15 | 0.08  | 0.09 | 0.08  |  |  |
| 155     | 0.06    | 0.17 | 0.11 | 0.15 | 0.09 | 0.18  | 0.09 | 0.09  | 0.12 | 0.08  | 0.17 | 0.06  | 0.15 | 0.08  | 0.09 | 0.08  |  |  |
| 160     | 0.08    | 0.17 | 0.11 | 0.15 | 0.09 | 0.18  | 0.09 | 0.18  | 0.12 | 0.08  | 0.17 | 0.06  | 0.17 | 0.08  | 0.14 | 0.08  |  |  |
| 165     | 0.09    | 0.17 | 0.11 | 0.15 | 0.09 | 0.18  | 0.09 | 0.18  | 0.12 | 0.08  | 0.17 | 0.08  | 0.17 | 0.08  | 0.14 | 0.08  |  |  |
| 170     | 0.09    | 0.17 | 0.11 | 0.15 | 0.09 | 0.18  | 0.12 | 0.18  | 0.12 | 0.08  | 0.17 | 0.09  | 0.17 | 0.08  | 0.14 | 0.08  |  |  |
| 175     | 0.11    | 0.15 | 0.14 | 0.15 | 0.09 | 0.18  | 0.12 | 0.18  | 0.12 | 0.09  | 0.15 | 0.12  | 0.17 | 0.08  | 0.17 | 0.11  |  |  |
| 180     | 0.14    | 0.14 | 0.15 | 0.15 | 0.09 | 0.18  | 0.15 | 0.18  | 0.15 | 0.14  | 0.15 | 0.12  | 0.17 | 0.14  | 0.17 | 0.18  |  |  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Test Date:2021-05-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.446  
 Humidity:65.0%  
 Test Distance:9.660m [K=1.0000]