

# **Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 644.4 cd per klm.      |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |                 |
|-------------|----------------|-----------------|
| Beam Spread | At 10% of Imax | 161.3V x 143.0H |
|             | At 50% of Imax | 44.1V x 120.3H  |
|             | At 90% of Imax | 15.0V x 104.3H  |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 997.6 lumens per klm. |
|           | To 10% of Imax | 925.0 lumens per klm. |
|           | To 50% of Imax | 549.1 lumens per klm. |
|           | To 90% of Imax | 82.4 lumens per klm.  |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 99.8 % |

|   |         |
|---|---------|
| Luminaire Efficiency (Light Output Ratio) | 100.0 % |
|---|---------|

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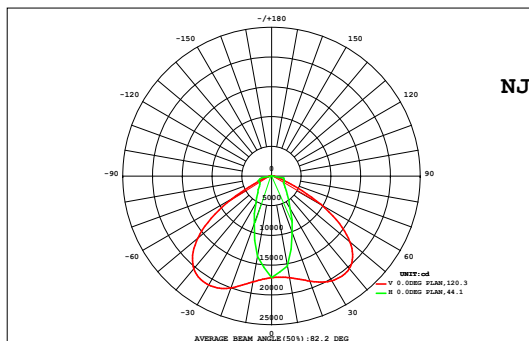
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

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V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |



| DATA OF LAMP                 |         | Eff:143.50lm/W  |           |
|------------------------------|---------|-----------------|-----------|
| NJZ-LED240-V01-RZ-32-PC-U-GR |         | Imax(cd)        | 21163     |
| NOMINAL POWER(W)             | 240     | AVAILABILITY(%) | 92.6      |
| RATED VOLTAGE(V)             | 220     | Avai. FLUX(lm)  | 30418     |
| NOMINAL FLUX(lm)             | 32839.5 | LOR(%)          | 100.0     |
| LAMPS INSIDE                 | 1       | TOTAL FLUX(lm)  | 32839     |
| TEST VOLTAGE(V)              | 220     | θ @50% (H,V)    | 120,44DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm |      | Φ t   | Φ a   |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|-------|-------|
|                | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  |
| 90             | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  |
| 80             | 0.16              | 1.75 | 5.27 | 10.4 | 17.0 | 24.5 | 35.2 | 52.6 | 69.8             | 69.9 | 52.5 | 34.7 | 24.0 | 16.5 | 9.97 | 4.86 | 1.50    | 0.12 | 431   | 121   |
| 70             | 0.33              | 3.09 | 9.15 | 17.7 | 27.2 | 36.0 | 45.5 | 58.7 | 72.1             | 72.0 | 58.3 | 45.1 | 35.8 | 27.0 | 17.2 | 8.76 | 2.86    | 0.27 | 537   | 168   |
| 60             | 0.51              | 4.64 | 14.1 | 27.4 | 40.5 | 51.6 | 61.1 | 68.6 | 72.6             | 72.4 | 68.1 | 60.6 | 51.1 | 39.9 | 26.7 | 13.6 | 4.35    | 0.44 | 678   | 402   |
| 50             | 0.67              | 6.23 | 20.3 | 41.4 | 60.5 | 75.3 | 85.5 | 92.0 | 95.2             | 95.2 | 91.9 | 85.2 | 74.5 | 59.3 | 40.1 | 19.6 | 5.90    | 0.59 | 949   | 877   |
| 40             | 0.81              | 7.61 | 28.2 | 64.7 | 96.6 | 115  | 126  | 131  | 133              | 134  | 132  | 126  | 114  | 94.1 | 62.2 | 26.9 | 7.24    | 0.72 | 1400  | 1361  |
| 30             | 0.91              | 8.74 | 38.7 | 108  | 169  | 198  | 206  | 207  | 205              | 206  | 209  | 209  | 197  | 165  | 103  | 36.5 | 8.25    | 0.81 | 2276  | 2248  |
|                | 0.98              | 9.70 | 52.0 | 169  | 281  | 338  | 351  | 342  | 333              | 337  | 352  | 361  | 342  | 276  | 162  | 47.8 | 8.98    | 0.86 | 3766  | 3741  |
|                | 1.01              | 10.3 | 62.9 | 221  | 380  | 473  | 502  | 489  | 476              | 484  | 509  | 523  | 483  | 377  | 212  | 57.1 | 9.43    | 0.88 | 5269  | 5246  |
|                | 1.01              | 10.4 | 65.8 | 234  | 404  | 504  | 535  | 522  | 512              | 521  | 549  | 564  | 519  | 404  | 224  | 58.7 | 9.41    | 0.88 | 5639  | 5616  |
|                | 0.97              | 9.91 | 57.9 | 196  | 331  | 401  | 417  | 406  | 400              | 410  | 435  | 450  | 420  | 334  | 189  | 51.7 | 9.05    | 0.85 | 4521  | 4497  |
| -30            | 0.91              | 9.14 | 44.9 | 135  | 212  | 243  | 246  | 242  | 242              | 249  | 264  | 272  | 261  | 217  | 128  | 39.6 | 8.25    | 0.78 | 2815  | 2787  |
| -40            | 0.79              | 8.00 | 32.2 | 79.1 | 114  | 129  | 138  | 144  | 147              | 149  | 150  | 147  | 139  | 119  | 76.0 | 29.3 | 7.33    | 0.68 | 1610  | 1576  |
| -50            | 0.65              | 6.74 | 23.2 | 47.8 | 68.3 | 82.8 | 93.0 | 99.8 | 104              | 104  | 102  | 95.5 | 85.3 | 69.2 | 46.2 | 21.4 | 6.15    | 0.54 | 1056  | 1003  |
| -60            | 0.47              | 5.16 | 16.1 | 31.0 | 44.9 | 56.8 | 66.4 | 73.6 | 77.9             | 78.0 | 73.8 | 66.8 | 57.1 | 44.7 | 30.2 | 15.1 | 4.72    | 0.38 | 743   | 562   |
| -70            | 0.31              | 3.54 | 10.5 | 20.1 | 30.2 | 39.4 | 48.7 | 59.2 | 67.4             | 66.9 | 58.3 | 48.0 | 38.9 | 29.7 | 19.3 | 9.85 | 3.15    | 0.23 | 554   | 137   |
| -80            | 0.17              | 2.06 | 6.11 | 11.9 | 18.9 | 26.3 | 36.2 | 51.8 | 65.3             | 63.9 | 49.3 | 34.6 | 25.4 | 18.1 | 11.2 | 5.51 | 1.72    | 0.11 | 429   | 75.6  |
| -90            | 0.05              | 0.58 | 1.68 | 3.37 | 5.75 | 8.88 | 14.3 | 24.2 | 30.7             | 29.2 | 20.3 | 11.9 | 7.60 | 4.80 | 2.63 | 1.15 | 0.27    | 0.01 | 167   | 0.00  |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90      |      |       |       |
| Φ t            | 10.7              | 108  | 489  | 1418 | 2303 | 2803 | 3007 | 3063 | 3103             | 3142 | 3174 | 3134 | 2876 | 2296 | 1360 | 447  | 98.5    | 9.15 | 32839 | ---   |
| Φ a            | 0.00              | 3.67 | 360  | 1290 | 2147 | 2629 | 2800 | 2847 | 3018             | 3051 | 2954 | 2929 | 2706 | 2143 | 1231 | 310  | 0.43    | 0.00 | ---   | 30418 |

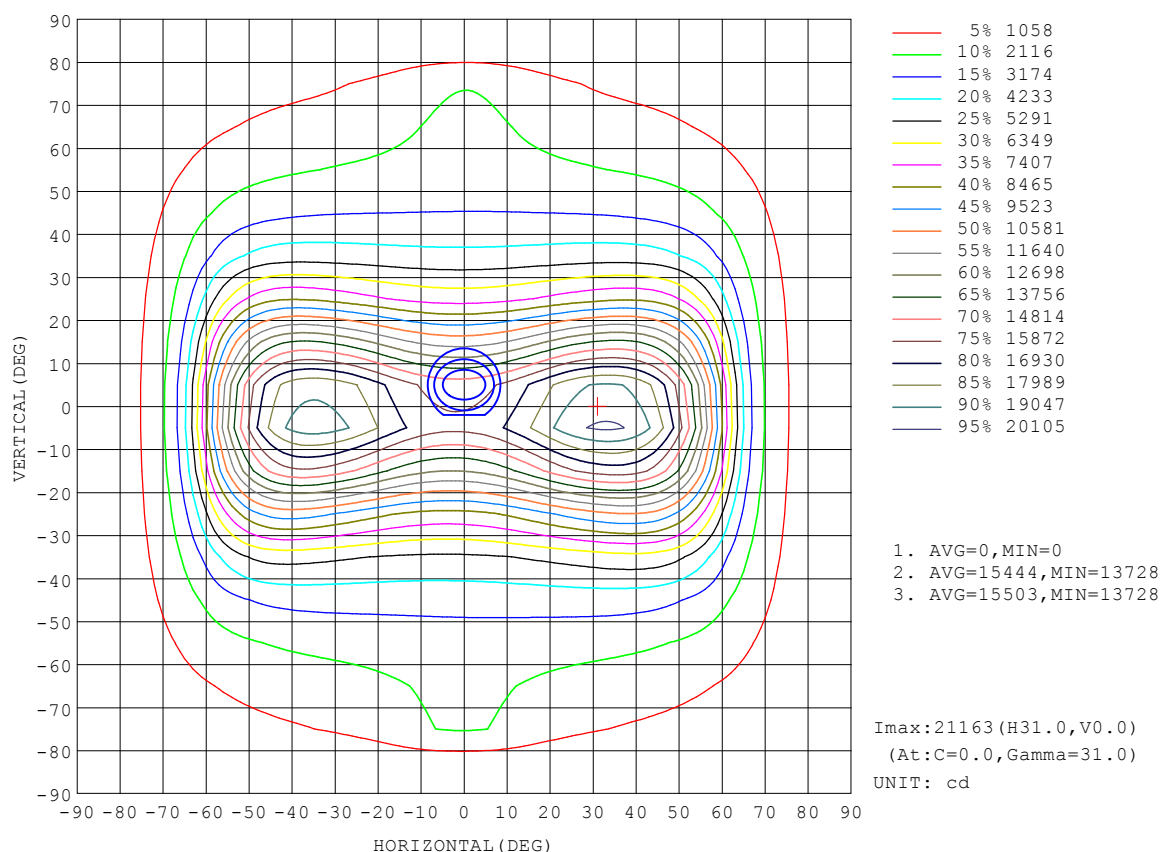
one-half-peak spread: U:24.2,D:20.4 , L:26.2,R:28.3 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |

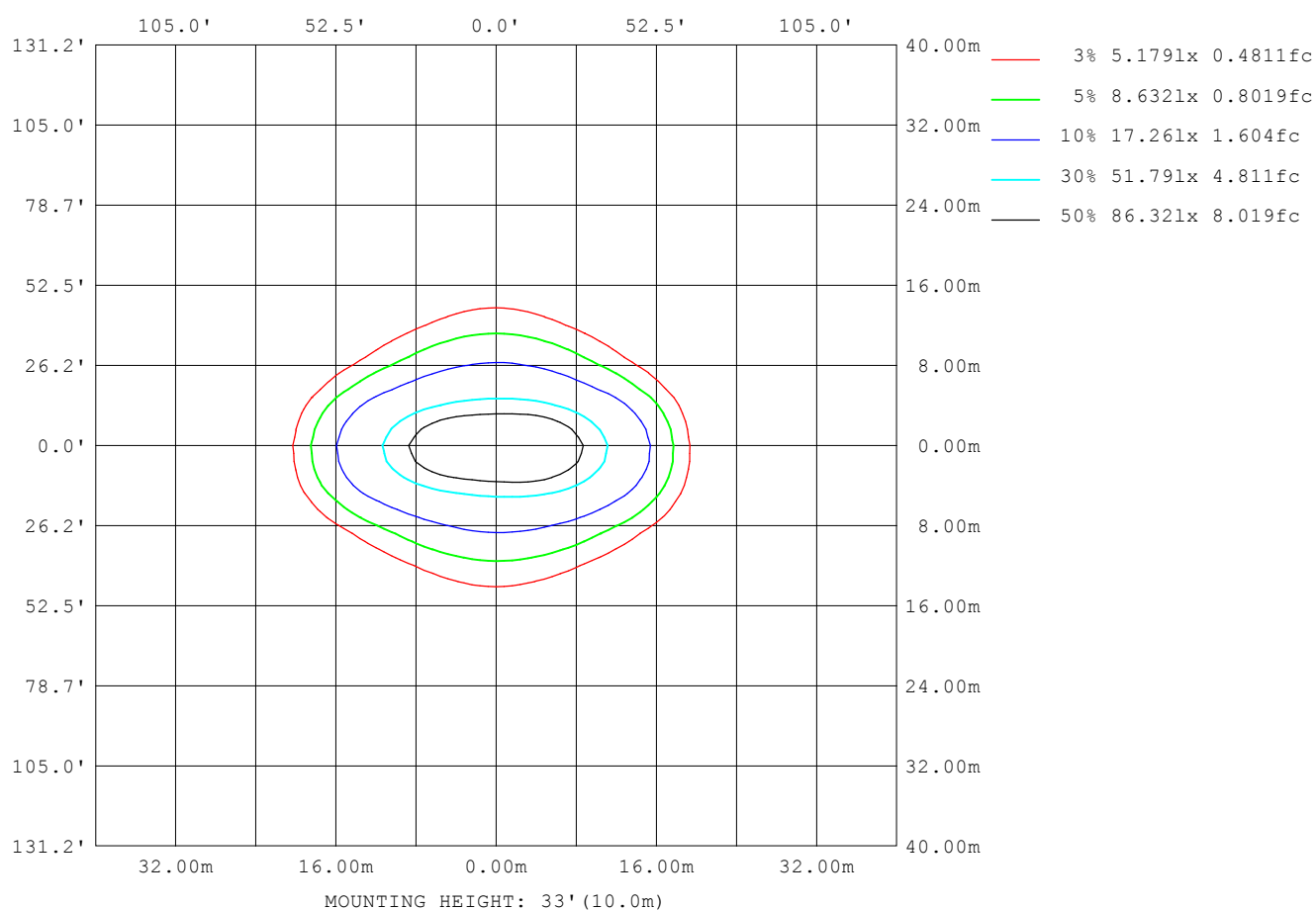


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

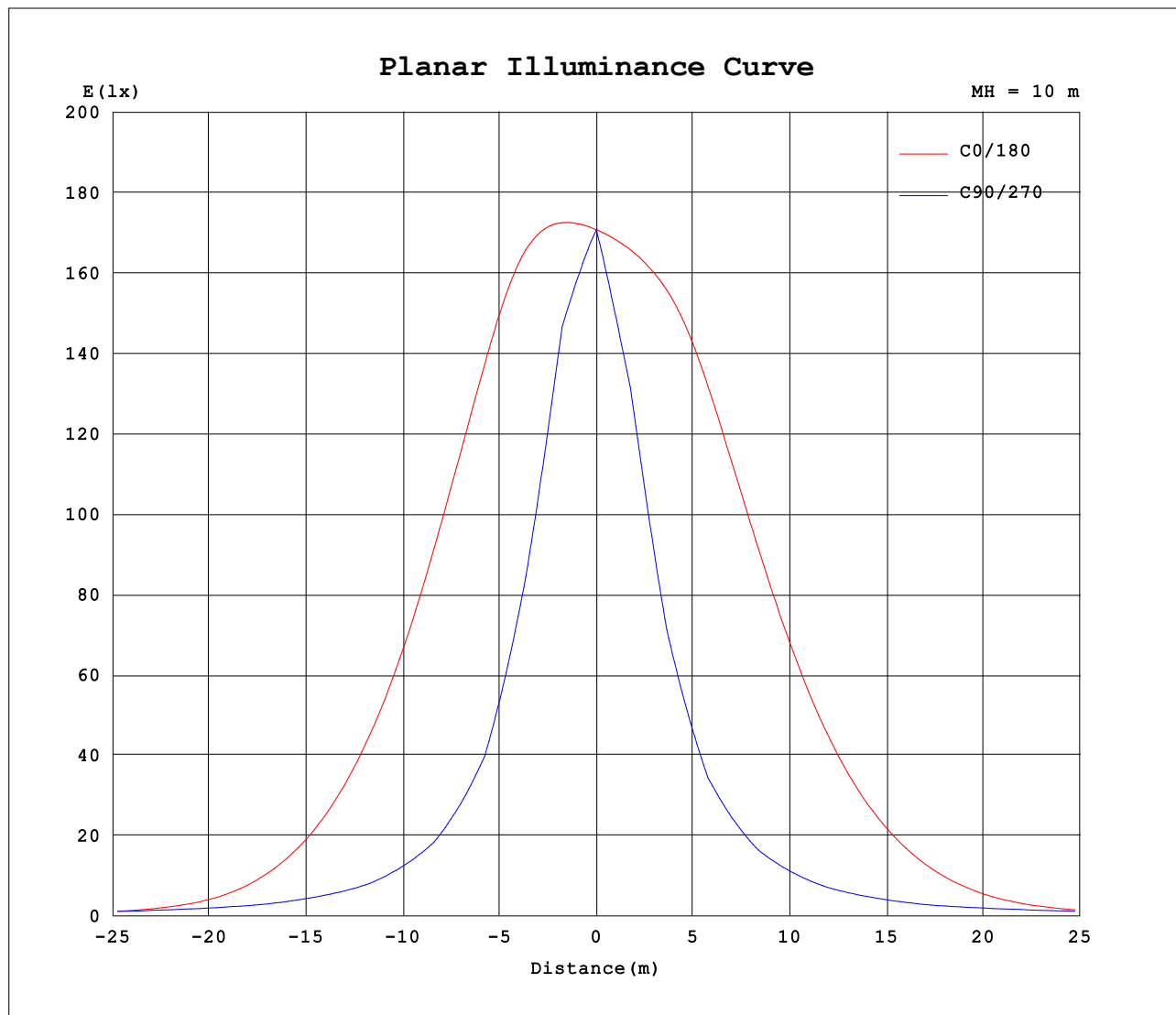
|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



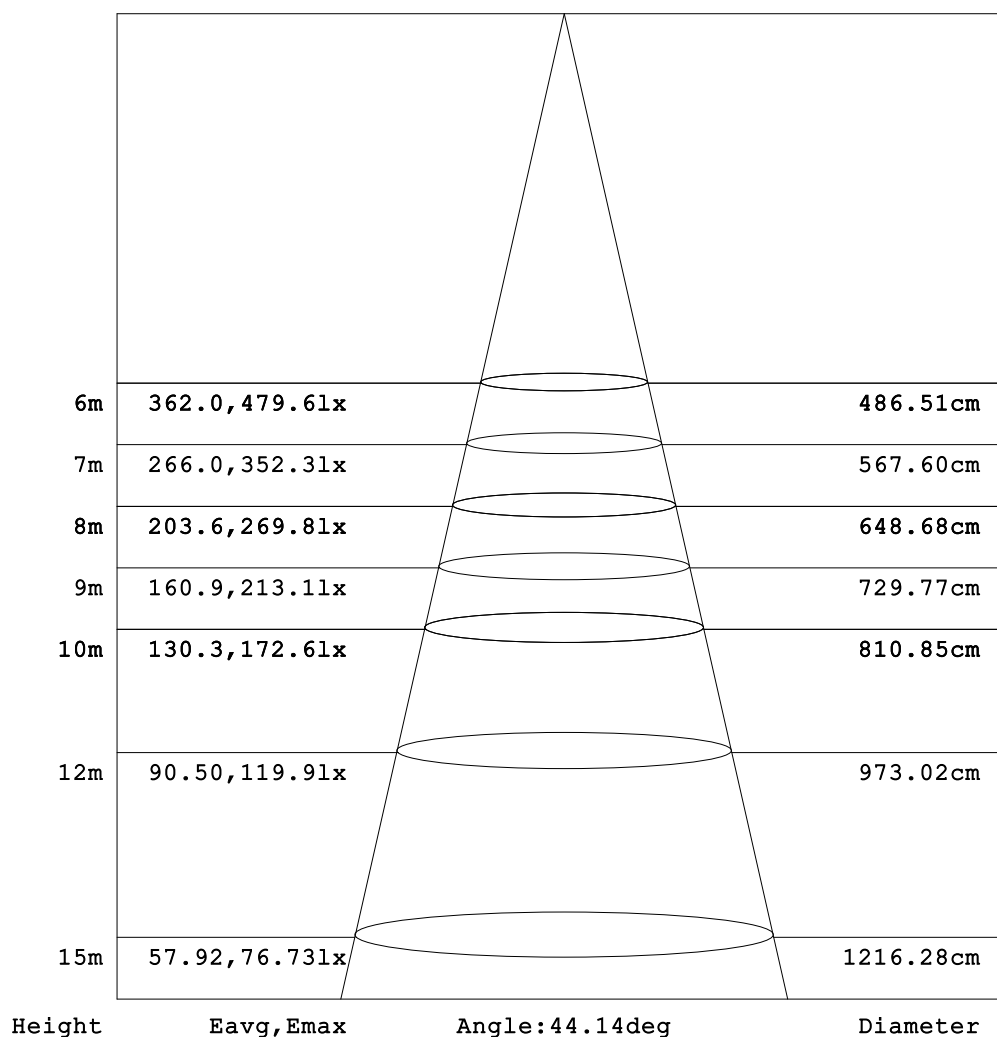
H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:CL  
 Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:6.010m [K=1.0000]  
 Remarks:

### AAI Figure

|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |

Flux out:7025 lm



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

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
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V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |

Table--1

UNIT: ×10cd

| H (DEG)<br>V (DEG) | -90  | -85  | -80  | -75  | -70  | -65  | -60  | -55  | -50  | -45  | -40  | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -85                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -80                | 0.70 | 2.08 | 8.98 | 17.5 | 24.9 | 32.6 | 40.4 | 48.1 | 56.3 | 64.8 | 73.1 | 82.1 | 94.2 | 112  | 136  | 169  | 196  | 208  | 209  |
| -75                | 0.61 | 2.31 | 11.4 | 24.0 | 34.8 | 46.2 | 57.4 | 67.9 | 78.1 | 88.0 | 96.8 | 105  | 116  | 130  | 150  | 175  | 200  | 215  | 220  |
| -70                | 0.75 | 4.70 | 19.4 | 34.8 | 49.3 | 64.2 | 78.8 | 91.7 | 104  | 115  | 124  | 132  | 142  | 155  | 172  | 192  | 212  | 226  | 229  |
| -65                | 0.59 | 4.27 | 21.0 | 40.7 | 59.7 | 79.7 | 98.8 | 116  | 131  | 143  | 152  | 160  | 169  | 179  | 191  | 205  | 219  | 229  | 233  |
| -60                | 0.80 | 8.15 | 31.7 | 53.8 | 77.9 | 103  | 126  | 146  | 163  | 175  | 184  | 192  | 199  | 207  | 215  | 224  | 230  | 235  | 236  |
| -55                | 0.59 | 6.78 | 31.9 | 58.4 | 87.8 | 121  | 153  | 181  | 202  | 216  | 226  | 234  | 241  | 246  | 252  | 257  | 261  | 264  | 265  |
| -50                | 0.85 | 12.2 | 43.5 | 74.0 | 110  | 151  | 193  | 225  | 247  | 262  | 272  | 280  | 284  | 288  | 290  | 291  | 293  | 294  | 295  |
| -45                | 0.59 | 9.82 | 42.1 | 75.4 | 117  | 170  | 230  | 282  | 316  | 335  | 345  | 349  | 351  | 351  | 351  | 351  | 351  | 352  | 353  |
| -40                | 0.94 | 17.5 | 53.5 | 91.6 | 143  | 212  | 290  | 356  | 395  | 414  | 420  | 420  | 418  | 415  | 413  | 411  | 410  | 410  | 412  |
| -35                | 0.59 | 13.1 | 49.5 | 88.5 | 144  | 228  | 345  | 459  | 531  | 563  | 567  | 559  | 547  | 535  | 525  | 517  | 512  | 510  | 512  |
| -30                | 1.05 | 22.7 | 59.7 | 104  | 173  | 286  | 449  | 598  | 687  | 717  | 712  | 693  | 671  | 651  | 634  | 621  | 613  | 610  | 614  |
| -25                | 0.61 | 17.6 | 54.4 | 98.4 | 170  | 298  | 518  | 744  | 903  | 983  | 1002 | 984  | 949  | 911  | 873  | 841  | 820  | 811  | 814  |
| -20                | 1.18 | 27.8 | 64.7 | 115  | 206  | 383  | 686  | 966  | 1163 | 1264 | 1289 | 1263 | 1212 | 1155 | 1098 | 1051 | 1022 | 1011 | 1019 |
| -15                | 0.64 | 21.3 | 57.5 | 105  | 191  | 368  | 710  | 1065 | 1333 | 1494 | 1564 | 1567 | 1530 | 1472 | 1404 | 1340 | 1295 | 1273 | 1274 |
| -10                | 1.24 | 28.7 | 66.9 | 121  | 227  | 463  | 887  | 1288 | 1584 | 1766 | 1849 | 1861 | 1828 | 1764 | 1682 | 1608 | 1555 | 1531 | 1536 |
| -5                 | 0.67 | 22.5 | 59.0 | 109  | 203  | 410  | 829  | 1264 | 1599 | 1816 | 1929 | 1960 | 1938 | 1880 | 1798 | 1715 | 1655 | 1622 | 1619 |
| 0                  | 1.30 | 29.5 | 68.2 | 124  | 236  | 493  | 956  | 1394 | 1719 | 1928 | 2032 | 2056 | 2031 | 1967 | 1878 | 1795 | 1736 | 1706 | 1708 |
| 5                  | 0.50 | 22.5 | 59.0 | 108  | 201  | 402  | 801  | 1216 | 1534 | 1739 | 1846 | 1875 | 1854 | 1799 | 1720 | 1639 | 1579 | 1545 | 1540 |
| 10                 | 1.73 | 28.7 | 66.8 | 120  | 223  | 441  | 823  | 1184 | 1448 | 1608 | 1682 | 1691 | 1661 | 1603 | 1528 | 1455 | 1403 | 1376 | 1376 |
| 15                 | 0.40 | 21.7 | 57.2 | 104  | 186  | 347  | 644  | 952  | 1183 | 1318 | 1378 | 1382 | 1352 | 1305 | 1247 | 1190 | 1146 | 1121 | 1116 |
| 20                 | 1.68 | 27.5 | 64.1 | 113  | 198  | 352  | 598  | 828  | 986  | 1063 | 1083 | 1064 | 1027 | 985  | 942  | 904  | 876  | 861  | 860  |
| 25                 | 0.54 | 20.0 | 53.6 | 96.4 | 163  | 275  | 450  | 628  | 753  | 818  | 837  | 829  | 806  | 779  | 752  | 727  | 708  | 697  | 695  |
| 30                 | 1.53 | 24.8 | 58.6 | 101  | 164  | 258  | 379  | 487  | 555  | 586  | 592  | 586  | 574  | 562  | 552  | 542  | 535  | 532  | 531  |
| 35                 | 0.67 | 17.5 | 48.2 | 85.6 | 136  | 207  | 296  | 378  | 434  | 464  | 475  | 476  | 472  | 467  | 461  | 456  | 452  | 449  | 448  |
| 40                 | 1.42 | 21.6 | 51.7 | 87.5 | 133  | 190  | 249  | 296  | 329  | 349  | 360  | 366  | 368  | 369  | 368  | 367  | 366  | 366  | 366  |
| 45                 | 0.76 | 14.5 | 40.6 | 71.5 | 108  | 153  | 199  | 239  | 267  | 286  | 298  | 306  | 312  | 314  | 316  | 318  | 319  | 319  | 320  |
| 50                 | 1.31 | 17.0 | 41.2 | 69.1 | 101  | 135  | 168  | 195  | 214  | 229  | 240  | 250  | 256  | 261  | 265  | 268  | 271  | 273  | 273  |
| 55                 | 0.85 | 10.4 | 31.1 | 54.1 | 79.7 | 107  | 134  | 157  | 176  | 190  | 201  | 209  | 217  | 224  | 230  | 237  | 243  | 247  | 249  |
| 60                 | 1.26 | 12.0 | 29.9 | 48.9 | 69.5 | 90.7 | 110  | 127  | 143  | 155  | 164  | 172  | 180  | 189  | 199  | 208  | 217  | 223  | 224  |
| 65                 | 0.93 | 5.95 | 21.1 | 36.4 | 52.7 | 69.5 | 85.6 | 100  | 114  | 126  | 135  | 143  | 152  | 162  | 176  | 193  | 212  | 228  | 235  |
| 70                 | 1.21 | 5.60 | 18.3 | 30.3 | 42.6 | 55.0 | 67.2 | 78.7 | 90.0 | 101  | 110  | 118  | 127  | 141  | 159  | 185  | 214  | 237  | 245  |
| 75                 | 1.03 | 2.69 | 10.8 | 19.8 | 28.7 | 37.8 | 46.8 | 55.4 | 64.1 | 72.9 | 80.8 | 88.5 | 97.9 | 111  | 128  | 152  | 178  | 199  | 207  |
| 80                 | 1.14 | 2.01 | 6.89 | 12.9 | 18.4 | 24.1 | 29.8 | 35.6 | 41.8 | 48.3 | 55.1 | 62.7 | 72.9 | 86.9 | 105  | 129  | 152  | 166  | 170  |
| 85                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                     |
|--|-----------------|---------------------|
| Test:U:219.91V I:1.0517A P:228.85W PF:0.9895 Freq:49.99Hz Lamp Flux:32839.5x1 lm |                 |                     |
| NAME: LED High Bay Light   | TYPE:Floodlight | WEIGHT:N/A          |
| SPEC.:240W   | DIM.: N/A       | SERIAL No.:N/A      |
| MFR.: NJZ Lighting Technology Co.,Ltd  | SUR.:N/A        | Shielding Angle:N/A |

Table--2

UNIT: ×10cd

| H (DEG)<br>V (DEG) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55    | 60   | 65   | 70   | 75   | 80   | 85   | 90   |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|--|
| -90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -85                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| -80                | 201  | 180  | 148  | 119  | 99.2 | 84.9 | 74.7 | 66.5 | 58.3 | 49.9 | 41.8  | 34.1 | 26.4 | 18.8 | 11.6 | 4.25 | 1.14 | 0.77 |  |
| -75                | 213  | 196  | 170  | 145  | 127  | 113  | 103  | 94.9 | 86.1 | 76.2 | 66.0  | 55.4 | 44.3 | 33.0 | 22.2 | 11.1 | 2.38 | 0.80 |  |
| -70                | 220  | 202  | 181  | 163  | 148  | 137  | 128  | 120  | 110  | 98.5 | 86.0  | 72.4 | 57.6 | 42.7 | 28.6 | 13.1 | 2.23 | 0.70 |  |
| -65                | 228  | 217  | 204  | 190  | 178  | 169  | 161  | 153  | 143  | 131  | 115   | 98.3 | 79.3 | 59.2 | 40.3 | 22.1 | 4.89 | 0.78 |  |
| -60                | 233  | 228  | 220  | 212  | 204  | 197  | 190  | 182  | 171  | 157  | 138   | 117  | 92.9 | 67.9 | 44.9 | 22.6 | 3.94 | 0.72 |  |
| -55                | 265  | 262  | 258  | 254  | 249  | 244  | 238  | 230  | 219  | 203  | 182   | 154  | 121  | 88.4 | 59.1 | 33.4 | 8.11 | 0.79 |  |
| -50                | 295  | 295  | 294  | 293  | 292  | 289  | 283  | 274  | 260  | 242  | 216   | 178  | 136  | 96.6 | 62.6 | 33.4 | 6.16 | 0.76 |  |
| -45                | 355  | 356  | 358  | 360  | 362  | 363  | 362  | 357  | 345  | 322  | 285   | 232  | 171  | 118  | 76.7 | 43.6 | 11.8 | 0.80 |  |
| -40                | 414  | 418  | 423  | 428  | 433  | 438  | 440  | 436  | 422  | 390  | 336   | 261  | 184  | 122  | 76.5 | 41.4 | 8.90 | 0.76 |  |
| -35                | 517  | 527  | 539  | 553  | 568  | 583  | 595  | 599  | 587  | 546  | 466   | 349  | 232  | 147  | 90.5 | 51.2 | 16.5 | 0.83 |  |
| -30                | 624  | 640  | 660  | 684  | 709  | 733  | 753  | 761  | 741  | 676  | 555   | 386  | 240  | 145  | 87.1 | 47.3 | 12.2 | 0.75 |  |
| -25                | 830  | 860  | 899  | 944  | 987  | 1024 | 1050 | 1054 | 1019 | 926  | 758   | 526  | 304  | 173  | 101  | 56.4 | 21.1 | 0.88 |  |
| -20                | 1047 | 1094 | 1156 | 1223 | 1281 | 1327 | 1353 | 1340 | 1269 | 1122 | 879   | 566  | 302  | 165  | 94.0 | 50.6 | 15.7 | 0.79 |  |
| -15                | 1301 | 1352 | 1423 | 1504 | 1576 | 1624 | 1643 | 1622 | 1535 | 1364 | 1093  | 731  | 380  | 196  | 108  | 59.9 | 23.6 | 0.93 |  |
| -10                | 1571 | 1635 | 1723 | 1818 | 1894 | 1933 | 1934 | 1881 | 1746 | 1515 | 1173  | 739  | 359  | 182  | 99.4 | 53.3 | 18.0 | 0.83 |  |
| -5                 | 1647 | 1706 | 1791 | 1889 | 1974 | 2020 | 2024 | 1976 | 1849 | 1625 | 1289  | 853  | 424  | 208  | 112  | 61.7 | 24.5 | 0.97 |  |
| 0                  | 1742 | 1807 | 1898 | 1999 | 2079 | 2115 | 2105 | 2036 | 1878 | 1619 | 1241  | 778  | 370  | 184  | 100  | 53.6 | 17.9 | 0.87 |  |
| 5                  | 1564 | 1617 | 1695 | 1786 | 1865 | 1909 | 1914 | 1869 | 1750 | 1543 | 1227  | 818  | 413  | 206  | 112  | 61.6 | 24.4 | 1.05 |  |
| 10                 | 1402 | 1454 | 1527 | 1608 | 1675 | 1712 | 1714 | 1668 | 1553 | 1362 | 1060  | 680  | 342  | 179  | 99.0 | 53.3 | 17.9 | 0.88 |  |
| 15                 | 1132 | 1166 | 1219 | 1280 | 1336 | 1377 | 1394 | 1377 | 1309 | 1174 | 952   | 653  | 354  | 191  | 108  | 60.0 | 23.7 | 1.11 |  |
| 20                 | 872  | 897  | 933  | 976  | 1017 | 1052 | 1074 | 1069 | 1022 | 916  | 735   | 494  | 281  | 161  | 93.7 | 50.8 | 16.7 | 0.94 |  |
| 25                 | 701  | 715  | 736  | 762  | 788  | 811  | 827  | 828  | 802  | 737  | 619   | 450  | 278  | 167  | 99.9 | 56.6 | 22.0 | 1.12 |  |
| 30                 | 534  | 540  | 548  | 558  | 568  | 577  | 584  | 582  | 564  | 520  | 443   | 330  | 221  | 140  | 86.5 | 47.4 | 15.2 | 0.96 |  |
| 35                 | 450  | 453  | 457  | 462  | 467  | 471  | 473  | 469  | 455  | 425  | 372   | 295  | 210  | 140  | 88.8 | 50.8 | 19.3 | 1.12 |  |
| 40                 | 366  | 367  | 368  | 369  | 368  | 366  | 362  | 353  | 337  | 312  | 275   | 224  | 167  | 116  | 74.5 | 40.7 | 12.5 | 1.01 |  |
| 45                 | 320  | 319  | 318  | 317  | 314  | 311  | 305  | 296  | 283  | 264  | 237   | 198  | 154  | 110  | 73.2 | 42.1 | 15.6 | 1.12 |  |
| 50                 | 273  | 270  | 267  | 263  | 259  | 253  | 246  | 235  | 222  | 206  | 185   | 154  | 122  | 88.8 | 58.5 | 32.2 | 9.18 | 1.04 |  |
| 55                 | 248  | 244  | 238  | 231  | 224  | 217  | 209  | 200  | 189  | 175  | 157   | 133  | 107  | 80.1 | 54.5 | 31.5 | 11.2 | 1.12 |  |
| 60                 | 222  | 215  | 206  | 196  | 186  | 177  | 169  | 161  | 151  | 137  | 120   | 102  | 81.6 | 60.6 | 40.8 | 22.3 | 5.39 | 1.08 |  |
| 65                 | 230  | 215  | 196  | 178  | 164  | 152  | 144  | 136  | 127  | 114  | 100.0 | 85.0 | 68.8 | 52.0 | 35.7 | 20.5 | 6.05 | 1.14 |  |
| 70                 | 234  | 209  | 179  | 154  | 136  | 124  | 115  | 107  | 97.6 | 85.8 | 73.9  | 61.8 | 49.3 | 36.6 | 24.5 | 12.8 | 2.23 | 1.11 |  |
| 75                 | 201  | 183  | 156  | 131  | 112  | 98.4 | 88.5 | 80.6 | 72.7 | 63.7 | 54.5  | 45.5 | 36.4 | 27.2 | 18.3 | 9.71 | 2.37 | 1.16 |  |
| 80                 | 163  | 146  | 122  | 98.9 | 81.4 | 68.1 | 58.4 | 51.0 | 44.3 | 37.8 | 31.6  | 25.6 | 19.8 | 14.1 | 8.75 | 3.23 | 1.31 | 1.14 |  |
| 85                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
| 90                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:CL  
Test Date:19 October 2019

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:6.010m [K=1.0000]  
Remarks: