

# GONIOPHOTOMETERS SYSTEM TEST REPORT

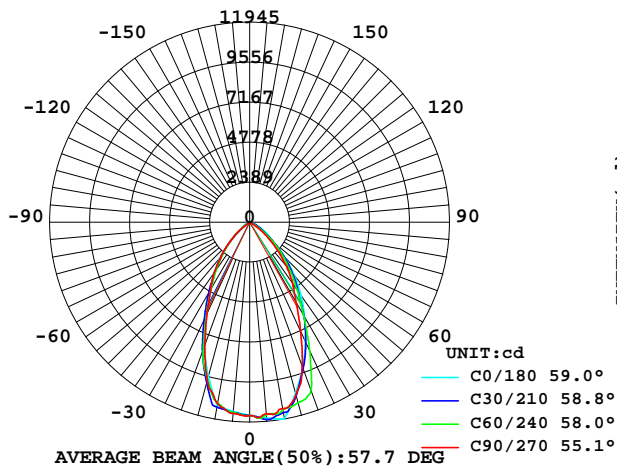
## STREETLIGHT PHOTOMETRIC TEST REPORT

Report number: FL-B170322-1

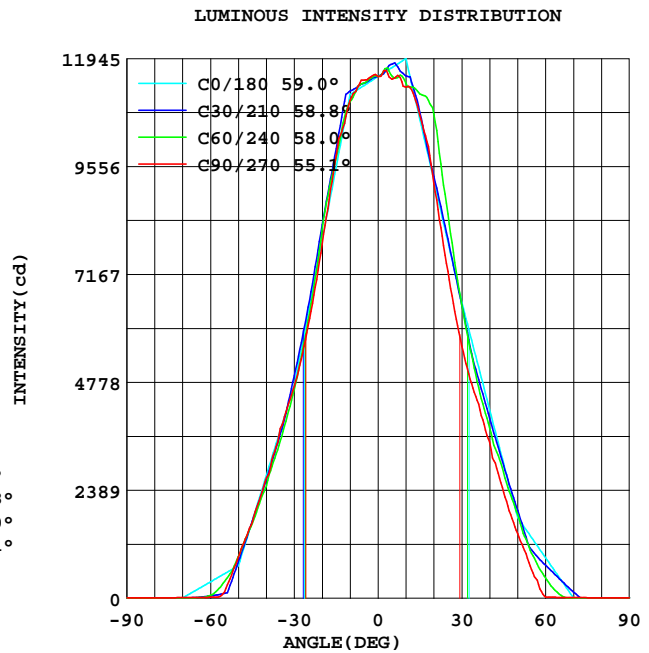
|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |

|                   |             |                        |           |                     |         |
|-------------------|-------------|------------------------|-----------|---------------------|---------|
| MODEL:            | Philips3030 | I <sub>max</sub> (cd): | 12034     | Effective Flux(lm): | 11837.1 |
| NOMINAL POWER(W): | 100         | MAXIMUM(C, γ):         | 175, 10.0 | EEI                 | 0.117   |
| RATED VOLTAGE(V): | 220         | EFFICIENCY(%):         | 100.0     | Voltage(V)          | 220.8   |
| NOMINAL FLUX(lm): | 12458.5     | η street_up(%):        | 0.0       | Current(A)          | 0.468   |
| TEST FLUX(lm):    | 12459       | η street_down(%):      | 47.1      | Power(W)            | 102.0   |
| LAMPS QUANTITY:   | 1           | η house_up(%):         | 0.0       | Power Factor        | 0.986   |
| TOTAL FLUX(lm):   | 12459       | η house_down(%):       | 52.9      | EFFICIENCY(lm/W)    | 122.1   |

INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANS



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

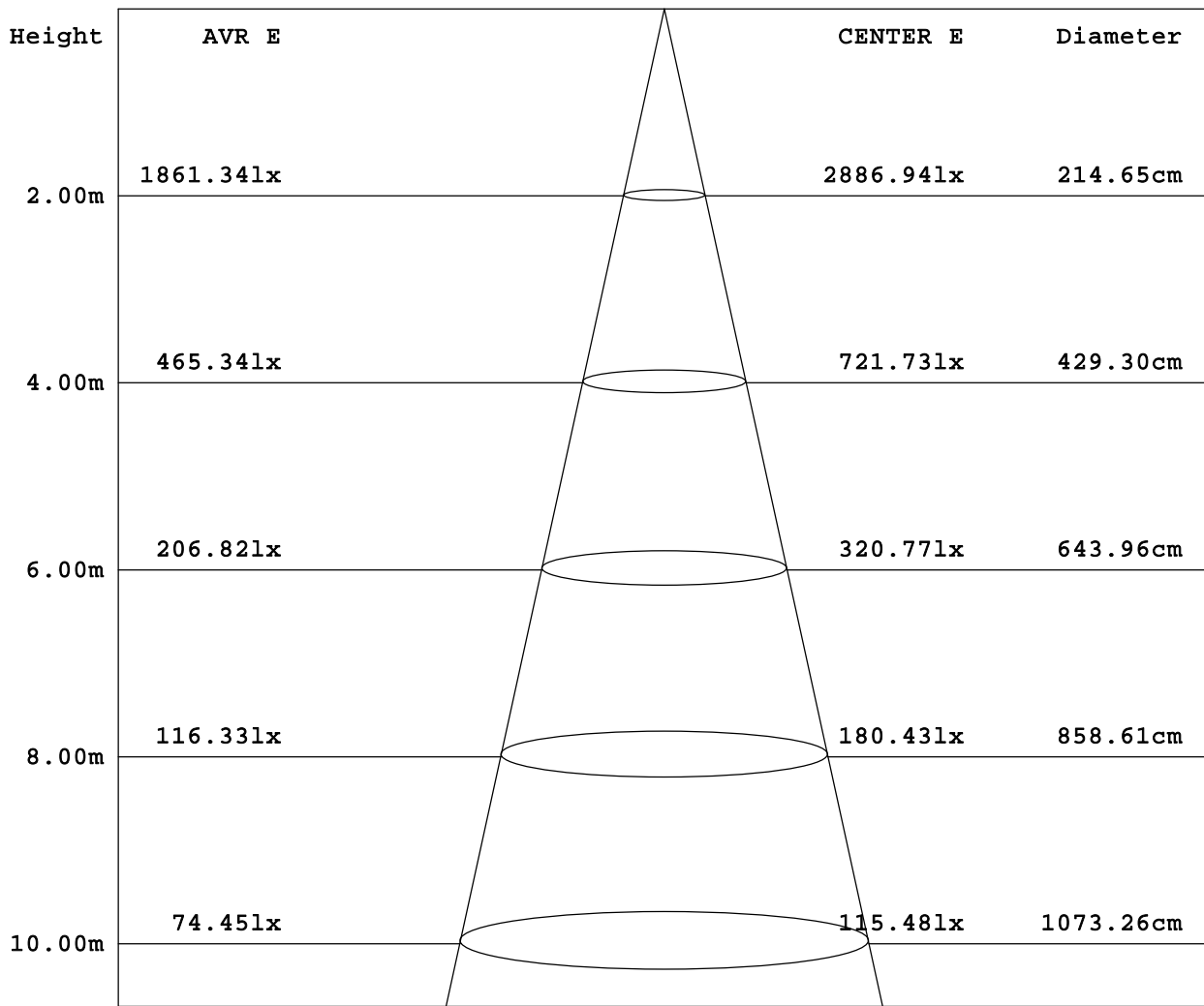
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |



Angle:56.4deg

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |

| $\gamma$ | C0                                       | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | zone    | total |
|----------|--|-------|-------|-------|-------|-------|-------|-------|----------|---------|-------|
| 5.0      | 1135                                     | 1140  | 1147  | 1160  | 1175  | 1169  | 1149  | 1152  | 0- 5     | 276.6   | 276.6 |
| 10.0     | 1115                                     | 1109  | 1102  | 1158  | 1194  | 1159  | 1131  | 1156  | 5- 10    | 821.5   | 1098  |
| 15.0     | 954.3                                    | 1018  | 979.9 | 1121  | 1060  | 1111  | 1069  | 1109  | 10- 15   | 1303    | 2401  |
| 20.0     | 793.6                                    | 812.2 | 784.1 | 978.4 | 924.7 | 993.4 | 917.1 | 924.7 | 15- 20   | 1600    | 4001  |
| 25.0     | 632.9                                    | 634.7 | 603.5 | 761.3 | 789.8 | 847.7 | 723.3 | 728.2 | 20- 25   | 1685    | 5686  |
| 30.0     | 472.2                                    | 481.1 | 469.4 | 587.7 | 654.9 | 667.8 | 558.5 | 554.3 | 25- 30   | 1604    | 7290  |
| 35.0     | 372.2                                    | 362.6 | 375.5 | 455.0 | 535.8 | 517.2 | 446.5 | 410.6 | 30- 35   | 1442    | 8732  |
| 40.0     | 272.1                                    | 267.8 | 266.5 | 349.6 | 416.8 | 405.9 | 346.0 | 297.0 | 35- 40   | 1254    | 9986  |
| 45.0     | 172.1                                    | 170.3 | 168.8 | 238.1 | 297.7 | 295.8 | 234.1 | 199.7 | 40- 45   | 1007    | 10992 |
| 50.0     | 72.12                                    | 97.59 | 91.16 | 145.5 | 178.7 | 194.6 | 142.9 | 114.5 | 45- 50   | 705.6   | 11698 |
| 55.0     | 54.29                                    | 40.06 | 13.87 | 63.42 | 134.2 | 99.36 | 63.44 | 48.64 | 50- 55   | 408.0   | 12106 |
| 60.0     | 36.47                                    | 1.451 | 2.220 | 4.357 | 89.83 | 25.90 | 2.815 | 1.901 | 55- 60   | 201.0   | 12307 |
| 65.0     | 18.64                                    | 1.192 | 1.775 | 2.118 | 45.40 | 9.826 | 1.975 | 1.475 | 60- 65   | 93.67   | 12401 |
| 70.0     | 0.820                                    | 0.968 | 1.505 | 1.403 | 0.970 | 2.244 | 1.625 | 1.113 | 65- 70   | 38.27   | 12439 |
| 75.0     | 0.760                                    | 0.761 | 1.335 | 0.829 | 0.915 | 0.867 | 1.405 | 0.794 | 70- 75   | 6.997   | 12446 |
| 80.0     | 0.700                                    | 0.684 | 1.230 | 0.757 | 0.860 | 0.814 | 1.270 | 0.696 | 75- 80   | 4.618   | 12451 |
| 85.0     | 0.640                                    | 0.635 | 1.155 | 0.741 | 0.805 | 0.800 | 1.175 | 0.633 | 80- 85   | 4.167   | 12455 |
| 90.0     | 0.580                                    | 0.590 | 1.120 | 0.730 | 0.750 | 0.790 | 1.135 | 0.570 | 85- 90   | 3.826   | 12459 |
| 95.0     |  |       |       |       |       |       |       |       | 90- 95   |         |       |
| 100.0    |  |       |       |       |       |       |       |       | 95-100   |         |       |
| 105.0    |  |       |       |       |       |       |       |       | 100-105  |         |       |
| 110.0    |  |       |       |       |       |       |       |       | 105-110  |         |       |
| 115.0    |  |       |       |       |       |       |       |       | 110-115  |         |       |
| 120.0    |  |       |       |       |       |       |       |       | 115-120  |         |       |
| 125.0    |  |       |       |       |       |       |       |       | 120-125  |         |       |
| 130.0    |  |       |       |       |       |       |       |       | 125-130  |         |       |
| 135.0    |  |       |       |       |       |       |       |       | 130-135  |         |       |
| 140.0    |  |       |       |       |       |       |       |       | 135-140  |         |       |
| 145.0    |  |       |       |       |       |       |       |       | 140-145  |         |       |
| 150.0    |  |       |       |       |       |       |       |       | 145-150  |         |       |
| 155.0    |  |       |       |       |       |       |       |       | 150-155  |         |       |
| 160.0    |  |       |       |       |       |       |       |       | 155-160  |         |       |
| 165.0    |  |       |       |       |       |       |       |       | 160-165  |         |       |
| 170.0    |  |       |       |       |       |       |       |       | 165-170  |         |       |
| 175.0    |  |       |       |       |       |       |       |       | 170-175  |         |       |
| 180.0    |  |       |       |       |       |       |       |       | 175-180  |         |       |
| DEG      | LUMINOUS INTENSITY: $\times 10\text{cd}$ |       |       |       |       |       |       |       |          | UNIT:lm |       |

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

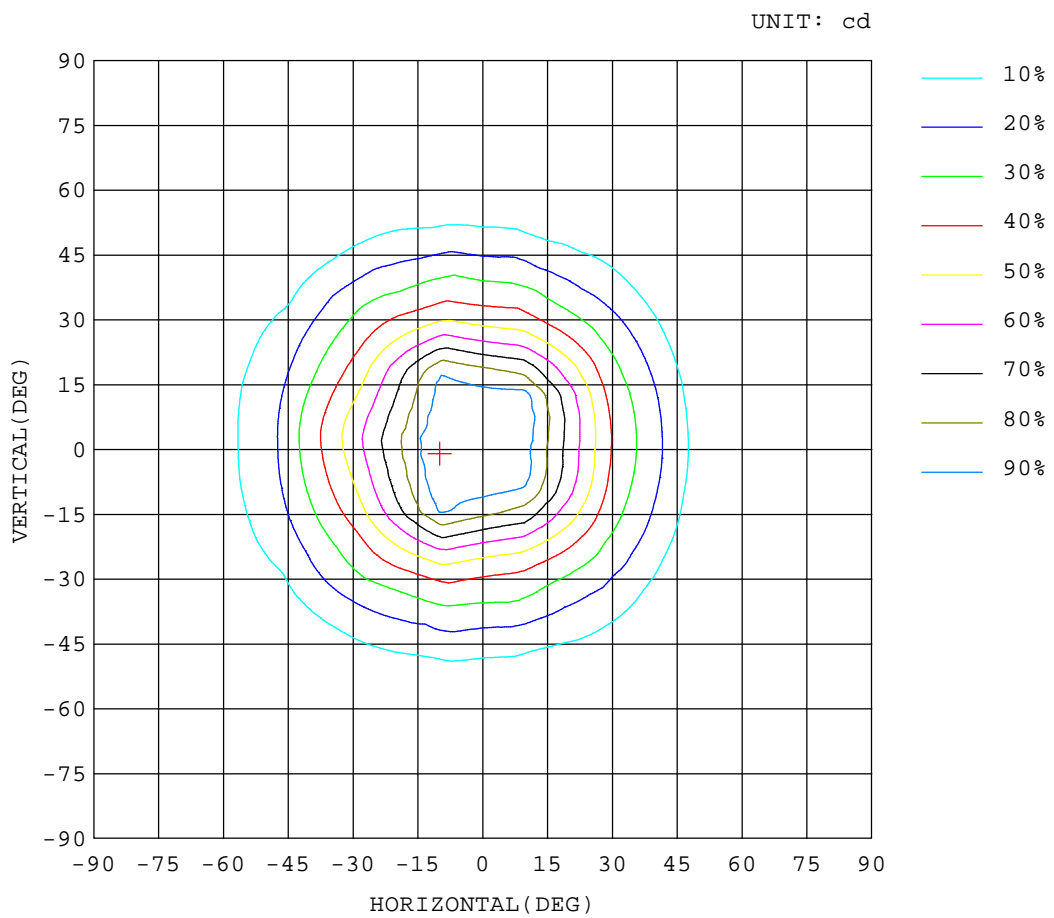
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

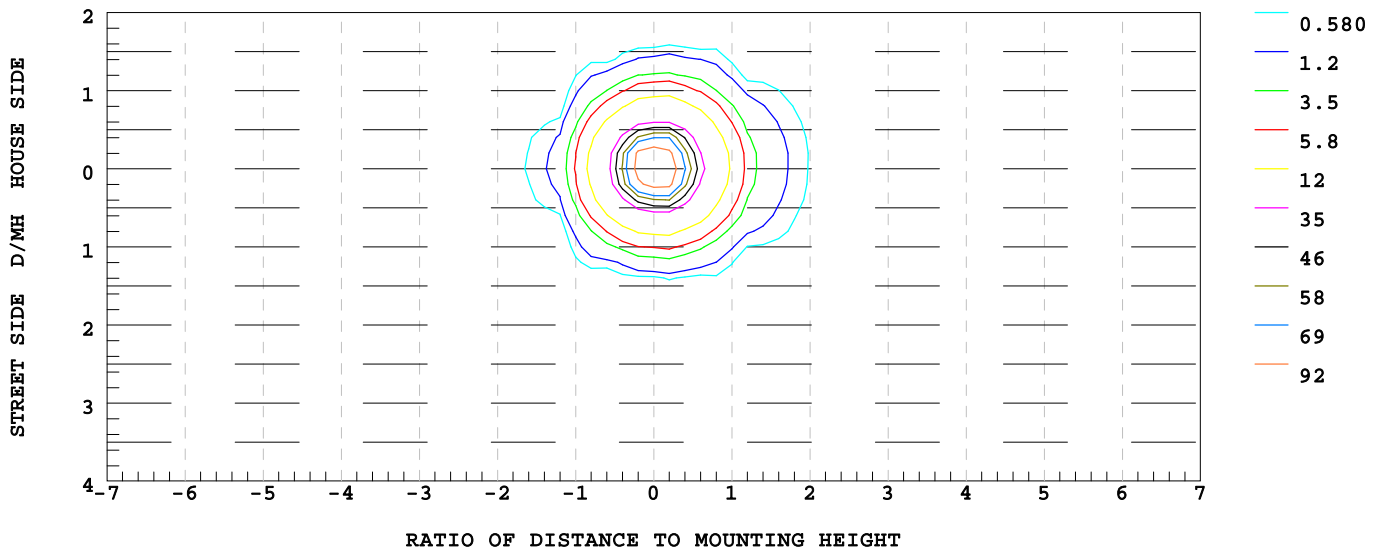
GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |

ILLUMINANCE AT MH=10 m,Enadir = 115.48 lx



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

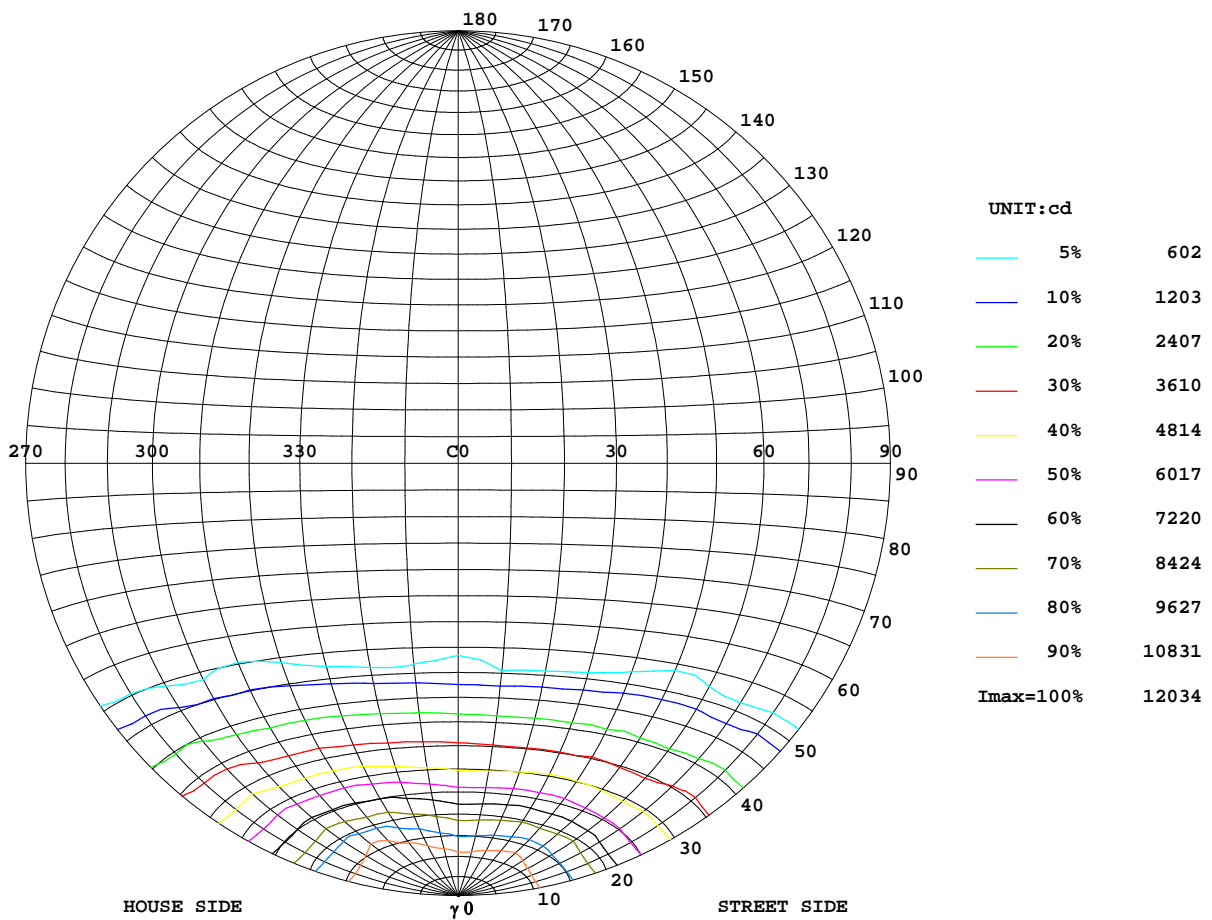
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

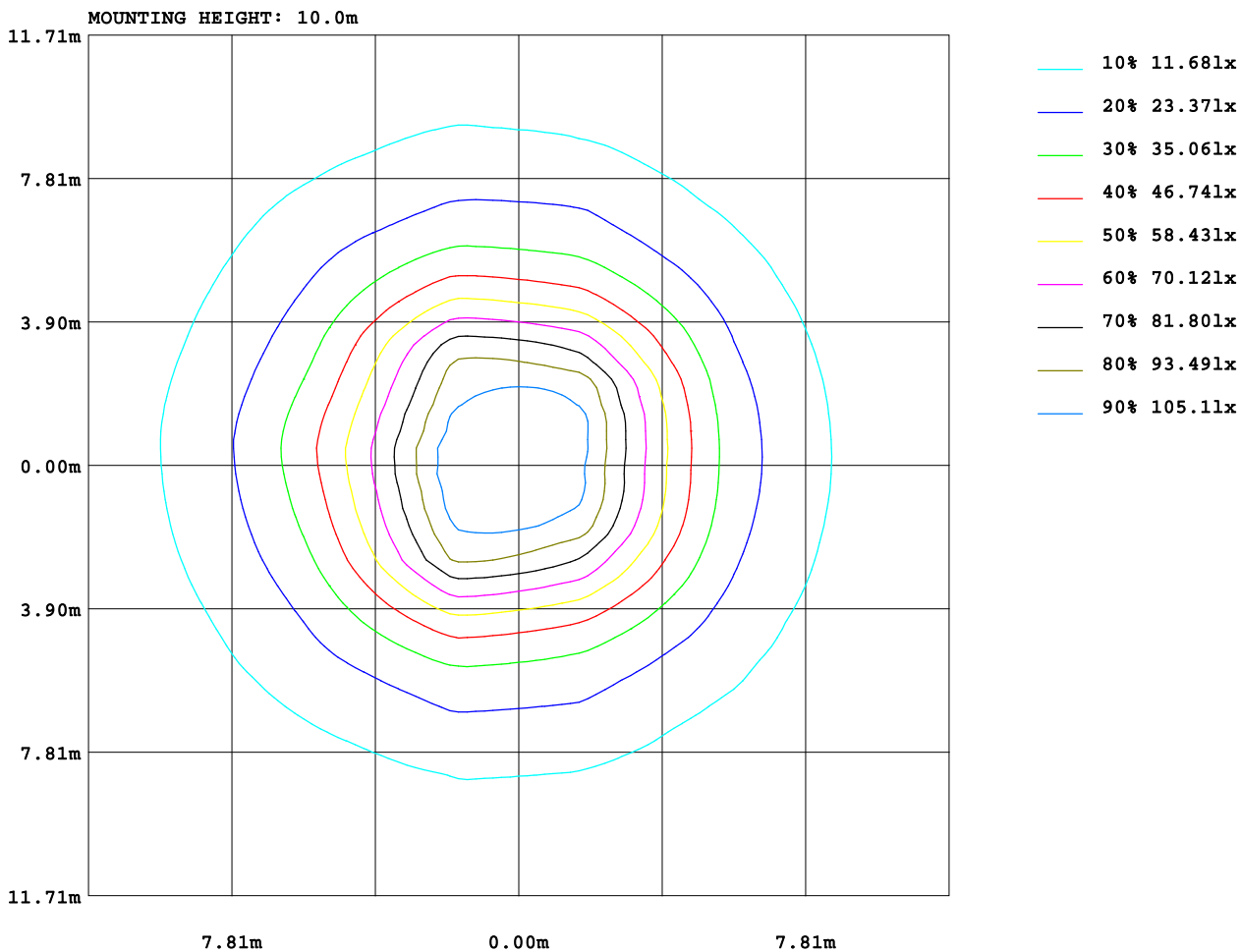
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

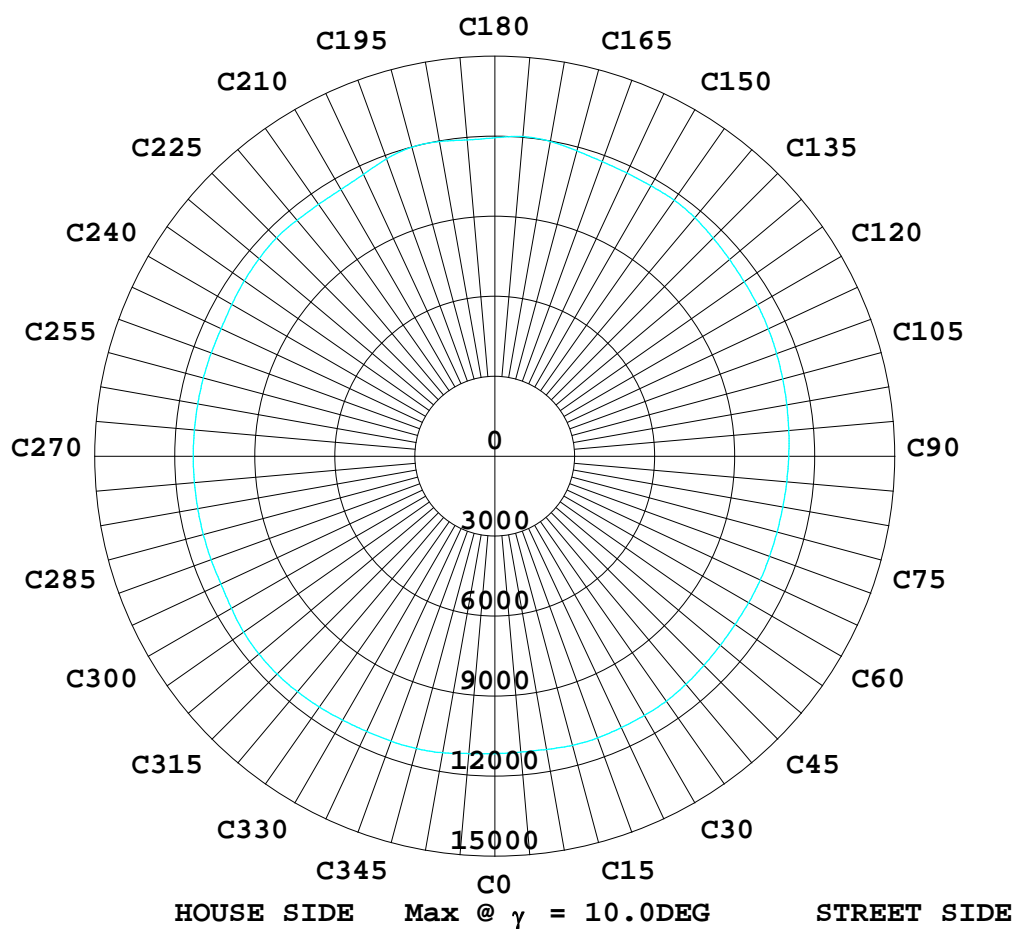
Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |



Test System:HOP00 HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:



GONIOPHOTOMETERS SYSTEM TEST REPORT

AREA LUMINOUS FLUX

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm |      | Φ t   | Φ a   |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|-------|-------|
|                | 0.02              | 0.06 | 0.10 | 0.14 | 0.17 | 0.19 | 0.21 | 0.21 | 0.29             | 0.28 | 0.21 | 0.18 | 0.16 | 0.13 | 0.11 | 0.08 | 0.05    | 0.02 | 2.59  | 0.00  |
| 90             | 0.02              | 0.06 | 0.10 | 0.14 | 0.17 | 0.19 | 0.21 | 0.21 | 0.29             | 0.28 | 0.21 | 0.18 | 0.16 | 0.13 | 0.11 | 0.08 | 0.05    | 0.02 | 2.59  | 0.00  |
| 80             | 0.02              | 0.06 | 0.11 | 0.15 | 0.18 | 0.20 | 0.22 | 0.32 | 0.42             | 0.41 | 0.30 | 0.26 | 0.20 | 0.15 | 0.12 | 0.08 | 0.05    | 0.02 | 3.26  | 0.00  |
| 70             | 0.02              | 0.07 | 0.11 | 0.20 | 0.59 | 0.32 | 0.97 | 0.87 | 0.60             | 0.71 | 0.46 | 0.41 | 0.29 | 0.20 | 0.13 | 0.09 | 0.05    | 0.02 | 6.11  | 0.00  |
| 60             | 0.02              | 0.07 | 0.12 | 1.87 | 4.47 | 4.62 | 15.5 | 19.5 | 22.1             | 19.2 | 11.0 | 7.40 | 2.07 | 0.32 | 0.27 | 0.09 | 0.05    | 0.02 | 109   | 16.1  |
| 50             | 0.02              | 0.07 | 0.48 | 6.58 | 13.1 | 27.0 | 50.3 | 66.7 | 75.1             | 69.4 | 52.3 | 33.2 | 13.5 | 1.13 | 1.29 | 0.19 | 0.06    | 0.02 | 411   | 342   |
| 40             | 0.02              | 0.07 | 1.88 | 12.0 | 26.4 | 59.6 | 97.0 | 125  | 140              | 132  | 106  | 70.8 | 36.2 | 7.91 | 3.33 | 0.66 | 0.06    | 0.02 | 820   | 774   |
| 30             | 0.02              | 0.07 | 3.73 | 17.4 | 41.8 | 88.5 | 145  | 204  | 230              | 214  | 174  | 115  | 62.0 | 19.8 | 6.00 | 1.40 | 0.06    | 0.02 | 1323  | 1289  |
|                | 0.02              | 0.07 | 5.33 | 21.9 | 55.7 | 114  | 188  | 279  | 326              | 316  | 256  | 157  | 82.0 | 30.8 | 8.20 | 2.05 | 0.06    | 0.02 | 1842  | 1812  |
|                | 0.02              | 0.07 | 6.12 | 23.7 | 64.3 | 133  | 215  | 305  | 352              | 347  | 285  | 175  | 92.2 | 36.7 | 9.31 | 2.45 | 0.06    | 0.02 | 2047  | 2019  |
|                | 0.02              | 0.07 | 6.01 | 23.2 | 62.1 | 127  | 209  | 305  | 351              | 341  | 277  | 171  | 90.2 | 35.9 | 9.11 | 2.41 | 0.06    | 0.02 | 2010  | 1981  |
|                | 0.02              | 0.07 | 5.02 | 20.4 | 52.0 | 107  | 178  | 266  | 304              | 282  | 227  | 144  | 77.5 | 28.7 | 7.38 | 1.92 | 0.06    | 0.02 | 1700  | 1669  |
| -30            | 0.02              | 0.07 | 3.41 | 15.7 | 37.0 | 79.5 | 128  | 175  | 194              | 179  | 147  | 102  | 56.3 | 17.4 | 5.20 | 1.25 | 0.06    | 0.02 | 1140  | 1102  |
| -40            | 0.02              | 0.07 | 1.67 | 10.4 | 21.8 | 48.7 | 78.4 | 102  | 115              | 109  | 88.5 | 60.6 | 31.2 | 5.87 | 2.55 | 0.59 | 0.06    | 0.02 | 678   | 630   |
| -50            | 0.02              | 0.07 | 0.42 | 5.25 | 8.67 | 18.1 | 35.9 | 48.1 | 55.6             | 51.5 | 39.4 | 26.6 | 11.2 | 0.67 | 0.73 | 0.17 | 0.06    | 0.02 | 303   | 204   |
| -60            | 0.02              | 0.06 | 0.11 | 1.28 | 2.01 | 2.45 | 7.99 | 8.40 | 9.98             | 8.12 | 5.35 | 3.98 | 1.52 | 0.25 | 0.18 | 0.10 | 0.05    | 0.02 | 51.9  | 0.00  |
| -70            | 0.02              | 0.06 | 0.10 | 0.16 | 0.29 | 0.36 | 0.47 | 0.38 | 0.62             | 0.46 | 0.55 | 0.36 | 0.25 | 0.18 | 0.13 | 0.09 | 0.05    | 0.02 | 4.54  | 0.00  |
| -80            | 0.02              | 0.06 | 0.10 | 0.13 | 0.16 | 0.21 | 0.28 | 0.32 | 0.38             | 0.39 | 0.33 | 0.22 | 0.18 | 0.15 | 0.12 | 0.08 | 0.05    | 0.02 | 3.19  | 0.00  |
| -90            | 0.02              | 0.06 | 0.10 | 0.13 | 0.16 | 0.18 | 0.19 | 0.22 | 0.28             | 0.29 | 0.20 | 0.17 | 0.16 | 0.13 | 0.11 | 0.08 | 0.05    | 0.02 | 2.53  | 0.00  |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90      |      |       |       |
| Φ t            | 0.38              | 1.20 | 34.9 | 161  | 391  | 811  | 1349 | 1907 | 2177             | 2071 | 1672 | 1068 | 558  | 187  | 54.2 | 13.8 | 0.99    | 0.30 | 12459 |       |
| Φ a            | 0.00              | 0.00 | 0.00 | 67.5 | 331  | 773  | 1309 | 1873 | 2147             | 2038 | 1638 | 1025 | 511  | 124  | 0.00 | 0.00 | 0.00    | 0.00 |       | 11837 |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

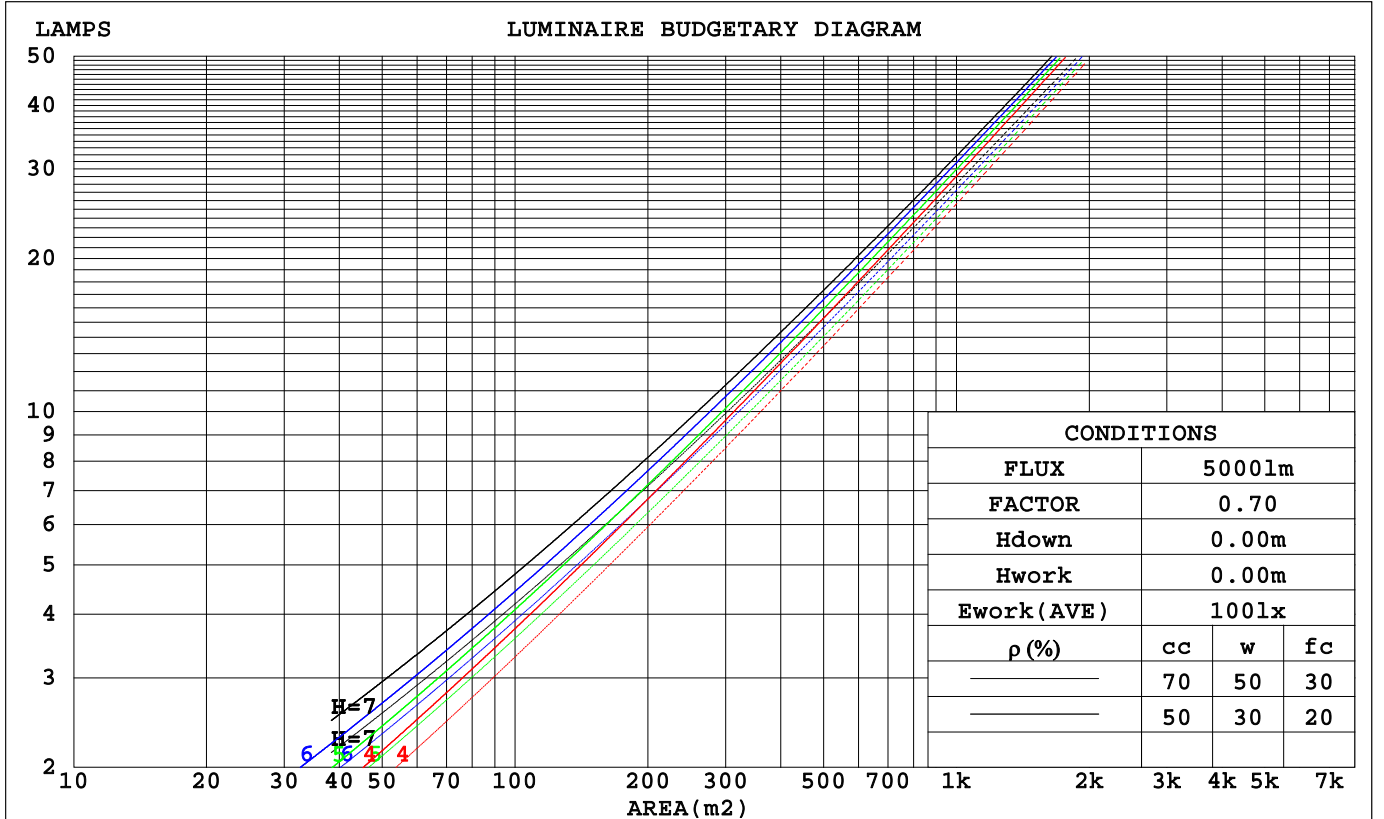
GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: FL-B170322-1

|                                |  |  |                     |  |                         |
|--------------------------------|--|--|---------------------|--|-------------------------|
| MANUFACTURER: Feilong lighting |  |  | Address:            |  |                         |
| NAME: high bay light           |  |  | TYPE:high bay light |  | WEIGHT:                 |
| SPECIFICATION:                 |  |  | DIMENSION:          |  | SERIAL No.:FL-C170322-1 |

| ρcc  | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
|------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| ρw   | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| ρfc  | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio |      |      | 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 | 1.00 |
| 1.0  | 1.10                  | 1.07 | 1.05 | 1.08                            | 1.05 | 1.03 | 1.04 | 1.02 | .00  | .00  | .98  | .97  | .96  | .95  | .94  | .92  |
| 2.0  | 1.01                  | .97  | .93  | .99                             | .95  | .92  | .96  | .93  | .90  | .93  | .90  | .88  | .90  | .88  | .86  | .84  |
| 3.0  | .93                   | .88  | .83  | .92                             | .87  | .83  | .89  | .85  | .81  | .87  | .83  | .80  | .84  | .81  | .79  | .77  |
| 4.0  | .86                   | .80  | .75  | .85                             | .79  | .75  | .83  | .78  | .74  | .81  | .76  | .73  | .79  | .75  | .72  | .71  |
| 5.0  | .80                   | .73  | .69  | .79                             | .73  | .68  | .77  | .72  | .68  | .75  | .71  | .67  | .74  | .70  | .66  | .65  |
| 6.0  | .74                   | .68  | .63  | .73                             | .67  | .63  | .72  | .66  | .62  | .70  | .65  | .62  | .69  | .65  | .61  | .60  |
| 7.0  | .69                   | .62  | .58  | .68                             | .62  | .58  | .67  | .61  | .57  | .66  | .61  | .57  | .65  | .60  | .57  | .55  |
| 8.0  | .65                   | .58  | .54  | .64                             | .58  | .53  | .63  | .57  | .53  | .62  | .57  | .53  | .61  | .56  | .53  | .51  |
| 9.0  | .61                   | .54  | .50  | .60                             | .54  | .50  | .59  | .53  | .49  | .58  | .53  | .49  | .57  | .53  | .49  | .48  |
| 10.0 | .57                   | .51  | .46  | .56                             | .50  | .46  | .56  | .50  | .46  | .55  | .50  | .46  | .54  | .49  | .46  | .44  |



Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**WEC AND CCEC**

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0         | .195                  | .111 | .035 | .188 | .107 | .034 | .175                            | .101 | .032 | .164 | .094 | .030 | .153 | .089 | .029 |   |
| 2.0         | .189                  | .104 | .032 | .183 | .101 | .031 | .173                            | .096 | .030 | .163 | .091 | .029 | .154 | .087 | .027 |   |
| 3.0         | .181                  | .096 | .029 | .176 | .094 | .028 | .167                            | .090 | .027 | .158 | .087 | .027 | .150 | .083 | .026 |   |
| 4.0         | .173                  | .090 | .026 | .169 | .088 | .026 | .160                            | .085 | .025 | .153 | .082 | .025 | .146 | .079 | .024 |   |
| 5.0         | .165                  | .084 | .024 | .161 | .083 | .024 | .154                            | .080 | .024 | .147 | .078 | .023 | .141 | .075 | .023 |   |
| 6.0         | .157                  | .079 | .022 | .153 | .078 | .022 | .147                            | .075 | .022 | .141 | .073 | .022 | .136 | .072 | .021 |   |
| 7.0         | .149                  | .074 | .021 | .146 | .073 | .021 | .141                            | .071 | .021 | .136 | .070 | .020 | .131 | .068 | .020 |   |
| 8.0         | .142                  | .070 | .020 | .140 | .069 | .019 | .135                            | .067 | .019 | .130 | .066 | .019 | .126 | .065 | .019 |   |
| 9.0         | .136                  | .066 | .018 | .134 | .065 | .018 | .129                            | .064 | .018 | .125 | .063 | .018 | .121 | .061 | .018 |   |
| 10.0        | .130                  | .062 | .017 | .128 | .062 | .017 | .124                            | .061 | .017 | .120 | .060 | .017 | .116 | .058 | .017 |   |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0         | .172                  | .157 | .143 | .147 | .135 | .123 | .101                                       | .093 | .085 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0         | .159                  | .132 | .110 | .136 | .114 | .095 | .093                                       | .079 | .067 | .054 | .046 | .039 | .017 | .015 | .013 |   |
| 3.0         | .147                  | .114 | .087 | .126 | .098 | .075 | .087                                       | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 |   |
| 4.0         | .138                  | .099 | .070 | .118 | .086 | .061 | .081                                       | .060 | .043 | .047 | .035 | .025 | .015 | .011 | .008 |   |
| 5.0         | .130                  | .088 | .057 | .112 | .076 | .050 | .077                                       | .053 | .035 | .045 | .031 | .021 | .014 | .010 | .007 |   |
| 6.0         | .123                  | .079 | .047 | .106 | .068 | .041 | .073                                       | .048 | .029 | .042 | .028 | .017 | .014 | .009 | .006 |   |
| 7.0         | .117                  | .072 | .040 | .100 | .062 | .035 | .069                                       | .044 | .025 | .040 | .026 | .015 | .013 | .008 | .005 |   |
| 8.0         | .111                  | .066 | .034 | .096 | .057 | .030 | .066                                       | .040 | .021 | .038 | .024 | .013 | .012 | .008 | .004 |   |
| 9.0         | .106                  | .060 | .030 | .091 | .052 | .026 | .063                                       | .037 | .018 | .037 | .022 | .011 | .012 | .007 | .004 |   |
| 10.0        | .101                  | .056 | .026 | .087 | .049 | .023 | .061                                       | .034 | .016 | .035 | .020 | .010 | .011 | .007 | .003 |   |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number: FL-B170322-1

|  |                  |      |      |      |                     |                |      |                         |      |      |
|--|------------------|------|------|------|---------------------|----------------|------|-------------------------|------|------|
| MANUFACTURER: Feilong lighting                     |                  |      |      |      | Address:            |                |      |                         |      |      |
| NAME: high bay light                               |                  |      |      |      | TYPE:high bay light |                |      | WEIGHT:                 |      |      |
| SPECIFICATION:                                     |                  |      |      |      | DIMENSION:          |                |      | SERIAL No.:FL-C170322-1 |      |      |
| 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                                      | 18.6             | 19.7 | 18.8 | 19.8 | 20.0                | 18.4           | 19.4 | 18.6                    | 19.6 | 19.8 |
| 3H   | 18.5             | 19.5 | 18.7 | 19.7 | 19.9                | 18.2           | 19.2 | 18.5                    | 19.4 | 19.6 |
| 4H   | 18.4             | 19.3 | 18.7 | 19.5 | 19.8                | 18.1           | 19.0 | 18.4                    | 19.3 | 19.5 |
| 6H   | 18.3             | 19.2 | 18.6 | 19.4 | 19.7                | 18.0           | 18.9 | 18.3                    | 19.1 | 19.4 |
| 8H   | 18.2             | 19.1 | 18.6 | 19.3 | 19.6                | 18.0           | 18.8 | 18.3                    | 19.1 | 19.3 |
| 12H  | 18.2             | 19.0 | 18.5 | 19.3 | 19.5                | 17.9           | 18.7 | 18.3                    | 19.0 | 19.3 |
| 4H 2H  | 18.3             | 19.3 | 18.6 | 19.5 | 19.7                | 18.1           | 19.0 | 18.4                    | 19.3 | 19.5 |
| 3H   | 18.2             | 19.0 | 18.6 | 19.3 | 19.6                | 17.9           | 18.7 | 18.3                    | 19.0 | 19.3 |
| 4H   | 18.1             | 18.9 | 18.5 | 19.2 | 19.5                | 17.8           | 18.6 | 18.2                    | 18.9 | 19.2 |
| 6H   | 18.0             | 18.7 | 18.4 | 19.0 | 19.4                | 17.8           | 18.4 | 18.1                    | 18.7 | 19.1 |
| 8H   | 18.0             | 18.6 | 18.4 | 18.9 | 19.3                | 17.7           | 18.3 | 18.1                    | 18.6 | 19.0 |
| 12H  | 17.9             | 18.5 | 18.4 | 18.9 | 19.2                | 17.7           | 18.2 | 18.1                    | 18.6 | 19.0 |
| 8H 4H  | 18.0             | 18.6 | 18.4 | 18.9 | 19.3                | 17.7           | 18.3 | 18.1                    | 18.6 | 19.0 |
| 6H   | 17.9             | 18.4 | 18.3 | 18.8 | 19.2                | 17.6           | 18.1 | 18.0                    | 18.5 | 18.9 |
| 8H   | 17.9             | 18.3 | 18.3 | 18.7 | 19.1                | 17.6           | 18.0 | 18.0                    | 18.4 | 18.8 |
| 12H  | 17.8             | 18.2 | 18.3 | 18.6 | 19.1                | 17.5           | 17.9 | 18.0                    | 18.3 | 18.8 |
| 12H 4H   | 17.9             | 18.5 | 18.4 | 18.8 | 19.2                | 17.7           | 18.2 | 18.1                    | 18.6 | 19.0 |
| 6H   | 17.8             | 18.3 | 18.3 | 18.7 | 19.1                | 17.6           | 18.0 | 18.0                    | 18.4 | 18.8 |
| 8H   | 17.8             | 18.2 | 18.3 | 18.6 | 19.1                | 17.5           | 17.9 | 18.0                    | 18.3 | 18.8 |
| Variations with the observer position at spacings: |                  |      |      |      |                     |                |      |                         |      |      |
| S = 1.0H   | + 2.2 / - 6.5    |      |      |      |                     | + 2.6 / -15.3  |      |                         |      |      |
| 1.5H   | + 3.2 / -14.9    |      |      |      |                     | + 3.0 / - 6.6  |      |                         |      |      |
| 2.0H   | + 5.7 / -17.5    |      |      |      |                     | + 5.9 / -15.6  |      |                         |      |      |

CIE Pub.117 Corrected 12459 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.8)

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## UTILIZATION FACTORS TABLE

Report number: FL-B170322-1

|                                |                     |                         |
|--------------------------------|---------------------|-------------------------|
| MANUFACTURER: Feilong lighting | Address:            |                         |
| NAME: high bay light           | TYPE:high bay light | WEIGHT:                 |
| SPECIFICATION:                 | DIMENSION:          | SERIAL No.:FL-C170322-1 |

| 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                         | 79  | 71  | 66        | 78  | 71  | 66  | 77            | 70  | 66  | 62     |
| 0.80                             | 88  | 80  | 76        | 87  | 80  | 75  | 86            | 79  | 75  | 71     |
| 1.00                             | 94  | 87  | 83        | 93  | 87  | 82  | 91            | 87  | 82  | 77     |
| 1.25                             | 99  | 93  | 88        | 98  | 92  | 88  | 96            | 91  | 87  | 82     |
| 1.50                             | 102   | 97  | 93        | 101 | 96  | 92  | 99            | 94  | 91  | 86     |
| 2.00                             | 106   | 101 | 98        | 105 | 100 | 97  | 102           | 98  | 95  | 90     |
| 2.50                             | 108   | 104 | 100       | 107 | 102 | 99  | 103           | 100 | 97  | 91     |
| 3.00                             | 110   | 106 | 103       | 108 | 105 | 102 | 105           | 102 | 100 | 93     |
| 4.00                             | 112   | 109 | 106       | 110 | 107 | 105 | 107           | 104 | 102 | 95     |
| 5.00                             | 114   | 111 | 109       | 112 | 109 | 107 | 107           | 106 | 104 | 96     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

UNIT: ×10cd

| γ (DEG) | C(DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 0      | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   |
| 0.0     | 1155   | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 |
| 5.0     | 1135   | 1136 | 1137 | 1137 | 1138 | 1139 | 1140 | 1141 | 1141 | 1140 | 1140 | 1140 | 1140 | 1141 | 1142 |
| 10.0    | 1115   | 1114 | 1116 | 1122 | 1125 | 1123 | 1122 | 1121 | 1116 | 1109 | 1103 | 1100 | 1099 | 1099 | 1096 |
| 15.0    | 954    | 955  | 965  | 973  | 982  | 990  | 995  | 1005 | 1016 | 1018 | 1009 | 987  | 975  | 969  | 968  |
| 20.0    | 794    | 795  | 803  | 809  | 814  | 819  | 826  | 819  | 812  | 812  | 817  | 817  | 816  | 797  | 784  |
| 25.0    | 633    | 634  | 637  | 642  | 647  | 651  | 644  | 644  | 644  | 635  | 625  | 619  | 615  | 614  | 610  |
| 30.0    | 472    | 471  | 471  | 476  | 483  | 487  | 492  | 493  | 485  | 481  | 475  | 467  | 462  | 463  | 470  |
| 35.0    | 372    | 370  | 366  | 364  | 364  | 365  | 364  | 360  | 368  | 363  | 356  | 352  | 348  | 354  | 366  |
| 40.0    | 272    | 270  | 267  | 265  | 267  | 266  | 263  | 267  | 263  | 268  | 257  | 253  | 249  | 258  | 261  |
| 45.0    | 172    | 170  | 167  | 169  | 170  | 169  | 171  | 172  | 175  | 170  | 169  | 166  | 166  | 168  | 165  |
| 50.0    | 72.1   | 70.7 | 68.6 | 73.9 | 75.2 | 77.7 | 80.8 | 86.0 | 92.2 | 97.5 | 101  | 102  | 92.7 | 83.3 | 81.3 |
| 55.0    | 54.2   | 51.6 | 45.7 | 43.1 | 33.9 | 23.8 | 10.7 | 8.98 | 26.9 | 40.0 | 49.4 | 47.9 | 37.2 | 16.5 | 18.4 |
| 60.0    | 36.4   | 34.6 | 30.7 | 28.4 | 21.9 | 13.8 | 5.41 | 1.65 | 1.52 | 1.45 | 10.5 | 14.1 | 6.62 | 2.66 | 2.75 |
| 65.0    | 18.6   | 17.8 | 16.0 | 14.9 | 11.0 | 6.50 | 1.76 | 1.27 | 1.21 | 1.19 | 1.17 | 1.17 | 1.44 | 1.69 | 1.93 |
| 70.0    | 0.82   | 1.04 | 1.61 | 2.33 | 2.63 | 2.00 | 0.98 | 0.96 | 0.95 | 0.97 | 0.97 | 0.98 | 0.98 | 1.04 | 1.32 |
| 75.0    | 0.76   | 0.75 | 0.76 | 0.76 | 0.76 | 0.75 | 0.75 | 0.75 | 0.74 | 0.76 | 0.78 | 0.80 | 0.82 | 0.85 | 0.89 |
| 80.0    | 0.70   | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.69 | 0.69 | 0.69 | 0.68 | 0.68 | 0.68 | 0.67 | 0.70 | 0.74 |
| 85.0    | 0.64   | 0.64 | 0.65 | 0.64 | 0.65 | 0.64 | 0.64 | 0.64 | 0.63 | 0.64 | 0.64 | 0.63 | 0.63 | 0.63 | 0.63 |
| 90.0    | 0.58   | 0.58 | 0.59 | 0.58 | 0.59 | 0.58 | 0.58 | 0.59 | 0.58 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

UNIT: ×10cd

| γ (DEG) | C(DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 75     | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  |
| 0.0     | 1155   | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 |
| 5.0     | 1143   | 1144 | 1146 | 1147 | 1148 | 1149 | 1151 | 1152 | 1153 | 1154 | 1155 | 1157 | 1160 | 1162 | 1165 |
| 10.0    | 1096   | 1097 | 1099 | 1102 | 1107 | 1112 | 1118 | 1125 | 1132 | 1137 | 1142 | 1149 | 1158 | 1167 | 1173 |
| 15.0    | 966    | 967  | 972  | 980  | 993  | 1010 | 1033 | 1062 | 1078 | 1091 | 1107 | 1128 | 1121 | 1104 | 1088 |
| 20.0    | 776    | 773  | 775  | 784  | 800  | 822  | 851  | 886  | 924  | 959  | 956  | 964  | 978  | 952  | 942  |
| 25.0    | 599    | 595  | 596  | 604  | 617  | 638  | 665  | 704  | 725  | 731  | 741  | 753  | 761  | 770  | 788  |
| 30.0    | 468    | 464  | 464  | 469  | 480  | 497  | 520  | 536  | 542  | 550  | 562  | 576  | 588  | 598  | 605  |
| 35.0    | 374    | 371  | 373  | 376  | 382  | 397  | 417  | 408  | 407  | 412  | 422  | 437  | 455  | 461  | 459  |
| 40.0    | 266    | 267  | 264  | 267  | 273  | 279  | 293  | 293  | 295  | 306  | 314  | 330  | 350  | 355  | 358  |
| 45.0    | 169    | 179  | 169  | 169  | 179  | 199  | 193  | 195  | 199  | 209  | 218  | 229  | 238  | 252  | 260  |
| 50.0    | 84.3   | 91.9 | 90.4 | 91.1 | 101  | 112  | 107  | 110  | 119  | 126  | 133  | 138  | 146  | 154  | 163  |
| 55.0    | 24.8   | 19.8 | 16.0 | 13.8 | 21.5 | 33.6 | 31.9 | 35.2 | 49.6 | 64.6 | 66.7 | 64.7 | 63.4 | 69.1 | 71.5 |
| 60.0    | 2.31   | 1.81 | 1.55 | 2.22 | 2.99 | 2.63 | 2.51 | 1.44 | 5.28 | 19.9 | 24.5 | 14.9 | 4.35 | 20.4 | 41.1 |
| 65.0    | 2.10   | 1.63 | 1.21 | 1.77 | 2.38 | 1.74 | 1.14 | 1.26 | 1.49 | 2.51 | 1.89 | 1.94 | 2.11 | 8.94 | 21.4 |
| 70.0    | 1.61   | 1.59 | 1.14 | 1.50 | 1.81 | 1.16 | 1.03 | 1.24 | 1.46 | 1.44 | 1.40 | 1.38 | 1.40 | 2.49 | 7.68 |
| 75.0    | 1.13   | 1.46 | 1.17 | 1.33 | 1.37 | 0.87 | 1.10 | 1.22 | 1.12 | 1.05 | 0.98 | 0.91 | 0.83 | 0.79 | 0.81 |
| 80.0    | 0.80   | 1.02 | 1.29 | 1.23 | 0.91 | 1.00 | 1.01 | 0.89 | 0.78 | 0.71 | 0.73 | 0.75 | 0.76 | 0.77 | 0.78 |
| 85.0    | 0.64   | 0.70 | 0.96 | 1.15 | 0.94 | 0.79 | 0.67 | 0.69 | 0.70 | 0.71 | 0.72 | 0.73 | 0.74 | 0.74 | 0.75 |
| 90.0    | 0.60   | 0.59 | 0.59 | 1.12 | 0.69 | 0.70 | 0.71 | 0.70 | 0.71 | 0.71 | 0.71 | 0.73 | 0.73 | 0.72 | 0.72 |

Test System:HOPPO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

UNIT: ×10cd

| γ (DEG) | C(DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 150    | 155  | 160  | 165  | 170  | 175  | 180  | 185  | 190  | 195  | 200  | 205  | 210  | 215  | 220  |
| 0.0     | 1155   | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 |
| 5.0     | 1170   | 1174 | 1177 | 1180 | 1181 | 1178 | 1175 | 1174 | 1173 | 1176 | 1180 | 1183 | 1182 | 1181 | 1176 |
| 10.0    | 1171   | 1172 | 1176 | 1186 | 1199 | 1203 | 1194 | 1191 | 1199 | 1200 | 1187 | 1167 | 1156 | 1153 | 1155 |
| 15.0    | 1076   | 1072 | 1060 | 1051 | 1055 | 1065 | 1060 | 1062 | 1073 | 1060 | 1052 | 1061 | 1075 | 1078 | 1090 |
| 20.0    | 932    | 921  | 919  | 913  | 911  | 923  | 925  | 933  | 933  | 920  | 927  | 928  | 934  | 949  | 966  |
| 25.0    | 774    | 772  | 767  | 770  | 770  | 780  | 790  | 802  | 794  | 789  | 786  | 787  | 795  | 812  | 830  |
| 30.0    | 614    | 614  | 615  | 619  | 626  | 638  | 655  | 667  | 663  | 652  | 644  | 642  | 649  | 661  | 668  |
| 35.0    | 466    | 477  | 489  | 499  | 510  | 522  | 536  | 547  | 540  | 527  | 517  | 509  | 507  | 507  | 516  |
| 40.0    | 359    | 368  | 380  | 388  | 397  | 407  | 417  | 425  | 420  | 411  | 403  | 400  | 398  | 398  | 400  |
| 45.0    | 263    | 264  | 272  | 280  | 287  | 293  | 298  | 305  | 303  | 299  | 295  | 294  | 294  | 294  | 299  |
| 50.0    | 170    | 167  | 171  | 176  | 177  | 179  | 179  | 184  | 189  | 190  | 191  | 192  | 194  | 197  | 199  |
| 55.0    | 89.1   | 103  | 112  | 122  | 128  | 133  | 134  | 137  | 138  | 132  | 127  | 119  | 107  | 103  | 101  |
| 60.0    | 58.2   | 70.2 | 74.7 | 81.7 | 85.2 | 88.8 | 89.8 | 92.0 | 92.5 | 88.4 | 86.2 | 80.3 | 73.2 | 62.7 | 44.7 |
| 65.0    | 30.8   | 38.9 | 39.9 | 42.7 | 43.8 | 45.0 | 45.4 | 46.7 | 47.7 | 47.0 | 47.1 | 45.4 | 43.1 | 34.5 | 24.5 |
| 70.0    | 9.72   | 10.1 | 7.85 | 5.50 | 3.20 | 1.56 | 0.97 | 1.61 | 3.44 | 6.11 | 9.23 | 12.0 | 14.1 | 12.7 | 8.75 |
| 75.0    | 0.82   | 0.84 | 0.85 | 0.87 | 0.89 | 0.90 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 | 0.92 | 0.91 | 0.89 | 0.86 |
| 80.0    | 0.79   | 0.80 | 0.81 | 0.83 | 0.84 | 0.85 | 0.86 | 0.86 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.84 | 0.83 |
| 85.0    | 0.76   | 0.77 | 0.76 | 0.78 | 0.79 | 0.79 | 0.81 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.81 | 0.80 | 0.80 |
| 90.0    | 0.73   | 0.73 | 0.72 | 0.73 | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.76 | 0.77 | 0.77 | 0.76 | 0.77 | 0.78 |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:



**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

UNIT: ×10cd

| γ (DEG) | C(DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 225    | 230  | 235  | 240  | 245  | 250  | 255  | 260  | 265  | 270  | 275  | 280  | 285  | 290  | 295  |
| 0.0     | 1155   | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 |
| 5.0     | 1169   | 1163 | 1158 | 1156 | 1154 | 1152 | 1151 | 1150 | 1149 | 1149 | 1149 | 1149 | 1149 | 1149 | 1149 |
| 10.0    | 1159   | 1154 | 1148 | 1139 | 1133 | 1132 | 1132 | 1132 | 1131 | 1131 | 1131 | 1131 | 1132 | 1133 | 1134 |
| 15.0    | 1111   | 1127 | 1122 | 1116 | 1111 | 1104 | 1095 | 1085 | 1076 | 1069 | 1064 | 1063 | 1067 | 1075 | 1088 |
| 20.0    | 993    | 1022 | 1043 | 1071 | 1052 | 1013 | 979  | 952  | 931  | 917  | 910  | 910  | 916  | 928  | 942  |
| 25.0    | 848    | 851  | 849  | 851  | 852  | 833  | 790  | 760  | 738  | 723  | 716  | 715  | 721  | 737  | 740  |
| 30.0    | 668    | 664  | 655  | 649  | 644  | 639  | 621  | 592  | 571  | 559  | 554  | 556  | 564  | 564  | 556  |
| 35.0    | 517    | 514  | 507  | 495  | 484  | 482  | 487  | 469  | 454  | 447  | 444  | 447  | 452  | 432  | 420  |
| 40.0    | 406    | 403  | 386  | 377  | 369  | 374  | 379  | 371  | 357  | 346  | 341  | 342  | 332  | 319  | 314  |
| 45.0    | 296    | 296  | 284  | 277  | 270  | 265  | 258  | 268  | 247  | 234  | 231  | 239  | 228  | 211  | 207  |
| 50.0    | 195    | 190  | 184  | 185  | 176  | 166  | 161  | 160  | 150  | 143  | 144  | 141  | 129  | 121  | 124  |
| 55.0    | 99.3   | 98.5 | 99.2 | 99.2 | 100  | 86.5 | 79.0 | 78.4 | 73.0 | 63.4 | 63.3 | 59.7 | 52.1 | 41.8 | 46.9 |
| 60.0    | 25.9   | 23.3 | 36.5 | 45.0 | 37.8 | 14.8 | 17.6 | 13.8 | 6.40 | 2.81 | 4.05 | 7.13 | 10.4 | 1.56 | 5.37 |
| 65.0    | 9.82   | 1.49 | 1.29 | 9.13 | 5.42 | 2.49 | 2.68 | 1.97 | 1.36 | 1.97 | 2.66 | 1.98 | 1.32 | 1.29 | 1.38 |
| 70.0    | 2.24   | 1.11 | 1.04 | 0.99 | 1.01 | 1.44 | 1.87 | 1.86 | 1.26 | 1.62 | 1.99 | 1.34 | 1.10 | 1.17 | 1.22 |
| 75.0    | 0.87   | 0.87 | 0.86 | 0.84 | 0.82 | 0.78 | 1.09 | 1.63 | 1.27 | 1.40 | 1.51 | 0.99 | 1.04 | 1.06 | 1.00 |
| 80.0    | 0.81   | 0.80 | 0.77 | 0.73 | 0.72 | 0.71 | 0.67 | 0.91 | 1.41 | 1.27 | 1.06 | 0.97 | 0.93 | 0.84 | 0.78 |
| 85.0    | 0.80   | 0.78 | 0.78 | 0.76 | 0.74 | 0.71 | 0.67 | 0.64 | 0.81 | 1.17 | 0.90 | 0.79 | 0.71 | 0.68 | 0.66 |
| 90.0    | 0.79   | 0.78 | 0.79 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.82 | 1.13 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: FL-B170322-1

|                                       |                             |                                 |
|---------------------------------------|-----------------------------|---------------------------------|
| <b>MANUFACTURER:</b> Feilong lighting | <b>Address:</b>             |                                 |
| <b>NAME:</b> high bay light           | <b>TYPE:</b> high bay light | <b>WEIGHT:</b>                  |
| <b>SPECIFICATION:</b>                 | <b>DIMENSION:</b>           | <b>SERIAL No.:</b> FL-C170322-1 |

UNIT: ×10cd

| γ (DEG) \ C (DEG) | 300  | 305  | 310  | 315  | 320  | 325  | 330  | 335  | 340  | 345  | 350  | 355  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0               | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 | 1155 |
| 5.0               | 1148 | 1148 | 1150 | 1152 | 1154 | 1155 | 1153 | 1152 | 1147 | 1141 | 1137 | 1136 |
| 10.0              | 1141 | 1150 | 1155 | 1156 | 1153 | 1148 | 1142 | 1138 | 1137 | 1135 | 1129 | 1119 |
| 15.0              | 1107 | 1123 | 1134 | 1109 | 1078 | 1063 | 1049 | 1027 | 1004 | 986  | 976  | 963  |
| 20.0              | 948  | 934  | 923  | 925  | 924  | 908  | 878  | 865  | 849  | 828  | 814  | 803  |
| 25.0              | 735  | 733  | 735  | 728  | 719  | 718  | 716  | 694  | 680  | 665  | 649  | 641  |
| 30.0              | 553  | 552  | 553  | 554  | 555  | 544  | 533  | 524  | 507  | 495  | 484  | 477  |
| 35.0              | 413  | 410  | 413  | 411  | 405  | 397  | 391  | 385  | 384  | 381  | 378  | 375  |
| 40.0              | 301  | 298  | 299  | 297  | 296  | 291  | 290  | 285  | 283  | 280  | 277  | 274  |
| 45.0              | 202  | 201  | 199  | 200  | 197  | 194  | 190  | 186  | 182  | 181  | 176  | 173  |
| 50.0              | 119  | 122  | 120  | 115  | 107  | 102  | 96.4 | 88.6 | 84.5 | 82.0 | 75.4 | 72.2 |
| 55.0              | 59.4 | 62.4 | 59.2 | 48.6 | 32.0 | 15.4 | 20.5 | 31.1 | 40.8 | 49.1 | 51.3 | 53.0 |
| 60.0              | 18.7 | 22.3 | 13.4 | 1.90 | 2.05 | 2.56 | 11.1 | 20.9 | 25.4 | 32.3 | 34.5 | 35.6 |
| 65.0              | 2.25 | 1.47 | 1.46 | 1.47 | 1.53 | 1.63 | 5.55 | 11.0 | 13.5 | 16.8 | 18.0 | 18.2 |
| 70.0              | 1.20 | 1.16 | 1.13 | 1.11 | 1.09 | 1.09 | 1.78 | 3.07 | 3.02 | 2.53 | 1.72 | 1.05 |
| 75.0              | 0.95 | 0.90 | 0.85 | 0.79 | 0.76 | 0.75 | 0.74 | 0.74 | 0.75 | 0.75 | 0.76 | 0.75 |
| 80.0              | 0.74 | 0.71 | 0.71 | 0.70 | 0.70 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.70 | 0.70 |
| 85.0              | 0.65 | 0.64 | 0.64 | 0.63 | 0.63 | 0.63 | 0.63 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| 90.0              | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |

Test System:HOPOO HPG1900  
 Temperature:25.3DEG  
 Operators:hu  
 Test Date:2017-03-22

Test Set: 5.0deg/s A-Alpha (TYPE A)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: