

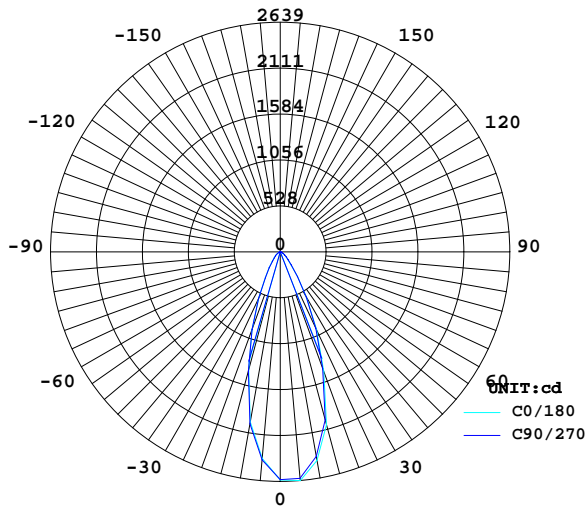
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

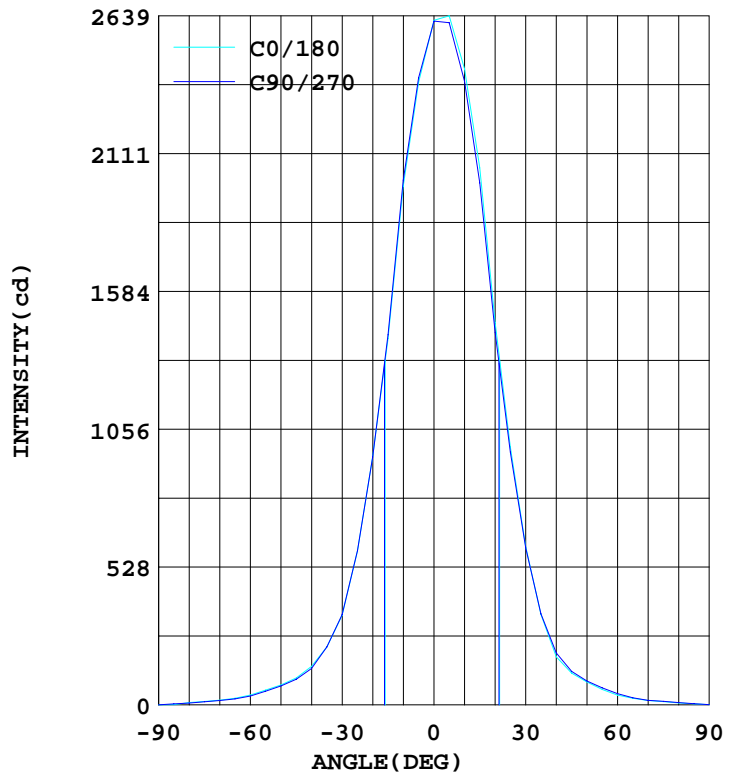
| | | | |
|------------------------------|--|--------------------------|-------------|
| MANUFACTURER: Buddy Lighting | | Address: Shenzhen, China | |
| NAME: down light | | TYPE: | WEIGHT: |
| DIMENSION: 75 | | SPECIFICATION: | SERIAL No.: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|-----------|-----------------------|--------|----------------|------|
| MODEL | 13w-4000k | I _{max} (cd) | 2639 | S/MH(C0/180) | 0.52 |
| NOMINAL POWER(W) | 14 | EFFICIENCY(%) | 121.5 | S/MH(C90/270) | 0.53 |
| RATED VOLTAGE(V) | 218 | TOTAL FLUX(lm) | 1445.2 | η UP(C0-180) | |
| NOMINAL FLUX(lm) | 1189.8 | CIE CLASS | DIRECT | η DN(C0-180) | |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | η UP(C180-360) | |
| TEST VOLTAGE(V) | 218.8 | η down(%) | 121.5 | η DN(C180-360) | |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test: U:218.8V I:0.073A P:14.30W PF:0.904

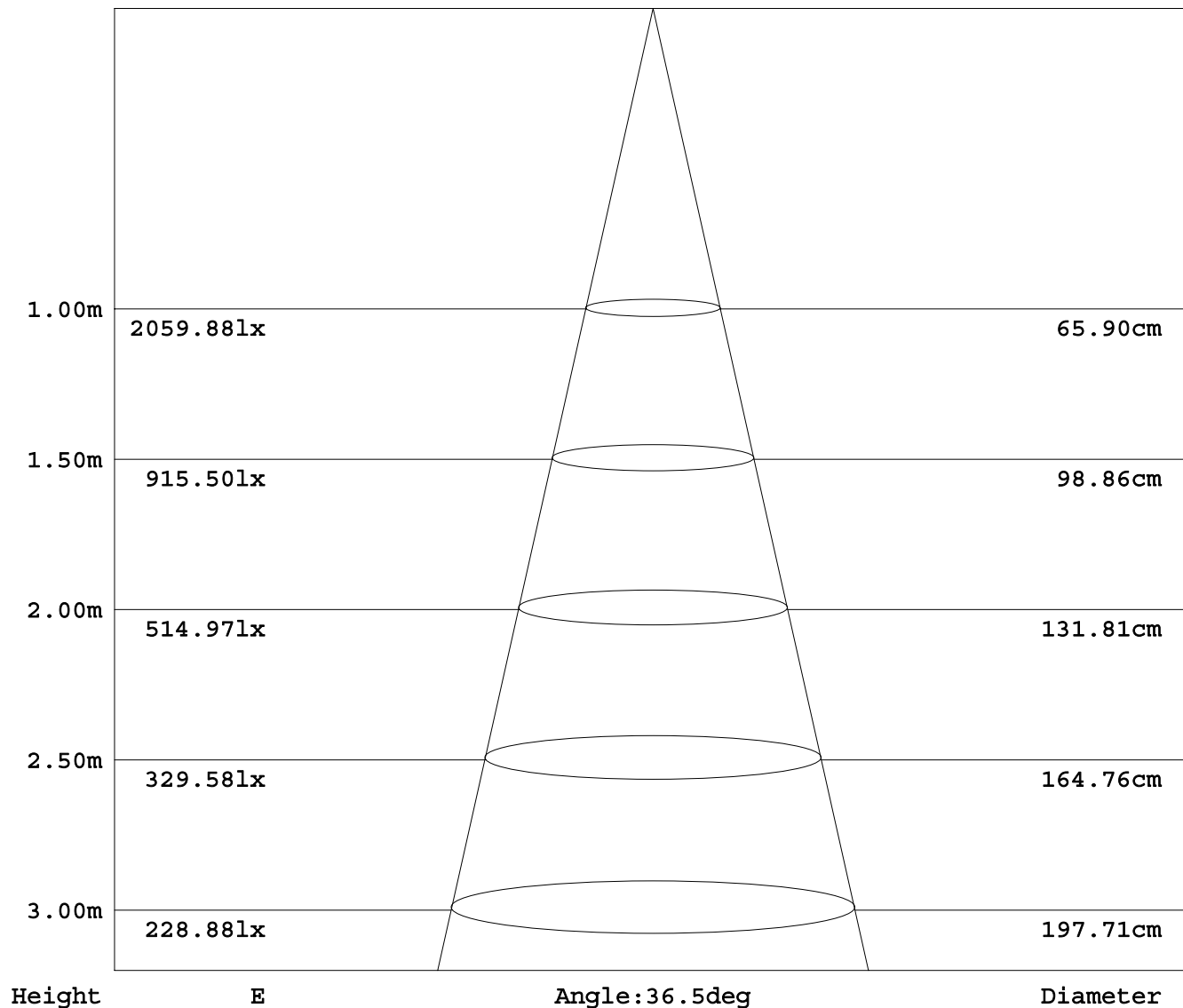
Test System: HONGPU HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2012年11月30日

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 3.000 m
 Remarks:

AVERAGE E Figure

Report number:

| | | |
|------------------------------|-------------------------|-------------|
| MANUFACTURER: Buddy Lighting | Address:Shenzhen, China | |
| NAME: down light | TYPE: | WEIGHT: |
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Test System:HONGPU HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2012年11月30日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:3.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

| | | |
|------------------------------|-------------------------|-------------|
| MANUFACTURER: Buddy Lighting | Address:Shenzhen, China | |
| NAME: down light | TYPE: | WEIGHT: |
| DIMENSION: 75 | SPECIFICATION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|
| 10.0 | 1987 | 2019 | 2009 | 2094 | 2436 | 2395 | 2388 | 2335 | 0- 10 | 240 | 240 |
| 20.0 | 950.5 | 958.3 | 948.8 | 1009 | 1465 | 1392 | 1426 | 1345 | 10- 20 | 487 | 727 |
| 30.0 | 342.7 | 369.1 | 345.6 | 371.5 | 606.4 | 567.7 | 601.3 | 555.3 | 20- 30 | 360 | 1087 |
| 40.0 | 147.6 | 156.0 | 139.5 | 133.2 | 184.1 | 175.0 | 198.6 | 190.6 | 30- 40 | 176 | 1263 |
| 50.0 | 76.12 | 77.93 | 72.73 | 69.77 | 87.85 | 86.28 | 91.91 | 93.21 | 40- 50 | 87 | 1350 |
| 60.0 | 37.50 | 39.14 | 34.05 | 30.27 | 37.96 | 36.52 | 42.97 | 47.79 | 50- 60 | 52 | 1402 |
| 70.0 | 17.95 | 17.82 | 16.64 | 14.73 | 16.65 | 16.56 | 17.45 | 19.17 | 60- 70 | 25 | 1428 |
| 80.0 | 8.703 | 8.649 | 7.326 | 5.697 | 7.641 | 7.497 | 8.613 | 10.49 | 70- 80 | 14 | 1441 |
| 90.0 | 0.360 | 1.035 | 0.513 | 0.171 | 0.639 | 0.684 | 1.215 | 2.727 | 80- 90 | 4 | 1445 |
| 100.0 | | | | | | | | | 90-100 | | |
| 110.0 | | | | | | | | | 100-110 | | |
| 120.0 | | | | | | | | | 110-120 | | |
| 130.0 | | | | | | | | | 120-130 | | |
| 140.0 | | | | | | | | | 130-140 | | |
| 150.0 | | | | | | | | | 140-150 | | |
| 160.0 | | | | | | | | | 150-160 | | |
| 170.0 | | | | | | | | | 160-170 | | |
| 180.0 | | | | | | | | | 170-180 | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | |

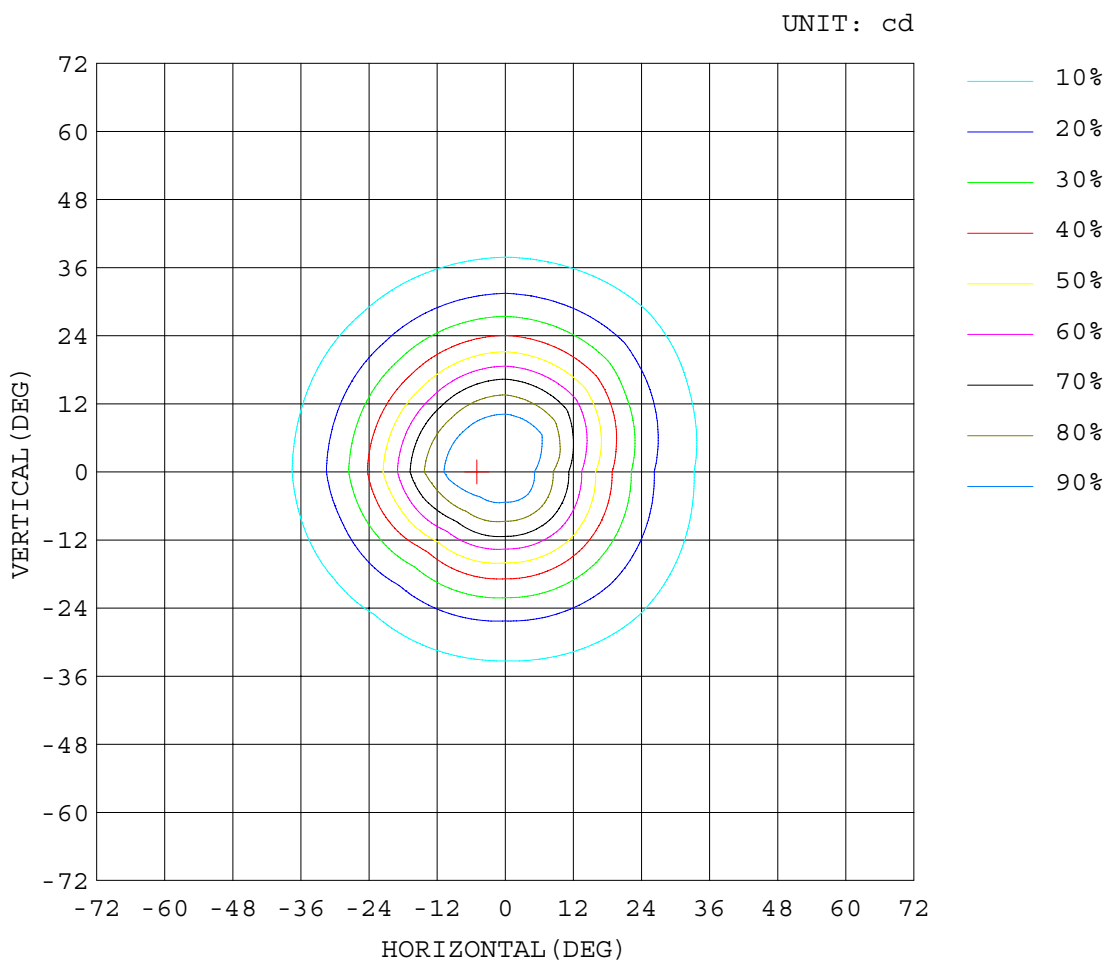
Test System:HONGPU HPG1800
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 Operators:
 Test Date:2012年11月30日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:3.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|------------------------------|-------------------------|-------------|
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| NAME: down light | TYPE: | WEIGHT: |
| DIMENSION: 75 | SPECIFICATION: | SERIAL No.: |



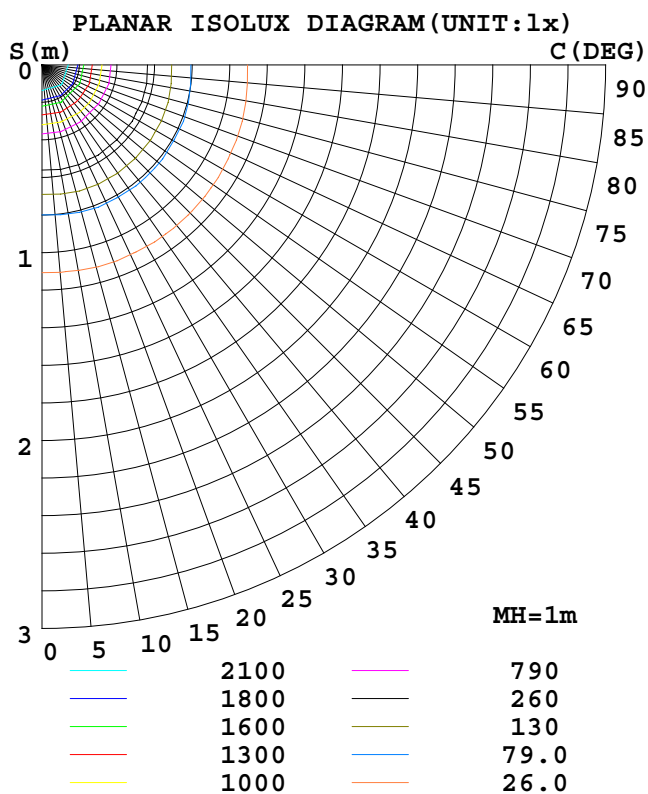
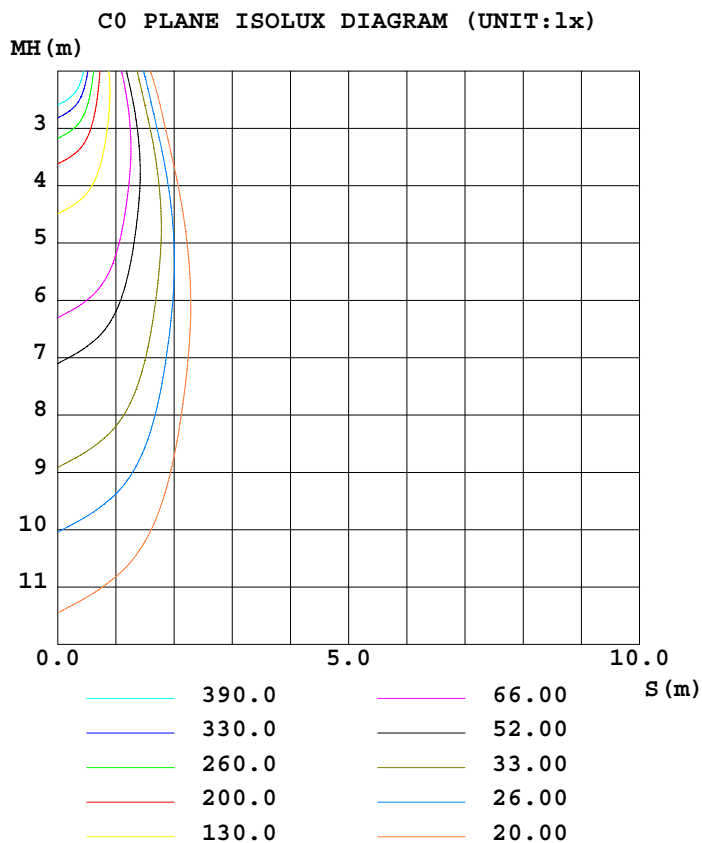
Test System:HONGPU HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2012年11月30日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:3.000 m
 Remarks:

ISOLUX DIAGRAM

Report number:

| | | |
|------------------------------|-------------------------|-------------|
| MANUFACTURER: Buddy Lighting | Address:Shenzhen, China | |
| NAME: down light | TYPE: | WEIGHT: |
| DIMENSION: 75 | SPECIFICATION: | SERIAL No.: |



Test System:HONGPU HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2012年11月30日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:3.000 m
 Remarks:

HONGPU GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

| | | | |
|------------------------------|--|-------------------------|-------------|
| MANUFACTURER: Buddy Lighting | | Address:Shenzhen, China | |
| NAME: down light | | TYPE: | WEIGHT: |
| DIMENSION: 75 | | SPECIFICATION: | SERIAL No.: |

UNIT: cd

| γ (DEG) | C (DEG) | | | | | | | |
|---------|---------|------|------|------|------|------|------|------|
| | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| 0.0 | 2622 | 2624 | 2619 | 2631 | 2622 | 2624 | 2619 | 2631 |
| 5.0 | 2385 | 2427 | 2402 | 2468 | 2639 | 2612 | 2613 | 2585 |
| 10.0 | 1987 | 2019 | 2009 | 2094 | 2436 | 2395 | 2388 | 2335 |
| 15.0 | 1403 | 1460 | 1417 | 1542 | 2057 | 1975 | 1999 | 1889 |
| 20.0 | 951 | 958 | 949 | 1009 | 1465 | 1392 | 1426 | 1345 |
| 25.0 | 589 | 623 | 590 | 645 | 988 | 933 | 968 | 882 |
| 30.0 | 343 | 369 | 346 | 372 | 606 | 568 | 601 | 555 |
| 35.0 | 222 | 238 | 222 | 222 | 347 | 321 | 349 | 315 |
| 40.0 | 148 | 156 | 140 | 133 | 184 | 175 | 199 | 191 |
| 45.0 | 103 | 107 | 98.5 | 93.9 | 122 | 120 | 129 | 130 |
| 50.0 | 76.1 | 77.9 | 72.7 | 69.7 | 87.8 | 86.2 | 91.9 | 93.2 |
| 55.0 | 56.8 | 58.7 | 52.4 | 46.2 | 59.3 | 58.9 | 65.0 | 70.3 |
| 60.0 | 37.5 | 39.1 | 34.0 | 30.2 | 37.9 | 36.5 | 42.9 | 47.7 |
| 65.0 | 25.5 | 25.8 | 23.1 | 19.2 | 25.3 | 24.5 | 27.3 | 31.4 |
| 70.0 | 17.9 | 17.8 | 16.6 | 14.7 | 16.6 | 16.5 | 17.4 | 19.1 |
| 75.0 | 13.4 | 13.1 | 11.8 | 9.66 | 12.4 | 12.5 | 13.5 | 15.8 |
| 80.0 | 8.70 | 8.64 | 7.32 | 5.69 | 7.64 | 7.49 | 8.61 | 10.4 |
| 85.0 | 0.89 | 4.62 | 3.69 | 2.21 | 3.78 | 3.84 | 4.61 | 6.39 |
| 90.0 | 0.36 | 1.03 | 0.51 | 0.17 | 0.64 | 0.68 | 1.21 | 2.72 |

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